

# PRONAR TRAILERS



**DROPSIDE  
TIPPERS**



**POWER-PUSH  
TRAILERS**



**MANURE  
SPREADERS**



**BALE  
TRAILERS**



**CHASER  
BIN**





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# SINGLE AXLE TRAILERS



**PRONAR** **36** MONTHS WARRANTY\*

\* Ask Your local Authorized Dealer and Sales Representative or see PRONAR.PL for more details.



# PRONAR T654/1, T654/2, T655, T671

**PRONAR Trailer T654/1** is a bigger single axle trailer in comparison to its twin sister **PRONAR T654**. The three-way stable tipping system of the loading case provides high level functionality. Beside this, resistant profiles and high quality, reliable and durable axles distinguish them from the competition. The load capacity of three and half tons makes them perfect for small and medium sized farms. It can be connected to the tractors of 30HP and more.

**PRONAR T654/2** is a single axle trailer with three-way tipping system. It is designed for transporting any materials used in agriculture (corn, silage and root crops), in the municipal sector (waste disposal resulting from cleaning parks, greenbelts and bicycle paths), in fruit growing (transport boxes in orchards between rows of trees and shrubs) and other purposes.

**PRONAR T654/2** trailer is a versatile product which is a result of upgrading PRONAR T654/1 trailer. The top and bottom frame has been redesigned which makes trailer curb weight as **T654/1**. Nevertheless **T654/2** has greater capacity remaining the basic parameters such as strength and stability unchanged. The loading case has a universal opening and central locking walls system (rear, left, right). The walls are made from high quality, strong profiles PF500 mm (closed walls profiles protected by laser weld). The forged hinges and locks are used in the case to prevent from case unexpected opening the walls and ensure the tightness of loading box for each type of cargo.

**PRONAR T654/2** trailer has central locking walls (rear, left, right), three-way tipping system, drawbar support as straight leg with folded steel wheel, chute grain locked in the rear wall and double line braking system in standard version. The versatile design of the frame gives the opportunity to attach the trailer drawbar on the lower or upper hitch of the tractor. It is also possible to have overrun braking system. Chemically hardened painting materials provide high durability and UV resistance.

**PRONAR PRONAR T655** is the smallest single axle trailer offered in a unique orange color. The Three-way tipping system of the loading case provides high level functionality. Beside this, high quality, reliable and durable axles distinguish them from their competition. The small dimensions and load capacity of two and half tons make them perfect for municipality. Thanks to its small dimensions it can be connected to any type of tractor.

Modern and convenient **PRONAR Trailer T671** is the biggest single axle trailer in our range. The Three-way tipping system of the loading case provides high level functionality. Beside this, high quality, reliable and durable axles distinguish them from the competition. The load capacity of five tons makes them enough efficient for small and medium sized farms. The trailer is equipped with sidewalls central locking system and the grain hatch with a lever facilitating rear unloading.

**PRONAR T655**



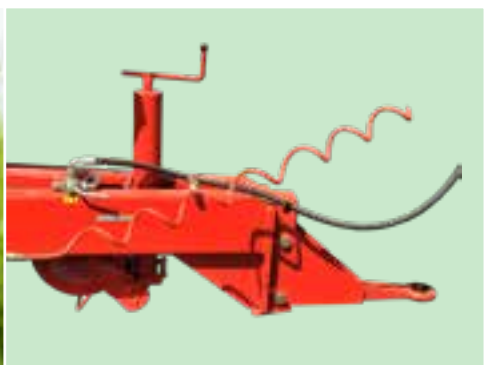
**PRONAR T654/1**



**PRONAR T654/2**



**PRONAR T671**





Three way tipping system with telescopic cylinder and hinged suspension



Tipping system with ball joints at the rear



Easier loading thanks to well situated loading case



SINGLE AXLE TRAILER PRONAR T671

#### TECHNICAL DATA OF STANDARD EQUIPMENT

	T654/1	T654/2	T655	T671
Technically permissible total weight: [kg]	5500	6100	3500	7400
Permissible total weight: [kg]	4990	6100	2980	6855
Load capacity: [kg]	3500	4910	2000	5000
Empty weight: [kg]	1490	1190	980	1855
Load volume: [m <sup>3</sup> ]	6.2	3.2	2.1	8.2
Loading space: [m <sup>2</sup> ]	6.2	6.4	4.1	8.2
Loading case inside length: [mm]	3310	3500	2910	4010
Loading case inside width: [mm]	1860	1820	1410	"conical:2010 /2060"
Dimensions: length/width/height: [mm]	4825/2045/2060	4960/1990/1430	4420/1595/1390	5630/2240/2080
Sidewall height: [mm]	500+500	500	500	500+500
Floor/wall thickness: [mm]	3/2	3/2	3/2	4/2
Platform height, measured from the ground: [mm]	1020	890	850	1045
Wheel track: [mm]	1500	1400	1150	1530
Suspension:	fixed	fixed	fixed	fixed
Hitch-ring load: [kg]	750	1000	480	1100
Tyres: [km/h]	11.5/80-15.3	11.5/80-15.3	10.0/75-15.3	400/60-15.5
Maximum speed:	30	25	30	30
Tipping system:	3-side	3-side	3-side	3-side
Tipping cylinder (piston stroke/oil requirement/working pressure)	1300mm/8L/160bar	1300mm/8L/160bar	1300mm/8L/160bar	1540mm/8L/200bar
Tractor power requirement: [hp/kW]	31.2/23	33.6/24.7	20.8/15.3	36.4/26.7
Tipping angle (backwards/sides): [°]	50/46	50/46	50/46	50/46

\* Technically permissible total weight with reduced speed to 30 km/h

SINGLE AXLE TRAILERS  
**PRONAR T654/1, T654/2, T655, T671**



**STANDARD EQUIPMENT**

**ADDITIONAL EQUIPMENT (OPTIONAL)**

**T654/1**

Loading case with universal system of sidewalls opening  
 Central locking system  
 Tipping frame: triangular made of open profiles  
 Drawbar: lower transportation hitch with Ø50 fixed towing eye  
 Drawbar support: supporting wheel  
 Braking system: single line pneumatic or double line pneumatic or hydraulic  
 Parking brake with crank  
 12V lighting system with rear electric socket  
 Tipping system with cut-off valve  
 Three side tipping system  
 Sidewalls and extensions made of PRONAR profiles 500mm + 500mm with rim 70mm with forged hinges and locks  
 Sidewalls fastening string  
 Wheel chocks and racks  
 Double-component chemically hardened painting materials  
 Tipping frame painting colour: red RAL3000 PRONAR  
 Side walls painting colour: green RAL6010 PRONAR  
 Ladder and side steps facilitating access to the loading case  
 Grain hatch with a lever in a rear wall  
 Mechanical support of the loading case

Excluding PF 500mm side extensions  
 Drawbar towing hitch: rigid to couple with upper hitch of the tractor  
 Drawbar towing hitch: fixed towing eye Ø40mm  
 Drawbar towing hitch: rotary towing eye Ø50mm  
 Overrun braking system  
 Parking brake with lever  
 Rear manual hitch, fixed  
 Rear connections to a second trailer  
 Rear grain chute  
 Tyres 12.5/80-15.3  
 Tyres 14.0/65-16  
 Spare wheel (separately) 11.5/80-15.3  
 Spare wheel (separately) 12.5-15.3  
 Spare wheel (separately) 14.0/65-16  
 Warning triangle  
 Laced canvas cover with frame  
 Non standard colours according to RAL CALSSIC codes

**T654/2**

Loading case with universal system of sidewalls opening  
 Central sidewalls locking system (rear, left, right)  
 Side walls made of 500 mm reinforced profiles with 70 mm edge, with forged hinges and locks  
 Closed walls profiles protected by laser weld  
 Grain hatch with a lever in a rear wall  
 Tipping frame: Rectangular made of closed profiles  
 Drawbar: fixed to couple with lower or upper hitch of the tractor  
 Drawbar towing hitch: fixed with Ø40 towing eye to couple with upper hitch of the tractor  
 Drawbar support: straight with folded steel wheel  
 Braking system: double line pneumatic  
 Parking brake with crank  
 12V lighting system with rear electric socket  
 Spiral connecting cable of lighting system  
 Tipping system with cut-off valve  
 Mechanical support of the loading case  
 Three side tipping system  
 Mechanical support of the loading case  
 Wheel chocks and racks (2 pcs)  
 Double-component chemically hardened painting materials, UV-resistant  
 Chassis color red RAL3000 PRONAR  
 Sidewalls color green RAL6010 PRONAR

Drawbar towing hitch: fixed with Ø40 towing eye to couple with lower hitch of the tractor  
 Drawbar hitch: rotary with towing eye Ø50mm to couple with lower hitch of the tractor  
 Overrun brake (for 25 km/h and 6000 kg allowable total weight)  
 Overrun brake (for 40 km/h and 6000 kg allowable total weight)  
 Parking brake with lever  
 Additional extensions 500 mm reinforced profiles with 70 mm edge  
 12V LED lighting system with rear electric socket  
 Axles with permissible speed 40 km/h with stronger brakes and Tyres  
 Tyres 15.0/55-17  
 Spare wheel (separately) 11.0/80-15.3  
 Spare wheel (separately) 15.0/55-17  
 Warning triangle  
 Rear grain chute  
 Rear manual hitch, fixed  
 Non standard colours according to RAL CALSSIC codes

**T655**

Loading case with universal system of sidewalls opening  
 Central locking system  
 Tipping frame: triangular made of open profiles  
 Drawbar: lower transportation hitch with Ø50 fixed towing eye  
 Drawbar support: supporting wheel  
 Braking system: single line pneumatic or double line pneumatic or hydraulic  
 Parking brake with crank  
 12V lighting system with rear electric socket  
 Tipping system with cut-off valve  
 Three side tipping system  
 Sidewalls made of PRONAR profiles 400 mm  
 Double-component chemically hardened painting materials  
 Wheel chocks and racks  
 Tipping frame painting colour: black RAL9005  
 Side walls painting colour: orange RAL2008  
 Mechanical support of the loading case

Drawbar: fixed to couple with upper hitch of the tractor  
 Drawbar towing hitch: fixed towing eye Ø40  
 Drawbar towing hitch: rotary towing eye Ø50  
 Sidewall extensions made of profile PP 400mm with ladder  
 Overrun braking system  
 Parking brake with lever  
 Chassis frame color red RAL 3000 PRONAR  
 Sidewalls color green RAL 6010 PRONAR  
 Spare wheel (separately) 10.0/75-15.3  
 Warning triangle  
 Excluding braking system: pneumatic  
 Non standard colours according to RAL CALSSIC codes





Wheel chocks with pockets as standard equipment and service support for loading case



T654/2 - Rigid drawbar to connect to the upper hitch of the tractor



Three side tipping system



## STANDARD EQUIPMENT

Loading case with universal system of sidewalls opening  
 Central locking system  
 Tipping frame: triangular made of closed profiles  
 Drawbar: lower transportation hitch with Ø50 fixed towing eye  
 Drawbar towing hitch: rigid with Ø50 towing eye  
 Drawbar support: supporting wheel  
 Braking system: single line pneumatic or double line pneumatic or hydraulic  
 Parking brake with crank  
 12V lighting system with rear electric socket  
 Tipping system with cut-off valve  
 Three side tipping cylinder  
 Side walls and extensions made of PRONAR profiles 500mm with rim 70mm with forged hinges and locks  
 Three side tipping cylinder  
 Sidewalls fastening string  
 Grain hatch with a lever in a rear wall  
 Wheel chocks and racks  
 Double-component chemically hardened painting materials  
 A ladder and side steps facilitating access to the loading case  
 Tipping frame painting colour: red RAL3000 PRONAR  
 Side walls painting colour: green RAL6010 PRONAR  
 Mechanical support of the loading case

## ADDITIONAL EQUIPMENT (OPTIONAL)

### T671

Excluding PF 500mm side extensions  
 Drawbar towing hitch: rigid to couple with upper hitch of the tractor  
 Drawbar towing hitch: fixed towing eye Ø40  
 Drawbar towing hitch: rotary towing eye Ø50  
 Overrun braking system (technical max. Speed 25 kph, along with max permissible total weight 6800)  
 Braking system: hydraulic with mechanical safety valve  
 Axles for 40km/h \*  
 Parking brake with lever  
 Rear manual hitch, fixed  
 Rear connections to a second trailer  
 Laced canvas cover with frame  
 Rolled canvas cover  
 Grain chute  
 Tyres 400/60-15.5 Flotation+  
 Tyres 15.0/70 - 18 (used for 40km/h)  
 Spare wheel (separately) 400/60-15.5  
 Spare wheel (separately) 400/60-15.5 Flotation+  
 Spare wheel (separately) 15.0/70 - 18  
 Warning triangle  
 Auger for unloading grain with efficiency of 30 t/h \*\*  
 Rear grain chute across width of the trailer  
 Shock absorber for falling potatoes - two sets of rubber belts, 1,8m of length each, mounted on the sidewall extensions (side extensions necessary)  
 Non standard colours according to RAL CALSSIC codes

\* Permissible total weight 6000kg, axle with reinforced brakes, wheels 15.0/70 - 18, Braking system- double line pneumatic

\*\* mounted on the rear wall, two-segmented, folded, with mechanical winch, auger driven hydraulically, oil requirement 30L/min



PRONAR Trailer T654/2



# DOUBLE AXLE TRAILERS

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**PRONAR** **36** MIESIĘCY GWARANCJI\*

\* Szczegóły u Autoryzowanych Dealerów i przedstawicieli handlowych Pronar oraz na stronie pronar.pl



DOUBLE AXLE TRAILERS  
**PRONAR T653, T653/1, T653/2**



**PRONAR T653** is a double axle agriculture trailer with 4000kg load capacity and three side tipping. This type has been developed and manufactured over the years. It has strong and reliable construction with three side tipping system which allows to unload the cargo in preferred direction.

**PRONAR T653/1** is a double axle agriculture trailer with 5000kg load capacity and three side tipping. It also the model with durable construction, developed and modernized over the year.

Double axle trailer **T653/2** is ideally suited for transporting agricultural materials and municipal waste. Durable sidewall profiles and floor plate made of thick steel provide easy transport of both agricultural products and waste materials. Trailer standard equipment includes in a connections to a second trailer with output for hydraulic and pneumatic; as well the manual hitch which makes it easy to aggregate another/second trailer. Rear mudguards and wheel chocks ensure safe and comfortable usage. The standard window in the rear wall allows to add the mechanism for unloading the grain. Additional equipment allow the trailer to fit your needs, thus providing the opportunity to choose the optimal version of the trailer at the best price.



**PRONAR T653**



**PRONAR T653/1**



**PRONAR T653/2**

Tarpaulin with frame



Grain chute with lock for precise unloading



1000 mm mesh sides





Loading case with universal system of sidewall opening and trapezoid shape of the loading box ( rear 50 mm wider than front)



The chassis frame and the upper frame with a floor of high-strength



Wheel chocks+ racks

#### TECHNICAL DATA OF STANDARD EQUIPMENT

	T653	T653/1*	T653/2*
Permissible total weight [kg]	5950	7105	8120
Load capacity [kg]	4000	5000	6000
Empty weight [kg]	1950	2105	2120
Load volume [m <sup>3</sup> ]	4,1	8,2	8,2
Loading space [m <sup>2</sup> ]	8,2	8,2	8,2
Loading case inside length [mm]	4010	4010	4010
Loading case inside width [mm]	trapezoid 2010/2060	trapezoid 2010/2060	trapezoid 2010/2060
Dimensions length/width/height [mm]	6140/2230/1585	6140/2230/2130	6140/2230/2170
Sidewall height [mm]	500	500+500 (option)	500+500 (option)
Floor/wall thickness [mm]	3/2	4/2	4/2
Platform height, measured from the ground [mm]	1070	1120	1120
Wheel track [mm]	1600	1600	1600
Suspension	parabolic springs	parabolic springs	parabolic springs
Tyres	10,0/75-15,3	11,5/80-15,3	11,5/80-15,3
Maximum speed [km/h]	30	30	30
Tipping system	3-side	3-side	3-side
Telescopic cylinder (piston stroke/oil requirement/working pressure)	1300 mm/8L/160bar	1300 mm/8L/160bar	1300 mm/8L/160bar
Minimum tractor power requirement [hp/kW]	36,4/26,7	41,6/30,6	46,8/34,4
Tipping angle (backwards/sides) [°]	42/46	42/46	42/46

\*Technical data for trailer with 500mm+500mm sidewalls



PRONAR Trailer T653/2

# DOUBLE AXLE TRAILERS

## PRONAR T653, T653/1, T653/2



### STANDARD EQUIPMENT

### ADDITIONAL EQUIPMENT (OPTIONAL)

#### T653

Loading case with universal system of sidewalls opening  
 Conical shape of loading case (50 mm wider at the back)  
 Central locking system  
 Drawbar: V type with Ø40 fixed towing eye  
 Rotating turntable  
 Braking system: single line pneumatic or double line pneumatic or hydraulic  
 Parking brake with crank  
 Rear lights with protection cover  
 12V lighting system with rear electric socket  
 Coiled connecting cable for the lighting installation  
 Rear manual hitch, rigid  
 Rear connections to a second trailer  
 Tipping system with cut-off valve  
 Three side tipping cylinder  
 Side walls made of PRONAR profiles 500mm with rim 70mm with forged hinges and locks  
 Grain hatch with a lever in a rear wall  
 Double-component chemically hardened painting materials  
 Wheel chocks and racks  
 Tipping frame painting colour: red RAL3000 PRONAR  
 Side walls painting colour: green RAL6010 PRONAR  
 Mechanical support of the loading case  
 Sidewalls fastening string  
 Rear mudguards  
 Ladder and side steps facilitating access to the loading case

Drawbar V type: fixed with Ø50 towing eye  
 Drawbar Y type: fixed with Ø40 towing eye  
 Parking brake with lever  
 Laced canvas cover with frame  
 Rear grain chute  
 Spare wheel support  
 Tyres 11.5/80-15.3  
 Sidewall extensions 1000 mm made of wire netting Ø8  
 Sidewall extensions 1000 mm made of wire netting Ø30  
 Spare wheel (separately) 10.0/75-15.3  
 Spare wheel (separately) 11.5/80-15.3  
 Warning triangle  
 Set of wall supports to maintain the walls in a partially open position for bale transportation\*  
 Shock absorber for falling potatoes - two sets of rubber belts, 1,8m of length each, mounted on the sidewall extensions (side extensions necessary)  
 Rear grain chute across width of the trailer  
 Non standard colours according to RAL CALSSIC codes  
 \* for agricultural roads only

#### T653/1

Loading case with universal system of sidewalls opening  
 Conical shape of loading case (50 mm wider at the back)  
 Central locking system  
 Drawbar: V type with Ø40 fixed towing eye  
 Rotating turntable  
 Braking system: single line pneumatic or double line pneumatic or hydraulic  
 Parking brake with crank  
 12V lighting system with rear electric socket  
 Coiled connecting cable for the lighting installation  
 Rear lamps with protective grating  
 Rear manual hitch, rigid  
 Rear connections to a second trailer  
 Tipping system with cut-off valve  
 Three side tipping cylinder  
 Side walls made of PRONAR profiles 500mm with rim 70mm with forged hinges and locks  
 Grain hatch with a lever in a rear wall  
 Wheel chocks and racks  
 Double-component chemically hardened painting materials  
 Tipping frame painting colour: red RAL3000 PRONAR  
 Side walls painting colour: green RAL6010 PRONAR  
 Rear mudguards  
 Ladder and side steps facilitating access to the loading case  
 Mechanical support of the loading case

Drawbar V type: fixed with Ø50 towing eye  
 Side wall extensions made of PRONAR profiles 500mm with rim 70mm  
 Drawbar Y type: fixed with Ø40 towing eye  
 Parking brake with lever  
 Laced cover with frame  
 Rolled cover with frame  
 Rear grain chute  
 Spare wheel support  
 Tyres 14.0/65-16  
 Sidewall extensions 1000 mm made of wire netting Ø8  
 Sidewall extensions 1000 mm made of wire netting Ø30  
 Spare wheel (separately) 11.5/80-15.3  
 Spare wheel (separately) 14.0/65-16  
 Operator's platform  
 Warning triangle  
 Auger for unloading grain with efficiency 30 of t/h \*\*  
 Rear grain chute across width of the trailer  
 Set of wall supports to maintain the walls in a partially open position for bale transportation\*\*\*  
 Shock absorber for falling potatoes - two sets of rubber belts, 1,8m of length each, mounted on the sidewall extensions (side extensions necessary)  
 Non standard colours according to RAL CALSSIC codes  
 \*\* mounted on the rear wall, two-segmented, folded, with mechanical winch, auger driven hydraulically, oil requirement 30L/min  
 \*\*\* for agricultural roads only

#### T653/2

Loading box with universal system of sidewalls opening  
 Central locking mechanism  
 Drawbar V type rigid with Ø40 mm towing eye  
 Braking system single line, double line pneumatic or hydraulic  
 Crank handbrake  
 Lighting system 12 V with rear electrical socket  
 Rear manual hitch, rigid  
 Rear coupling for second trailer  
 Tipping system with cut-off valve  
 Three side tipping cylinder  
 Side walls made of PRONAR profiles 500 mm with rim 70 mm  
 Rear grain damper, locked in the rear wall  
 Wheel chocks + racks (2 pcs)  
 Chassis color red RAL 3000 PRONAR  
 Sidewalls color green RAL 6010 PRONAR  
 Rear mudguards  
 Ladder and steps facilitating the access to the loading box  
 Mechanical support of the loading box  
 Conical shape of loading box

Drawbar: V type with Ø50 fixed towing eye  
 Side wall extensions made of PRONAR profiles 500mm with rim 70mm  
 Drawbar: Y type with Ø40 fixed towing eye  
 Overrun braking system  
 Parking brake with lever  
 Laced canvas cover with frame  
 Rolled canvas cover with frame  
 Grain chute  
 Spare wheel hanger\*\*  
 Tyres 14.0/65-16  
 Sidewall extensions 1000 mm made of wire netting Ø8  
 Sidewall extensions 1000 mm made of wire netting Ø30  
 Spare wheel (separately) 11.5/80-15.3  
 Spare wheel (separately) 14.0/65-16  
 Operator's platform  
 Warning triangle  
 Auger for unloading grain with efficiency of 30 t/h \*\*\*  
 Rear grain chute across width of the trailer  
 Set of wall supports to maintain the walls in a partially open position for bale transportation\*\*\*  
 Shock absorber for falling potatoes - two sets of rubber belts, 1,8m of length each, mounted on the sidewall extensions (side extensions necessary)  
 Non standard colours according to RAL CALSSIC codes  
 \*\*not available with operator's platform  
 \*\*\*mounted on the rear wall, two-segmented, folded, with mechanical winch, auger driven hydraulically, oil requirement 30L/min  
 \*\*\*\* for agricultural roads only

Tipping angle (backwards/sides) - 42/46 °

Ladder facilitating access to the loading box





**PRONAR T672** trailer is designed for transporting agricultural products, construction materials, mineral fertilizers and other materials. The trailer can be loaded with 8 tons of material. In standard equipment it has with a three-way tipping system, rear mudguards, rear hitch and manual grain chute in the rear of the trailer. depends on configuratio the trailer may have a pneumatic brake system or hydraulic brake system. Optionally the trailer can be equipped it with a canvas cover, balcony, spare wheel and different sizes of tyres.

**PRONAR T672/1** trailer is designed for transporting agricultural products, construction materials, mineral fertilizers and other materials. The trailer can be loaded with 10 tons of material. In standard equipment it has with a three-way tipping system, rear mudguards, rear hitch and manual grain chute in the rear of the trailer. depends on configuratio the trailer may have a pneumatic brake system or hydraulic brake system. Optionally the trailer can be equipped it with a canvas cover, balcony, spare wheel and different sizes of tyres.

**PRONAR T672/2** trailer is one of the most popular two-axle trailer with an average load capacity. Extra side walls increase the load capacity of the trailer so with capacity of 11 tons (own weight only 3.6 tonnes) it is a perfect solution for farmers who have larger farms. Opening sides and three way tipping allows easy unloading. Minimal tractor power requirement to aggregate with T672/2 is approx. 70hp.

T672eco is one of the models of T672 range. It is equipped with the overrun braking system. Spacing of the tipping system is enlarged in order to minimize the risk of clashing the upper frame with the tyres. At the same time it makes it possible to use wider tyres. T672eco trailer is also equipped with the central sidewalls locking system. The sidewalls are made of wear resistant, laser welded profiles.

**PRONAR T672**



**PRONAR T672 eco**



**PRONAR T672/1**



**PRONAR T672/2**



Braking system double line pneumatic with manual speed force controller



Three side tipping system with cradle



Manual, suspended rear hitch



# DOUBLE AXLE TRAILERS

## PRONAR T672, T672 eco, T672/1, T672/2



TECHNICAL DATA OF STANDARD EQUIPMENT	T672*	T672 eco*	T672/1**	T672/2**
Permissible total weight [kg]	10990	8000	13160	14000
Load capacity [kg]	8000	5720	10000	10400
Empty weight [kg]	2990	2280	3160	3600
Load volume [m <sup>3</sup> ]	9,8	4,9	11,8	11,8
Loading space [m <sup>2</sup> ]	9,8	9,8	9,8	9,8
Loading box inside length [mm]	4440	4440	4440	4440
Loading box inside width [mm]	trapezoid 2190/2240	2190/2240	trapezoid 2190/2240	trapezoid 2190/2240
Dimensions length/width/height [mm]	6455/2390/2243	6590/2390/2160	6455/2390/2500	6455/2390/2580
Sidewall height [mm]	500+500 (option)	500+500	600+600 (option)	600+600 (option)
Floor/wall thickness [mm]	4/2	4/2	5/2,5	5/2,5
Platform height, measured from the ground [mm]	1215	1130	1320	1345
Wheel track [mm]	1730	1730	1700	1700
Suspension	parabolic springs	parabolic springs	parabolic springs	parabolic springs
Tyres	400/60-15,5	11,5/80-15,3	15,0/70-18	385/65 R22,5 RE
Maximum speed [km/h]	40	40	30	40
Tipping system	3-side	3-side	3-side	3-side
Telescopic cylinder (piston stroke/oil requirement/working pressure)	1700 mm/13L/200bar	1700mm/13L/200bar	1700 mm/13L/200bar	1700 mm/13L/200br
Minimum tractor power requirement [hp/kW]	62,4/45,8	46,8/34,4	72,8/53,5	78/57,3
Tipping angle (backwards/sides) [°]	50/46	50/46	50/46	50/46

\* technical data for side walls and extensions 500+500mm

\*\* technical data for side walls and extensions 600+600mm



PRONAR Trailer T672/2, T672/1

Three side tipping system



Drawbar: Y type with overrun braking system



T672 eco - Plastic mudguards - rear mudguards and rear lamps with protective grating





## STANDARD EQUIPMENT

## ADDITIONAL EQUIPMENT (OPTIONAL)

### T672

Loading case with universal system of sidewalls opening  
 Central locking system  
 Chassis frame - rectangular  
 Conical shape of loading case (50 mm wider at the back)  
 Drawbar: V type with Ø40 fixed towing eye  
 Rotating turntable  
 Braking system: single line pneumatic or double line pneumatic or hydraulic  
 Parking brake with crank  
 12V lighting system with rear electric socket  
 Coiled connecting cable for the lighting installation  
 Rear lamps with protective grating  
 Rear manual hitch  
 Rear connections to a second trailer  
 Tipping system with cut-off valve  
 Side walls made of PRONAR profiles 500mm with rim 70mm with forged hinges and locks  
 Sidewalls fastening string  
 Grain hatch with a lever in a rear wall  
 Double-component chemically hardened painting materials  
 Wheel chocks and racks  
 Tipping frame painting colour: red RAL3000 PRONAR  
 Side walls painting colour: green RAL6010 PRONAR  
 Rear mudguards  
 Ladder and side steps facilitating access to the loading case  
 Mechanical support of the loading case

Drawbar: V type with Ø50 fixed towing eye  
 Drawbar: Y type with Ø40 fixed towing eye  
 Braking system: double line pneumatic with ALB (automatic braking force control)  
 Rolled canvas cover with frame and foldable central pipe  
 Operator's platform  
 Rear grain chute  
 Spare wheel hanger on the wall \*\*  
 Spare wheel hanger on the drawbar  
 Tyres 12.5/80-18 (with under-axle spacers needed)  
 Tyres 15.0/70-18 (with under-axle spacers needed)  
 Under-axle spacers for a set of optional tyres  
 Side walls extensions made of PRONAR profiles 500mm with rim 70mm  
 Middle sidewall extension made of PRONAR profile 500mm  
 Sidewall extensions 1000 mm made of wire netting 30mm  
 Sidewall extensions 1000 mm made of wire netting 8mm  
 Springs supporting of opening side walls  
 Rear automatic hitch UNIMAR  
 Rear automatic hitch RO'400A4600  
 Spare wheel (separately) 400/60-15.5  
 Spare wheel (separately) 12.5/80-18  
 Spare wheel (separately) 15.0/70-18 16PR  
 Warning triangle  
 Auger for unloading grain with efficiency 30 of t/h \*\*\*  
 Water tank (30L) with soap dispenser  
 Rear grain chute across width of the trailer  
 Side underrun protection  
 Additional plastic mudguards at the front wheels  
 Additional plastic mudguards at the rear wheels  
 Set of wall supports to maintain the walls in a partially open position for bale transportation\*\*\*\*  
 Shock absorber for falling potatoes - two sets of rubber belts, 1,8m of length each, mounted on the sidewall extensions (side extensions necessary)  
 Non standard colours according to RAL CALSSIC codes

### T672 eco

Loading case with universal system of sidewalls opening  
 Tipping system with cut-off valve  
 Three side tipping system  
 Conical shape of loading case  
 Central locking system  
 Side walls made of PRONAR profiles 500mm with rim 70mm with forged hinges and locks  
 Grain hatch with a lever in a rear wall  
 Ladder and side steps facilitating access to the loading case  
 Chassis frame - rectangular  
 Drawbar: Y type with Ø40 fixed towing eye Rotating turntable Drum brakes ø300x90mm  
 Braking system: double line pneumatic with ALB (automatic braking force control)  
 Postojowy hamulec ręczny z korbą  
 Parking brake with crank  
 12V lighting system with rear electric socket Rear lamps with protective grating  
 Coiled connecting cable for the lighting installation  
 Three side tipping cylinder  
 Mechanical support of the loading case  
 Wheel chocks and racks  
 Rear plastic mudguards  
 Rear bumper  
 Double-component chemically hardened painting materials  
 Tipping frame painting colour: red RAL3000 PRONAR  
 Side walls painting colour: green RAL6010 PRONAR

Side walls extensions made of PRONAR profiles 500mm  
 Drawbar: Y type with Ø40 fixed towing eye  
 Overrun braking system ( Speed 40km/h; allowable total weight: 8000kg)  
 Braking system: double line pneumatic with ALB (automatic braking force control)  
 Braking system: „Premium” double line pneumatic with ALB (automatic braking force control)  
 Rolled canvas cover with frame and foldable central pipe  
 Operator's platform  
 Window in the front side wall extension (340x710) with grating and PLEX  
 Auger for unloading grain with efficiency of 30 t/h  
 Rear grain chute  
 Rear grain chute across width of the trailer  
 Spare wheel hanger on the wall  
 Tyres: 14,0/65-16; 400/60-15,5; 355/60R18  
 Spare wheel  
 Shock absorber for falling potatoes - two sets of rubber belts, 1,8m of length each, mounted on the sidewall extensions (side extensions necessary)  
 Set of wall supports to maintain the walls in a partially open position for bale transportation  
 Sidewall extensions 1000 mm made of wire netting 30mm  
 Sidewall extensions 1000 mm made of wire netting 8mm  
 Springs supporting of opening side walls  
 Rear manual hitch: V. Orlandi  
 Rear automatic hitch V. Orlandi  
 Additional plastic mudguards at the front wheels  
 Additional plastic mudguards at the rear wheels  
 Warning triangle  
 Non standard colours according to RAL CALSSIC codes

\*\*not available with operator's platform

\*\*\*mounted on the rear wall, two-segmented, folded, with mechanical winch, auger driven hydraulically, oil requirement 30L/min

\*\*\*\* for agricultural roads only



PRONAR Trailer T672/2 eco

## STANDARD EQUIPMENT

## ADDITIONAL EQUIPMENT (OPTIONAL)

### T672/1

Loading case with universal system of sidewalls opening  
 Central locking system  
 Conical shape of loading case (50 mm wider at the back)  
 Drawbar: V type with Ø40 fixed towing eye  
 Rotating turntable  
 Braking system: single line pneumatic or double line pneumatic or hydraulic  
 Parking brake with crank  
 12V lighting system with rear electric socket  
 Coiled connecting cable for the lighting installation  
 Rear lamps with protective grating  
 Rear manual hitch, amortized  
 Rear connections to a second trailer  
 Tipping system with cut-off valve  
 Three side tipping cylinder  
 Side walls made of PRONAR profiles 600mm with rim 70mm with forged hinges and locks  
 Sidewalls fastening string  
 Grain hatch with a lever in a rear wall  
 Wheel chocks and racks  
 Tipping frame painting colour: red RAL3000 PRONAR  
 Side walls painting colour: green RAL6010 PRONAR  
 Double-component chemically hardened painting materials  
 Rear mudguards  
 Ladder and side steps facilitating access to the loading case  
 Rear lamps with protective grating  
 Mechanical support of the loading case

Drawbar: V type with Ø50 fixed towing eye  
 Drawbar: Y type with Ø40 fixed towing eye  
 Braking system: double line pneumatic with ALB (automatic braking force control)  
 Rolled canvas cover with frame and foldable central pipe  
 Operator's platform for maintaining the canvas  
 Sidewalls extension made of profile PF 600mm with rim 70mm  
 Middle sidewall extension made of PRONAR profile 600mm  
 Sidewall extensions 1000 mm made of wire netting 30mm  
 Sidewall extensions 1000 mm made of wire netting 8mm  
 Rear grain chute  
 Spare wheel hanger on the wall \*\*  
 Spare wheel hanger on the drawbar  
 Tyres 385/55 R22.5  
 Tyres 385/55 R22.5 RE  
 Tyres 500/50 - 17  
 Springs supporting of opening side walls  
 Rear automatic hitch UNIMAR  
 Rear automatic hitch RO'400A4600  
 Spare wheel (separately) 15,0/70-18 16PR  
 Spare wheel (separately) 385/55 R22.5  
 Spare wheel (separately) 385/55 R22.5 RE  
 Spare wheel (separately) 500/50 -17  
 Warning triangle  
 Auger for unloading grain with efficiency of 30 t/h \*\*\*  
 Spare wheel winch under trailer's frame, with crank  
 Rear grain chute across width of the trailer  
 Window in the front side wall extension (340x710) with grating and PLEXI  
 Window in the front extension and in the front of the middle side wall extension (340x710) with grating and PLEXI  
 Additional plastic mudguards at the front wheels  
 Additional plastic mudguards at the rear wheels  
 Set of wall supports to maintain the walls in a partially open position for bale transportation\*\*\*  
 Side underrun protection  
 Shock absorber for falling potatoes - two sets of rubber belts, 1.8m of length each, mounted on the sidewall extensions (side extensions necessary)  
 Non standard colours according to RAL CALSSIC codes

### T672/2

Loading case with universal system of sidewalls opening  
 Central locking system  
 Conical shape of loading case (50 mm wider at the back)  
 Drawbar: V type with Ø40 fixed towing eye  
 Rotating turntable  
 Braking system: single line pneumatic or double line pneumatic or hydraulic  
 Axles 60 km/h  
 Parking brake with crank  
 12V lighting system with rear electric socket  
 Coiled connecting cable for the lighting installation  
 Rear lamps with protective grating  
 Rear manual hitch  
 Rear connections to a second trailer  
 Tipping system with cut-off valve  
 Three side tipping cylinder  
 Side walls made of PRONAR profiles 600mm with rim 70mm with forged hinges and locks  
 Sidewalls fastening string  
 Grain hatch with a lever in a rear wall  
 Wheel chocks and racks  
 Tipping frame painting colour: red RAL3000 PRONAR  
 Side walls painting colour: green RAL6010 PRONAR  
 Rear mudguards  
 Double-component chemically hardened painting materials  
 Ladder and side steps facilitating access to the loading case  
 Rear lamps with protective grating  
 Mechanical support of the loading case

Drawbar: V type with Ø50 fixed towing eye  
 Drawbar: Y type with Ø40 fixed towing eye  
 Braking system: double line pneumatic with ALB (automatic braking force control)  
 Operator's platform  
 Sidewalls extension made of profile PF 600mm with rim 70mm  
 Middle sidewall extension made of PRONAR profile 600mm  
 Sidewall extensions 1000 mm made of wire netting 30mm  
 Sidewall extensions 1000 mm made of wire netting 8mm  
 Rear grain chute  
 Tyres 385/65 R22.5  
 Tyres 425/65 R22.5  
 Springs facilitating opening side walls  
 Rear automatic hitch UNIMAR  
 Rear automatic hitch RO'400A4600  
 Spare wheel (separately) 385/65 R22.5 (15 R22.5) RE  
 Spare wheel (separately) 385/65 R22.5 (15 R22.5)  
 Spare wheel (separately) 425/65 R22.5  
 Warning triangle  
 Auger for unloading grain with efficiency 30 t/h \*\*  
 Rear grain chute across width of the trailer  
 Window in the front side wall extension (340x710) with grating and PLEXI  
 Window in the front extension and in the front of the middle side wall extension (340x710) with grating and PLEXI  
 Rolled canvas cover with frame and foldable central pipe  
 Additional plastic mudguards at the front wheels  
 Additional plastic mudguards at the rear wheels  
 Shock absorber for falling potatoes - two sets of rubber belts, 1.8m of length each, mounted on the sidewall extensions (side extensions necessary)  
 Non standard colours according to RAL CALSSIC codes

Tandem suspension with 4 parabolic springs with 1325 mm wheelbase with fixed axles equipped in drum brakes 406x120



Tarpaulin with frame. Operator's platform to handle tarpaulin





**PRONAR PT606** Trailer was constructed to meet the customer's high demands. It is multipurpose and durable. Perfect for both agriculture and municipal use. The universality of the **PRONAR PT606** trailer is due to inner width of the loading case (2.42 m), which allows to transport bulk materials and typical loading euro pallets. Trailer chassis design of the **PRONAR PT606** is based on close sections profiles, which, unlike open profiles are much more durable.

**PT608** pallet trailer is a trailer which can fit euro pallets. Tipping system is used to easily transport the boxes from the plantation to the storage, transfer site and transport bales of 1.2m width. Box shape of the loading case makes it excellent for transportation of bulk materials and many other products. The company **PRONAR PT608** during the process of manufacturing uses advanced profiling technology and laser welding of the metal that guarantees precision and accuracy of production. **PT608** is a trailer with a total weight 11 600kg with a mechanism of trilateral tipping. In the trailer the user can fit 10 euro pallets. Design trailer speed is 40km/h. The standard trailer is well equipped, with pneumatic, hydraulic and electrical system outputs as well as many more. The buyer has many options available to choose from.

**PT610** pallet trailer is a trailer which can fit euro pallets. Tipping system is used to easily transport the boxes from the plantation to the storage, transfer site and transport bales of 1.2m width. Box shape of the loading case makes it excellent for transportation of bulk materials and many other products. The company **PRONAR PT608** during the manufacturing process uses advanced profiling technology and laser welding of the metal that guarantees precision and accuracy of production. **PT610** is a trailer with a total weight 14 200 kg with a mechanism of trilateral tipping. In the trailer the user can fit 10 euro pallets. Design trailer speed is 40km/h. The standard trailer is well equipped, with pneumatic, hydraulic and electrical system outputs as well as many more. The buyer has many options available to choose from.

Trailer **PT612** cargo box was made with strong and durable flooring panels, profiled sidewalls are locked central. The trailer is equipped with a tree side tipping system. The damper in the rear sidewalls allows easy unloading of raw materials, agricultural materials or construction materials (eg. Sand). The distance between the platform and the ground (between 1142 mm and 1270 mm), make the loading easier. The construction of the chassis frame is based on hollow sections, which gives the construction durability. Design trailer speed is 40km/h, with pneumatic or hydraulic brakes. The suspension, axles, leaf springs and special lighting has been designed to meet the requirements of higher speeds. For the production of the trailer high-quality materials are used, such as modern two-component coatings. Transport using a two-axle trailer is popular both in agriculture and in the municipal services.

PT612L trailer is longer than PT612. The load capacity is 12t. That model is characterized by enlarged loading case and spacing of the tipping system. Central sidewalls locking system makes it possible to apply side grain chutes, so the unloading can be made outside the wheels area.

**PRONAR PT606**



**PRONAR PT608**



**PRONAR PT610**



**PRONAR PT612**



**PRONAR PT612L**



Loading box with reinforced floor suitable for euro pallet transport Parabolic springs

Three side tipping system of loading box



TECHNICAL DATA OF STANDARD EQUIPMENT	PT606*	PT608*	PT610**	PT612***	PT612L****
Permissible total weight [kg]	8900	11600	14200	16300	16800
Load capacity [kg]	6000	8460	10290	12000	12000
Empty weight [kg]	2900	3140	3910	4200	4500
Load volume [m <sup>3</sup> ]	10,1	11	13,2	15,4	15,4
Loading space [m <sup>2</sup> ]	10,1	11	11	11	12,8
Loading box inside length [mm]	4190	4545	4545	4545	5300
Loading box inside width [mm]	2420**	2420**	2420**	2420**	2420
Sidewall height [mm]	500+500 (option)	500+500 (option)	600+600 (option)	600+800 (option)	600+600
Dimensions length/width/height [mm]	6390/2550/2200	6720/2550/2300	6720/2550/2520	6720/2550/2720	7420/2550/2450
Floor/wall thickness [mm]	4/2	4/2	5/2,5	5/2,5	4/2,5
Platform height, measured from the ground [mm]	1160	1220	1270	1270	1210
Wheel track [mm]	1900	1900	1900	1900	1960
Suspension	parabolic springs	parabolic springs	parabolic springs	parabolic springs	Resory paraboliczne
Tyres	14.0/65-16	14.0/65-16	385/65 R22,5 RE	385/65 R22,5 RE	445/45R19,5
Maximum speed [km/h]	40	40	40	40	40
Tipping system	3-side	3-side	3-side	3-side	trójstronny
Telescopic cylinder (piston stroke/oil requirement/working pressure)	1540 mm/8L/200bar	1700 mm/13L/200bar	1700 mm/13L/200bar	1980 mm/18L/200bar	1980mm/18L/200bar
Minimum tractor power requirement [hp/kW]	46,8/34,4	62,4/45,8	78/57,3	89/65,7	89/65,7
Tipping angle (backwards/sides) [°]	50/46	50/46	50/46	50/46	50/46

\* technical data for side walls and extensions 500+500mm

\*\* technical data for side walls and extensions 600+600mm

\*\*\* technical data for side walls and extensions 600+800mm

\*\*\*\* width of the loading case suitable for EUROPALET transport



PRONAR Trailer PT608

Braking system double line pneumatic with manual braking force controller



Ladder, operator's platform, rolled tarpaulin



Reinforced sidewalls





## STANDARD EQUIPMENT

## ADDITIONAL EQUIPMENT (OPTIONAL)

	PT606
<p>Loading case with universal system of sidewalls opening Reinforced floor pan with walls central locking system Drawbar V type: rigid with Ø40 towing eye Rotating turntable Braking system: single line pneumatic or double line pneumatic or hydraulic Parking brake with crank 12 V lighting system with rear electric socket Rear lamps with protective grating Coiled connecting cable for the lighting installation Rear manual hitch Rear connections to second trailer Tipping system with cut-off valve Three side tipping cylinder Side walls made of PRONAR profiles 500mm with rim 60mm with forged hinges and locks Rear mudguards Wheel chocks + racks (2 pcs) Ladder and steps facilitating the access to the Loading case Tension slat of the sidewalls Chassis color red RAL3000 PRONAR Double-component chemically hardened painting materials, UV-resistant Sidewalls color orange RAL 2008 PRONAR Loading case adapted to transport europallets Mechanical support of the loading case Rear grain hatch with a lever in a rear wall</p>	<p>Drawbar V type: fixed with Ø50 towing eye Drawbar Y type: fixed with Ø40 towing eye Braking system: double line pneumatic with ALB (automatic braking force control) Overrun braking system Tension bars along the sidewalls extensions (2pcs.) Laced canvas cover with frame Rolled canvas cover with frame with demountable central pipe and lateral supporting pipes Sidewalls extensions made of PRONAR profiles 500mm with rim 60mm Rear grain chute Operator's platform Rear manual, hitch with shock absorption Rear manual hitch MH31-3 V. Orlandi Rear automatic hitch IH31-3 V. Orlandi Tyres 400/60-15,5 Water tank (30L) with soap dispenser Toolbox (-50L) Front mudguards Spare wheel hanger on the sidewall *** Spare wheel hanger winch Spare wheel (separately) 14.0/65-16 Spare wheel (separately) 400/60 - 15.5 Warning triangle Auger for unloading grain with efficiency 30 t/h **** The chute along the entire width of the trailer Set of wall supports to maintain the walls in a partially open position for bale transportation***** Shock absorber for falling potatoes - two sets of rubber belts, 1,8m of length each, mounted on the sidewall extensions (side extensions necessary) Non standard colours according to RAL CALSSIC codes *** not allowed with operator's platform **** mounted on the rear wall, two-segmented, folded, with mechanical winch, auger driven hydraulically, oil requirement 30L/min ***** for agricultural roads only</p>
	PT608
<p>Loading case with universal system of sidewalls opening Reinforced floor pan with walls central locking system Chassis frame made of rectangular closed profiles Drawbar V type: rigid with Ø40 towing eye Rotating turntable Braking system: single line pneumatic or double line pneumatic or hydraulic Parking brake with crank 12 V lighting system with rear electric socket Rear lamps with protective grating Coiled connecting cable lighting system Rear manual hitch, amortized Rear coupling for second trailer Tipping system with cut-off valve Three side tipping cylinder Side walls made of PRONAR profiles 500mm with rim 60mm with forged hinges and locks Rear mudguards Rear grain hatch with a lever in a rear wall Wheel chocks + racks (2 pcs) Ladder and steps facilitating the access to the Loading case Tension slat of the sidewalls Chassis color red RAL3000 PRONAR Sidewalls color green RAL6010 PRONAR Double-component chemically hardened painting materials, UV-resistant Rear lamps with protective grating Loading case adapted to transport europallets Mechanical support of the Loading case</p>	<p>Drawbar V type: fixed with Ø50 towing eye Drawbar Y type: fixed with Ø40 towing eye Drawbar V type: L-2100 with Ø40 towing eye Drawbar Y type: L-2100 with Ø40 towing eye Braking system: double line pneumatic with ALB (automatic braking force control) Rolled canvas cover with frame with demountable central pipe and lateral supporting pipes Operator's platform Sidewalls extension made of profile PF 500mm with rim 60mm Middle sidewall extension made of profile PF 500mm Rear grain chute Springs supporting opening of the sidewalls Rear automatic hitch UNIMAR Rear automatic hitch RO 400A4600 Tension slat of the sidewall extensions 2pcs. Tyres 12.5/80-18 Tyres 15.0/70-18 Tyres 385/55 R22.5 Tyres 385/55 R22.5 RE Spare wheel (separately) 14.0/65-16 Spare wheel (separately) 12.5/80-18 Spare wheel (separately) 15.0/70-18 Spare wheel (separately) 385/55 R22.5 Spare wheel (separately) 385/55 R22.5 RE Front mudguards Additional rear plastic mudguards Tool box Side underrun protections Warning triangle Auger for unloading grain with efficiency of 30 t/h *** Crank operated spare wheel winch situated under the frame of the trailer Rear grain chute across width of the trailer Foldable left or right chute along the entire length of the loading case Foldable left and right chute along the entire length of the loading case Set of wall supports to maintain the walls in a partially open position for bale transportation** Shock absorber for falling potatoes - two sets of rubber belts, 1,8m of length each, mounted on the sidewall extensions (side extensions necessary) Non standard colours according to RAL CALSSIC codes *** mounted on the rear wall, two-segmented, folded, with mechanical winch, auger driven hydraulically, oil requirement 30L/min **** for agricultural roads only</p>



PRONAR Trailer PT612



Three side tipping system



Parabolic spring suspension with steel buffer



V or Y type drawbar with 40 towing eye



Chassis frame made of rectangular closed profiles of high strength steel

## STANDARD EQUIPMENT

## ADDITIONAL EQUIPMENT (OPTIONAL)

### PT610

Loading case with universal system of sidewalls opening  
 Reinforced floor pan with walls central locking system  
 Chassis frame made of rectangular closed profiles  
 Drawbar V type: rigid with 40 towing eye  
 Braking system: single line pneumatic or double line pneumatic or hydraulic  
 Axles 60 km/h\*  
 Rotating turnable  
 Parking brake with crank  
 12 V lighting system with rear electric socket  
 Rear lamps with protective grating  
 Coiled connecting cable lighting system  
 Rear manual hitch, amortized  
 Rear connections to a second trailer  
 Tipping system with cut-off valve  
 Three side tipping cylinder  
 Double-component chemically hardened painting materials, UV-resistant  
 Side walls made of PRONAR profiles 600mm with rim 70mm  
 Rear mudguards  
 Rear grain hatch with a lever in a rear wall  
 Wheel chocks + racks (2 pcs)  
 Ladder and steps facilitating the access to the Loading case  
 Double-component chemically hardened painting materials, UV-resistant  
 Tension bar of the sidewalls  
 Chassis color red RAL 3000 PRONAR  
 Sidewalls color green RAL 6010 PRONAR  
 Mechanical support of the Loading case  
 Loading case adapted to transport europallets  
 \*Permissible total weight: 14000kg

Drawbar V type: fixed with 50 towing eye  
 Drawbar Y type: fixed with 40 towing eye  
 Braking system: double line pneumatic with ALB (automatic braking force control)  
 Operator's platform  
 Sidewalls extension made of profile PF 600mm with rim 60mm (with tension bar of the extension)  
 Middle sidewall extension made of profile PF 600mm  
 Rear grain chute  
 Tyres 385/55 R22.5  
 Tyres 385/55 R22.5 RE  
 Tyres 385/65 R22.5  
 Rear automatic hitch UNIMAR  
 Rear automatic hitch RO 400A4600  
 Spare wheel (separately) 385/55 R22.5 RE  
 Spare wheel (separately) 385/55 R22.5  
 Spare wheel (separately) 385/65 R22.5 RE  
 Spare wheel (separately) 385/65 R22.5  
 Front mudguards  
 Additional rear plastic mudguards  
 Tool box  
 Side underrun protections  
 Springs facilitating opening the sides  
 Warning triangle  
 Auger for unloading grain with efficiency 30 t/h \*\*\*  
 Crank operated spare wheel winch under the frame of the trailer  
 Rear grain chute across width of the trailer  
 Foldable left or right chute along the entire length of the loading case  
 Foldable left + right chute along the entire length of the loading case  
 Rolled canvas cover with frame with demountable central pipe and lateral supporting pipes  
 Window at the front side wall extension (340x710) with grating and PLEXI  
 Window at the front extension and in the front of the middle side wall extension (340x710) with grating and PLEXI  
 Hydraulic support of unlocking side walls on the left or right side  
 Hydraulic unlocking side walls on the left and right side  
 Set of wall supports to maintain the walls in a partially open position for bale transportation\*\*\*\*  
 Two grain hatches with a lever in a rear wall with locking system  
 Three grain hatches with a lever in a rear wall with locking system  
 Shock absorber for falling potatoes - two sets of rubber belts, 1,8m of length each, mounted on the sidewall extensions (side extensions necessary)  
 Non standard colours according to RAL CALSSIC codes  
 \*\*\* mounted on the rear wall, two-segmented, folded, with mechanical winch, auger driven hydraulically, oil requirement 30L/min  
 \*\*\*\* for agricultural roads only

### PT612

Loading case with universal system of sidewalls opening  
 Reinforced floor pan with walls central locking system  
 Chassis frame made of rectangular closed profiles  
 Drawbar V type: rigid with 40 towing eye  
 Rotating Turnable  
 Braking system: single line pneumatic or double line pneumatic or hydraulic  
 Axles 60 km/h  
 Parking brake with crank  
 12 V lighting system with rear electric socket  
 Coiled connecting cable lighting system  
 Rear lamps with protective grating  
 Rear manual hitch, amortized  
 Rear connections to a second trailer  
 Tipping system with cut-off valve  
 Three side tipping cylinder  
 Side walls made of PRONAR profiles 600mm with rim 60mm  
 Rear mudguards  
 Rear grain hatch with a lever in a rear wall  
 Wheel chocks + racks (2 pcs)  
 Ladder and steps facilitating the access to the Loading case  
 Double-component chemically hardened painting materials, UV-resistant  
 Tension bar of the sidewalls  
 Chassis color red RAL 3000 PRONAR  
 Sidewalls color green RAL 6010 PRONAR  
 Loading case adapted to transport europallets

Drawbar: V type with 50 fixed towing eye  
 Drawbar: Y type with 40 fixed towing eye  
 Braking system: double line pneumatic with ALB (automatic braking force control)  
 Operator's platform  
 Sidewalls extension made of profile PF 800mm with rim 60mm (with tension bar of the extension)  
 Sidewall extension made of profile PF 600 mm with rim 60mm (with tension bar of the extension)  
 Middle sidewall extension made of profile PF 600mm  
 Rear grain chute  
 Tyres 385/55 R22.5  
 Tyres 385/55 R22.5 RE  
 Tyres 385/65 R22.5  
 Rear automatic hitch UNIMAR  
 Rear automatic hitch RO 400A4600  
 Spare wheel (separately) 385/55 R22.5 RE  
 Spare wheel (separately) 385/55 R22.5  
 Spare wheel (separately) 385/65 R22.5 RE  
 Spare wheel (separately) 385/65 R22.5  
 Front mudguards  
 Additional rear plastic mudguards  
 Tool box  
 Side underrun protections  
 Springs facilitating opening the sides  
 Warning triangle  
 Auger for unloading grain with efficiency of 30 t/h \*\*\*  
 Crank operated spare wheel winch under the frame of the trailer  
 Rear grain chute across width of the trailer  
 Foldable left or right chute along the entire length of the loading case  
 Foldable left and right chute along the entire length of the loading case  
 Rolled cover with frame with demountable central pipe and lateral supporting pipes  
 Window in the front side wall extension (340x710) with grating and PLEXI  
 Window in the front extension and in the front of the middle side wall extension (340x710) with grating and PLEXI  
 Two grain hatches with a lever in a rear wall with locking system  
 Three grain hatches with a lever in a rear wall with locking system  
 Hydraulic support of unlocking side walls on the left or right side  
 Hydraulic unlocking side walls on the left and right side  
 Set of wall supports to maintain the walls in a partially open position for bale transportation\*\*\*\*  
 Shock absorber for falling potatoes - two sets of rubber belts, 1,8m of length each, mounted on the sidewall extensions (side extensions necessary)  
 Non standard colours according to RAL CALSSIC codes  
 \*\*\* mounted on the rear wall, two-segmented, folded, with mechanical winch, auger driven hydraulically, oil requirement 30L/min  
 \*\*\*\* for agricultural roads only

## STANDARD EQUIPMENT

## ADDITIONAL EQUIPMENT (OPTIONAL)

### PT612L

Loading case with universal system of sidewalls opening  
Tipping system with cut-off valve  
Loading case adapter to transport europallets  
Walls central locking system  
Side walls made of PRONAR profiles 600mm with rim 60mm  
Rear grain hatch with lever in a rear wall  
Ladder and steps facilitating the access to the loading case  
Chassis frame made of rectangular closed profiles  
Drawbar V type: rigid with ø40 towing eye  
Rotating turntable  
Braking system: double line pneumatic  
Parkig brake with crank  
12V lightning system with rear electric socket  
Rear lamps with protective grating  
Coiled connecting cable lightning system  
Rear connctions to a second trailer  
Three side tipping cylinder  
Tension bar of the sidewalls  
Wheel chocks+racks  
Rear mudguards  
Doule-componen chemically hardened painting materials, UV-resistant  
Chassis color red RAL3000 PRONAR

Sidewalls extensions made of profile PF600mm (with tension bar of the extension)  
Middle sidewall extension made of profile PF600mm  
Drawbar: Y type with 40 fixed towing eye  
Drawbar: V type with 50 fixed towing eye  
Braking system: single line pneumatic  
Braking system: hydraulic  
Braking system: double line pneumatic with ALB  
Rolled cover with frame with demountable central pipe and lateral supporting pipes  
Operator's platform  
Window in the front side wall extension (340x710) with grating and PLEXI  
Two grain hatches with a lever in a rear wall with locking system  
Three grain hatches with a lever in a rear wall with locking system  
Rear grain chute  
Rear grain chute across width of the trailer  
Auger for unloading grain with efficiency of 30t/h  
Side underrun protections  
Tool box  
Front mudguards (additional)  
Rear mudguards (additional)  
Springs facilitating opening the sides  
Hydraulic support of unlocking side walls on the left  
Hydraulic support of unlocking side walls on the right  
Hydraulic support of unlocking side walls on the left and on the right  
Document tube  
Tyres: 385/55R22,5; 385/55R22,5\_RE; 385/65R22,5; 385/65R22,5\_RE  
Crank operated spare wheel winch under the frame of the loading case  
Spare wheel  
Shock absorber for falling potatoes- two sets of rubber belts, 1.8 m of length each, mounted on the sidewall extensions (side estensions necessary)  
Set of wall supports to maintain the walls in a partially open position for bale transportation  
Rear automatic hitch  
Warning triangle  
Non standard colours according to RAL CLASSIC codes



Trailer PRONAR PT612L



DOUBLE AXLE TRAILERS  
**PRONAR T680, T680P, T680H**



**PRONAR T680** trailer with the most popular in Poland two axle suspension is excellent for agricultural and municipal transport. Durable sidewall profiles 800 mm high with a series-mounted 600 mm superstructures ensures high tightness, the floor plate made of thick steel provides easy transport for both agricultural products and waste materials with weight less than 14 tons. Thanks to use axles projected to 60 km/h speed, the maximum allowable trailer speed 40 km/h helps you aggregate the trailer with the latest agricultural tractors. Safe and comfortable use of the trailer is ensured by rear wheels fenders, wheel chocks and spare wheel placed in a basket under the trailer. Standard rear grain chute allows to fit grain flange or screw conveyor for easy unloading of grain. Additional equipment allow the trailer to fit your needs, and provide the opportunity to choose the optimal version of the trailer at the best price.

**PRONAR T680P** with total mass of 18t is agricultural trailer designed for transportation of crops and bulk agro products as well as europallets. Three sides tipping allows easy unloading in different places and significantly affect the functionality of the trailer. Tilt – closed sidewall opening system allows convenient loading and unloading. Side walls of loading box in **PRONAR T680P** trailer are made of special and waterproof plywood – durable and lightweight, corrosion resistant material. Seal is mounted in aluminum frame which allows to transport low granulation materials i.e. rapeseed.

**PRONAR T680H** with total mass of 18t is agricultural trailer designed for transportation of crops and bulk agro products as well as europallets. Three sides tipping allows easy unloading in different places and significantly affect the functionality of the trailer. Tilt – closed sidewall opening system allows convenient loading and unloading. Side walls of loading box in **PRONAR T680P** trailer are made of special and waterproof plywood – durable and lightweight, corrosion resistant material. Seal is mounted in aluminum frame which allows to transport low granulation materials like rapeseed.



**PRONAR T680**



**PRONAR T680H**



**PRONAR T680P**

Telescopic cylinder with cradle

Rear automatic Rockinger hitch







Robust wall locking near the floor



Strong rear bumper with LED lights with bars protecting against damage

TECHNICAL DATA OF STANDARD EQUIPMENT	T680	T680P	T680H
Permissible total weight [kg]	18000*	18000*	18000*
Load capacity [kg]	13100**	13160**	12980**
Empty weight [kg]	4900	4840	5020
Load volume [m³]	17,2	19,5	20,3
Loading space [m²]	12,3	12,7	12,1
Loading box inside length [mm]	5100	5250	5020
Loading box inside width [mm]	2410***	2410***	2420***
Dimensions length/width/height [mm]	7300/2550/2800	7300/2550/3250	7300/2550/3070
Sidewall height [mm]	800+600	1540	800+900
Floor/wall thickness [mm]	5/2,5	5/18	5/2,5
Platform height, measured from the ground [mm]	1390	1390	1390
Wheel track [mm]	1900	1900	1900
Suspension	Parabolic springs	Parabolic springs	Parabolic springs
Tyres	385/65 R22,5 RE	385/65 R22,5 RE	385/65 R22,5 RE
Maximum speed [km/h]	40	40	40
Tipping system	3-side	3-side	3-side
Telescopic cylinder (piston stroke/oil requirement/working pressure)	1980 mm/18L/200bar	1980 mm/18L/200bar	1980 mm/18L/200bar
Minimum tractor power requirement [hp/kW]	109,2/80,3	109,2/80,3	109,2/80,3
Tipping angle (backwards/sides) [°]	47/47	47/47	47/47

\* depends on the road regulations in each country

\*\* depends on the road regulations and equipment

\*\*\* width of the loading case suitable for EUROPALET transport



Trailer PRONAR PT680



# DOUBLE AXLE TRAILERS

## PRONAR T680, T680P, T680H



### STANDARD EQUIPMENT

### ADDITIONAL EQUIPMENT (OPTIONAL):

T680	
<p>Loading case with universal walls opening system</p> <p>Reinforced floor pan with central sidewalls locking system</p> <p>Drawbar: V type with Ø40 fixed towing eye</p> <p>Rotating turntable</p> <p>Braking system: single line pneumatic or double line pneumatic or hydraulic</p> <p>Axles for 60 km/h</p> <p>Parking brake with crank</p> <p>Rear connections to a second trailer</p> <p>Tipping system with cut-off valve</p> <p>Telescopic servo-motor of 3-side tipping system</p> <p>PF800 mm+600 mm profile sidewalls</p> <p>Sidewalls fastening string</p> <p>Grain hatch with a lever in a rear wall</p> <p>Wheel chocks and racks</p> <p>Plastic rear mudguards</p> <p>Ladder and side steps facilitating access to the loading case</p> <p>Clearance lights</p> <p>12V LED lighting system with rear electric socket and clearance lights</p> <p>Coiled connecting cable for the lighting installation</p> <p>Rear lamps with protective grating</p> <p>Double-component chemically hardened painting materials</p> <p>Loading case adapted to transport europallets</p> <p>Mechanical support of the loading case</p> <p>Tipping frame painting colour: red RAL3000 PRONAR</p> <p>Side walls painting colour: green RAL6010 PRONAR</p>	<p>Drawbar: V type with Ø50 fixed towing eye</p> <p>Drawbar: Y type with Ø40 fixed towing eye</p> <p>Braking system: double line pneumatic with ALB (automatic braking force control)</p> <p>Braking system: hydraulic with electric safety valve and braking force control</p> <p>Operator's platform</p> <p>Middle sidewalls made of profiles 600mm</p> <p>Sidewalls extensions made of profile PF800 mm instead of 600 mm</p> <p>Front 600mm sidewall extension made of perforated steel with 10mm square holes</p> <p>Front 800mm sidewall extension made of perforated steel with 10mm square holes</p> <p>Non-segmented sidewalls and extensions (with no middle posts)</p> <p>Rear grain chute on the width of the chute</p> <p>Two grain hatches with a lever in a rear wall with locking system</p> <p>Three grain hatches with a lever in a rear wall with locking system</p> <p>Tyres 385/65 R22.5</p> <p>Tyres 425/65 R22.5 (4 wheels)</p> <p>Tyres 550/45 R22.5 (4 wheels)</p> <p>Tyres 500/60 R22.5 (4 wheels)</p> <p>Side underrun protections</p> <p>Rear automatic hitch UNIMAR</p> <p>Rear automatic hitch ROCKINGER 400A4600</p> <p>Spare wheel (separately) 385/65 R22.5 RE</p> <p>Spare wheel (separately) 385/65 R22.5</p> <p>Spare wheel (separately) 425/65 R22.5</p> <p>Spare wheel (separately) 550/45 R22.5</p> <p>Spare wheel (separately) 500/60 R22.5</p> <p>Beam for spare wheel</p> <p>Springs supporting the opening of sidewalls (only - long, not divided)</p> <p>Additional rear plastic mudguards for front wheels</p> <p>Additional front plastic mudguards for rear wheels</p> <p>Warning triangle</p> <p>Auger for unloading grain with efficiency 30 t/h ****</p> <p>Rolled canvas cover with frame and foldable central pipe</p> <p>Rear grain chute across width of the trailer</p> <p>Foldable left or right chute along the entire length of the loading case</p> <p>Foldable left and right chute along the entire length of the loading case</p> <p>Tool box</p> <p>Spare wheel winch under trailer's frame, with crank, only with wheels : 385/65 R22.5 and 425/65R22.5</p> <p>Hydraulic support of unlocking side walls on the left or right side</p> <p>Hydraulic support of unlocking side walls on the left and right side</p> <p>Window in the front side wall extension (340x710) with grating and PLEXI</p> <p>Window in the front extension and in the front of the middle side wall extension (340x710) with grating and PLEXI</p> <p>Set of wall supports to maintain the walls in a partially open position for bale transportation *****</p> <p>Shock absorber for falling potatoes - two sets of rubber belts, 1.8m of length each, mounted on the sidewall extensions (side extensions necessary)</p> <p>Non standard colours according to RAL CLASSIC codes</p> <p>**** mounted on the rear wall, two-segmented, folded, with mechanical winch, auger driven hydraulically, oil requirement 30L/min</p> <p>***** for agricultural roads only</p>

Hydraulic control and locking of the sidewall lift (T680H)



Spare wheel winch under the chassis



Wheel chocks with racks



Sidewall blockade protects against self-closing and damage



Solid axles on parabolic springs





Chute over the entire width of the trailer



Central locking system



Rear grain hatch with a lever in a rear wall

## STANDARD EQUIPMENT

## ADDITIONAL EQUIPMENT (OPTIONAL)

### T680P

Loading case with special walls opening system  
 Reinforced floor pan with central sidewalls locking system  
 Drawbar: V type with Ø40 fixed towing eye  
 Rotating turnable  
 Braking system: single line pneumatic or double line pneumatic or hydraulic  
 Axles for 60 km/h  
 Parking brake with crank  
 Rear connections to a second trailer  
 Tipping system with cut-off valve  
 Telescopic servo-motor of 3-side tipping system  
 Segmented sidewalls with middle posts  
 Right-sidewall height 800+740 mm, swing and collapsible opening system  
 Left-sidewall height 1540 mm, door-like opening system  
 Rear wall height 1540mm, swing and collapsible opening system  
 Beam for spare wheel (only for tyres: 385/65 R22.5 and 425/65 R22.5)  
 Spare wheel 385/65 R22.5 Regenerated  
 Grain hatch with a lever in a rear wall  
 Wheel chocks and racks  
 12V LED lighting system with rear electric socket  
 Coiled connecting cable for the lighting installation  
 Rear lamps with protective grating  
 Plastic rear mudguards  
 Double-component chemically hardened painting materials  
 Ladder and side steps facilitating access to the loading case  
 Loading case adapted to transport europallets  
 Frame for the cover  
 Mechanical support of the loading case  
 Clearance lights  
 Tipping frame painting colour: red RAL3000 PRONAR  
 Spare wheel 385/65 R22.5 Regenerated

Drawbar: V type with Ø50 fixed towing eye  
 Drawbar: Y type with Ø40 fixed towing eye  
 Braking system: double line pneumatic with ALB (automatic braking force control)  
 Rolled canvas cover with frame and foldable central pipe  
 Operator's platform  
 Rear grain chute  
 Rear grain chute (both sides and rear)  
 Tyres 385/65 R22.5 (4 wheels without spare wheel)  
 Tyres 425/65 R22.5 (4 wheels without spare wheel)  
 Tyres 550/45 R22.5 (4 wheels without spare wheel)  
 Tyres 500/45 R22.5 (4 wheels without spare wheel)  
 Side underrun protections  
 Rear automatic hitch UNIMAR  
 Rear automatic hitch ROCKINGER 400A4600  
 Spare wheel 425/65 R22.5 (beam in standard option)  
 Spare wheel (separately) 550/45 R22.5  
 Spare wheel (separately) 500/60 R22.5  
 Spare wheel 385/65 R22.5 for standard beam  
 Without beam for spare wheel  
 Without standard spare wheel 385/65 R22.5 RE  
 Additional front plastic mudguards for rear wheels  
 Additional rear plastic mudguards for front wheels  
 Three grain hatches with a lever in a rear wall with locking system  
 Warning triangle  
 Auger for unloading grain with efficiency 30 t/h\*\*\*\*  
 Removable central pillar  
 Rear grain chute across width of the trailer  
 Spare wheel winch under trailer's frame, with crank, only with wheels: 385/65 R22.5 and 425/65R22.5;  
 Hydraulic support of unlocking side walls on the left or right side  
 Hydraulic support of unlocking side walls on the left and right side  
 Shock absorber for falling potatoes - two sets of rubber belts, 2.3m of length each, mounted on the sidewall extensions (side extensions necessary)  
 Non standard colours according to RAL CALSSIC codes  
 \*\*\*\* mounted on the rear wall, two-segmented, folded, with mechanical winch, auger driven hydraulically, oil requirement 30L/min

### T680H

Loading case with universal walls opening system  
 Reinforced floor pan with central wall locking mechanism  
 Drawbar: V type with Ø40 fixed towing eye  
 Rotating turnable  
 Braking system: single line pneumatic or double line pneumatic or hydraulic  
 Parking brake with crank  
 Rear connections to a second trailer  
 Axles for 60 km/h  
 Tipping system with cut-off valve  
 Telescopic servo-motor of 3-side tipping system  
 Sidewall rubber sealing  
 12V lighting system with rear electric socket  
 Rear lamps with protective grating  
 Coiled connecting cable for the lighting installation  
 Left sidewall height 1700 mm driven hydraulically with automatic locking system  
 Right lower sidewall height 800 mm swing and collapsible system with central wall locking system  
 Rear lower sidewall height 800 mm swing and collapsible system with central wall locking system  
 Rear grain hatch with a lever in a rear wall  
 Double-component chemically hardened painting materials  
 Wheel chocks and racks  
 Tipping frame painting colour: red RAL3000 PRONAR  
 Side walls painting colour: green RAL6010 PRONAR  
 Loading case adapted to transport europallets  
 Plastic rear mudguards  
 Mechanical support of the loading case  
 Spare wheel 385/65 R22.5 Regenerated  
 Beam for spare wheel (only for tyres: 385/65 R22.5 and 425/65 R22.5)  
 Ladder and side steps facilitating access to the loading case

Drawbar: V type with Ø50 fixed towing eye  
 Drawbar: Y type with Ø40 fixed towing eye  
 Braking system: double line pneumatic with ALB (automatic braking force control)  
 Rolled canvas cover with frame  
 Operator's platform  
 Right sidewall extension 500 mm for green forage  
 Rear grain chute  
 Two grain hatches with a lever in a rear wall with locking system  
 Tyres 385/65 R22.5 (4 wheels without spare wheel)  
 Tyres 425/65 R22.5 (4 wheels without spare wheel)  
 Tyres 550/45 R22.5 (4 wheels without spare wheel)  
 Tyres 500/60 R22.5 (4 wheels without spare wheel)  
 Side underrun protections  
 Rear automatic hitch UNIMAR  
 Rear automatic hitch ROCKINGER 400A4600  
 Spare wheel 425/65 R22.5 (with beam mounted in standard)  
 Spare wheel (separately) 550/45 R22.5  
 Spare wheel (separately) 500/60 R22.5  
 Spare wheel 385/65 R22.5 (with beam mounted in standard)  
 Without spare wheel beam  
 Without standard spare wheel 385/65 R22.5 RE  
 Plastic front mudguards  
 Additional rear plastic mudguards  
 Warning triangle  
 Auger for unloading grain with efficiency 30 t/h\*\*\*\*  
 Spare wheel winch under trailer's frame, with crank, only with wheels: 385/65 R22.5 i 425/65R22.5  
 Non standard colours according to RAL CALSSIC codes  
 \*\*\*\* mounted on the rear wall, two-segmented, folded, with mechanical winch, auger driven hydraulically, oil requirement 30L/min

A large green three-axle trailer is parked in a vast field of golden wheat under a blue sky with white clouds. The trailer is positioned on the right side of the frame, with its front end pointing towards the left. The field extends to the horizon, where a line of trees and a few buildings are visible in the distance.

# THREE AXLE TRAILER



**PRONAR** **36** MONTHS WARRANTY\*

\* Ask Your local Authorized Dealer and Sales Representative or see PRONAR.PL for more details.

## THREE AXLE TRAILER PRONAR T780



A specialized three-axle trailer **T780** with heavy duty capacity construction (26 m<sup>3</sup>) guarantees economical transport and reduce production costs. It is ideal for the transport of both agricultural crops and euro-pallets. Tyres and axles are designed to transport on roads for long distances at a speed of 40 km/h (optionally 60 km/h). There is a possibility to order the trailer with additional grain hatch in the side walls that increases its versatility. The standard springs for easy opening, allow the trailer to be operate efficiently by one person.



**PRONAR T780**

### TECHNICAL DATA OF STANDARD EQUIPMENT

### T780

Permissible total weight [kg]	24000*
Load capacity [kg]	16300**
Empty weight [kg]	7700
Load volume [m <sup>3</sup> ]	26
Loading space [m <sup>2</sup> ]	18,55
Loading case inside length [mm]	7696
Loading case inside width* [mm]	2410**
Dimensions length/width/height [mm]	10087/2548/2800
Sidewall height [mm]	800+600
Floor/wall thickness [mm]	5/2,5
Platform height, measured from the ground [mm]	1390
Wheel track [mm]	1960
Suspension	Parabolic springs
Tyres	385/65 R22,5 RE
Maximum speed [km/h]	40
Tipping system	3-side
Telescopic cylinder (piston stroke/oil requirement/working pressure)	2 cylinders 2990 mm/68L/200bar
Minimum tractor power requirement [hp/kW]	150/110,2
Tipping angle (backwards/sides) [°]	47/45

\* depends on the road regulations in each country

\*\* depends on the road regulations and equipment

\*\*\* width of the loading case suitable for EUROPALET transport



Additional chute on the side wall

Loading case suitable for euro pallet transport



Three side tipping cylinders - rear 470, 450 on the sides



Ladders and operator's platform on the front sidewall for easy access to loading box and rolled canvas cover. Two cylinders for three side tipping system- rear 470, on the sides 450





Three axle PRONAR T780

**STANDARD EQUIPMENT**

**ADDITIONAL EQUIPMENT (OPTIONAL)**

**T780**

Loading case with universal system of sidewall opening  
 Three side tipping system of the loading case  
 Drawbar: V type with Ø40 fixed towing eye rotating turnable  
 Chassis frame of welded closed rectangular profiles made of high strength steel  
 Axles for 60km/h  
 Braking system: double line pneumatic with ALB or double line pneumatic or hydraulic  
 Crank hand brake  
 12 V lighting system with rear electric socket  
 Hydraulic tipping system with cut-off valve  
 Two telescopic cylinders of 3-side tipping system  
 Sidewalls made of profile PF 800+600 with middle post, with rim 60mm with forged hinges and locks  
 Central locking system  
 Grain hatch with lever in rear wall  
 Springs facilitating opening the sides (4 pcs)  
 A set of plastic front and rear mudguards  
 Double-component chemically hardened painting materials  
 Ladder and side steps facilitating access to the loading case  
 Wheel chocks and racks  
 Tipping frame painting colour: red RAL3000 PRONAR  
 Sidewall painting colour: green RAL6010 PRONAR

Drawbar: Y type with Ø40 fixed towing eye  
 Rear connections to a second trailer  
 Operator's platform  
 Rolled canvas cover with frame  
 Sidewall extensions 800mm (instead of 600mm)\*  
 Side grain hatch on the left or the right side of the trailer  
 Tool box  
 Side underrun protections  
 Set of chutes: left and right along the entire length of the trailer loading case + rear across width of the trailer  
 Rear grain chute  
 Tyres 385/65R22.5 (6 pcs without a spare wheel)  
 Tyres 425/65 R22.5 ET= -30 (6 pcs without a spare wheel)  
 Tyres 550/45 R22.5 (6 pcs without a spare wheel)  
 Spare wheel beam\*\*  
 Rear automatic hitch UNIMAR  
 Rear automatic hitch ROCKINGER 400A4600  
 Spare wheel (separately) 385/65 R22.5 (15 R22.5) RE  
 Spare wheel (separately) 385/65 R22.5 (15 R22.5)  
 Spare wheel (separately) 425/65 R22.5  
 Spare wheel (separately) 550/45 R22.5  
 Warning triangle  
 Auger for unloading grain with efficiency 30 t/h \*\*\*\*  
 Crank operated spare wheel winch under the frame of trailer. Only for 385/65 R22.5 and 425/65 R22.5  
 Rear grain chute across width of the trailer  
 Left or right side removable grain chute across entire length of the trailer loading case  
 Left and right side removable grain chute across entire length of the trailer loading case  
 Hydraulic assisted left or right sideboard opening  
 Hydraulic assisted left and right sideboard opening  
 Set of wall supports to maintain the walls in a partially open position for bale transportation\*\*\*  
 Shock absorber for falling potatoes - two sets of rubber belts, 2,3m of length each, mounted on the sidewall extensions (side extensions necessary)  
 Non standard colours according to RAL CALSSIC codes  
 \*The use of sidewall extensions 800mm possible with 425/65 R22.5 ET=-30 or 550/45 R22.5 Flotation Tyress  
 \*\*Spare wheel beam available for 385/65 R22.5 and 425/65 R22.5 Tyress  
 \*\*\* for agricultural roads only  
 \*\*\*\* mounted on the rear wall, two-segmented, folded, with mechanical winch, auger driven hydraulically, oil requirement 30L/min



# TANDEM AXLE TRAILERS

PRONAR TRAILERS T663/1, T663/2, T663/3, T663/4	34
PRONAR TRAILERS T683, T683P, T683H	37
PRONAR TRAILERS PT510, PT512	42





**PRONAR** **36** MONTHS WARRANTY\*

\* Ask Your local Authorized Dealer and Sales Representative or see PRONAR.PL for more details.



More and more customers appreciate usefulness of the trailers with tandem suspension due to its advantage in hard conditions. More pressure on the tractor hitch in tandem trailer makes easy maneuvering in difficult terrain and increases the pulling power of the tractor. Trailer **PRONAR T663/1**, also has a three way tipping system, and at the loading case has low suspension. All this makes the trailer extremely stable and easy to work with.

Trailer **PRONAR T663/1** is also available as a silo version with a capacity of 16 m<sup>3</sup> load. It stands out with a hydraulically raised rear wall and hydraulic locks that protect against uncontrolled tailgate drop in case of oil pressure decrease.

Trailer **PRONAR T663/2** is a three-way tipping trailer that can serve a similar purpose as two-axle trailer. However, due to tandem suspension which not only distributes the load on the wheels of the trailer but also on the tractor hitch, it is perfect to work in hard conditions, when dealing with soft ground, including green areas and work related to municipal services.

**PRONAR T663/2** Trailer is available as SILO version "**T663/2 SILO**", which has sidewalls increased by 500 mm, including the hydraulic tailgate which make it more effective. High quality and multifunctionality will satisfy every demand.

**PRONAR** trailer **T663/3** is a modern trailer type characterized by three way tipping system, central locking system, durable walls and an unloading window in the tailgate. Ideally designed for transporting agricultural products, particularly for corn, grain etc. The trailer is designed as a tandem which makes maneuvering easy. Stable ball tipping system, load-bearing frame profiles of high quality, reliable and durable axles are the factors that distinguishes **PRONAR** products from other products on the market.

**T663/3** is produced in SILO version aslo. **PRONAR T663/3** SILO has additional side walls, which together with hydraulic tailgate increasing its functionality.

Why would improve something that is good? Because the world is constantly changing, and the technical world even more rapidly. **PRONAR T663/4** trailer was created as enhanced version of the **T663/1**. We have improved maneuvering characteristics of the trailer as well as its stability.

A customer who chooses a **PRONAR T663/4** can be sure that in comparison with the model **T663/1** the trailer will have a larger capacity (up to 10420 kg), will be more stable (increased spacing, parabolic springs, extended frame bottom, increased wheelbase), a lower loading height – in standard option, loading height is lowered by 120 mm to 1185 mm)



**PRONAR T663/1**



**PRONAR T663/2**



**PRONAR T663/3**



**PRONAR T663/4**

Universal rigid drawbar to connect with the lower or the upper hitch of the tractor

Telescopic servo-motor of 3 side tipping system

Handbrake



**TECHNICAL DATA OF STANDARD EQUIPMENT**

	<b>T663/1</b>	<b>T663/2</b>	<b>T663/3</b>	<b>T663/4</b>
Allowable total weight [kg]	13290 (12000)	9700*	13660	14000
Load capacity [kg]	10000	7000**	10000	10420
Empty weight [kg]	3290	2700***	3660	3580
Load volume [m <sup>3</sup> ]	11,8	9,8	11,8	11,8
Loading space [m <sup>2</sup> ]	9,8	9,8	9,8	9,8
Loading box inside length [mm]	4440	4440	4440	4440
Loading box inside width [mm]	trapezoid 2190/2240	trapezoid 2190/2240	trapezoid 2190/2240	trapezoid 2190/2240
Dimensions length/width/height [mm]	6116/2390/2484	6121/2390/2094	6154/2390/2579	6230/2390/2445
Sidewall height [mm]	600+600	500+500	600+600	600+600
Floor/wall thickness [mm]	5/2,5	4/2	5/2,5	5/2,5
Platform height, measured from the ground [mm]	1250	1060	1320	1185
Wheel track [mm]	1700	1650	1700	1800
Suspension	leaf springs	parabolic springs	leaf springs	parabolic springs
Hitch-ring load [kg]	1860	1465	1880	2000
Tyres	15,0/70-18	11,5/80-15,3	385/65 R22,5 (15R22,5)	15,0/70-18
Maximum speed [km/h]	30	30	40	30
Tipping system	3-side	3-side	3-side	3-side
Telescopic cylinder (piston stroke/oil requirement/working pressure)	1700 mm/13L/200bar	1700 mm/13L/200bar	1700 mm/13L/200bar	1830 mm/15L/200bar
Minimum tractor power requirement [hp/kW]	67,6/49,7	57,2/42	72,8/53,5	67,6/49,7
Tipping angle (backwards/sides) [°]	50/46	50/46	50/46	50/45

\* Maximum gross weight depends on the equipment

\*\* Load capacity depends on the design and equipment

\*\*\* Empty weight depends on equipment different than standard

**STANDARD EQUIPMENT**
**ADDITIONAL EQUIPMENT (OPTIONAL):**
**T663/1**

Loading case with universal system of opening walls  
 3-side tipping system of the loading case with ball joints with the rear shock absorbers of optimum spacing  
 Selection of the direction of tipping by two pins that protects against incorrect handling  
 Reinforced floor panel with central locking mechanism  
 Frame: rectangular with closed profiles made of high resistant steel  
 Tandem suspension on 4 leaf springs, wheelbase 1160mm, fixed axles equipped with drum brakes  
 Universal fixed drawbar to connect with the lower or the upper hitch of the tractor  
 Drawbar towing hitch: rotary with fixed Ø50 towing eye  
 Drawbar support: hydraulic supporting leg (scissor)  
 Braking system: double pneumatic line  
 Parking brake with manual crank  
 Crank hand brake  
 12 V lighting system with rear electric socket  
 Rear lamps with protective grating  
 Coiled connecting cable lighting system  
 Hydraulic tipping system with cut-off valve  
 Telescopic servo-motor of 3-side tipping system  
 Sidewalls and extensions made of profile PF600mm, 70 mm from the rim, with hinges and locks  
 Closed spaces of the sidewalls and extensions protected by laser weld  
 Support service of the tool box  
 Sidewalls fastening string  
 Rear grain hatch with a lever in a rear wall  
 Rear mudguards  
 Wheel chocks + galvanized racks (2 pcs)  
 Double-component chemically hardened painting materials, UV-resistant  
 Tipping frame colour: red RAL 3000 PRONAR  
 Side walls painting colour: green RAL 6010 PRONAR  
 Ladder and steps facilitating the access to the loading case  
 Trapezoidal shape of the loading case (chest expands by 50 mm in the rearward direction), reinforced floor panel

Axles for 40 km - Gross weight 12000kg  
 Drawbar towing hitch: towing eye Ø40  
 Additional sidewalls extensions made of profile PF600mm  
 Braking system: double line pneumatic with ALB  
 Lighting system with clearance lights  
 Operator's platform at the front wall  
 Grain chute  
 Springs facilitating opening the sides  
 Rear manual, hitch witch shock absorption  
 Rear automatic hitch AH 31H-4  
 Rear automatic hitch AH 38H-4  
 Rear couplings for second trailer  
 Spare wheel hanger\*  
 Tyres 385/55 R22,5  
 Tyres 385/55 R22,5 Regenerated  
 Tyres 500/50-17  
 Spare wheel (separately) 15.0/70-18  
 Spare wheel (separately) 500/50-17  
 Spare wheel (separately) 385/55 R22.5  
 Spare wheel (separately) 385/55 R22.5 RE  
 Side underrun protections  
 Additional plastic front mudguards - the wheels of a wheelset tandem  
 Warning triangle  
 Auger for unloading grain with efficiency 30 t/h\*\*  
 Chute over the entire width on the back of the trailer  
 Window in the front side wall extension (340x710) with grating and PLEXI  
 Rolled canvas cover with frame and folded central and sides supporting pipes  
 Window in the front extension and in the front of the middle side wall extension (340x710) with grating and PLEXI  
 Set of wall hangers to maintain the walls in a partially open position for bale transportation\*\*\*  
 Shock absorber for falling potatoes - two sets of rubber belts, 1,8m of length each, mounted on the sidewall extensions (side extensions necessary)  
 Non standard colours according to RAL CALSSIC codes  
 \*not available with operator's platform  
 \*\* mounted at the back wall, two-segment, folding, mechanical winch, hydraulic-powered auger, the demand for oil 30 L / min  
 \*\*\* for agricultural roads only

Loading box of trapezoid shape ( 50 mm wider rear ) Grain chute with lock



Additional plastic front mudguards - the wheels of a wheelset tandem



# TANDEM AXLE TRAILERS

## PRONAR T663/1, T663/2, T663/3, T663/4



### STANDARD EQUIPMENT

### ADDITIONAL EQUIPMENT (OPTIONAL):

	<b>T663/2</b>
<p>Loading case with universal system of opening walls 3-side tipping system of the loading case with ball joints with the rear shock absorbers of optimum spacing Selection of the direction of tipping by two pins that protects against incorrect handling Tandem suspension on 4 parabolic springs, wheelbase 1030mm, fixed axles equipped with drum brakes Reinforced floor panel with central locking mechanism Type of chassis: rectangular with closed profiles with fixed drawbar *made of high resistant steel Universal fixed drawbar to connet with the lower or the upper hitch of the tractor Drawbar towing hitch: with fixed Ø 50 towing eye Drawbar support: hydraulic scissor-type with movable leg and security hydraulic lock Braking system: double line pneumatic Crank hand brake 12 V lighting system with rear electric socket Rear lamps with protective shades Coiled connecting cable lighting system Hydraulic tipping system with cut-off valve Tipping servo-motor of 3-side tipping system Sidewalls and extensions made of profile PF500mm+500mm, 70 mm from the rim, with forged hinges and locks Closed spaces of the sidewalls and extensions protected by laser weld Sidewalls fastening string Rear grain hatch with a lever in a rear wall Rear mudguards Wheel chocks + galvanized racks (2 pcs) Double-component chemically hardened painting materials, UV-resistant Tipping frame colour: red RAL 3000 PRONAR Side walls painting colour: green RAL 6010 PRONAR Ladder and steps facilitating the access to the loading case Trapezoid shape of the loading case (chest expands by 50 mm in the rearward direction)</p>	<p>Drawbar hitch: fixed with towing eye Ø40 mm Silo-type sidewalls extensions with loading case 16m<sup>3</sup>, sidewall 1600mm, hydraulically driven tailgate 1900mm (only on 400/60 - 15.5 Tyres) Additional extensions made of profile PF500mm Braking system: double line pneumatic with ALB Over-run brakes (Permissible load capacity: 8000kg, 40 km/h version) Braking system: pneumatic brake for 40 km/h (Gross weight=10000kg) Clearance lights Operator's platform Grain chute Springs facilitating opening the sides Rear manual hitch with shock absorption Rear couplings for second trailer Base for wheel axles 400/60-15.5 kpl. Spare wheel hanger Tyres 12.5/80 - 15.3 Tyres 14.0/65 - 16 Tyres 400/60-15.5 (Base for wheel axles) Spare wheel (separately) 11.5/80-15.3 Spare wheel (separately) 12.5/80-15.3 Spare wheel (separately) 14.0/65-16 Spare wheel (separately) 400/60-15.5 Warning triangle Auger for unloading grain with efficiency 30 t/h***** Rear chute along the entire width of the trailer Rolled cover with frame Drawbar support: mechanical telescopic with fixed leg Set of wall hangers: to maintain the walls in a partially open position for bale transportation** Shock absorber for falling potatoes - two sets of rubber belts, 1.8m of length each, mounted on the sidewall extensions (trailer must be equipped with extensions) Non standard colours according to RAL CALSSIC codes ***** Not available with operator's platform ***** mounted on the rear wall, two-segmented, folded, with mechanical winch, auger driven hydraulically, oil requirement 30L/min ***** for agricultural roads only</p>
	<b>T663/3</b>
<p>Loading case with universal system of opening walls 3-side tipping system of the loading case with ball joints with the rear shock absorbers of optimum spacing Selection of the direction of tipping by two pins protecting against incorrect handling Trapezoid shape of the loading body (chest expands by 50 mm in the rearward direction) Reinforced floor panel with central locking mechanism Type of chassis: rectangular with closed profiles with fixed drawbar made of high resistant steel Tandem suspension on 4 leaf springs, wheelbase 1160mm, fixed axles equipped with drum brakes Axles 60 km/h Universal fixed drawbar to connet with the lower or the upper hitch of the tractor Drawbar towing hitch: rotary with Ø50 towing eye Drawbar support: hydraulic scissor-type with movable leg and security hydraulic lock Braking system: double pneumatic line Crank hand brake 12 V lighting system with rear electric socket Rear lamps with protective grating Coiled connecting cable lighting system Hydraulic tipping system with cut-off valve Tipping servo-motor of 3-side tipping system Service support of the Tool box Sidewalls and extensions made of profile PF600mm+600mm, 70 mm from the rim, with forged hinges and locks Closed spaces of the sidewalls and extensions protected by laser weld Sidewalls fastening string Rear grain hatch with a lever in a rear wall Rear mudguards Wheel chocks + galvanized racks (2 pcs) Double-component chemically hardened painting materials, UV-resistant Tipping frame colour: red RAL 3000 PRONAR Side walls painting colour: green RAL 6010 PRONAR Ladder and steps facilitating the access to the loading case</p>	<p>Drawbar hitch: fixed with towing eye Ø40 mm Additional extensions made of profile PF600mm Silo-type sidewalls extensions with loading case 16m<sup>3</sup>, sidewall 1600mm, hydraulically driven tailgate 1900mm (only with 400/60-15.5 tires) Braking system: double line pneumatic with ALB Clearance lights Operator's platform Grain chute Springs facilitating opening the sides Rear couplings for second trailer Rear manual hitch Rear automatic hitch AH 31H-4 Rear automatic hitch AH 38H-4 Tyres 385/65R22.5 Tyres 500/45-22.5 JEST W KARCIE Spare wheel (separately) 385/65 R22.5 (15 R22.5) Spare wheel (separately) 385/65 R22.5 (15 R22.5) RE Spare wheel (separately) 500/45-22.5 Side underrun protections Additional plastic front mudguards - the wheels of a wheelset tandem Warning triangle Auger for unloading grain with efficiency 30 t/h* Chute over the entire width on the back of the trailer Window in the front side wall extension (340x710) with grating and PLEXI Window in the front extension and in the front of the middle side wall extension (340x710) with grating and PLEXI Rolled cover with frame and side supporting pipes Drawbar support: mechanical telescopic with fixed leg Set of wall supports to maintain the walls in a partially open position for bale transportation** Shock absorber for falling potatoes - two sets of rubber belts, 1.8m of length each, mounted on the sidewall extensions (side extensions necessary) Non standard colours according to RAL CALSSIC codes</p>
	<b>T663/4</b>
<p>Loading case with universal system of opening walls 3-side tipping system of the loading case with ball joints with the rear shock absorbers of optimum spacing Selection of the direction of tipping by two pins that protects against incorrect handling Reinforced floor panel with central locking mechanism Trapezoid shape of the loading body (chest expands by 50 mm in the rearward direction) Type of chassis: Rectangular with closed profiles with fixed drawbar Universal fixed drawbar to connet with the lower or the upper hitch of the tractor Tandem suspension on 4 parabolic springs, wheelbase 1170mm, fixed axles equipped with drum brakes Drawbar towing hitch: with rotary Ø50 towing eye Drawbar support: hydraulic scissor-type with movable leg and security hydraulic lock Braking system: double line pneumatic Crank hand brake 12 V lighting system with rear electric socket Rear lamps with protective grating Coiled connecting cable lighting system Tipping system with cut-off valve Tipping servo-motor of 3-side tipping system Sidewalls and extensions made of profile PF600mm+600mm, 70 mm from the rim, with forged hinges and locks Service support of the Tool box Closed spaces, walls protected by laser weld Sidewalls fastening string Rear grain hatch with a lever in a rear wall Rear mudguards Wheel chocks + galvanized racks (2 pcs) Double-component chemically hardened painting materials, UV-resistant Chassis color red RAL 3000 PRONAR Sidewalls color green RAL 6010 PRONAR Ladder and steps facilitating the access to the loading case</p>	<p>Drawbar hitch: fixed with towing eye Ø40 mm Silo-type sidewalls extensions with loading case 16m<sup>3</sup>, sidewall 1600mm, hydraulically driven tailgate 1900mm Additional extensions made of profile PF600mm Braking system: double line pneumatic with ALB Clearance lights Operator's platform Rear grain chute Springs facilitating opening the sides Rear couplings for second trailer Rear manual hitch with shock absorption Rear automatic hitch AH 31H-4 Rear automatic hitch AH 38H-4 Spare wheel hanger Tyres 385/55 R22.5 Tyres 385/55 R22.5 RE Tyres 500/50-17 Spare wheel (separately) 15,0/70-18 Spare wheel (separately) 385/55 R22.5 Spare wheel (separately) 385/55 R22.5 RE Spare wheel (separately) 500/50-17 Side underrun protections Additional plastic front mudguards - the wheels of a wheelset tandem Warning triangle Auger for unloading grain with efficiency 30 t/h* Chute over the entire width on the back of the trailer Window in the front side wall extension (340x710) with grating and PLEXI Window in the front extension and in the front of the middle side wall extension (340x710) with grating and PLEXI Rolled cover with frame Set of wall supports to maintain the walls in a partially open position for bale transportation** Shock absorber for falling potatoes - two sets of rubber belts, 1.8m of length each, mounted on the sidewall extensions (side extensions necessary) Non standard colours according to RAL CALSSIC codes * mounted on the back wall, two-segment, folding, mechanical winch, hydraulic-powered auger, the demand for oil 30 L / min ** for agricultural roads only</p>



## TANDEM AXLE TRAILERS PRONAR T683, T683P, T683H



Trailer **PRONAR T683** is an excellent solution, perfectly suited for uneven and unstable terrain. This is achieved by using the leaf suspension of the tandem type with two single strong axles and amortized rigid drawbar. Suspension element have been selected so as to make maneuvering with the trailer easy and ensure their high stability. Permissible total weight of 20 tones is the size at which are included in the optimal way both economic aspects (price of the trailer and its low costs of ownership) and utility (optimal load capacity and cargo capacity, functionality, reliability and durability).

Trailer **PRONAR T683P** is based on chassis of the trailer **PRONAR T683**. In addition to the basic advantages of the tandem trailer **T683**, the walls of this one are made of special durable waterproof plywood, embedded in special aluminium profiles, which are also used to embed the rubber seals to ensure the highest degree of integrity. The use of this type of materials reduces the risk of damage of the transported agricultural products because of the low temperature. The loading and unloading of pallets is possible thanks to the portal doors opened like gates. Such a solution makes it easy for loading with forklift without the danger of damaging the sides of the trailer.

Trailer **PRONAR T683H** is a version of the trailer **T683** with hydraulic side wall without a central pillar, which gives a free access to the cargo area. It is very convenient and practical solution for the transport of agricultural products on pallets. The left side wall, as unitary profiled, is lifted and bolted hydraulically (protection system), which prevents the opening and loss of the carriage by unexpected leak of the system.

Trailer **PRONAR T683** is an excellent solution, perfectly suited for uneven and unstable terrain. This is achieved by using the leaf suspension of the tandem type with two single strong axles and amortized rigid drawbar. Suspension element have been selected so as to make maneuvering with the trailer easy and ensure their high stability. Permissible total weight of 20 tones is the size at which are included in the optimal way both economic aspects (price of the trailer and its low costs of ownership) and utility (optimal load capacity and cargo capacity, functionality, reliability and durability).



**PRONAR T683**



**PRONAR T683P**



**PRONAR T683H**

Rear LED lights



Rear automatic hitch Rockinger



Three side tipping system





# TANDEM AXLE TRAILERS

## PRONAR T683, T683P, T683H



Rolled canvas cover with belts



Rear grain chute with locking system



Loading case with universal system of walls opening (T683)

### TECHNICAL DATA OF STANDARD EQUIPMENT

	T683	T683P	T683H
Permissible total weight [kg]	20000*	20000*	20000*
Load capacity [kg]	15300**	15360**	15180**
Empty weight [kg]	4700	4640	4820
Load volume [m <sup>3</sup> ]	17,2	17,3	20,3
Loading space [m <sup>2</sup> ]	12,3	12,3	12,1
Loading case inside length [mm]	5100	5100	5020
Loading case inside width [mm]	2420***	2420***	2420***
Dimensions length/width/height [mm]	6800/2550/3100	6800/2550/2790	7270/2550/3070
Sidewall height [mm]	800+600	800+600	800+900
Floor/wall thickness [mm]	5/2,5	5/2,5	5/2,5
Platform height, measured from the ground [mm]	1350	1350	1350
Wheel track [mm]	1960	1960	1960
Suspension	Parabolic springs	Parabolic springs	Parabolic springs
Hitch-ring load [kg]	2000	2000	2000
Tyres	385/65 R22,5 RE	385/65 R22,5 RE	385/65 R22,5 RE
Maximum speed [km/h]	40	40	40
Tipping system	3-side	3-side	3-side
Telescopic cylinder (piston stroke/oil requirement/working pressure)	1980 mm/18L/200bar	1980 mm/18L/200bar	1980 mm/18L/200bar
Minimum tractor power requirement [hp/kW]	104/76,4	104/76,4	104/76,4
Tipping angle (backwards/sides) [°]	50/46	50/46	47/47

\* depends on the road regulations in each country

\*\* depends on the road regulations and equipment

\*\*\* width of the loading case suitable for EUROPALET transport

Loading case suitable for euro pallet transport



LED lights



Solid wall locks with forged parts



## STANDARD EQUIPMENT

## ADDITIONAL EQUIPMENT (OPTIONAL):

### T683

Loading case with universal system of opening walls  
 3-side tipping system of the loading case with ball joints with the rear shock absorbers of optimum spacing  
 Selection of the direction of tipping by two pins that protects against incorrect handling  
 Loading case suitable for EUROPALLET transport  
 Reinforced floor panel with central locking mechanism  
 Frame welded using closed rectangular profiles made of S355 steel  
 Sidewalls and extensions made of profile PF800mm+600mm, 60 mm from the rim, with forged hinges and locks  
 Tandem suspension on 4 parabolic springs, wheelbase 1360mm, fixed axles equipped with drum brakes 406x120  
 Axles 60km/h  
 Drawbar support: hydraulic scissor-type with movable leg and security hydraulic lock  
 Universal fixed drawbar to connect with the lower or the upper hitch of the tractor  
 Drawbar towing hitch: with rotary Ø50 towing eye  
 Braking system: double line pneumatic with coupling for the second trailer  
 Crank hand brake  
 Rear mudguards  
 Ladder and steps facilitating the access to the loading case  
 12 V lighting system with rear electric socket, LED lights  
 Coiled connecting cable lighting system  
 Hydraulic tipping system with cut-off valve  
 Tipping servo-motor of 3-side tipping system  
 Sidewalls shared with central pillar  
 Service support of teh Tool box  
 Closed spaces, walls protected by laser weld  
 Sidewalls fastening string  
 Rear grain hatch with a lever in a rear wall  
 Foldable rear bumper  
 Folding beam lighting with grilles protecting the lamp from damage  
 Handle with support hydraulic hoses for fittings of plug to the tractor  
 Wheel chocks + galvanized racks (2 pcs)  
 Double-component chemically hardened painting materials, UV-resistant  
 Chassis color red RAL 3000 PRONAR  
 Sidewalls color green RAL 6010 PRONAR

Drawbar towing hitch: fixed with towing eye Ø40mm acc. to DIN 11026 to connect with upper hitch of the tractor  
 Drawbar towing hitch: fixed ball-type K80mm  
 Extensions made of profile PF600mm  
 Sidewalls extensions made of profile PF800mm instead of standard sidewall extensions PF600mm  
 Front sidewall made of 600mm perforated steel with 10 mm square wholes  
 Front sidewall made of 800mm perforated steel with 10 mm square wholes  
 Non shared sidewalls and on extension (without the post side)  
 The springs supporting opening of the side walls  
 Braking system: double line pneumatic with ALB  
 Braking system: hydraulic with electrical safety valve and regulator of braking forces  
 Combined braking system (double line pneumatic + hydraulic with electric hydraulic safety valve and regulator of braking forces)  
 Operator's platform  
 Rolled cover with frame with demountable central pipe and lateral supporting pipes  
 Rear grain chute  
 Rear automatic hitch UNIMAR  
 Rear automatic hitch R0'400A5100  
 Side underrun protection  
 Tyres 385/65R22.5  
 Tyres 425/65R22.5  
 Tyres 445/65R22.5  
 Tyres 550/60-22,5  
 Tyres 500/60R22.5  
 Tyres 550/45 R22.5  
 Tyres 560/60 R22.5  
 Tyres 560/45 R22.5  
 Spare wheel (separately) 385/65 R22.5  
 Spare wheel (separately) 385/65 R22.5 RE  
 Spare wheel (separately) 425/65 R22.5  
 Spare wheel (separately) 445/65 R22.5  
 Spare wheel (separately) 550/60-22.5  
 Spare wheel (separately) 550/45 R22.5  
 Spare wheel (separately) 500/60R22.5  
 Spare wheel (separately) 560/60 R22.5  
 Spare wheel (separately) 560/45 R22.5  
 Warning triangle  
 Auger for unloading grain with efficiency 30 t/h\*\*\*  
 Chute over the entire width on the back of the trailer  
 Demountable left or right chute along the entire length of the loading case  
 Demountable left and right chute along the entire length of the loading case  
 Window in the front side wall extension (340x710) with grating and PLEXI  
 Window in the front extension (340x710) and in the front of the middle side wall extension (340x710) with grating and PLEXI  
 Hydraulic support of unlocking side walls on the left or right side  
 Hydraulic support of unlocking side walls on the left and right side  
 Rear folded support, EC homologated  
 Set of wall supports to maintain the walls in a partially open position for bale transportation\*\*\*\*  
 Shock absorber for falling potatoes - two sets of rubber belts, 2,3m of length each, mounted on the sidewall extensions (side extensions necessary)  
 Non standard colours according to RAL CALSSIC codes  
 \*\*\*mounted on the back wall, two-segment, folding, mechanical winch, hydraulic-powered auger, the demand for oil 30 L / min  
 \*\*\*\*\* for agricultural roads only





**STANDARD EQUIPMENT**

**ADDITIONAL EQUIPMENT (OPTIONAL):**

	<b>T683P</b>
<p>Loading case with universal system of opening walls                      3-side tipping system of the loading case with ball joints with the rear shock absorbers of optimum spacing                      Selection of the direction of tipping by two pins that protects against incorrect handling                      Reinforced floor panel with central locking mechanism                      Width of the loading case suitable for EUROPALET transport                      Sidewalls made of waterproof plywood on both sides with aluminum edges, rubber seals and forged locks                      Frame welded using closed rectangular profiles made of S355 steel                      Type of chassis: Rectangular with closed profiles                      The walls of plywood on both sides foiled gr. 18 mm, with a rim made from aluminum profiles, with hinges and locks                      Left sidewall with central pillars, not divided, 1540mm height, tilt and opening system                      Right sidewall with central pillar, shared, 800mm +740 mm height, tilt - system                      Rear wall, 1540mm height, not divided, 1540mm height, tilt system                      Ladder and steps facilitating the access to the loading case                      Rear grain hatch with a lever in a rear wall                      Tandem suspension on 4 parabolic springs, wheelbase 1360mm, fixed axles equipped with drum brakes 406x120                      Axles for 60 km/h                      Drawbar support: hydraulic supporting leg (scissor-type)                      Universal fixed drawbar to connect with the lower or the upper hitch of the tractor                      Drawbar towing hitch: with rotary Ø50 towing eye                      Axles on 60 km/h                      Braking system: double line pneumatic with connections to a second trailer                      Crank hand brake                      12 V lighting system with rear electric socket, LED lights                      Coiled connecting cable lighting system                      Rear lamps with protective grating                      Tipping system with cut-off valve with wide ropes                      Tipping servo-motor of 3-side tipping system                      Wheel chocks + galvanized racks (2 pcs)                      Loading case support                      Rear plastic mudguards                      Foldable rear protection                      Double-component chemically hardened painting materials, UV-resistant                      Tipping frame colour: red RAL 3000 PRONAR                      The colors of the walls - plywood foiled - dark brown                      The rear cover, EC type-approval, folding</p>	<p>Rigid drawbar hitch eye Ø40 mm according to DIN 11026 to connect with the upper hitch tractor                      Drawbar hitch: rigid ball type K80 mm to connect with the ball hitch of the tractor                      Braking system double line pneumatic with ALB                      Operator's platform                      Rolled tarpaulin with frame                      Grain chute spout                      Three baffles grain chute, locked in the rear wall                      Rear automatic hitch UNIMAR                      Rear automatic hitch RO*400A5100                      Rear couplings for second trailer                      Side under-ride guards                      Tyres 385/65R22,5                      Tyres 425/65R22,5                      Tyres 445/65R22,5                      Tyres 445/65R22,5 (18R22,5) Regenerated                      Tyres 500/60R22,5                      Tyres 550/60-22,5                      Tyres 550/45 R22,5                      Tyres 560/60 R22,5                      Tyres 560/45 R22,5                      Spare wheel (separately) 385/65 R22,5                      Spare wheel (separately) 385/65 R22,5 Regenerated                      Spare wheel (separately) 425/65 R22,5                      Spare wheel (separately) 445/65 R22,5                      Spare wheel (separately) 445/65 R22,5 Regenerated                      Spare wheel (separately) 500/60R22,5                      Spare wheel (separately) 550/60-22,5                      Spare wheel (separately) 550/45 R22,5                      Spare wheel (separately) 560/60 R22,5                      Spare wheel (separately) 560/45 R22,5                      Warning triangle                      A grain unloading auger with 30 t/h output                      Chute over the entire width on the back of the trailer                      Hydraulic support of unlocking side walls on the left or right side                      Hydraulic support of unlocking side walls on the left and right side                      Shock absorber for falling potatoes - two sets of rubber belts, 2,3m of length each                      **** mounted on the back wall, two-segment, folding, mechanical winch, hydraulic-powered auger, the demand for oil 30 L / min</p>



**Walls made of plywood, with a special wall opening system (T683P)**





Hydraulic locking and lifting system of the sidewall (T683H)

## STANDARD EQUIPMENT

## ADDITIONAL EQUIPMENT (OPTIONAL):

### T683H

Loading case with universal system of sidewalls opening  
 3-side tipping system of the loading case with ball joints with the rear shock absorbers of optimum spacing  
 Selection of the direction of tipping by two pins that protects against incorrect handling  
 Reinforced floor panel with central locking mechanism  
 width of the loading case suitable for EUROPALET transport  
 Replaceable rubber seals, placed in floor sockets to ensure the tightness of the trailer (particularly useful for rape transportation) and exchangeable EPDM gaskets glued on other connections with sidewalls, extensions and floor panel  
 Sidewalls and extensions made of profile PF800mm\*900mm, 60 mm from the rim, with forged hinges and locks  
 Tipping frame welded using closed rectangular profiles made of S355 steel  
 Tandem suspension on 4 parabolic springs, wheelbase 1360mm, fixed axles equipped with drum brakes 406x120  
 Axles 60 km  
 Drawbar support: hydraulic supporting leg (scissor)  
 Universal fixed drawbar to connect with the lower or the upper hitch of the tractor  
 Drawbar towing hitch: with rotary Ø50 towing eye  
 Braking system: double line pneumatic with coupling to a second trailer  
 Crank hand brake  
 12 V lighting system with rear electric socket and LED lights  
 Rear lamps with protective grating  
 Coiled connecting cable lighting system  
 Tipping system with cut-off valve  
 Tipping servo-motor of 3-side tipping system  
 The side walls shared with central pillar  
 Walls with the rubber seal  
 Closed spaces, walls protected by laser weld  
 Left wall, 1700mm high, winched hydraulically  
 Right wall, bottom 800mm-tilt system  
 Rear wall, bottom 800mm-tilt system  
 Rear grain hatch with a lever in a rear wall  
 Wheel chocks + racks (2 pcs)  
 Double-component chemically hardened painting materials, UV-resistant  
 Tipping frame colour: red RAL 3000 PRONAR  
 Side walls painting colour: green RAL 6010 PRONAR  
 Service support of the case  
 Rear mudguards  
 Ladder and steps facilitating the access to the loading case  
 Side marker lights  
 Folding beam lighting with grilles protecting the lamp from damage  
 The rear cover, EC type-approval, folding

Drawbar with rubber shock absorber to connect with upper or lower hitch to a tractors  
 Drawbar hitch: fixed with towing eye Ø40 mm  
 Drawbar towing hitch: fixed ball-type K80mm (2 tones)  
 Braking system: double line pneumatic with ALB  
 500mm extension for the green forage on the right side of the trailer  
 Operator's platform  
 Rolled canvas cover with frame  
 Rear grain chute  
 Rear automatic hitch UNIMAR  
 Rear automatic hitch RO'400A5100  
 Rear hydraulic and brakes couplings for second trailer  
 Side underrun protections  
 Tyres 385/65R22,5  
 Tyres 425/65R22,5  
 Tyres 445/65R22,5  
 Tyres 550/60-22,5  
 Tyres 550/45 R22,5  
 Tyres 560/60 R22,5  
 Tyres 500/60R22,5  
 Tyres 560/45 R22,5  
 Spare wheel (Separately) 385/65 R22,5  
 Spare wheel (Separately) 385/65 R22,5 RE  
 Spare wheel (Separately) 425/65 R22,5  
 Spare wheel (Separately) 445/65 R22,5  
 Spare wheel (Separately) 550/60-22,5  
 Spare wheel (Separately) 550/45 R22,5  
 Spare wheel (Separately) 560/60 R22,5  
 Spare wheel (Separately) 500/60R22,5  
 Spare wheel (Separately) 560/45 R22,5  
 Warning triangle  
 Auger for unloading grain with efficiency 30 t/h\*\*\*\*  
 Non standard colours according to RAL CALSSIC codes

\*\*\*\* mounted on the back wall, two-segment, folding, mechanical winch, hydraulic-powered auger, the demand for oil 30 L / min



Universal loading box, chassis frame welded using rectangular, closed profiles. Tandem suspension with parabolic leaf springs (T683)



**PRONAR** trailers **PT510, PT512** - excellent equipment for irregular surface areas is well appreciate in agriculture as well as in other industries. This pallet tandem type trailers **PT510, PT512** are equipped with resistant chassis frame made of rectangular closed profiles, three side tipping system, reinforced drawbar, hydraulic supporting leg, parabolic springs suspension and solid radial Tyres. The maximum Allowable speed is 40km/h. The buyer has a choice between pneumatic and hydraulic breaking system. The standard option consists of three way tipping system with the cut off ( which activates while tipping to the sides) and pneumatic cylinder. For production we use only high quality materials such as chemically hardened paint components.

**PRONAR PT510**



**PRONAR PT512**



**TECHNICAL DATA OF STANDARD EQUIPMENT**

	<b>PT510</b>	<b>PT512</b>
Allowable total weight [kg]	14200	16260
Load capacity [kg]	10150	12000
Empty weight [kg]	4050	4260
Load volume [m³]	13,2	15,4
Loading space [m²]	11	11
Loading case inside length [mm]	4545	4545
Loading case inside width [mm]	2420*	2420*
Dimensions length/width/height [mm]	6139/2550/2452	6139/2550/2652
Sidewall height [mm]	600+600	600+800
Floor/wall thickness [mm]	5/2,5	5/2,5
Platform height, measured from the ground [mm]	1250	1252
Wheel track [mm]	1900	1900
Suspension	parabolic springs	parabolic springs
Hitch-ring load [kg]	1700	1950
Tyres	385/65 R22,5 (15R22,5) RE	385/65 R22,5 (15R22,5) RE
Maximum speed [km/h]	40	40
Tipping system	3-side	3-side
Telescopic cylinder (piston stroke/oil requirement/working pressure)	1700 mm/15L/200bar	1700 mm/16L/200bar
Minimum tractor power requirement [KM/kW]	74/54,4	84/61,7
Tipping angle (backwards/sides) [°]	50/46	50/46

\* width of container suitable for EUROPALET transport

Chassis made of closed profiles



Telescopic cylinder



Tandem suspension on parabolic springs





# TANDEM AXLE TRAILERS

## PRONAR PT510, PT512



### STANDARD EQUIPMENT

### ADDITIONAL EQUIPMENT (OPTIONAL):

#### PT510

Loading case with universal system of opening walls  
 3-side tipping system of the loading case with ball joints with the rear shock absorbers of optimum spacing  
 Selection of the direction of tipping by two pins that protects against incorrect handling  
 Loading case width suitable for EUROPALET transport with reinforced floor  
 Reinforced floor panel with central locking mechanism  
 Tipping type: rectangular with closed profiles with fixed drawbar  
 Sidewalls and extensions made of profile PF600mm+600mm, 60 mm from the rim, stable rear pillars with forged hinges and locks  
 Closed spaces, walls protected by laser weld  
 Side walls reinforcement, strips tensioned  
 Side strips tensioned, reinforcement raiser  
 Ladder and steps facilitating the access to the loading case  
 Tandem suspension on 4 parabolic springs, wheelbase 1325mm, fixed axles equipped with drum brakes 400x80  
 Axles 60 km/h  
 Universal fixed drawbar to connect with the lower or the upper hitch of the tractor  
 Drawbar towing hitch: with rotary Ø50 towing eye  
 Drawbar support: hydraulic supporting leg (scissor)  
 Drawbar support: hydraulic supporting leg (scissor)  
 Braking system: double-line pneumatic brake  
 Crank hand brake  
 12 V lighting system with rear electric socket, LED lights with airtight connection with clearance light  
 Coiled connecting cable lighting system  
 Rear lamps with protective grating  
 Rear couplings for second trailer  
 Rear grain hatch with a lever in a rear wall  
 Rear mudguards  
 Hydraulic tipping system with automatic cut-off valve  
 Tipping servo-motor of 3-side tipping system  
 Wheel chocks + galvanized racks (2 pcs)  
 Support service of the load carrying body  
 Double-component chemically hardened painting materials, UV-resistant  
 Tipping frame colour: red RAL 3000 PRONAR  
 Side walls painting colour: green RAL 6010 PRONAR

Drawbar hitch: fixed with towing eye 40 mm  
 Type of drawbar hitch: ball type K80 mm  
 Sidewall extensions made of profile PF 600mm, rim 60 mm  
 Braking system: double line pneumatic with ALB  
 Rolled cover with frame  
 Operator's platform  
 Rear grain chute  
 Front mudguards  
 Side underrun protection  
 Springs facilitating opening the side walls  
 Rear manual hitch  
 Rear automatic hitch  
 Tyres 385/65 R22.5  
 Tyres 385/55 R22.5 Regenerated  
 Tyres 385/55 R22.5  
 Tyres 500/45-22.5  
 Spare wheel (Separately) 385/65 R22.5 Regenerated  
 Spare wheel (Separately) 385/65 R22.5  
 Spare wheel (Separately) 385/55 R22.5  
 Spare wheel (Separately) 385/55 R22.5 Regenerated  
 Spare wheel (Separately) 500/45-22.5  
 Warning triangle  
 Auger for unloading grain with efficiency 30 t/h\*\*  
 Chute over the entire width on the back of the trailer  
 Demountable left or right chute along the entire length of the loading case  
 Demountable left and right chute along the entire length of the loading case  
 Window in the front side wall extension (340x710) with grating and PLEXI  
 Window in the front extension and in the front, middle side wall extension (340x710) with grating and PLEXI  
 Rolled cover with frame with demountable central pipe and lateral supporting pipes  
 Two grain chute sprouts with locking at the rear sidewall  
 Three grain chute sprouts with locking at the rear sidewall  
 Set of wall supports to maintain the walls in a partially open position for bale transportation\*\*\*  
 Shock absorber for falling potatoes - two sets of rubber belts, 1,8 m of length each attached to extensions  
 Non standard colours according to RAL CALSSIC codes  
 \*\* mounted on the back wall, two-segment, folding, mechanical winch, hydraulic-powered auger, the demand for all 30 L / min  
 \*\*\* for agricultural roads only

#### PT512

Loading case with universal system of opening walls  
 3-side tipping system of the loading case with ball joints with the rear shock absorbers of optimum spacing  
 Width of the loading case suitable for EUROPALET transport  
 Reinforced floor panel with central locking mechanism  
 Sidewalls and extensions made of profile PF600mm+800mm, 60 mm from the rim, with hinges and locks  
 Closed spaces, walls protected by laser weld  
 Side walls reinforcement, strips tensioned  
 Side strips tensioned, reinforcement raiser  
 Rear grain hatch with a lever in a rear wall  
 Rear mudguards  
 Wheel chocks + galvanized racks (2 pcs)  
 Support service of the load carrying body  
 Ladder and steps facilitating the access to the loading case  
 Tipping type: rectangular with closed profiles with fixed drawbar  
 Tandem suspension on 4 parabolic springs, wheelbase 1325mm, fixed axles equipped with drum brakes 400x80  
 Universal fixed drawbar to connect with the lower or the upper hitch of the tractor  
 Drawbar towing hitch: rotary with towing eye Ø50mm  
 Drawbar support: hydraulic leg scissor-type  
 Braking system: double line pneumatic  
 Grain chute at the rear sidewall  
 Axles on 60 km/h\*  
 Crank hand brake  
 12 V lighting system with rear electric socket, LED lights  
 Clearance lights  
 Rear lamps with protective grating  
 Coiled connecting cable lighting system  
 Hydraulic tipping system with cut-off valve  
 Tipping servo-motor of 3-side tipping system  
 Rear couplings for second trailer  
 Support service of the load carrying body  
 Double-component chemically hardened painting materials, UV-resistant  
 Tipping frame colour: red RAL 3000 PRONAR  
 Side walls painting colour: green RAL 6010 PRONAR  
 \*Permissible total weight 16000kg

Drawbar hitch: fixed with towing eye 40 mm  
 Type of drawbar hitch: ball type K80 mm  
 Sidewall extensions made of profile PP 600mm  
 Raiser profile 600mm instead of 800mm extensions profile  
 Braking system: hydraulic  
 Braking system: double line pneumatic with ALB  
 Operator's platform  
 \*\* mounted on the back wall, two-segment, folding, mechanical winch, hydraulic-powered auger, the demand for all 30 L / min  
 Rear grain chute  
 Springs facilitating opening the side walls  
 Front mudguards  
 Side underrun protection  
 Rear manual hitch MH 31H-4  
 Rear automatic hitch AH 31H-4  
 Rear automatic hitch AH 38H-4  
 Tyres 385/65 R22.5  
 Tyres 385/55 R22.5 Regenerowane  
 Tyres 385/55 R22.5  
 Tyres 500/50-22.5  
 Spare wheel (Separately) 385/65 R22.5 Regenerated  
 Spare wheel (Separately) 385/65 R22.5  
 Spare wheel (Separately) 385/55 R22.5  
 Spare wheel (Separately) 385/55 R22.5 Regenerated  
 Spare wheel (Separately) 500/50-22.5  
 Warning triangle  
 Auger for unloading grain with efficiency 30 t/h\*\*  
 Demountable left or right chute along the entire length of the loading case  
 Demountable left and right chute along the entire length of the loading case  
 Window in the front side wall extension (340x710) with grating and PLEXI  
 Window in the front extension and in the front of the middle side wall extension (340x710) with grating and PLEXI  
 Two grain chute sprouts with locking at the rear sidewall  
 Three grain chute sprouts with locking at the rear sidewall  
 Set of wall supports to maintain the walls in a partially open position for bale transportation\*\*\*  
 Rolled canvas cover with frame with demountable central pipe and lateral supporting pipes  
 Shock absorber for falling potatoes - two sets of rubber belts, 1,8 m of length each attached to extensions  
 Grain chute over the entire width on the back of the trailer  
 Non standard colours according to RAL CALSSIC codes  
 \*\*\* for agricultural roads only

Rear grain chute with locking system

Ladder and steps facilitating the access to the loading case





# LOW-LOADERS

LOW-LOADERS RC2100, RC2100-1, RC2100-2	46
LOW-LOADERS RC3100, RC3100-1	48



PRONAR

**36**

**MONTHS  
WARRANTY\***

\* Ask Your local Authorized Dealer  
and Sales Representative or see  
PRONAR.PL for more details.



## PRONAR RC2100, RC2100-1, RC2100-2

**PRONAR trailer RC2100** is a perfect solution for those who appreciate functionality and reliability. Low bed trailer with Allowable total weight 19 tons and it's equipped with tandem suspension. Depending on the needs braking system may be pneumatic or hydraulic. The main purpose of this model is to use it for transport various types of agricultural machinery, tractors, excavators, wheel loaders or other type of trailers. It's possible to order hydraulic ramps which allow very fast loading and unloading of transported machines.

**PRONAR trailer RC2100-1** is a longer version of trailer RC2100 and it is a perfect choice for those who appreciate functionality and reliability. Low bed trailer with Allowable total weight 19 tons and it's equipped with tandem suspension. Depending on the needs braking system may be pneumatic or hydraulic. The main purpose of this model is to use it for transport various types of agricultural machinery, tractors, excavators, wheel loaders or other type of trailers. It's possible to order hydraulic ramps which allows for very fast loading and unloading of transported machines.

**PRONAR trailer RC2100-2** is a perfect solution for those who appreciate functionality and reliability. Low bed trailer with Allowable total weight 19 tons and it's equipped with tandem suspension and a single line hydraulic brake system. This new model is lighter and cheaper version of popular trailer **PRONAR RC2100**. The main purpose of **PRONAR RC2100-2** is to use it for transport various types of agricultural machinery, tractors, excavators, wheel loaders or other type of trailers. It's possible to order hydraulic ramps which allows for very fast loading and unloading of transported machines. In addition, you may choose also a metal insole which makes that the whole floor is flat.



TECHNICAL DATA OF STANDARD EQUIPMENT	RC2100	RC2100-1	RC2100-2
Allowable total weight [kg]	19000	19000	19000
Load capacity [kg]	14700	14500	14900
Empty weight [kg]	4300	4500	4100
Loading space of the straight part of platform + enlarging [m <sup>2</sup> ]	14.0 (+ 2.7)	15.3(+3.0)	14.0
Loading space of the complete platform + enlarging [m <sup>2</sup> ]	17.9 (+ 3.4)	19.2(+3.8)	17.9*
Length of the straight part of the platform [mm]	5500	6000	5500
Length of the complete platform [mm]	7020*	7520*	7020*
Length of ramps [mm]	1900	1900	1900
Width of floor: [mm]	2540	2540	2540
Width of floor with enlargings [mm]	3040**	3040**	( - **)
Overall dimensions (length/width/height) [mm]	9160/2550/2500*	9590/2550/2500*	9450/2550/2460*
Material of the floor [mm]	wooden planks 45 mm	wooden planks 45 mm	wooden planks 45 mm
Platform height, measured from the ground [mm]	935	935	930
Number of axles [pcs]	2	2	2
Axle load [kg]	8000	8000	8000
Drawbar towing hitch load [kg]	3000	3000	3000
Braking system	double line pneumatic with ALB	double line pneumatic	single line hydraulic
Suspension	parabolic springs	parabolic springs	parabolic springs
Tyres	double 215/75 R 17.5	double 215/75 R 17.5	double 215/75 R 17.5
Maximum speed [km/h]	40	40	40
Hydraulic drawbar support	straight/folded	mechanical straight/folded	mechanical straight/folded
Drawbar hitch	ball hitch K80	ball hitch K80	rotary Ø50
Mechanically lowered ramps	yes	yes	yes
Load holders [pcs]	11	11	10
Side barriers	yes	yes	yes
Minimum tractor power requirement [KM/kW]	104/76.4	104/76.4	104/76.4

\* with folded ramps

\*\* with additional equipment



Hydraulically driven lift (option)



Sprung drawbar and hydraulic support leg



system to enlarge loading space

**STANDARD EQUIPMENT**

**ADDITIONAL EQUIPMENT (OPTIONAL):**

**RC2100**

Loading platform with wooden floor - front horizontal part  
 Loading platform with steel anti-skidding floor - rear inclined part  
 Fastenings handles in the floor, 11 pieces  
 Spiral connecting cable of lighting system  
 Mechanically lowered ramps with protection against accidental opening  
 Tipping support legs mounted at rear of the trailer  
 Tandem suspension with 4 parabolic springs with fixed axles equipped in drum brakes  
 Drawbar type: fixed to couple with lower hitch of the tractor amortized with steel springs  
 Drawbar support: hydraulic straight, folded leg  
 Drawbar hitch: ball type K80  
 Braking system: double line pneumatic with automatic (ALB) braking power controller  
 Crank hand brake  
 Lighting system 12 V with airtight connection, with front and rear LED clearance lights  
 Rear lamps with protective grating  
 Side underrun protection  
 Wheel chocks + racks (2 pcs)  
 Steel case under the floor for storing broadenings  
 Highly resistant rectangular chassis frame  
 Warning triangle  
 Double-component chemically hardened painting materials, UV-resistant.  
 Paintwork: orange RAL 2008

Axles for 60 km/h, drum brakes 300x135  
 Hydraulic ramps  
 Hydraulic ramps with floating control  
 Braking system: double line pneumatic  
 Braking system: double line pneumatic with ALB Knorr  
 Braking system: single line pneumatic with ALB  
 Braking system: double line pneumatic with ALB - 60 km/h  
 Braking system: hydraulic  
 Braking system: combined braking system (double line pneumatic + hydraulic)  
 Braking system: combined braking system (double line pneumatic + hydraulic with mechanical safety valve)  
 Braking system: combined braking system (double line pneumatic + hydraulic with electric safety valve and braking power controller)  
 Floor: oak 45mm  
 Drawbar hitch: fixed Ø40 / fixed Ø50 / rotary Ø50  
 Double-sided floor widening + boards (pine/spruce)  
 Hydraulic winch  
 Spare wheel: 1 or 2 (for one piece) hanged at the front of the trailer  
 Water container (- 30 l) with soap dispenser  
 Tool box (- 50 l)  
 Available other colors according to RAL CALSSIC codes (required RAL CLASSIC name and 4 digits from the color palette)  
 Warning triangle

**RC2100-1**

Loading platform with wooden floor - front horizontal part  
 Loading platform with steel anti-skidding floor - rear inclined part  
 Fastenings handles in the floor, 11 pieces  
 Mechanically lowered ramps with protection against accidental opening  
 Highly resistant rectangular chassis frame  
 Tipping support legs mounted at the rear of the trailer  
 Tandem suspension with 4 parabolic springs with fixed axles equipped in drum brakes  
 Drawbar type: fixed to couple with lower hitch of the tractor amortized with steel springs  
 Drawbar support: hydraulic straight, folded leg  
 Drawbar hitch: ball type K80  
 Braking system: double line pneumatic with manual braking power controller  
 Crank hand brake  
 Lighting system 12 V with airtight connection, with front and rear LED clearance lights  
 Rear lamps with protective grating  
 Side underrun protection  
 Wheel chocks + racks (2 pcs)  
 Spiral connecting cable of lighting system  
 Steel case at the front of the trailer for storing broadenings  
 Warning triangle  
 Double-component chemically hardened painting materials, UV-resistant.  
 Paintwork: orange RAL 2008

Axles for 60 km/h, drum brakes 300x135  
 Hydraulic ramps  
 Braking system: single line pneumatic with manual braking power controller  
 Braking system: double line pneumatic with automatic (ALB) braking power controller  
 Braking system: single line pneumatic with automatic (ALB) braking power controller  
 Braking system: hydraulic with braking power controller  
 Braking system: single line hydraulic  
 Braking system: hydraulic with mechanical safety valve  
 Braking system: combined braking system (double line pneumatic + hydraulic)  
 Braking system: combined braking system (double line pneumatic + hydraulic with mechanical safety valve)  
 Braking system: combined braking system (double line pneumatic + hydraulic with electric safety valve and braking power controller)  
 Floor: oak 45mm  
 Drawbar hitch: fixed Ø40 / fixed Ø50 / rotary Ø50  
 Double-sided floor widening + boards (pine/spruce):  
 Hydraulic winch  
 Spare wheel: 1 or 2 (for one piece) hanged at the front of the trailer  
 Water container (- 30 l) with soap dispenser  
 Tool box (- 50 l)  
 Enlarged ramps  
 Available other colors according to RAL CALSSIC codes (required RAL CLASSIC name and 4 digits from the color palette)  
 Warning triangle

**RC2100-2**

Loading platform with wooden floor - front horizontal part  
 Loading platform with steel anti-skidding floor - rear inclined part  
 Fastenings handles in the floor, 10 pieces  
 Mechanically lowered ramps with protection against accidental opening  
 Fixed support legs mounted under the ramps at the rear of the trailer  
 Tandem suspension with 4 parabolic springs with fixed axles equipped in drum brakes  
 Drawbar type: fixed to couple with lower hitch of the tractor amortized with steel springs  
 Drawbar support: mechanical straight, folded leg  
 Drawbar hitch: rotary Ø50  
 Braking system: single line hydraulic  
 Highly resistant rectangular chassis frame  
 Crank hand brake  
 Lighting system 12 V with airtight connection, with front and rear LED clearance lights  
 Rear lamps with protective grating  
 Side underrun protection  
 Wheel chocks + racks (2 pcs)  
 Steel case at the front of the trailer  
 Warning triangle  
 Spiral connecting cable of lighting system  
 Double-component chemically hardened painting materials, UV-resistant.  
 Paintwork: orange RAL 2008

Axles for 60 km/h, drum brakes 300x135  
 Straight part floor extension  
 Drawbar hitch: fixed Ø40  
 Drawbar hitch: fixed Ø50  
 Drawbar hitch: ball type K80  
 Hydraulic ramps with floating control  
 Hydraulic ramps  
 Enlarged hydraulic ramps (trailer taken from production line )  
 Enlarged hydraulic ramps (trailer taken from stock)  
 Drawbar support: hydraulic straight, folded leg  
 Braking system: double line pneumatic with automatic (ALB) braking power controller  
 Spare wheel: 1 or 2 (for one piece) hanged at the front of the trailer  
 Available other colors according to RAL CALSSIC codes (required RAL CLASSIC name and 4 digits from the color palette)

Mechanically or hydraulically driven ramps

Tandem suspension on parabolic springs



# PRONAR RC3100, RC3100-1



**PRONAR RC3100** is the biggest low loader trailer in PRONAR offer.

The low loading trailer with a load capacity of 18 tons will be successfully used in at least several industries. Thanks to the wide range of available options, it is easy to adapt it to specific work set by its user. The machine is dedicated mainly to work with tractors with a minimum power requirement of 104 HP.

The design of the low loader was based on a three-axle suspension on parabolic springs. The trailer has a load limit of 8 tons per axle, and its permissible gross weight is 24 tons.

When a DMC other than the standard chassis is fitted, the DMC may be increased to a maximum of 30 tons. The trailer was designed to transport at a maximum speed of 40 km/h, but optionally can be increased to 60 km/h. An undoubted advantage is the use of twin wheels, which prevents from collapsing in muddy ground.

Transport safety and comfort are improved by the automatic brake force regulator installed as standard (ALB).

The **RC3100-1** trailer has a third steering axle and is a development of the **RC3100** trailer. The load capacity of the trailer is 18,160 kg and the length of the loading area is 6800 mm. The trailer is ideal for moving equipment to farm fields, construction sites or used for transporting bales, straw cubes or hay.

## PRONAR RC3100



## PRONAR RC3100-1



### TECHNICAL DATA OF STANDARD EQUIPMENT

	RC3100	RC3100-1
Permissible total weight (for tyres 215/75R 17,5) 135/133J***: [kg]	27720	27720
Permissible total weight (for tyres 235/75R 17,5) 143/141J***: [kg]	30000	30000
Permissible total weight (EU): [kg]	24000	24000
Permissible total weight (for tyres 245/75R 17,5) 136/134L***: [kg]	28440	28440
Permissible total weight (for tyres 265/70R 17,5) 139/136M***: [kg]	30000	30000
Load capacity: [kg]	18540	18160
Empty weight: [kg]	5460	5840
Loading surface of the straight section + extensions [m²]	17,3 (+3,0)	17,3 (+3,0)
Total loading area + extensions [m²]	21,3 (+3,7)	21,3 (+3,7)
Length of the straight part of platform: [mm]	6800	6800
Overall platform length: [mm]	8340	8340
Length of ramps: [mm]	1900	1900
Width of floor: [mm]	2540	2540
Width of floor with extensions**: [mm]	3000	3000
Overall dimensions (length/width/height): [mm]	10410/2550/2500	10410/2550/2550
Material of the floor:	wooden planks	wooden planks
Platform height from the ground: [mm]	930	980
Number of axles:	3	3
Axle load: [kg]	8000	8000
Drawbar towing hitch load: [kg]	3000	3000
Braking system:	double line pneumatic with ALB	double line pneumatic with ALB
Suspension:	mechanical parabolic springs	mechanical parabolic springs
Tyres:	215/75 R 17,5	215/75 R 17,5
Maximum speed: [km/h]	40 (60 optional)	40 (60 optional)
Hydraulic drawbar support:	mechanical straight/ folded	mechanical straight/ folded
Drawbar hitch:	ball hitch K80	ball hitch K80
Mechanically lowered ramps:	yes	yes
Load holders:	19 (23)	19 (23)
Side barriers:	yes	yes
Minimum tractor power requirement: [HP/kW]	104/76,4	104/76,4

\* with folder ramps rounded

\*\* with additional equipment

\*\*\* at the permissible load of the hitch 3000 kg





Mechanically lowered ramps



Tie down eyes for securing loads



2 Spare wheels - optional equipment

### STANDARD EQUIPMENT

### ADDITIONAL EQUIPMENT (OPTIONAL)

#### RC3100

- Floor: wooden 45mm
- Brakes: drum brakes
- Suspension: mechanical spring
- Parking brake: hand crank
- Electric instalation: 12V
- Lighting system: LED
- Connecting cable for light instalation: spiral
- Mechanically lowered ramps with protection against accidental opening
- Front support leg: mechanical
- Tipping support legs mounted at rear of the trailer
- Wheel chocks: 2 pcs
- Triangle distinguishing slow-moving vehicles
- Painting materials: Two-component chemically hardened with high durability and UV resistance
- Paintwork: RAL7021 (or as requested)
- Toolbox (-50 l)

- Hydraulic ramp lowering/lifting system
- Hydraulic ramp lowering/lifting system with floating valve
- Single-line hydraulic brake system
- Front support leg: hydraulic
- Drawbar hitch: fixed Ø50 / rotary Ø50 / fixed Ø40
- Floor: oak boards 45mm
- Extended overruns
- Wheels: 235/75 R17,5 245/75 R17,5 265/70 R17,5
- Extended floor + wooden desks
- Hydraulic winch
- Spare tire: 1 or 2
- Water container (- 30 l) with soap dispenser
- Beacon light
- Oversize sign
- Odometer (axle-mounted),
- Rear bumper
- Bin in front of the trailer
- Inclined floor inset
- Rear wheel mudflaps
- Loading limiter

#### RC3100-1

- Floor: wooden 45mm
- Brakes: drum brakes
- Hydraulic steeling axle lock system
- Suspension: mechanical spring
- Parking brake: hand crank
- Electric instalation: 12V
- Lighting system: LED
- Connecting cable for light instalation: spiral
- Mechanically lowered ramps with protection against accidental opening
- Front support leg: mechanical
- Tipping support legs mounted at rear of the trailer
- Wheel chocks: 2 pcs
- Triangle distinguishing slow-moving vehicles
- Painting materials: Two-component chemically hardened with high durability and UV resistance
- Paintwork: RAL7021 (or as requested)
- Toolbox (-50 l)

- Hydraulic ramp lowering/lifting system
- Hydraulic ramp lowering/lifting system with floating valve
- Single-line hydraulic brake system
- Front support leg: hydraulic
- Drawbar hitch: fixed Ø50 / rotary Ø50 / fixed Ø40
- Floor: oak boards 45mm
- Extended overruns
- Wheels: 235/75 R17,5 245/75 R17,5 265/70 R17,5
- Extended floor + wooden desks
- Hydraulic winch
- Spare tire: 1 or 2
- Water container (- 30 l) with soap dispenser
- Beacon light
- Oversize sign
- Odometer (axle-mounted),
- Rear bumper
- Bin in front of the trailer
- Inclined floor inset
- Rear wheel mudflaps
- Loading limiter



RC3100 - 3 axle trailer low loaders



# TRUCK TRAILERS

TRUCK TRANSPORTING TRAILERS PB3100, PC2300 \_\_\_\_\_ 52

TRUCK TRAILERS PC2100, PC2100-1, PC2200, PB2100 \_\_\_\_\_ 53



**PRONAR** **36** MONTHS WARRANTY\*

\* Ask Your local Authorized Dealer and Sales Representative or see PRONAR.PL for more details.

# TRUCK TRAILERS

## PRONAR PB3100, PC2300



Exceptionally strong and functional low loading trailer **PRONAR PB3100** is designed for transporting agricultural and construction machines and freight which may be correctly secured from any movement during transportation (e.g. loadings in containers or palletes). The structure of the trailer is based on an I-beam profile, densely ribbed with crossbeams, which guarantees high durability and strength. The braking system has got the EBS with the RSP as standard, which improves the stability of the vehicle, with emergency brake function and in first axle.

The low-loading Pronar **PC2300** trailer is a perfect solution for transporting any kinds of machines, such as agricultural and construction ones as well as other loads – it is equipped with safety locks preventing the freight from moving. The structure of the trailer is based on an I-beam profile, densely ribbed with crossbeams, which guarantees high durability and strength. The braking system has got the EBS with the RSP as standard, which improves the stability of the vehicle.



**PRONAR PB3100**



**PRONAR PC2300**

### TECHNICAL DATA OF STANDARD EQUIPMENT

	<b>PB3100</b>	<b>PC2300</b>
Allowable total weight (on road): [kg]	24000	18000
Allowable total weight (construction): [kg]	27000	18000
Load capacity (on road): [kg]	18000	13500
Load capacity (construction): [kg]	21000	13500
Empty weight: [kg]	6000	4500
Loading space of the straight part of platform + enlargings: [m <sup>2</sup> ]	16,5 (+ 3)	14,0 (+ 2,5)
Loading space of the complete platform + enlargings: [m <sup>2</sup> ]	20,5 (+3)	17,9 (+ 3,2)
Length of the straight part of the platform: [mm]	6500	5500
Length of the complete platform: [mm]	8500	7020
Length of ramps: [mm]	2200	1900
Ramps angle: [degrees]	15	11,5
Width of floor: [mm]	2540	2540
Width of floor with enlargings: [mm]	3000	3000
Overall dimensions (length/width/height): [kg]	11500/2550/2750	9500/2550/2500
Floor material:	wooden planks 45 mm	wooden planks 45 mm
Platform height, measured from the ground: [mm]	900	950
Drawbar towing eye height: [mm]	830	1000 (± 110)
Axles:	BPW	ATW
Number of axles: [pcs]	3	2
Axle load (on road): [kg]	8000	9000
Axle load (construction): [kg]	9000	9000
Braking system:	pneumatic with EBS	pneumatic with EBS
Suspension:	mechanical BPW	mechanical
Tyres:	235/75 R17,5 (143/141J)	235/75 R17,5 (143/141J)
Maximum speed: [km/h]	100	100
Hydraulic ramps:	yes	yes
Loading hitches: [pcs]	14	9
Side barriers:	yes	yes
Support legs:	2	3

Hydraulic wind lass: towing power 6500kg (optionally 8000kg)

Floorboard: coniferous tree plank – 45mm

Supporting front leg, rotary, mechanically controlled



**PRONAR PC2100, PC2100-1, PC2200, PB2100**

The central axle tandem truck trailer **PRONAR PC2100** is a universal truck trailer. The design makes this trilateral tipper ideally suited to carry many types of cargo – eg. sand, gravel, stone, coal, rubble, feed, grain, sawdust or garbage. Trailer is designed to load 12 euro pallets. Additionally provided mounting brackets on the floor to prevent movement of cargo during transport. Thanks to a special opening system of individual sides. The equipment is very easy to use, allowing for quick and efficient loading with no additional operator intervention.

The central axle tandem truck trailer **PRONAR PC2100-1** is a universal truck trailer. The design makes this trilateral tipper ideally suited to carry many types of cargo – eg. sand, gravel, stone, coal, rubble, feed, grain, sawdust or garbage. Trailer is designed to load 12 euro pallets. Additionally provided mounting brackets on the floor to prevent movement of cargo during transport. Thanks to a special opening system of individual sides. The equipment is very easy to use, allowing for quick and efficient loading with no additional operator intervention.

Trailer **PRONAR PB2100** with a total weight of 10 tons is a vehicle designed for operation with light trucks. The construction of trailer has been adapted to transport any bulk materials (eg. Gravel, sand, debris), but by obtaining inside width 2420 mm there is also the possibility of transporting materials on euro pallets. Placed in the floor holders designed to securely attach cargo straps. Body capacity reaching 10 m<sup>3</sup> and load capacity up to 7000 kg allow the use of trailers for transporting materials of various weights. Thanks to a special opening system of individual sides. The equipment is very easy to use, allowing for quick and efficient loading with no additional operator intervention.

Trailer **PRONAR PC2200** is designed for transport companies using vehicles with lighter construction, prepare for the transport pallet or by volume. Customs seals tarpaulins allows for the establishment of seals and hassle-free international transport. The trailer is universal because loading thanks to the opening of an independent system of tarpaulins it is possible to load a trailer with four sides: from both the sides and back of the fork lift truck and from the top using a crane.

**PRONAR PC2100****PRONAR PB2100****PRONAR PC2200****PRONAR PC2100-1**

TECHNICAL DATA OF STANDARD EQUIPMENT	PC2100	PC2100-1	PB2100	PC2200
Permissible total weight: [kg]	18000	18000	10000	18000
Load capacity: [kg]	12300	12850	7000	13200
Empty weight: [kg]	5700	5150	3100	4800
Load volume: [m <sup>3</sup> ]	12	12	10,1	57
Loading space: [m <sup>3</sup> ]	12,3	12,3	10,1	19,3
Internal length of loading space: [mm]	5100	5100	4190	7800
Internal width of loading space*: [mm]	2410*	2410*	2420	2480*
Sidewall height: [mm]	1000	1000	500+500	2970
Overall dimensions (length/width/height): [mm]	7610/2550/2780	7610/2550/2780	6500/2550/2500**	10210 ± 300/2550/4000
Sides and tailgate height: [mm]	-	-	-	600
Floor/wall thickness: [mm]	5 Hardox / 4 Domex	4 Hardox / 3 Domex	4/2	27 plywood / 25 Al
Platform height, measured from the ground: [mm]	1540	1540	up to 1300 mm	990
Axle brand:	BPW	BPW	-	BPW
Number of axles: [pcs]	2	2	2	2
Axle load: [kg]	9000	9000	-	9000
Breaking system:	pneumatic with EBS	pneumatic with EBS	-	pneumatic with EBS
Suspension:	pneumatic	pneumatic	mechanical	pneumatic
Tyres:	385/65 R 22,5 (160J,K)	385/65 R 22,5 (160J,K)	265/70 R19,5	265/70 R19,5 (160J)
Construction speed: [km/h]	100	100	100	100
Tipping system:	3-side	3-side	-	-
Left sidewall (hydraulic):	-	opened / closed hydraulically	-	-
Loading hitches: [pcs]	-	-	8	-
Telescopic cylinder: (Number of telescopic cylinder sections [pcs] / Piston stroke [mm] / Oil requirement [l] / Working pressure [bar])	6/1875/22/300	6/1875/22/300	-	-

\* width of the loading case suitable for EUROPALET transportation

\*\* height with a cover

**STANDARD EQUIPMENT:****ADDITIONAL EQUIPMENT (OPTIONAL):****PB3100**

Floor: wooden planks 45 mm  
 Axles: 3 x 9t (BPW)  
 Drum brakes  
 ABS (on 2 axles)  
 Mechanical suspension (BPW)  
 Pneumatic brakes with EBS: Knorr-Bremse  
 Pneumatic hand brake  
 Additional power to the EBS system via "stop" lights  
 Tyres 235/75 R17.5 - 143/141J (12 pcs)  
 Drawbar hitch: Ø40  
 Drawbar length: 2400 mm  
 Electric 24V system in accordance with 48 EKG ONZ  
 Side underrun protection in accordance with 89/297/EWG  
 Hydraulic ramp lowering/winch system  
 Ramps width regulated mechanically  
 Mudguards  
 Mudflaps according with 91/226/EWG  
 Fastenings handles in the floor, 14 pieces  
 Wheel chocks + racks  
 Rear support legs, 2 pcs  
 Clearance markings  
 Reflection boards  
 Double-component chemically hardened painting materials, UV-resistant.

Floor: oak 45mm  
 Spare wheel + basket  
 Reflection boards for overdimension loading (with clearance lights)  
 Beacon light  
 Tool box (- 50 l) 1 or 2 (price for one piece)  
 Double-sided floor widening + boards (pine/spruce)  
 Steel case at the front of the trailer for storing broadenings (- 240 l)  
 Sidewalls at the front of the trailer - height 500mm ver I (front wall)  
 Sidewalls at the front of the trailer - height 500mm ver II (front wall + closing front wall)  
 Sidewalls at the front of the trailer - height 500mm ver III (front wall +2 sidewalls + closing rear wall)  
 Sidewalls at the front of the trailer - height 500mm ver IV (front wall +2 sidewalls + closing front wall + closing rear wall)  
 Drawbar hitch: Ø50  
 Hydraulic winch (winch up to 6500 kg (optional: 8000 kg))

**PC2300**

Floor: wooden planks 45 mm (pine/spruce)  
 Axles: 2x9 t (ATW)  
 Mechanical suspension (ATW)  
 Drum brakes  
 ABS (on 1 axle)  
 winching / lowering valve with automatic return to "drive" position (with pneumatic suspension)  
 Pneumatic brakes with EBS: Knorr-Bremse  
 Pneumatic hand brake  
 Additional power to the EBS system via "stop" lights  
 Tyres 235/75 R17.5 - 143/141J (8 pcs)  
 Drawbar hitch Ø50  
 Drawbar towing eye height: 1000 ±110 mm  
 Electric 24V system in accordance with 48 EKG ONZ  
 Side underrun protection in accordance with 89/297/EWG  
 Mechanical ramp lowering/winch system  
 Ramps protection against accidental opening  
 Mudguards  
 Mudflaps in accordance with 91/226/EWG  
 Fastenings handles in the floor: 9 pieces  
 Wheel chocks: 2 pieces  
 Support leg in front of the trailer - 1 piece: rotated, machanical  
 Support legs in rear of the trailer - 2 pieces: rotated, machanical  
 Reflection boards  
 Clearance markings in accordance with 48 EKG ONZ  
 Double-component chemically hardened painting materials, UV-resistant.  
 Colour: RAL9007 (silver)

Floor: oak 45mm  
 Hydraulic ramps  
 ABS on 2 axles  
 Pneumatic suspension (BPW)  
 Spare wheel 1 or 2 pieces  
 Reflection boards for overdimension loading (with clearance lights)  
 Beacon light  
 Tool box (- 50 l) 1 or 2 (price of 1 pcs)  
 Water container (- 30 l) with soap dispenser  
 Double-sided floor widening + boards (pine/spruce):  
 Steel case for storing broadenings(- 310 l)  
 Hydraulic winch (winch up to 6500 kg (optional: 8000 kg)  
 Axles: 2 x 9t (BPW)

**PC2100**

Internal dimensions (length/width/height): 5100x2410x1000 mm  
 Floor: 5 mm Hardox  
 Sidewalls: 4 mm Domex  
 Axles: 2 x 9t (BPW)  
 Drum brakes  
 Pneumatic suspension 2x9 tones (BPW)  
 Braking system: pneumatic with EBS, Knorr-Bremse  
 Additional power to the EBS system via "stop" lights  
 Tyres 385/65 R22.5 (4 pcs)  
 Drawbar hitch: Ø50  
 Hydraulic tipping system - double line  
 Hydraulic feed coupling: 3/4" Hyva  
 Hydraulic return coupling: 1" Hyva  
 Support leg  
 Electric 24V system in accordance with 48 EKG ONZ  
 Clearance markings in accordance with 48 EKG ONZ  
 Sidewalls manually opened with lever on the front side (right side - swinging, left side - swinging and side-opened)  
 Rear wall swinging (opened automatically when tipping)  
 Fastenings handles in the floor: 8 pieces  
 Side underrun protection in accordance with 89/297/EWG  
 Plastic mudguards: 4x1  
 Mudflaps in accordance with 91/226/EWG  
 Bumper in accordance with 2006/20/WE  
 2 ropes limiting the tipping  
 Wheel chocks + racks - 2pcs  
 Mechanical support of the loading case - 2 pcs  
 Ferry tractive handles - 2pcs  
 Reflection boards  
 Double-component chemically hardened painting materials, UV-resistant  
 Chassis color black RAL 9005 PRONAR  
 Sidewalls color orange RAL 2008 PRONAR

Pneumatic brakes with EBS: Haldex  
 Hydraulic couplings feed / return - 1/2" (ISO 7241-1)  
 Platform on the front wall  
 Spare wheel (1 piece)  
 Cover  
 Spare wheel winch  
 Tool box (- 50 l)  
 Water container (- 30 l) with soap dispenser  
 Chain fastening the middle posts  
 Aluminium ladder (length 2m)  
 Shovel

**PC2100-1**

Internal dimensions (length/width/height): 5100x2410x1000 mm  
 Floor: 4 mm Hardox  
 Sidewalls: 3 mm Domex, Domex Wear  
 Drum brakes  
 Axles: 2 x 9t (BPW)  
 Pneumatic suspension 2x9 tones (BPW)  
 Braking system: pneumatic with EBS, Knorr-Bremse  
 Additional power to the EBS system via "stop" lights  
 Tyres 385/65 R22.5 (4 pcs)  
 Drawbar hitch: Ø50  
 Hydraulic tipping system - double line  
 Hydraulic feed coupling: 3/4" Hyva  
 Hydraulic return coupling: 1" Hyva  
 Support leg  
 Electric 24V system in accordance with 48 EKG ONZ  
 Clearance markings in accordance with 48 EKG ONZ  
 Right sidewalls swinging manually opened with lever located on the front wall  
 Left sidewall - Hydroboard, opened/closed by hydraulic cylinders  
 Rear wall swinging (opened automatically when tipping)  
 Fastenings handles in the floor: 8 pieces  
 Side underrun protection in accordance with 89/297/EWG  
 Plastic mudguards: 4x1  
 Mudflaps according with 91/226/EWG  
 Bumper in accordance with 2006/20/WE  
 2 ropes limiting the tipping  
 Wheel chocks + racks - 2pcs  
 Mechanical support of the loading case - 2 pcs  
 Ferry tractive handles-2pcs  
 Reflection boards  
 Double-component chemically hardened painting materials, UV-resistant  
 Chassis color black RAL9005 PRONAR  
 Sidewalls color orange RAL 2008 PRONAR

Pneumatic brakes with EBS: Haldex, Wabco  
 Hydraulic couplings feed / return - 1/2" (ISO 7241-1)  
 Platform on the front wall  
 Spare wheel (1 piece)  
 Spare wheel winch  
 Tool box (- 50 l)  
 Water container (- 30 l) with soap dispenser  
 Cover  
 Shovel



PC2100 – unloading of the trailer. Rear raised wall opened automatically when tipping



PC2100-1 - unloading of the trailer. Left side Wall opened and closed with hydraulic cylinders



PC2100 – left sidewall raised and side-opened

### PB2100

Chassis frame: rectangular made of closed profiles  
 Drawbar type: V- type fixed with regulated supporting spring  
 Internal dimensions (length, width, height mm): 4190x2420x(500+500)  
 Drawbar hitch: fixed Ø40  
 Steering: rotating turntable  
 Braking system: double line pneumatic with EBS (Knorr-Bremse)  
 Crank hand brake  
 24V lighting system  
 Central locking mechanism of side walls  
 Front and rear mudguards  
 Ladder and sidewall steps facilitating the access to the loading case  
 Bumper  
 Nameplate  
 Wheel chocks (2 pcs)  
 Side underrun protection  
 Mechanical support of the loading case  
 Double-component chemically hardened painting materials, UV-resistant.

cover with frame  
 Operator's platform  
 Tool box (- 50 l)  
 Sidewalls fastening string  
 Water container (- 30 l) with soap dispenser  
 Hydraulic tipping system  
 Sidewalls opening supporting springs  
 Spare wheel winch  
 Spare wheel (with a winch)  
 Grain chute spout  
 Tool set

### PC2200

Folding, sliding roof, sliding side curtains  
 Straining cover system  
 Sliding central poles with possibility of disassembly  
 Internal dimensions (length/width/height): 7800x2480x2970 mm  
 Floor: waterproof, antislip plywood - 27 mm  
 Sides and rear tailgate: aluminium - 25 mm  
 Front side: aluminium - 25 mm, additional internal reinforcement of front side up to 1000 mm height  
 Sides and tailgate height: 600 mm  
 Axles 2x9 tons (BPW)  
 Sides opened manually by levers  
 Stairs on rear tailgate  
 Drum brakes  
 Pneumatic suspension 2x9 ton (BPW)  
 Braking system: pneumatic with EBS, Knorr-Bremse  
 Additional power to the EBS system via "stop" lights  
 Tyres 265/70 R19.5 (8 pcs)  
 winching / lowering valve with automatic return to "drive" position  
 Drawbar hitch: Ø50  
 =300 mm regulation of drawbar  
 Ferry tractive handles-4pcs  
 Support legs: 3 pcs  
 3 levels of wooden planks between poles  
 Electric system 24V; accoring with 48 EKG ONZ  
 Side underrun protection in accordance with 89/297/EWG  
 Plastic mudguards: 4x1/4  
 Mudflaps in accordance with 91/226/EWG  
 Bumper in accordance with 2006/20/WE  
 Side and rear rubber bumpers  
 Fastenings handles in the floor: 18 pieces  
 Wheel chocks + racks - 2pcs  
 Reflection boards  
 Additional canvas cover straining expander  
 Double-component chemically hardened painting materials, UV-resistant

Pneumatic brakes with EBS: Haldex  
 Two-sided steel rear door instead of rear wall and cover  
 Spare wheel: 1 or 2 (price of 1 pcs)  
 Fasten for spare wheel from truck (instead of one spare wheel)  
 Spare wheel winch 1 or 2 (price of 1 pcs)  
 Ladder (in option with two-sided rear door)  
 Tool box (- 50 l) 1 or 2 (price of 1 pcs)  
 Water container (- 30 l) with soap dispenser  
 Customs secure fastening rope

PB2100 – spare wheel, optionally equipped under chassis of the trailer



PC2200 – pneumatic braking system with EBS Knorr-Bremse and water container



PB2100 – an example of aggregation with two axles truck





# MONOCOQUE TRAILERS

PRONAR TRAILERS T669, T669/1, T669XL _____	58
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**PRONAR** **36** MONTHS WARRANTY\*

\* Ask Your local Authorized Dealer and Sales Representative or see PRONAR.PL for more details.



The monocoque **PRONAR** trailer **T669** is intended to work under hard conditions. Tight, solid construction of the loading case enables to transport even tiny grains without any additional sealing. The grain hatch placed in the rear wall facilitates unloading and connection to the other more precise and efficient unloading equipment which is very important while transporting low density materials. Tandem suspension ensures the increase of pulling force thanks to additional weight placed on the rear axle. High tonnage load capacity will be well appreciated by all users. Features like high load capacity and load volume, make **PRONAR** trailer **T669/1** perfect choice to even most sophisticated customer's expectations. Trapezoidal shape of the loading case facilitates unloading. Model **T669/1** ensures tipping to the back and to the side, what makes it more functional. Furthermore, it is equipped with hydraulically driven tailgate and with ladder and steps inside the loading case. Solid construction and high quality materials ensure durability and resistance. **T669XL** is the latest model in **PRONAR's** trailer range. The trailer is characterized by large 15,8 t load capacity and 22.6 m<sup>3</sup> load volume. Suspended drawbar, parabolic suspension, 3 t drawbar and strong 406 x 120 brakes ensure safety even in the most difficult mountain areas.



**PRONAR T669**



**PRONAR T669/1**

**PRONAR T669XL**



TECHNICAL DATA OF STANDARD EQUIPMENT	T669	T669/1	T669XL*
Allowable total weight [kg]	20000	20000	21000
Load capacity [kg]	14320	14000	15800
Empty weight [kg]	5680	6000	5200
Load volume with extensions 580/without extensions [m <sup>3</sup> ]	22,7/15	22,7/15	22,6
Loading space [m <sup>2</sup> ]	12,4	12,4	12,9
Loading box inside length [mm]	5500	5500	5700
Loading box inside width [mm]	trapezoid 2200/2250	trapezoid 2200/2250	2240/2300
Dimensions length/width/height [mm]	7255/2550/3160	7255/2550/3160	7760/2550/2930
Sidewall height [mm]	1200+580	1200+580	1750 + 600
Floor/wall thickness [mm]	5/4	5/4	4/4
Platform height, measured from the ground [mm]	1435	1435	1180
Wheel track [mm]	1960	1960	1960
Suspension	parabolic springs	parabolic springs	parabolic springs
Hitch-ring load [kg]	2000	2000	3000
Tyres	385/65 R22,5 RE	385/65 R22,5 RE	385/65R22.5 RE
Maximum speed [km/h]	40	40	40
Tipping system	1-side	2 or optional 3 sides	1-side
Telescopic cylinder (piston stroke/oil requirement/working pressure)	2400 mm/29L/200bar	2400 mm/29L/200bar	2400 mm/29L/200bar
Minimum tractor power requirement [KM/kW]	104/76,4	104/76,4	104/76,4
Tipping angle (backwards) [°]	50	50/45	50

\* Technical data for trailer without extensions 600 mm

## STANDARD EQUIPMENT

## ADDITIONAL EQUIPMENT (OPTIONAL):

### T669

Monocoque loading case with vertical ribs reinforcing the sidewalls  
 Tipping system: one-sided (backward)  
 Two windows with PLEXI on the front wall of the load case  
 Chassis frame made of high strength steel with rectangular closed profiles  
 Hydraulically lifted tailgate with automatic pressing and locking system  
 Tandem suspension with 4 parabolic springs with 1325 mm wheelbase with fixed axles equipped in drum brakes 406x120  
 Grain chute, with a locking system in the rear wall  
 Folded ladder and steps facilitating the access to the loading case  
 Sidewall extensions height 580 mm made of steel 2mm thickness  
 Drawbar type: universal rigid to couple with lower or upper hitch of the tractor with rubber shock absorbers  
 Drawbar hitch: rotary with Ø50 towing eye  
 Drawbar support: hydraulic scissor-type with movable leg and hydraulic security lock  
 Braking system: Double line pneumatic with manual braking force regulator  
 Parking brake with crank  
 Rear foldable underrun protection  
 Rear mudguards made of plastic  
 Wheel chocks + galvanized racks (2pcs)  
 Installation of 12V lighting (bulb) with rear electric socket, hermetic connections, contour lighting  
 Spiral connecting cable of the lighting installation  
 Rear lamps with protective grating  
 Spiral connecting cable of the lighting installation  
 Telescopic tipping cylinder on articulated suspension  
 Tipping system: hydraulic with automatic cut-off valve and thick safety steel rope  
 Plastic mudguards - behind the rear wheel  
 Mechanical support of the loading case  
 Double-component chemically hardened painting materials, UV-resistant  
 Rear protection, folded  
 Chassis painting colour: red RAL3000 PRONAR  
 Loading case painting colour: green RAL 6010 PRONAR

Drawbar hitch: rigid with Ø40mm towing eye to couple with upper hitch of the tractor  
 Design with 3t universal, rigid drawbar for connecting to the lower or upper hitch of the tractor, amortised with steel springs and straight hydraulic support  
 Drawbar hitch: rigid ball-type K80mm to couple with lower hitch of the tractor  
 Design with 3t universal rigid drawbar for connecting to the lower or upper hitch of the tractor, amortised steel springs, and hydraulic folding support  
 Single line pneumatic braking system  
 Rear steering axle passively controlled with hydraulic steering lock system (axles longer than standard) hydraulic system requires a pair of external tractor hydraulic sockets  
 Braking system: double line pneumatic with automatic (ALB)  
 Rear sockets for hydraulic installation and brakes for second trailer  
 Rear underrun protection homologated according to directive WE type, foldable  
 Rear grain chute  
 Hydraulic brake system  
 Sidewall extensions height 580mm made of steel 2mm thickness and front wall extension made of wire mesh 30x30 window, with steel blanking plate, with stabilizing bar  
 Sidewall extensions height 1000mm (instead of 580mm) increasing load volume up to 27,7m<sup>3</sup>, made of steel 2mm thickness and folded front wall extension made of wire mesh 30x30 window, with stabilizing bar  
 Rear automatic hitch  
 Rolled canvas cover with a frame for walls extensions with height 580mm  
 Plastic mudguards (additional) - in front of the front wheel  
 Side underrun protection  
 Tool box  
 Tyres 385/65 R22.5  
 Tyres 425/65 R22.5  
 Tyres 445/65 R22.5  
 Tyres 500/60-22.5  
 Tyres 500/60 R22.5  
 Tyres 550/60-22.5  
 Tyres 560/60 R22.5  
 Tyres 600/50-22.5 - the width of the trailer exceeds 2550mm  
 Tyres 600/50R22.5 - the width of the trailer exceeds 2550mm  
 Tyres 600/55-22.5 - the width of the trailer exceeds 2550mm  
 Tyres 600/R55-22.5 - the width of the trailer exceeds 2550mm  
 Spare wheel (separately)  
 Wheels with tires: 500/60-22.5; 500/60R22.5; 600/50-22.5; 600/50R22.5; 600/55-22.5; 600/55R22.5 (trailer width exceeds 2550mm - in the version with steering axle)  
 Triangle for slow moving vehicles  
 Shock absorber for falling potatoes - two sets of rubber belts, 2,3m of length each, mounted on the sidewall extensions (side extensions necessary)  
 Non standard colours according to RAL CALSSIC codes \*  
 \* doesn't apply for units on stock

### T669/1

Monocoque loading case with vertical ribs reinforcing the sidewalls  
 Monocoque loading case with two flaps (right side) with central locking me  
 Monocoque loading case with the possibility of tipping back and to the right side with two central locking flaps on the right side  
 The tipping system - two-sided (backwards and to the side)  
 Two windows with PLEXI on the front wall of the load case  
 Sidewall extensions height 580 mm made of steel 2mm thickness with stabilizing bar  
 Chassis frame made of high strength steel with rectangular closed profiles  
 Hydraulically lifted tailgate with automatic pressing and locking system  
 Tandem suspension with 4 parabolic springs with 1325 mm wheelbase with fixed axles equipped in drum brakes 406x120  
 Drawbar type: universal rigid to couple with lower or upper hitch of the tractor with rubber shock absorbers  
 Drawbar hitch: rotary with Ø50 towing eye  
 Drawbar support: hydraulic scissor-type with movable leg and hydraulic security lock  
 Braking system: Double line pneumatic with manual braking force regulator  
 Parking brake with crank  
 Rear foldable underrun protection  
 Plastic mudguards - behind the rear wheel  
 Wheel chocks + galvanized racks (2 pcs)  
 Installation of 12V lighting (bulb) with rear electric socket, hermetic connections, contour lighting  
 Rear lamps with protective grating  
 Telescopic tipping cylinder on articulated suspension  
 Tipping system: hydraulic with automatic cut-off valve and thick safety steel rope  
 Mechanical support of the loading case  
 Folded ladder and steps facilitating the access to the loading case  
 Grain chute, with a locking system in the rear wall  
 Double-component chemically hardened painting materials, UV-resistant  
 Chassis painting colour: red RAL3000 PRONAR; red RAL3000 PRONAR  
 PRONAR  
 Loading case painting colour: green RAL 6010 PRONAR

Drawbar hitch: rigid with Ø40mm towing eye to couple with upper hitch of the tractor  
 Drawbar hitch: ball-type K80mm to couple with lower hitch of the tractor  
 Design and build with 3 tones hitch ring load, fixed to couple with lower or upper hitch of the tractor, amortised with steel spring and with telescopic drawbar support with a gear  
 Single line pneumatic braking system  
 Design and build with 3 tones hitch ring load, fixed to couple with lower or upper hitch of the tractor, amortised with steel spring and with hydraulic drawbar support (folded)  
 Hydraulic brake system  
 Design and build with 3 tones hitch ring load, fixed to couple with lower or upper hitch of the tractor, amortised with steel spring and with hydraulic drawbar support (straight leg)  
 Rear steering axle passively controlled with hydraulic steering lock system (axles longer than standard) hydraulic system requires a pair of external tractor hydraulic sockets  
 Braking system: double line pneumatic with automatic (ALB) braking power controller  
 Rear sockets for hydraulic installation and brakes for second trailer  
 Rear underrun protection homologated according to directive WE type, foldable  
 Rear grain chute  
 Sidewall extensions height 580mm made of steel 2mm thickness and front wall extension made of wire mesh 30x30 window, with steel blanking plate, with stabilizing bar  
 Monocoque loading case with two flaps (left side) with central locking mechanism allowing for tipping backward and to the left  
 Monocoque loading case with two flaps (left and right side) with central locking mechanism allowing for tipping backwards, to the left and right side  
 Rear automatic hitch  
 Plastic mudguards that protect the front wheels  
 Plastic mudguards (additional) - in front of the front wheel  
 Side underrun protection  
 Tool box  
 Operator's platform for side walls extensions with height 580mm  
 Rolled canvas cover with a frame for walls extensions with height 580mm  
 Tyres 385/65 R22.5  
 Tyres 425/65 R22.5  
 Tyres 445/65 R22.5  
 Tyres 500/60-22.5  
 Tyres 500/60 R22.5  
 Tyres 550/60-22.5  
 Tyres 560/60 R22.5  
 Tyres 600/50-22.5 - the width of the trailer exceeds 2550mm  
 Tyres 600/50R22.5 - the width of the trailer exceeds 2550mm  
 Tyres 600/55-22.5 - the width of the trailer exceeds 2550mm  
 Spare wheel (separately)  
 Wheels with tires: 500/60-22.5; 500/60R22.5; 600/50-22.5; 600/50R22.5; 600/55-22.5; 600/55R22.5 (trailer width exceeds 2550mm - in the version with steering axle)  
 Triangle for slow moving vehicles  
 Shock absorber for falling potatoes - two sets of rubber belts, 2,3m of length each, mounted on the sidewall extensions (side extensions necessary)  
 Non-standard painting colours\*  
 \* doesn't apply for units on stock

Sprung drawbar with steel spring



Strong and robust chassis on parabolic springs facilitates transport in rough terrain



Rear lamps with protective grating





Tipping to the right side at an angle of 45 degrees on T669/1 trailer.



Hydraulic tailgate lifting system.



Tipping backwards at an angle of 50 degrees.

## STANDARD EQUIPMENT

## ADDITIONAL EQUIPMENT (OPTIONAL)

### T669XL

Monocoque loading case with profiled sidewalls and reinforced upper edges of the sidewalls  
 Chassis frame made of rectangular closed profiles made of high strength steel  
 Tandem suspension with 4 parabolic springs, 1360 mm wheelbase with fixed axles equipped with drum brakes 406x120  
 Universal sprung drawbar with height adjustment to couple with lower and upper hitch of the tractor  
 Spiral connection cable of the lightning installation  
 Drawbar hitch: rotary with Ø50 towing eye  
 Drawbar support: telescopic with 2-section gear  
 Braking system: double line pneumatic with manual braking force regulator  
 Parking brake with crank  
 Rear underrun protection, foldable  
 Metal shields over wheels ( without mudguards)  
 Wheel chocks + galvanized racks (2 pcs)  
 Installation of 12V lighting (bulb)with rear electric socket, hermetic connections, contour lighting  
 Rear lamps with protective grating  
 Tipping system: hydraulic with automatic cut-off valve and thick safety steel rope  
 Telescopic tipping cylinder on the articulated suspension  
 Foldable ladder and steps facilitating the access to the loading case  
 Service support of the loading case  
 Hydraulically lifted tailgate with automatic pressing and locking system  
 Window with a mesh and PLEXI cover on the front wall of the load case  
 Rubber seal for tailgate  
 Grain hatch with lever in a rear wall  
 Double-component chemically hardened painting materials, UV-resistant  
 Chassis painting colour: red RAL3000 PRONAR  
 Loading case painting colour: green RAL 6010 PRONAR

Extensions: from high quality, strong, laser welded PF600mm profiles, made of profiled steel; the front wall window with mesh and a PLEXI cover ; hinges enabling folding side extensions; increasing the capacity to 30.3 [m³]  
 Rigid drawbar with Ø40mm eye for connecting to the upper hitch of the tractor  
 Rigid drawbar with Ø50mm eye for connecting to the lower hitch of the tractor  
 Rear grain chute  
 Braking system: double line pneumatic or hydraulic or single line pneumatic  
 Crank hand brake  
 Rigid drawbar ball-type K80mm for connecting to the lower hitch of the tractor  
 Installation of 12V lighting (bulb)with rear electric socket, hermetic connections, contour lighting  
 Single line pneumatic braking system  
 Rear lamps with protective grating  
 Hydraulic brake system  
 Double line pneumatic braking system with ALB  
 Hydraulic straight drawbar support with shut-off ball valve  
 Hydraulic folded drawbar support with shut-off ball valve  
 Rear discharge chute on the width of the chute  
 Spare wheel (separately)  
 Tyres: 385/65 R22,5;  
 Tyres: 445/65 R22,5;  
 Tyres: 550/60-22,5;  
 Tyres: 560/60 R22,5  
 Tyres: 600/50 R22,5-the width of the trailer exceeds 2550mm  
 Tyres: 600/55-22,5-the width of the trailer exceeds 2550mm  
 Tyres: 600/55 R22,5-the width of the trailer exceeds 2550mm  
 Tyres: 620/50 R22,5-the width of the trailer exceeds 2550mm  
 Tyres: 650/50 R22,5the width of the trailer exceeds 2550mm  
 Triangle for slow moving vehicles-  
 Non-standard painting colours\*  
 \* doesn't apply fo units on stock

Tandem suspension on parabolic springs



Rear lights with protective grille



T669XL - Universal drawbar with steel springs and height adjustment. Possibility to connect with the tractor's lower or upper hitch (without approval)

Crank handbrake





The mono-coque **PRONAR** trailer **T679** is relatively widely used. It can be applied for granular materials like grains, corn, green forage and root crops. Internal surface ensure that agricultural materials will not be destroyed during transport. Furthermore, certain equipment elements like extension side walls, hydraulically driven tailgate whether grain hatch make work even more effective and productive. The **T679** is durable construction which can be used in under hard conditions for many years.

**PRONAR** trailer **T679M** is the new mono-coque trailer in **PRONAR's** offer. Mono-coque **PRONAR** trailer **T679M** is an universal product that is a result of upgrading the **PRONAR T679** trailer. Loading box, in which the sidewall is made of one steel sheet (no middle rib), gives the trailer a modern look and retains the high strength parameters. Standard trailer is equipped with covers, that protect the loading box against dirt while driving, and protects the lower frame of the trailer during loading and unloading. In the back flap of **T679M** a proven safety lock system on the hydraulic cylinders is used, which prevents unexpected opening of the flap and ensure its correct pressure. Additionally, fitted in the standard a rubber gasket provides a 100% of tightness of the trailer, for every kind of cargo. Thanks to this the trailer **PRONAR T679M** can be widely use in the agriculture (for the transport of grain, corn, rape, green mass or root crops), but also in the construction (transport of gravel or sand) and to other sectors of the economy. Trailer **T679M** has a rich standard equipment, including front and rear wheels fender/ mudguards, two-wire pneumatic braking system, ladders and steps on board, a large window in the front wall, the side lighting and scissor-like drawbar. In trailer **T679M** the lighting system with LED lamps with high vitality and resistance to moisture and dirt is used. In addition the back lamps are protected from the damage by the metal grills.

### PRONAR T679

(Load volume with extensions 15,8m<sup>3</sup>)

### PRONAR T679M

Sidewall made of one sheet of steel ( no middle rib) gives a trailer modern look and high strength of parameters



#### TECHNICAL DATA OF STANDARD EQUIPMENT

	<b>T679</b>	<b>T679M</b>
Allowable total weight [kg]	16000	16200
Load capacity [kg]	12000	12000
Empty weight [kg]	4000	4200
Load volume with extensions 580/without extensions [m <sup>3</sup> ]	15,8/10,3	13,2
Loading space [m <sup>2</sup> ]	10	10,4
Loading box inside length [mm]	4500	4800
Loading box inside width [mm]	trapezoid 2200/2250	trapezoid 2140/2200
Dimensions length/width/height [mm]	6259/2550/2866	6797/2550/2460
Sidewall height [mm]	1000+580	1200
Floor/wall thickness [mm]	5/4	4/4
Platform height, measured from the ground [mm]	1240	1260
Wheel track [mm]	1860	1960
Suspension	Parabolic springs	Parabolic springs
Hitch-ring load [kg]	1950	1950
Tyres	385/65 R22,5 RE	385/65 R22,5 RE
Maximum speed [km/h]	40	40
Tipping system	1-side	1-side
Telescopic cylinder (piston stroke/oil requirement/working pressure)	1980 mm/18L/200bar	1700 mm/13L/200bar
Minimum tractor power requirement [KM/kW]	83,2/61	83,2/61
Tipping angle (backwards) [°]	50	50



Universal drawbar to connect with upper and lower hitch of the tractor

Telescopic cylinder

Loading box with profiled walls and reinforced upper rim (T679M)

### STANDARD EQUIPMENT

### ADDITIONAL EQUIPMENT (OPTIONAL):

#### T679

Tipping system - single-sided (backward)  
 Mono-coque loading case with vertical ribs reinforcing the sidewalls  
 Hydraulically lifted tailgate with automatic pressing and locking system  
 Rear protection: homologated, rigid  
 Chassis frame made of high strength steel with rectangular closed profiles  
 Tandem suspension with 4 parabolic springs with 1325mm wheelbase with fixed axles equipped in drum brakes 400x80  
 Spiral connection cable of the lightning installation  
 Drawbar type: universal rigid to couple with lower or upper hitch of the tractor  
 Drawbar hitch: rotary with Ø50 towing eye  
 Drawbar support: straight hydraulic leg with ball cut-off valve  
 Braking system: double line pneumatic with manual braking force regulator  
 Parking brake with crank  
 Telescopic tipping cylinder on the articulated suspension  
 Plastic mudguards - behind the rear wheel  
 Wheel chocks + galvanized racks (2 pcs)  
 Installation of 12V lighting (bulb) with rear electric socket, hermetic connections, contour lighting  
 Rear lamps with protective grating  
 Tipping system: hydraulic with automatic cut-off valve and thick safety steel rope  
 Mechanical support of the loading case  
 Folded ladder and steps facilitating the access to the loading case  
 Grain hatch with lever in a rear wall  
 Sidewall extensions height 580 mm made of steel 2mm thickness  
 Double-component chemically hardened painting materials, UV-resistant  
 Chassis painting colour: red RAL3000 PRONAR  
 Loading case painting colour: green RAL 6010 PRONAR

Drawbar hitch: rigid with Ø40mm towing eye to couple with upper hitch of the tractor  
 Plastic mudguards (additional) - in front of the front wheel  
 Drawbar hitch: rigid ball-type K80mm to couple with lower hitch of the tractor  
 Drawbar support: hydraulic scissor - type leg with cut-off valve  
 Tuba for documents  
 Drawbar support: hydraulic scissor - type leg with manual pump with cut-off valve  
 Braking system: double line pneumatic with automatic (ALB)  
 Combined braking system (double line pneumatic + hydraulic with electric hydraulic safety valve and regulator of braking forces)  
 Combined braking system (double line pneumatic with ALB + hydraulic)  
 Rear sockets for hydraulic installation and brakes for second trailer  
 Axles with drum brakes Ø406x120  
 Hydraulic brake system  
 Rear grain chute  
 Sidewall extensions height 580mm made of steel 2mm thickness and wire mesh 30x30 window on the front wall extension  
 Rear manual hitch, amortized  
 Rear automatic hitch  
 Spare wheel (separately)  
 Rolled canvas cover with frame and foldable central pipe with balcony (only for extension 580mm)  
 Side underrun protection  
 Tyres 385/65 R22.5  
 Tyres 425/65 R22.5  
 Tyres 500/60-22.5  
 Tyres 500/60 R22.5  
 Tyres 550/45-22.5  
 Tyres: 550/45 R22.5  
 Single line pneumatic braking system  
 Warning triangle for slow moving vehicle  
 Tool box  
 Shock absorber for falling potatoes - two sets of rubber belts, 2,3m of length each, mounted on the sidewall extensions (side extensions necessary)  
 Non standard colours according to RAL CALSSIC codes

#### T679M

Tipping system - single-sided (backward)  
 Mono-coque loading case with profiled walls and reinforced upper sidewalls edge  
 Hydraulic tailgate with automatic pressing system  
 Hydraulically lifted tailgate with automatic pressing and locking system  
 Rubber seal on the tailgate  
 Window on the front wall of the loading case, made of wire mesh window with plexiglass cover  
 Chute grain in the rear wall with a lock  
 Chassis frame made of high strength steel with rectangular closed profiles  
 Tandem suspension with 4 parabolic springs with 1325 mm wheelbase with fixed axles equipped in drum brakes 400x80  
 Spiral connection cable of the lightning installation  
 Telescopic tipping cylinder on the articulated suspension  
 Drawbar type: universal rigid to couple with lower or upper hitch of the tractor  
 Drawbar hitch: rotary with Ø50 towing eye  
 Drawbar support: hydraulic scissor-type with movable leg and hydraulic security lock  
 Braking system: double line pneumatic with manual braking force regulator  
 Parking brake with crank  
 Rear foldable underrun protection  
 Front and rear mudguards made of plastic and steel mudguards over the wheels  
 Wheel chocks + galvanized rack (2 pcs)  
 Grain hatch with lever in a rear wall  
 Installation of 12V lighting (bulb) with rear electric socket, hermetic connections, contour lighting  
 Rear lamps with protective grating  
 Tipping system: hydraulic with automatic cut-off valve and thick safety steel rope  
 Load platform service support  
 Folded ladder and steps facilitating the access to the loading case  
 Double-component chemically hardened painting materials, UV-resistant  
 Chassis painting colour: red RAL3000 PRONAR  
 Plastic mudguards (behind the rear wheel, in front of the front wheel) and a metal guard above the wheels  
 Rear protection: homologated, folded  
 Loading case painting colour: green RAL 6010 PRONAR

Drawbar hitch: rigid with Ø40mm towing eye to couple with upper hitch of the tractor  
 Drawbar hitch: rigid with Ø50mm towing eye to couple with lower hitch of the tractor  
 Drawbar hitch: rigid ball-type K80mm to couple with lower hitch of the tractor  
 Braking system: double line pneumatic with manual braking force regulator  
 Rear sockets for hydraulic installation and brakes for second trailer  
 Rear grain chute  
 Rear manual hitch, amortized  
 Rear automatic hitch  
 Tool box  
 Side underrun protection  
 Tyres 385/65 R22.5  
 Tyres 385/55 R22.5 RE  
 Tyres 385/55 R22.5  
 Tyres 425/65 R22.5  
 Tyres 500/45-22.5  
 Tyres 500/60-22.5  
 Tyres 500/60 R22.5  
 Warning triangle for slow moving vehicle  
 Extensions: from high-quality, strong, laser-welded profiles PF600mm, made of profiled steel; with a mesh window on the front wall covered with PLEXI ; with hinges enabling folding side extensions; increasing capacity 19,4 [m³]  
 Single line pneumatic braking system  
 Hydraulic brake system  
 Combined braking system (double line pneumatic with ALB + hydraulic)  
 Non-standard painting colours\*  
 \* doesn't apply to the units on stock

Loading box with vertical reinforced ribs (T679)

Tipping angle 50°

Hydraulic drawbar support





**PRONAR** trailer **T700** is an excellent monocoque tandem trailer. Because of the large capacity, it is designed to work in harsh conditions. The distinguishing feature of this trailer is turning axle, which makes maneuver much easier. What is for sure important for users, trailer is equipped with sprung drawbar which increases the comfort of the farmers who work with high loads. Hydraulic lifting tailgate with auto-lock when closing it also improves quality of use. The buyers can easily customize the product to their your needs thanks to a large number of optional equipment.

**PRONAR** trailer **T700M** is a modernized version of the largest tandem trailer offered by **PRONAR**. In this issue through the use of a new type of suspension and axles equipped with brakes for high load capacity, it Allowable laden mass increased by 2 tons, up to 23 tons. New side wall design makes that center of gravity of container – in comparison with the previous version of the trailer – is lower. This fact clearly increases the stability of the trailer. The tailgate is equipped with security system with locks on hydraulic cylinders, which guarantees locking without the possibility of an unexpected opening. The use of rubber seal, ensures a tight seal box during transport of various cargoes. With all these innovations this trailer is the best equipped trailer of all trailers in our offer.

Trailer **T700XL** are designed to carry grain, corn, rapeseed, green mass and root crops. The trailer is equipped with a rear hydraulic tailgate which allows for convenient, efficient discharge of transported agricultural products. Trapezoid shape of loading box with smooth sidewalls facilitates unloading and reduces the risk of damage of transported products. Compact and robust design allows operation in harsh field conditions.

The **T700M/1** monocoque trailer - with rear and bilateral side tipping - is normally connected to the tractor with a suspended drawbar, which reduces unpleasant jerks while protecting both the driver and the machine.

One of the most important advantages of the trailer is the structure of the load box, which enables the side tipping of the transported materials. This is especially useful in halls where rear tipping is limited by the height of the roof.

**PRONAR T700**



**PRONAR T700M**



**PRONAR T700M/1**



**PRONAR T700XL**



Loading box with profiled sides, strengthened with ribs

**T700** - Universal rigid drawbar suspended with springsteel feather and height adjustment. Possibility to connect with the lower or upper hitch of the tractor

**T700** - hydraulic rear tailgate





**T700M** - Side underrun protection



**T700M** -Tipping angle (backwards) - 55 °



**T700M** - Ladder facilitating the access to the loading case

TECHNICAL DATA OF STANDARD EQUIPMENT	T700	T700M	T700M/1	T700XL
Allowable total weight [kg]	21000	23000	20000	24000
(Construction) allowable total weight [kg]	24000	24000	23000	-
Load capacity [kg]	14430	16090	15740	17700
Empty weight [kg]	6570	6910	7260	6300
Load volume with extensions 830/without extensions [m³]	34,3/23	35/ 23	35 / 32 / 23	26,6
Loading space [m²]	14,7	14,7	15,2	13,7
Loading box inside length [mm]	6694	6694	6700	6700
Loading box inside width [mm]	2180/2240	2242/2302	2230/2300	2240/2300
Dimensions length/width/height [mm]	8500/2550/3900	8500/ 2650/3750	8610/2670/3020	8520/2550/3040
Sidewall height [mm]	1500+830	1500+800	1500/800 lub 600	1750
Floor/wall thickness [mm]	4/4	4/4	4/4	4/4
Platform height, measured from the ground [mm]	1475	1325	1520	1290
Wheel track [mm]	2000	2100	2100	1960
Suspension	Parabolic springs	Parabolic springs	Parabolic springs	Parabolic springs
Hitch-ring load [kg]	3000	3000	4000	4000
Tyres	550/60-22,5	550/60-22,5	550/60-22,5	385/65R22.5 RE
Maximum speed [km/h]	40	40	40	40
Tipping system	1-side	1-side	2 or optional 3 sides	1-side
Telescopic cylinder (piston stroke/oil requirement/working pressure)	2990 mm/40L/200bar	2990 mm/40L/200bar	2990mm/40L/200bar	2990mm/40L/200bar
Minimum tractor power requirement [KM/kW]	124,8/91,7	136,7/100,5	136,7/100,5	136,7/100,5
Tipping angle (backwards) [°]	55	55	55/35	55

### STANDARD EQUIPMENT

### ADDITIONAL EQUIPMENT (OPTIONAL):

#### T700

Monocoque loading case with profiled walls with vertical ribs reinforcing the sidewalls  
 Tipping system - single-sided (backward)  
 Hydraulically lifted rear wall with automatic pressing and locking system  
 Chassis frame made of high strength steel with rectangular closed profiles  
 Tandem suspension with 4 parabolic springs with 1500 mm wheelbase with rigid axles equipped in drum brakes 406x140  
 Drawbar type: universal rigid amortized by steel springs with height adjustment to couple with lower or upper hitch of the tractor  
 Spiral connection cable of the lightning installation  
 Drawbar hitch: rotary with Ø50 towing eye  
 Drawbar support: telescopic with 2-section gear  
 Braking system: Double line pneumatic with manual braking force regulator  
 Parking brake with crank  
 Rear underrun protection homologated foldable  
 Front and rear mudguards made of plastic  
 Wheel chocks + galvanized racks (2 pcs)  
 Installation of 12V lighting (bulb) with rear electric socket, hermetic connections, contour lighting  
 Rear lamps with protective grating  
 Tipping system: hydraulic with automatic cut-off valve and thick safety steel rope  
 Mechanical support of the loading case  
 Telescopic tipping cylinder on the articulated suspension  
 Folded ladder and steps facilitating the access to the loading case  
 Window mesh with PLEXI cover on the front wall of the load case  
 Grain hatch with lever in a rear wall  
 Double-component chemically hardened painting materials, UV-resistant  
 Chassis painting colour: red RAL3000 PRONAR  
 Loading case painting colour: green RAL 6010 PRONAR

Drawbar hitch: rigid with Ø40mm towing eye to couple with upper hitch of the tractor  
 Drawbar hitch: rigid with Ø50mm towing eye to couple with lower hitch of the tractor  
 Drawbar hitch: rigid ball-type K80mm to couple with lower hitch of the tractor  
 Single line pneumatic braking system  
 Boogie axles with leaf springs and rear axle hydraulic blockade  
 Hydraulic brake system  
 Drawbar support: hydraulic straight with cut-off valve  
 Drawbar support: hydraulic folded leg with cut-off valve  
 Passively steered rear axle with hydraulic turning blockade  
 Braking system: double line pneumatic with automatic (ALB)  
 Rear sockets for hydraulic installation and brakes for second trailer  
 A set of steel mudguards over the wheels - the width does not exceed 2550mm  
 Sidewall extensions height 830mm made of steel 2mm thickness and folded front wall extension made of wire mesh 30x30 window  
 Rear grain chute  
 Rear manual hitch, amortized  
 Rear automatic hitch  
 Tyres 560/60R22,5  
 Tyres 445/65 R22.5  
 Tyres 600/50 R22.5 - width of the trailer exceeds 2550mm  
 Tyres 600/55-22.5 - width of the trailer exceeds 2550mm  
 Tyres 600/55R22,5-width of the trailer exceeds 2550mm  
 Tyres 600/55-26.5 - width of the trailer exceeds 2550mm  
 Tyres 700/50-26.5 - width of the trailer exceeds 2550mm  
 Tyres 710/45-26.5 - width of the trailer exceeds 2550mm  
 Tyres 710/50R26,5-width of the trailer exceeds 2550mm  
 Spare wheel (separately)  
 Warning triangle for slow moving vehicle-  
 Shock absorber for falling potatoes - three sets of rubber belts - 2.3m + 2.3m + 1.8m, mounted on the sidewall extensions (side extensions necessary)  
 Non standard colours according to RAL CALSSIC codes \*\*  
 \*\* doesn't apply for units on stock



## STANDARD EQUIPMENT

## ADDITIONAL EQUIPMENT (OPTIONAL):

### T700M

Monocoque loading case with profiled walls and reinforced upper sidewalls edge  
 Tipping system - single-sided (backward)  
 Hydraulically lifted rear wall with automatic pressing and locking system  
 Chassis frame made of high strength steel with rectangular closed profiles  
 Tandem suspension with 4 parabolic springs with 1810 mm wheelbase with fixed axles equipped in drum brakes 406x140  
 Chassis frame made of rectangular closed profiles made of high strength steel  
 Window mesh with PLEXI cover on the front wall of the load case  
 Drawbar type: universal rigid amortized by steel leaf springs with height adjustment to couple with lower or upper hitch of the tractor  
 Drawbar hitch: rotary with Ø50 towing eye  
 Drawbar support: telescopic with 2-section gear  
 Braking system: double line pneumatic with manual braking force regulator  
 Parking brake with crank  
 Spiral connection cable of the lightning installation  
 Rear protective bumper homologated, foldable  
 Front and rear mudguards made of plastic and steel mudguards over the wheels  
 Wheel chocks + galvanized racks (2 pcs)  
 Telescopic tipping cylinder on the articulated suspension  
 Installation of 12V lighting (bulb) with rear electric socket, hermetic connections, contour lighting  
 Rear lamps with protective grating  
 Tipping system: hydraulic with automatic cut-off valve and thick safety steel rope  
 Mechanical support of the loading case  
 Folded ladder and steps facilitating the access to the loading case  
 Grain hatch with lever in a rear wall  
 Double-component chemically hardened painting materials, UV-resistant  
 Chassis painting colour: red RAL3000 PRONAR  
 Rear protective apron over the entire width of the trailer  
 Loading case painting colour: green RAL 6010 PRONAR

Drawbar hitch: rigid with Ø40mm towing eye to couple with upper hitch of the tractor  
 Drawbar hitch: rigid with Ø50mm towing eye to couple with lower hitch of the tractor  
 Drawbar hitch: rigid ball-type K80mm to couple with lower hitch of the tractor  
 Drawbar support: hydraulic straight with cut-off valve  
 Drawbar support: hydraulic folded leg with cut-off valve  
 Extensions: from high-quality, strong, laser-welded profiles PF800mm, made of profiled steel; with a mesh window on the front wall covered with PLEXI; increasing capacity 35 [m³]  
 Single line pneumatic braking system  
 Hydraulic brake system  
 Passively steered rear axle with hydraulic turning blockade  
 Braking system: double line pneumatic with automatic (ALB)  
 Rear sockets for hydraulic installation and brakes for second trailer  
 Tool box  
 Side underrun protection  
 Rollover canvas cover with frame and operator's platform for walls extensions with height 800 mm  
 Rear grain chute:  
 Rear manual hitch, amortized  
 Rear automatic hitch  
 Tyres 445/65R22.5  
 Tyres 600/55R22.5  
 Tyres 710/45-26.5  
 Tyres 710/50R26.5  
 Tyres 800/45R26.5  
 Tyres 560/60 R22.5 - width of the trailer exceeds 2550mm  
 Tyres 600/50 R22.5 - width of the trailer exceeds 2550mm  
 Tyres 600/55-22.5 - width of the trailer exceeds 2550mm  
 Tyres 600/55-26.5 - width of the trailer exceeds 2550mm  
 Tyres 700/50-26.5 - width of the trailer exceeds 2550mm  
 Tyres 800/45-26.5 - width of the trailer exceeds 2550mm  
 Spare wheel (separately)  
 Installation of 12V lighting (bulb) with rear electric socket, hermetic connection, contour lighting  
 Warning triangle for slow moving vehicle  
 Shock absorber for falling potatoes - three sets of rubber belts - 2,3m + 2,3m + 1,8m, mounted on the sidewall extensions (side extensions necessary)  
 Non standard colours according to RAL CLASSIC codes \*  
 \*doesn't apply to units on stock

### T700M/1

Load box with a shell structure, with profiled side walls, with a reinforced upper edge of the walls  
 Load box with the possibility of tipping to the rear and to the right side with two hydraulically pressed flaps on the right side  
 Selection of the tipping direction by means of two pins protected against improper operation  
 Box tipping system - two-sided (to the back and to the side)  
 Window mesh with PLEXI cover on the front wall of the load case  
 Hydraulically lifted tailgate with automatic clamping and locking  
 Tailgate rubber seal  
 Chassis frame welded from rectangular closed profiles made of high-strength structural steel  
 Tandem suspension on 4 parabolic springs, with equalizing arms, with a wheelbase of 1810mm, with rigid axles equipped with drum brakes, dimensions Ø406x140 mm  
 Universal drawbar, rigid, steel spring amortized, with height adjustment, to be connected with the lower or upper hitch of the tractor  
 Rotary drawbar hitch with a Ø50mm eye  
 Telescopic drawbar support with two-stage gear  
 Double line pneumatic braking system with manual braking force regulator  
 Parking brake with crank  
 Installation of 12V (LED) lighting, with a rear electric socket, with hermetic connections, with outline lighting  
 Rear lighting lamps with grilles to prevent damage  
 Connecting cable, spiral, lighting installation  
 Hydraulic system of tipping with an automatic cut-off valve limiting tipping, with thick securing ropes  
 Telescopic cylinder of the tipping on the articulated sling  
 Folding ladder and side steps facilitating access to the load box  
 Grain chute, with a blockade, in the rear wall  
 Service support of the load box  
 Two wheel chocks placed in galvanized pockets  
 Plastic fenders (behind the rear wheel, in front of the front wheel) and a metal cover over the wheels  
 Rear protection device (bumper) - homologated, foldable  
 Rear spray flap across the entire width of the trailer  
 A paint system with high anti-corrosion resistance with the use of two-component chemically hardened painting materials that provide high durability of paint coatings and resistance to UV  
 Chassis painting color - gray RAL7021 PRONAR  
 Wall painting color: green RAL6010 PRONAR

Load box with the possibility of tipping to the rear and to the left side, with two hydraulically pressed flaps on the left side  
 Rear tipping box, left and right, with two pairs of hydraulically pressed flaps on both sides  
 Extensions: made of high-quality, strong, laser-welded PF600mm profiles, made of profiled sheets; with a grille window and a PLEXI cover on the front extension; increasing the capacity to 32 [m³]  
 Extensions: made of high-quality, strong, laser-welded PF800mm profiles, made of profiled sheets; with a grille window and a PLEXI cover on the front extension; increasing the capacity to 35 [m³]  
 Drawbar hitch: rigid with Ø40 mm eye for connecting with the upper hitch of the tractor (DMC reduced to 23000 kg)  
 Drawbar hitch: fixed ball K80mm to be connected with the lower hitch of the tractor  
 Hydraulic drawbar support with scissors with movable foot and securing hydraulic lock  
 Passively steered rear axle with a hydraulic turning lock system  
 Braking system: single line pneumatic with manual braking force regulator  
 Braking system: double line pneumatic with automatic (ALB) braking force regulator  
 Braking system "Premium", double line pneumatic with automatic (ALB) braking force regulator  
 Hydraulic braking system  
 Rear outlets for hydraulics, brakes, to the second trailer  
 Rear discharge chute at the width of the discharge chute  
 Tool box  
 Side protection (covers)  
 Rear manual hitch (V. Orlandi)  
 Rear automatic hitch (V. Orlandi)  
 Rear automatic hitch (Rockinger)  
 Tarpaulin rolled to the side, with a frame with a central hanging pipe, with a balcony, for extensions with a height of 600 mm  
 Wheels with tires: 445 / 65R22.5  
 Wheels with tires: 560 / 60R22.5; 600 / 50R22.5; 600 / 55-22.5; 600 / 55R22.5; 600 / 55-26.5; 700 / 50-26.5; 710 / 45-26.5; 710 / 50R26.5 (trailer width exceeds 2550mm)  
 Spare wheel loose  
 Warning triangle for slow-moving vehicles  
 Painting colours according to the RAL CLASSIC colour marking system for industrial applications, by specifying the word RAL CLASSIC and four digits from the palette

Suspended drawbar with steel springs



Foldable ladder



Window with PLEXI on the front wall of the load case and side steps to facilitate access to the load case





**T700XL** - dyszel amortyzowany sprężynami stalowymi



**T700XL** - Składana drabinka



**T700XL** - Okno z przezroczystej PLEXI na przedniej ścianie skrzyni ładunkowej i stopnie burtowe ułatwiające dostęp do skrzyni ładunkowej

### STANDARD EQUIPMENT

#### T700XL

Monocoque loading case with profiled sidewalls and reinforced upper edges of the sidewalls  
 Tipping system - single-sided (backward)  
 Hydraulically lifted rear wall with automatic pressing and locking system  
 Window mesh with PLEXI cover on the front wall of the load case  
 Chassis frame made of rectangular closed profiles made of high strength steel  
 Rubber seal for tailgate  
 Spiral connection cable of the lightning installation  
 Telescopic tipping cylinder on the articulated suspension  
 Tandem suspension with 4 parabolic springs, 1500 mm wheelbase with fixed axles equipped in drum brakes 406x120  
 Universal sprung drawbar with height adjustment to couple with lower or upper hitch of the tractor  
 Drawbar hitch: rotary with Ø50 towing eye  
 Drawbar support: telescopic with 2-section gear  
 Braking system: double line pneumatic with manual braking force regulator  
 Parking brake with crank  
 Rear underrun protection, foldable  
 Metal shields over wheels without plastic mudguards  
 Wheel chocks + galvanized racks (2 pcs)  
 Installation of 12V lighting (bulb) with rear electric socket, hermetic connections, contour lighting  
 Rear lamps with protective grating  
 Tipping system: hydraulic with automatic cut-off valve and thick safety steel rope  
 Service support of the loading case  
 Foldable ladder and steps facilitating the access to the loading case  
 Double-component chemically hardened painting materials, UV-resistant  
 Chassis painting colour: red RAL3000 PRONAR  
 Loading case painting colour: green RAL 6010 PRONAR

### ADDITIONAL EQUIPMENT (OPTIONAL):

Drawbar hitch: rigid ball-type K80mm to couple with lower hitch of the tractor  
 Single line pneumatic braking system  
 Drawbar support: hydraulic straight with cut-off valve  
 Drawbar support: hydraulic folded leg with cut-off valve  
 Hydraulic brake system  
 Extensions: from high quality, strong, laser welded PF600mm profiles, made of profiled sheets; with a mesh window on the front wall covered with PLEXI ; with hinges enabling folding side extensions; increasing the capacity to 34.8 [m3]  
 Installation of 12V lighting (LED) with rear electric socket, hermetic connection, contour lighting  
 Braking system: double line pneumatic with automatic (ALB)  
 Rear grain chute:  
 Tyres 445/65R22.5  
 Tyres 550/60-22.5  
 Tyres 560/60R22.5  
 Tyres 385/65R22.5  
 Tyres 600/55R22.5  
 Tyres 600/50R22.5 - width of the trailer exceeds 2550mm  
 Tyres 600/55-22.5 - width of the trailer exceeds 2550mm  
 Tyres 620/50R22.5 - width of the trailer exceeds 2550mm  
 Tyres 650/50R22.5 - width of the trailer exceeds 2550mm  
 spare wheel (separately)  
 Warning triangle for slow moving vehicle  
 Tube for documents  
 Non-standard painting colours\*  
 \* doesn't apply for units on stock



**T700M**



T700M/1



T700XL

TRIDEM AXLE  
**PRONAR TRAILER T682**



**PRONAR** trailer **T682** is one of the largest agricultural trailers on the market today. Load capacity of 21 tons meets the requirements of large farms. The trailer is fully automatic – hydraulic rear wall closing by the usage of clamping hooks ensures trouble-free operation. Hydraulic power system of the trailer allows it to aggregate with tractors of smaller capacity of hydraulic pumps. Self-steered swivel axle system improves handling, increases safety and significantly reduces tire wear. Minimum tractor power requirement is approx. 180 hp. Excellent price-performance ratio.



**PRONAR T682**

**TECHNICAL DATA OF STANDARD EQUIPMENT**

**T682**

Allowable total weight (technically): [kg]	33000
Permissible total weight: [kg]	30000
Load capacity: [kg]	21000
Empty weight: [kg]	9000
Load volume without extensions: [m <sup>3</sup> ]	22
Loading space: [m <sup>2</sup> ]	17,8
Loading case inside length: [mm]	8000
Loading case inside width: [mm]	trapezoid: 2200/2250
Dimensions: length/width/height: [mm]	9900/2550/3330
Sidewall height: [mm]	1200
Floor/wall thickness: [mm]	5/4
Platform height, measured from the ground: [mm]	1495
Wheel track: [mm]	2100
Suspension:	parabolic springs
Hitch-ring load: [kg]	3000
Tyres:	385/65 R22.5 RE
Maximum speed: [km/h]	40
Tipping system:	1-side
Hydraulic supply:	seperate tank, pump
Tipping cylinder (piston stroke/oil requirement/working pressure)	2990mm/72L/200bar
Tractor power requirement: [hp/kW]	182/133.8
Tipping angle (backwards): [°]	50

Self-supporting hydraulic system of the trailer allows the trailer to be aggregated with tractor of lower oil tank capacity

Two tipping cylinders.  
Tipping angle 50°

The system of self steering axles improves driveability, increases the safety and significantly reduces tyre wear



**STANDARD EQUIPMENT :****ADDITIONAL EQUIPMENT (OPTIONAL):****T682**

Monocoque loading case with profiled walls with vertical ribs reinforcing the sidewalls  
 Tipping system - single-sided (backward)  
 Hydraulically lifted tailgate controlled from the tractor cab by a switch with automatic pressing and locking system  
 Chassis frame made of high strength steel with rectangular closed profiles  
 Drawbar type: universal fixed amortized by steel leaf springs to couple with lower or upper hitch of the tractor  
 Spiral connection cable of the lightning installation  
 Drawbar hitch: rotary with Ø50 towing eye  
 Drawbar support: telescopic with 2-section gear  
 Tridem suspension with 6 parabolic springs with 1525 mm wheelbase, with central fixed axle, front and rear axle passively steered with hydraulic turning blockade, with fixed axles equipped in drum brakes 406x140  
 Parking brake with crank  
 Braking system: double line pneumatic with manual braking force regulator  
 Rear underrun protection homologated according to directive WE type, foldable  
 Front and rear mudguards made of plastic  
 Wheel chocks + galvanized racks (2 pcs)  
 Installation of 12V lighting (bulb) with rear electric socket, hermetic connections, contour lighting  
 Rear lamps with protective grating  
 Tipping system: hydraulic with own oil tank, pump and electric distributor with automatic cut-off valve and thick safety steel rope, steered from tractor's cabin by a switch  
 Telescopic tipping cylinder on the articulated suspension  
 Telescopic PTO shaft  
 Mechanical support of the loading case  
 Folded ladder and steps facilitating the access to the loading case  
 Windows on the front wall of the loading case made of plexiglass  
 Grain hatch with lever in a rear wall  
 Double-component chemically hardened painting materials, UV-resistant  
 Chassis painting colour: red RAL3000 PRONAR  
 Loading case painting colour: green RAL 6010 PRONAR

Drawbar towing hitch rigid with Ø40 mm towing eye to couple with upper hitch of the tractor  
 Drawbar towing hitch rigid with Ø50 mm towing eye to couple with lower hitch of the tractor  
 Drawbar towing hitch rigid ball-type K80 mm to couple with lower hitch of the tractor  
 Drawbar support- hydraulic straight with cut-off valve  
 Drawbar support- hydraulic folded leg with cut-off valve  
 Hydraulic brake system  
 Braking system double line pneumatic with automatic (ALB) braking speed controller  
 Rear sockets for hydraulic installation and brakes for second trailer  
 Rear grain chute  
 Rear automatic hitch  
 Extensions height 580 mm enlarging load volume to 32m<sup>3</sup> made of steel 2 mm  
 Extensions height 700 mm enlarging load volume to 35m<sup>3</sup> made of steel 2 mm  
 Tyres 385/65R22.5  
 Tyres 425/65R22.5  
 Tyres 600/50-22.5 - width of the trailer exceed 2550 mm  
 Tyres 445/65R22.5  
 Tyres 600/55R22.5 - width of the trailer exceed 2550 mm  
 Tyres 550/60-22.5 - width of the trailer exceeds 2550 mm  
 Tyres 600/50 R22.5 - width of the trailer exceed 2550 mm  
 Tyres 600/55-22.5 - width of the trailer exceed 2550 mm  
 Spare wheel (separately)  
 Steel mudguard above 550/60-22, 600/50R22,5, 600/55-22.5 wheels  
 shock absorber for falling potatoes - three sets of rubber belts, 2,3m of length each, mounted on the sidewall extensions (trailer must have extensions)  
 Slow-moving vehicle triangle  
 Non-standard painting colours\*  
 \*doesn't apply to units on stock

Loading box of 22 m<sup>3</sup>



The **PRONAR T8724** trailer is intended for large farms looking for high performance and machine efficiency. The **T8724** model has a tridem suspension with a fixed central axle and two actively steered axles for significantly easier manoeuvring. The suspension is reinforced with six parabolic springs with equalisation arms. Efficient braking is ensured thanks to double-line pneumatic brakes with an automatic braking force regulator. Dimensions of the loading case (8700 mm in length, 2300 mm in width and 1500 mm in height) enable the transport of cargo with a total mass of 24 tons. Optional equipment includes 800-mm aluminium sidewall extensions increasing the capacity of the trailer to 45 m<sup>3</sup>. Wired remote enables convenient control of the rear tailgate and other hydraulic functions. Trailer can be fitted to the user needs and requirements thanks to the extensive range of optional equipment (e.g. reversing camera, tipping to the right or left, hydraulic suspension).



**PRONAR T8724**

**STANDARD EQUIPMENT :**

**ADDITIONAL EQUIPMENT (OPTIONAL):**

**T8724**

- Monocoque loading case with profiled walls with five vertical ribs reinforcing the sidewalls, with reinforced upper edge, with interior tensioning ropes
  - Tipping system - single-sided (backward), with thick securing ropes
  - Telescopic tipping cylinder on the articulated suspension
  - Window mesh with PLEXI cover on the front wall of the load case
  - Rubber seal for tailgate
  - Extensions height 400mm, made of lightweight aluminum sheets inserted into steel pillars, fastened with steel crossbars; increasing capacity to 37 [m<sup>3</sup>]; with a mesh window on the front wall covered with PLEXI; front extension vertical
  - Chassis frame made of rectangular closed profiles 300x200, made of high strength steel
  - Tridem suspension with 6 parabolic springs with 1810 mm wheelbase, with compensating swingarm, with central fixed axle, front and rear axle passively steered, (rod for connecting to the tractor - one, on the left side of the drawbar) axles equipped in drum brakes 406x140
  - Central hydraulic system with distributor (the system requires constant connection to one pair of tractor hydraulic outlets and a electric 3-pin socket), controlled by a wired remote from the tractor cabin, performing the following functions:
    - - hydraulic damping and height adjustment of the drawbar for connection to the lower or upper hitch of the tractor
    - - hydraulically lifted rear wall with automatic pressing and locking system
    - - hydraulic tipping of the loading case with automatic angle limiting valve,
    - - activation of trailer work lights
  - Drawbar hitch: rigid with Ø 50mm towing eye (3000kg), to couple with lower hitch of the tractor
  - Drawbar support: hydraulic scissor-type with hydraulic security lock (the system requires constant connection to one pair of tractor hydraulic outlets)
  - Braking system: „Premium“ double line pneumatic with automatic (ALB) (homologated)
  - Pneumatic parking brake
  - Installation of 12V (LED-PRONAR) lighting, with a rear electric socket, with hermetic connections, with outline lighting
  - Two rear work lights
  - Long “FR type” lighting bar (no possibility of using a rear hitch) with protective grating to prevent damage to the rear lamps
  - Rear lamps with protective grating to prevent damage
  - Spiral connection cable of the lightning installation
  - Foldable ladder and steps facilitating the access to the loading case
  - Grain hatch with lever in a rear wall
  - Service support of the loading case
  - Wheel chocks + galvanized racks (2 pcs)
  - Aluminum mudguard covering wheels from above with mudguards behind the rear wheel and in front of the front wheel
  - Rear underrun protection homologated, foldable
  - Hinged rear mudflap
  - Double-component chemically hardened painting materials, UV-resistant
  - Chassis painting color: gray RAL7021 PRONAR
  - Loading case color: green RAL6010 PRONAR
- Drawbar towing hitch rigid with Ø40 mm (3000kg) towing eye to couple with upper hitch of the tractor
  - Drawbar towing hitch rigid with Ø50 mm (3000kg) towing eye to couple with lower hitch of the tractor
  - Drawbar towing hitch rigid ball-type K80 mm (4000kg) to couple with lower hitch of the tractor ((parameters of standard equipment in lv.1,2,3,4,15 increased by 1000 kg)
  - Drawbar support: telescopic with 2-section gear
  - Rear sockets for hydraulic installation and brakes for second trailer
  - Rear axle with hydraulic turning blockade
  - Hydraulic tridem suspension with six steel half-springs; with 1810mm wheelbase, with central fixed axle, front and rear axle passively steered, (rod for connecting to the tractor - one, on the left side of the drawbar), rear axle with hydraulic turning blockade, axles equipped in drum brakes 406x140, hydraulic shock absorption and height adjustment with front axle lift function (suspension height adjustment function requires momentary connection to one pair of tractor hydraulic outputs; The axle lift function requires a constant connection to one of the tractor’s hydraulic line)
  - Passively steered axles (front and rear) with a hydraulic turning lock system (requires a constant connection to one of the tractor’s hydraulic line)
  - Passively steered rear axle with a hydraulic turning lock system (requires a constant connection to one of the tractor’s hydraulic line)
  - Extensions height 800mm (400-440), made of lightweight aluminum sheets inserted into steel pillars, fastened with steel crossbars; increasing capacity to 45 [m<sup>3</sup>]; with a mesh window on the front wall covered with PLEXI; front extension: bottom vertical, top inclined;
  - Side rolled canvas cover, with a belt tensioners, with frame and foldable central pipe, with a wide balcony (for versions: without extensions, 400mm extension)
  - Camarou canvas cover, sliding front-to-back; (for versions: without extensions, extensions 400mm)
  - Central hydraulic system with standard equipment and its own oil tank, pump driven from the tractor’s PTO and distributor (the system does not require connection to the tractor’s hydraulics)
  - Protection against accidental opening of the tailgate
  - Rear outlets of one pair of hydraulic hoses (system requires permanent connection to one pair of tractor hydraulic outputs)
  - Wheels with tires (ECE homologation): 560/60R22,5 (trailer width 2550mm)
  - Wheels with tires (ECE homologation): 600/50R22,5; 600/55-22,5; 600/55R22,5; 620/50R22,5; 600/55-26,5; 600/55R26,5; 700/50-26,5; 710/45-26,5; 710/50R26,5 (trailer width exceeds 2550mm)
  - Spare wheel (separately)
  - Rear sockets for one pair of hydraulic installation wires (system requires permanent connection to one pair of tractor hydraulic outputs)
  - Rear manual hitch (V. Orlandi, Walterscheid; Scharmuller)
  - Rear automatic „small“ hitch (V. Orlandi, Walterscheid; Rockinger; ATS)
  - Rear automatic „large“ hitch (Rockinger, Unimar)
  - Rear discharge chute at the width of the discharge chute
  - Tool box
  - Tube for documents
  - Painting colours according to the RAL CLASSIC colour marking system for industrial applications, by specifying the word RAL CLASSIC and four digits from the palette

Hydraulic system of the tailgate with rubber sealing gasket



Hydraulic drawbar suspension



Installation of 12V LED lighting with marker lights



**TECHNICAL DATA OF STANDARD EQUIPMENT****T8724**

Technically permissible total weight [kg]	35000
EU permissible total weight [kg]	33000
Load capacity [kg]	23750
Empty weight [kg]	9250
Load capacity (without additional sidewalls / sidewalls 400 / sidewalls 800) [m <sup>3</sup> ]	29 / 37 / 45
Loading case inside length [mm]	8700
Loading case inside width [mm]	2240/2300
Height of the sidewalls [mm]	1500
Dimensions without additional sidewalls (length / width / height) [mm]	10550 / 2550 / 3100
Distance from base to the platform [mm]	1500
Thickness of floor/sidewalls [mm]	5/4
Wheel track [mm]	2000
Suspension	parabolic springs
Hitch-ring load [kg]	3000
Tyres	560/60R22,5
Maximum speed [km/h]	40
Tipping system	1-side
Telescopic cylinder: stroke / oil requirement / pressure [mm /l/bar]	3250 / 75 / 200
Minimum tractor power requirement [KM/kW]	182/133,8
Tipping angle of the loading case (rear) [°]	55

Loading box of 45 m<sup>3</sup>



# POWER PUSH TRAILERS

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PRONAR

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**MONTHS  
WARRANTY\***

\* Ask Your local Authorized Dealer  
and Sales Representative or see  
PRONAR.PL for more details.



Innovative unloading system! The first polish **PRONAR** trailer **T900**, which allows to unload various agricultural materials through moving the front wall of the load box. The design is suited for low-rise buildings, large land slopes or working in strong winds, where standard tipping trailers are not suitable. Monocoque box with capacity of 36m<sup>3</sup> and solid construction allows to carry both heavy materials (earth and gravel) and bulk (grain and seed).

For easy and complete emptying the trailer in the last phase of unloading, sliding wall is lifted up by a pair of hydraulic cylinders. **PRONAR T900** is a combination of modern design and versatility.

Innovative unloading system! **PRONAR** trailer **T902** allows unloading goods through moving the front wall of the load box. The design is suited for low-rise buildings, large land slopes or to work in strong winds, where standard tipping trailers are not suitable. Comparing to **PRONAR T900**, trailer **T902** is "shorter" and built on tandem axle. Front axle is fixed and rear axle is equipped with active steering for less tyre wear and easy manoeuvring.



**PRONAR T900**



**PRONAR T902**

**TECHNICAL DATA OF STANDARD EQUIPMENT**

	<b>T900</b>	<b>T902</b>
Allowable total weight (construction) [kg]	35000	24000
Allowable total weight [kg]	33000	23000
Load capacity [kg]	23500	16000
Empty weight [kg]	9500	7000
Load volume [m <sup>3</sup> ]	36.57	30,8
Loading space [m <sup>2</sup> ]	19.7	16.8
Loading box inside length [mm]	8320	7100
Loading box inside width [mm]	2370	2370
Length/Width/Height [mm]	10510/2550/3543	9100/ 2550/3500
Sidewall height [mm]	2000	2000
Floor/wall thickness [mm]	6/4	4/4
Platform height, measured from the ground [mm]	1500	1500
Wheel track [mm]	2100	2100
Suspension	parabolic springs	parabolic springs
Hitch-ring load [kg]	3000	3000
Tyres	445/65R22,5	
Maximum speed [km/kW]	40	40
Unloading system	movable + tipping	movable + tipping
Oil requirement [l]	40	30
Working pressure [bar]	200	200
Minimum tractor power requirement [hp/kW]	182/133.8	124.8/91.7
Movable wall tipping angle [°]	55	55

Push off wall with seals



Axles with active steering





Hydraulically driven side flap with automatic locking system



Hydraulic tailgate with automatic blocking system



Tridem suspension on 6 parabolic springs

## STANDARD EQUIPMENT

## ADDITIONAL EQUIPMENT (OPTIONAL):

### T900

Sealed movable wall  
 Sliding wall provided with elastomeric seals ensuring better sealing  
 Chassis frame welded from rectangular closed profiles made of high-strength steel  
 Hydraulically driven tailgate with automatic blocking system  
 Drawbar with rotary towing eye Ø50  
 Drawbar support: telescopic with 2-section gear  
 Drawbar: upper/lower universal transportation hitch with steel leaf springs shock absorption  
 Tridem suspension on 6 parabolic springs with 1810 mm axle track, compensatory swingarms, fixed middle axle and active steering of front and rear axle  
 Hydraulic turning block with manual pump filling system  
 Axles equipped with drum brakes Ø406x140  
 Turning system facilitated by tractor's hitch system according to ISO 26402 (the trailer's not equipped in tractor's turning system)  
 Braking system: double line pneumatic with mechanical braking force regulator  
 Pneumatic hand brake  
 Rear underrun protection, folded  
 Wheel chocks and racks  
 A set of plastic mudguards  
 Rear lighting system with side marker lights and bars protecting against damage  
 Electric system with lateral commercial road lighting  
 Hydraulic movable front wall with automatic tipping system and tipping angle of 55° in the last phase of unloading  
 Hydraulic pipes marked with colors to better identification of their destiny  
 A ladder and side steps facilitating access to the loading case  
 Control windows on a movable wall  
 Grain hatch with lever in rear wall  
 Double-component chemically hardened painting materials  
 Frame painting colour: red RAL3000 PRONAR  
 Loading case painting colour: green RAL6010 PRONAR

Drawbar towing hitch: fixed with towing eye Ø40mm to couple with upper hitch of the tractor  
 Drawbar towing hitch: fixed with towing eye Ø50mm to couple with lower hitch of the tractor  
 Drawbar towing hitch: ball-type K80mm  
 Drawbar support: hydraulic folded with cut-off ball valve  
 Additional Pronar sidewall extensions height 400 mm  
 Additional Pronar sidewall extensions height 500 mm (divided 400 mm+100 mm)  
 Hydraulic suspension with 6 parabolic half-springs, wheel track 1810mm, fixed central axle, front and rear axles actively steered, stabilized and regulated hydraulically, with front axle lifting (width of the trailer exceeds 2550mm with all written wheel sizes)  
 Braking system: single line pneumatic or hydraulic braking system  
 Braking system: double line pneumatic with automatic braking force regulator (ALB)  
 Braking system: double line pneumatic with automatic braking force regulator (hydraulic ALB) for hydraulic suspension  
 Steel and plastic mudguards for tyres exceeding 2550 mm of the width of the trailer (all wheels other than standard)  
 Hydraulically driven side flap made of 500mm profiles with automatic locking system on the left or right side  
 Hydraulically driven side flap made of 500mm profiles with automatic locking system on both sides of the trailer  
 Grain chute  
 Tyres 550/60-22,5  
 Tyres 600/50-R22,5  
 Tyres 600/55-26,5  
 Tyres 600/55-22,5  
 Tyres 700/50-26,5  
 Tyres 710/45-26,5 trailer width exceeds 2550mm for all wheels other than standard. Mechanical or hydraulic suspension)  
 Rolled canvas cover - (front-back)  
 Plastic tube for documents  
 Warning triangle

### T902

Sealed movable wall  
 Sliding wall provided with elastomeric seals ensuring better sealing  
 Chassis frame welded from rectangular closed profiles made of high-strength steel  
 Hydraulically driven tailgate with automatic blocking system  
 Drawbar with rotary towing eye Ø50  
 Drawbar support: telescopic with 2-section gear  
 Drawbar: upper/lower universal transportation hitch with steel leaf springs shock absorption  
 Tandem suspension on 4 parabolic springs with 1810 mm axle track, compensatory swingarms, with fixed front axle and active steering of rear axle.  
 Hydraulic turning block with manual pump filling system  
 Turning system facilitated by tractor's hitch system according to ISO 26402 (the trailer's not equipped in tractor's turning system)  
 Axles with drum brakes Ø406x140  
 Braking system: double line pneumatic with mechanical braking force regulator  
 Crank hand brake  
 Rear underrun protection, folded  
 A set of plastic front and rear mudguards + metal mudguard above wheels  
 Rear lighting system with side marker lights and bars protecting against damage  
 Wheel chocks and racks  
 Hydraulic movable front wall with automatic tipping system and tipping angle of 55° in the last phase of unloading  
 Electric system with side marker lights  
 Hydraulic pipes marked with colors for better identification of their destiny  
 A ladder and side steps facilitating access to the loading case  
 Control windows on a movable wall  
 Grain hatch with lever in rear wall  
 Double-component chemically hardened painting materials  
 Frame painting colour: red RAL3000 PRONAR  
 Loading case painting colour: green RAL6010 PRONAR

Drawbar towing hitch: fixed with towing eye Ø40mm to couple with upper hitch of the tractor  
 Drawbar towing hitch: fixed with towing eye Ø50mm to couple with lower hitch of the tractor  
 Drawbar towing hitch: ball-type K80mm  
 Drawbar support: hydraulic folded leg with ball cut-off valve  
 Braking system: double line pneumatic with (ALB)  
 Braking system: double line pneumatic with (hydraulic ALB) for hydraulic suspension  
 Steel and plastic mudguards for tyres exceeding 2550 mm of the width of the trailer  
 Hydraulic suspension with 4 parabolic half-springs with axle base 1810mm, fixed front axle and rear axle actively steered with hydraulic stabilization.  
 Hydraulically driven side flap made of 500mm profiles with automatic locking system on the left or right side  
 Hydraulically driven side flap made of 500mm profiles with automatic locking system on both sides of the trailer  
 Grain chute  
 Tyres 550/60-22,5  
 Tyres 600/50-R22,5  
 Tyres 600/55-26,5  
 Tyres 600/55-22,5  
 Tyres 700/50-26,5  
 Tyres 710/45-26,5 trailer width exceeds 2550mm for all wheels other than standard. Mechanical or hydraulic suspension)  
 Rolled canvas cover - (front-back)  
 Plastic tube for documents  
 Warning triangle



Trailer **T900XL** is equipped with tridem suspension. It is equipped with a push off wall for free unloading. The advantages of the push system are especially appreciated when using the trailer in low-rise buildings or on slopes. The system consists of a movable part of the floor and a front wall sliding over it. In the first place, the material placed in the rear of the box is pushed out, and the load located on the moving part of the floor is moved with it to the rear.

When the floor is moved to the end, the load on it is pushed against the front wall. Suspension in the trailer **T900XL** is amortised with six parabolic springs with equalisation arms, and the first and third axles are actively steered. The optional equipment also includes hydraulic suspension (increasing the comfort of use) and a vertical spreading adapter for manure. These mechanisms make the trailer extremely functional. A distinctive aspect of the **T900XL** is its huge loading space. With additional 450-mm extensions, it is up to 60 m<sup>3</sup> (49 m<sup>3</sup> without extensions) Due to the high load capacity (23.5 t), the trailer is very useful in large-area farms.

## PRONAR T900XL



### TECHNICAL DATA OF STANDARD EQUIPMENT

	T900XL	T900XL (EU)
Allowable total weight (construction): [kg]	37000	36000
Allowable total weight: [kg]	34000	(EU homologation) 30000
Technical load capacity: [kg]	24730	23730
Load capacity: [kg]	21730	(EU homologation) 20730
Technical load volume: [kg]	12270	12270
Load volume: [m <sup>3</sup> ]	49	49
Loading space: [m <sup>2</sup> ]	23	23
Loading box inside length: [mm]	9700	9700
Loading box inside width: [mm]	2370	2370
Length/width/height: [mm]	12000/2550/3490	12000/2550/3490
Sidewall height: [mm]	2000	2000
Floor/wall thickness: [mm]	5/4	5/4
Platform height, measured from the ground: [mm]	1440	1440
Wheel track: [mm]	2100	2100
Suspension:	Parabolic springs	Parabolic springs
Hitch ring load: [kg]	4000	3000
Tyres:	445/65R22,5	445/65R22,5 (ECE homologation)
Maximum speed: [km/h]	40	40
Unloading system:	Movable	Movable
Oil requirement: [L]	80	80
Minimum tractor power requirement: [hp/kW]	220	220

Sliding wall provided with elastomeric seals ensuring better sealing



Tridem suspension





Fixed universal hitch hydraulically amortised



Hydraulically driven tailgate with automatic blocking system

## STANDARD EQUIPMENT

## ADDITIONAL EQUIPMENT (OPTIONAL)

### T900XL

Sealed movable wall  
 Sliding wall provided with elastomeric seals ensuring better sealing  
 Window PLEXI on the front wall of the loading case  
 Chassis frame welded from rectangular closed profiles made of high-strength steel  
 Hydraulically driven tailgate with automatic blocking system  
 Tridem suspension on 6 parabolic springs with 1810 mm axle track, compensatory swingarms, fixed middle axle and active steering of front and rear axle  
 Drawbar: upper/lower universal transportation hitch with steel leaf springs shock absorption  
 Drawbar towing hitch: ball type K80mm (4000kg) to couple with lower hitch of the tractor  
 Drawbar support: telescopic with 2-section gear  
 Hydraulic turning block with manual pump filling system  
 System of connecting the steering system with the tractor according to ISO 26402 (the trailer is not equipped with a tractor steering system)  
 Axles for 60 km/h, drum brakes Ø406×140  
 Turning system facilitated by tractor's hitch system according to ISO 26402 (the trailer's not equipped in tractor's turning system)  
 Pneumatic hand brake  
 Wheel chocks and racks  
 A set of plastic mudguards and steel mudguards over the wheels  
 Rear lighting system with side marker lights and bars protecting against damage  
 Electric system with lateral commercial road lighting  
 Hydraulic pipes marked with colors to better identification of their destiny  
 A ladder and side steps facilitating access to the loading case  
 Double-component chemically hardened painting materials  
 Frame painting colour: green RAL6010 PRONAR  
 Loading case painting colour: grey RAL7021 PRONAR

Drawbar towing hitch: fixed with towing eye Ø50mm (3000kg) to couple with lower hitch of the tractor (load capacity of trailer was reduced by 1000 kg)  
 Drawbar towing hitch: fixed with towing eye Ø40mm (3000kg) to couple with upper hitch of the tractor (load capacity of trailer was reduced by 1000 kg)  
 Drawbar towing hitch: ball with towing eye Ø50mm (3000kg) to couple with lower hitch of the tractor (load capacity of trailer was reduced by 1000 kg)  
 Drawbar towing hitch: ball with towing eye K80mm (3000kg) to couple with lower hitch of the tractor (load capacity of trailer was reduced by 1000 kg)  
 Additional Pronar sidewall extensions height 400 mm  
 Additional Pronar sidewall extensions height 500 mm (divided 400 mm+100 mm)  
 Hydraulic suspension with 6 parabolic half-springs, wheel track 1810mm, fixed central axle, front and rear axles actively steered with hydraulic stabilization  
 Braking system: single line pneumatic or hydraulic braking system  
 Braking system: double line pneumatic with automatic braking force regulator (ALB)  
 Braking system: double line pneumatic with automatic braking force regulator (hydraulic ALB) for hydraulic suspension  
 Steel and plastic mudguards for tyres exceeding 2550 mm of the width of the trailer  
 Hydraulically driven side flap made of 500mm profiles with automatic locking system on the left or right side  
 Hydraulically driven side flap made of 500mm profiles with automatic locking system on both sides of the trailer  
 Tyres 445/65 R22.5 – trailer width exceeds 2550mm (without metal mudguard, only with plastic ones)  
 Tyres 550/60-22.5 – width of the trailer exceeds 2550mm  
 Tyres 560/60R-22.5 – width of the trailer exceeds 2550mm  
 Tyres 600/55-22.5 – width of the trailer exceeds 2550mm  
 Tyres 620/50R-22.5 – width of the trailer exceeds 2550mm  
 Tyres 700/50-26.5 – width of the trailer exceeds 2550mm  
 Tyres 710/50R-26.5 – width of the trailer exceeds 2550mm  
 Tyres 710/45-26.5 – width of the trailer exceeds 2550mm  
 Spare wheel (separately) 445/65 R22.5  
 Spare wheel (separately) 600/55-26.5  
 Spare wheel (separately) 600/55- R22.5  
 Spare wheel (separately) 600/50 R22.5  
 Spare wheel (separately) 700/50-26.5  
 Spare wheel (separately) 710/45-26.5  
 Rolled canvas cover – Cramaro  
 Plastic tube for documents  
 Warning triangle  
 Available other colors according to RAL CLASSIC codes (required RAL CLASSIC name and 4 digits from the color palette)

### T900XL (EU)

Made in accordance with European type-approval (according to the regulation of the European Parliament and the Council of the European Union nr 167/2013)  
 Sealed movable wall  
 Sliding wall provided with elastomeric seals ensuring better sealing  
 Window PLEXI on the front wall of the loading case  
 Chassis frame welded from rectangular closed profiles made of high-strength steel  
 Tridem suspension on 6 parabolic springs with 1810 mm axle track, compensatory swingarms, fixed middle axle and active steering of front and rear axle  
 Hydraulically driven tailgate with automatic blocking system  
 Drawbar towing hitch: fixed type 50 mm (3000kg) to couple with lower hitch of the tractor  
 Drawbar support: telescopic with 2-section gear  
 Drawbar: upper/lower universal transportation hitch with steel leaf springs shock absorption  
 Hydraulic turning block with manual pump filling system  
 Axles for 60 km/h, drum brakes Ø406×140  
 Turning system facilitated by tractor's hitch system according to ISO 26402 (the trailer's not equipped in tractor's turning system)  
 Pneumatic hand brake  
 Rear underrun protection according to 70/221/EWG (2006/20/WE)  
 Wheel chocks and racks  
 A set of plastic mudguards and steel mudguards over the wheels  
 Rear lighting system with side marker lights and bars protecting against damage  
 Electric system with lateral commercial road lighting  
 Braking system: double line pneumatic with automatic braking force regulator (ALB)  
 Hydraulic pipes marked with colors to better identification of their destiny  
 A ladder and side steps facilitating access to the loading case  
 Double-component chemically hardened painting materials  
 Frame painting colour: green RAL6010 PRONAR  
 Loading case painting colour: grey RAL7021 PRONAR

Drawbar towing hitch: fixed with towing eye Ø40mm (3000kg) to couple with lower hitch of the tractor  
 Drawbar towing hitch: fixed with towing eye Ø50mm (3000kg) to couple with lower hitch of the tractor  
 Drawbar towing hitch: ball with towing eye K80mm (3000kg) to couple with lower hitch of the tractor  
 Hydraulic folding drawbar support with shut-off ball valve  
 Sidewalls extensions height 400 mm, increasing the capacity to 58.7 (for all wheels the height of the trailer does not exceed 4000mm)  
 Sidewalls extensions height 500 mm (400mm+100mm) increasing the capacity to 61.2 [m<sup>3</sup>] (for all wheels except 445/65R22.5 the height of the trailer does not exceed 4000mm)  
 Plastic mudguards for behind the rear wheel, in front of the front wheel and a metal mudguards protecting the wheels from above for non-standard wheels  
 Wheel with tyres homologation ECE:  
 Tyres 550/60-22.5 – width of the trailer exceeds 2550mm  
 Tyres 560/60R-22.5 – width of the trailer exceeds 2550mm  
 Tyres 600/55-22.5 – width of the trailer exceeds 2550mm  
 Tyres 620/50R-22.5 – width of the trailer exceeds 2550mm  
 Tyres 700/50-26.5 – width of the trailer exceeds 2550mm  
 Tyres 710/50R-26.5 – width of the trailer exceeds 2550mm  
 Tyres 710/45-26.5 – width of the trailer exceeds 2550mm  
 Plastic tube for documents  
 Warning triangle  
 Available other colors according to RAL CLASSIC codes (required RAL CLASSIC name and 4 digits from the color palette)



# DUMP TRAILERS

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 **36** MONTHS WARRANTY\*

\* Ask Your local Authorized Dealer and Sales Representative or see PRONAR.PL for more details.



Trailer **PRONAR T701** works perfectly while debris, stones, gravel and other construction waste materials. It can also be used in the construction and demolition. Loading box enables the use of the trailer in difficult conditions for many years. Optionally can be made from wear-resistant steel, which further extends the life of the trailer. The rear tailgate opens hydraulically to the bottom. Rear lighting lamps are shielded by metal grilles protecting them from accidental damage. Dump trailer can be equipped with a swinging tailgate, what enables evenly unloading the bulk materials which is so useful during the construction of roads. The width of loading case inside is 2410 mm and allows for the carriage of equipment and construction vehicles.

Trailer **PRONAR T679/2** works perfectly while transporting debris, stones, gravel and other construction waste materials. It can also be used in the construction. Loading case enables the use of the trailer in difficult conditions for many years. Optionally it can be made from wear-resistant steel, which further extends the life of the trailer. The rear tailgate opens hydraulically to the bottom. Rear lighting lamps are shielded by metal grilles protecting them from accidental damage. Dump trailer can be equipped with a swinging tailgate, what enables evenly unloading the bulk materials which is so useful during the construction of roads. The width of loading case inside what enables evenly unloading the bulk materials which is 2410 mm and allows the carriage of equipment and construction vehicles.

### PRONAR T701



### PRONAR T679/2



#### TECHNICAL DATA OF STANDARD EQUIPMENT

	<b>T701</b>	<b>T679/2</b>
Allowable total weight [kg]	24000	16350
Load capacity [kg]	14840	12000
Empty weight [kg]	6160	4350
Load volume [m <sup>3</sup> ]	10,6	7,7
Loading space [m <sup>2</sup> ]	13,5	10,9
Loading box inside length (upper/bottom side) [mm]	5600	4625/4500
Loading box inside width [mm]	2410	2410
Dimensions Length /Width/Height [mm]	7360/2550/2330	6230/2546/2080
Sidewall height [mm]	800	700
Floor/wall thickness [mm]	10/8	10/8
Platform height, measured from the ground [mm]	1475	1240
Wheel track [mm]	2060	1860
Suspension	parabolic springs	parabolic springs
Hitch-ring load [kg]	3000	2000
Tyres	385/65 R22.5RE	385/65 R22.5RE
Maximum speed [km/h]	40	40
Tipping system	2 telescopic cylinders, 1-side tipping	1-side
Telescopic cylinder (piston stroke/oil requirement/working pressure) [bar]	1980 mm/36L/200bar	2150 mm/28L/200
Minimum tractor power requirement [hp/kW]	124,8/91,7	83,2/61
Tipping angle (backwards) [°]	60	55

Hydraulically driven rear flap with height 370 mm, opened downwards (T701)



Drawbar type: universal rigid amortized by steel leaf springs (T701)



Rear lamps with protective grating







Hydraulically driven rear flap with height 450 mm (T679/2), opened downwards and swinging tailgate with right side opening (optional)



Tandem suspension with 4 parabolic springs (T679/2 and T701)



Drawbar support: hydraulic scissor - type leg (T679/2)

### STANDARD EQUIPMENT:

### ADDITIONAL EQUIPMENT (OPTIONAL):

#### T701

Very strong construction (monocoque type) of loading case with vertical ribs reinforcing the sidewalls  
 Front short extension of the loading box  
 Hydraulically driven rear flap with height 370 mm, opened downwards (only for loading box with 2410 mm inner width)  
 Chassis frame made of high strength steel with rectangular closed profiles  
 Tandem suspension with 4 parabolic springs with 1500 mm wheelbase with fixed axles equipped in drum brakes 400 x 140  
 Drawbar type: universal rigid amortized by steel leaf springs to couple with lower or upper hitch of the tractor  
 Drawbar hitch: rotary with Ø50 towing eye  
 Drawbar support: straight hydraulic leg with ball cut-off valve  
 Braking system: double line pneumatic with manual braking force control  
 Crank hand brake  
 Rear protective bumper homologated according to directive 70/221/EWG (in accordance to 2006/20/WE)  
 Front and rear mudguards made of plastic  
 Wheel chocks + racks (2pcs)  
 12 V lighting system with rear electric socket, bulbs lamps, with side clearance lights  
 Rear lamps with protective grating  
 Tipping system: hydraulic with automatic cut-off valve and thick safety steel cables  
 Mechanical support of the loading case  
 Folded ladder and steps facilitating the access to the loading case  
 Double-component chemically hardened painting materials, UV-resistant  
 Tipping frame colour: red RAL3000 PRONAR  
 Side walls painting colour: yellow RAL1007

Drawbar towing hitch rigid with towing eye Ø40 mm/ Ø50 mm to couple with upper and lower hitch of the tractor  
 Drawbar towing hitch rigid ball-type K80 mm  
 Loading case and hydraulic rear flap made of HARDOX 450HB (8mm floor, 6mm side walls)  
 Additional swinging tailgate to facilitate setting the thickness of unloading bulk materials for loading box of width 2410  
 Trapezoidoid loading box 2200 mm/2300 mm made of HARDOX 450HB steel, floor thickness 8mm, 6mm wall thickness  
 Trapezoidoid loading box 2200 mm/2300 mm made of ordinary steel.  
 Hydraulically driven tailgate with gullwing rear door equipped with grain dumper – only for loading box with internal width 2300 mm  
 Drawbar support hydraulic foldable leg with cut-off ball valve  
 Drawbar support: telescopic with 2 step gear  
 Bogie axles with leaf springs and rear axle hydraulic blockade  
 Passively steered rear axle with hydraulic turning blockade  
 Rear sockets for hydraulic installation and brakes for second trailer  
 Braking system: single line pneumatic  
 Braking system: hydraulic  
 Braking system double line pneumatic with automatic (ALB) braking force controller  
 Rear manual hitch, amortized  
 Rear automatic hitch UNIMAR  
 Rear automatic hitch RO\*400A4600  
 Additional extensions height 800 mm, with swinging tailgate, seal, crossbar, ladder with internal steps, enlarging load volume up to 21,3 m<sup>3</sup> made of steel 2,5 mm of thickness  
 Tyres 385/65R22.5  
 Tyres 425/65R22.5  
 Tyres 445/65 R22.5  
 Tyres 550/60-22.5  
 Tyres 560/60 R22.5  
 Tyres 600/50 R22.5 – width of the trailer exceeds 2550 mm  
 Tyres 600/55-22.5 – width of the trailer exceeds 2550 mm  
 Tyres 600/55 R22.5 - width of the trailer exceeds 2550mm  
 Tyres 600/55-26.5 – width of the trailer exceeds 2550mm  
 Tyres 700/50-26.5 – width of the trailer exceeds 2550 mm  
 Tyres 710/45-26.5 – width of the trailer exceeds 2550 mm  
 Tyres 710/50R26.5 - width of the trailer exceeds 2550mm  
 Spare wheel (separately) 560/60R22.5  
 Spare wheel (separately) 710/50R26.5  
 Spare wheel (separately) 600/55 R22.5  
 Spare wheel (separately) 385/65 R22.5 (15 R22.5) RE  
 Spare wheel (separately) 385/65 R22.5 (15 R22.5) (15 R22.5)  
 Spare wheel (separately) 425/65 R22.5  
 Spare wheel (separately) 445/65 R22.5 Regenerated  
 Spare wheel (separately) 445/65 R22.5  
 Spare wheel (separately) 550/60-22.5  
 Spare wheel (separately) 600/55-22.5  
 Spare wheel (separately) 600/50 R22.5  
 Spare wheel (separately) 700/50-26.5  
 Spare wheel (separately) 710/45-26.5  
 Slow-moving vehicle triangle

#### T679/2

Very strong construction (monocoque type) of loading case with vertical ribs reinforcing the sidewalls  
 Front short extension of the loading box  
 Hydraulically driven rear flap with height 450 mm, opened downwards  
 Chassis frame made of high strength steel with rectangular closed profiles  
 Tandem suspension with 4 parabolic springs with 1325 mm wheelbase with fixed axles equipped in drum brakes 400x80  
 Axles for 60 km/h (permissible total weight 16 000 kg)  
 Drawbar type: universal rigid to couple with lower or upper hitch of the tractor  
 Drawbar hitch: rotary with Ø50 towing eye  
 Drawbar support: hydraulic straight type leg with cut-off valve  
 Braking system: double line pneumatic with manual braking force control  
 Crank hand brake  
 Rear mudguards made of plastic  
 Wheel chocks + racks (2pcs)  
 12 V lighting system with rear electric socket, bulbs lamps, with airtight connection, with side clearance lights  
 Rear lamps with protective grating  
 Tipping system: hydraulic with automatic cut-off valve and thick safety steel cables  
 Rear protective bumper: rigid, homologated  
 Mechanical support of the loading case  
 Hydraulic cables holder with a support for tractor connectors  
 Double-component chemically hardened painting materials, UV-resistant  
 Tipping frame colour: red RAL3000 PRONAR  
 Side walls painting colour: yellow RAL1007

Drawbar hitch: fixed with Ø40mm towing eye to couple with upper hitch of the tractor  
 Drawbar hitch: fixed ball-type K80mm to couple with lower hitch of the tractor  
 Tool box  
 Loading case and hydraulic rear flap made of HARDOX 450HB (8mm floor, 6mm side walls)  
 Additional swinging tailgate with right side opening  
 Tandem suspension with 4 parabolic springs with 1325 mm wheelbase with fixed axles equipped in drum brakes 406x120  
 Drawbar support: scissor hydraulic leg with ball cut-off valve  
 Braking system: double line pneumatic with ALB (automatic braking force control)  
 Braking system: single line pneumatic  
 Braking system: hydraulic  
 Braking system: combined (double line pneumatic with ALB + hydraulic), with electric safety valve and braking force control  
 Braking system: combined (double line pneumatic with ALB + hydraulic)  
 12 V lighting system with rear electric socket, LED lamps, with airtight connection, with side clearance lights  
 Rear sockets for hydraulic installation and brakes for second trailer  
 Rear manual hitch, amortized  
 Rear automatic hitch  
 Plastic tube for documents  
 Additional extensions height 800 mm, with swinging tailgate, seal, crossbar, ladder with internal steps, enlarging load volume to 16,6 m<sup>3</sup> made of steel 2,5 mm of thickness  
 Side underrun protection acc to directive 89/297/WE  
 Front mudguards made of plastic  
 Tyres 385/65R22.5  
 Tyres 425/65R22.5  
 Tyres 500/60-22.5  
 Tyres 500/60 R22.5  
 Tyres 550/45-22.5  
 Tyres 550/45R22.5  
 Spare wheel (separately) 385/65 R22.5 (15 R22.5) RE  
 Spare wheel (separately) 385/65 R22.5 (15 R22.5)  
 Spare wheel (separately) 425/65 R22.5  
 Spare wheel (separately) 500/60 R22.5  
 Spare wheel (separately) 500/60-22.5  
 Spare wheel (separately) 550/45-22.5  
 Spare wheel (separately) 550/45R22.5  
 Warning triangle  
 Non standard colours according to RAL CALSSIC codes\*  
 \* doesn't apply fo units on stock

# DUMP TRAILERS

## PRONAR T679/3, T679/4



**PRONAR T679/3** and **PRONAR T679/4** are the latest models of dump trailers in **PRONAR** offer. They are designed for the transportation of agricultural products, rubble, stones, gravel, sand, clay and aggregate. A wide loading box of the trailer and the locking tabs also allow for transportation of construction vehicles, for e.g. excavators. Universal dump trailers **PRONAR T679/3** and **PRONAR T679/4** have a robust and durable construction, made of high quality materials, which are especially good for farms, gravel pits, stone factories, construction companies or for any work requiring transportation of heavy materials and equipment.

### PRONAR T679/3



### PRONAR T679/4



#### TECHNICAL DATA OF STANDARD EQUIPMENT

	T679/3	T679/4
Allowable total weight [kg]	13200	11000
Load capacity [kg]	10360	8385
Empty weight [kg]	2840	2615
Load volume [m <sup>3</sup> ]	6.4	6.4
Loading space [m <sup>2</sup> ]	9.7	9.7
Loading box inside length (upper/bottom side) [mm]	4000	4000
Loading box inside width [mm]	2416	2420
Dimensions Length /Width/Height [mm]	5674/2550/1775	5674/2550/1740
Sidewall height [mm]	648	650
Floor/wall thickness [mm]	6/6	4/4
Front wall/ rear wall thickness [mm]	4/4	4/4
Platform height, measured from the ground [mm]	1085	1050
Wheel track [mm]	1990	1990
Suspension	tandem with trailing arm	tandem with trailing arm
Hitch-ring load [kg]	1800	1500
Tyres	500/50-17	400/60-15.5
Maximum speed [km/h]	40	40
Tipping system	1-side	1-side
Telescopic cylinder (piston stroke/oil requirement/working pressure) [bar]	1700mm/13L/200bar	1700mm/13L/200bar
Minimum tractor power requirement [hp/kW]	69.4/51	62.6/46
Tipping angle (backwards) [°]	50	50

Drawbar support: telescopic supporting leg with fixed parking foot (optional)



Hydraulically driven rear flap with height 325 mm, opened downwards and swinging tailgate with right side opening (optional)



Crank hand brake



## STANDARD EQUIPMENT

## ADDITIONAL EQUIPMENT (OPTIONAL):

### T679/3

Very strong construction (monocoque type) of loading case with vertical ribs reinforcing the sidewalls, side wall and floor made of one piece of steel, 90° angle between floor and wall  
Fastening hooks inside the loading box for securing the load - 4 hooks  
Hydraulically driven rear flap with height 325 mm, opened downwards  
Chassis frame made of high strength steel with rectangular closed profiles Tandem suspension with 2 trailing arms with 1120 mm wheelbase with fixed axle shafts equipped in drum brakes 300x90  
Drawbar type: universal rigid to couple with lower or upper hitch of the tractor, with a ladder and platform  
Drawbar hitch: rotary with Ø50 towing eye  
Drawbar support: telescopic supporting leg with fixed parking foot with one step gear  
Braking system: hydraulic  
Crank hand brake  
Wheel chocks + racks (2pcs)  
12 V lighting system with rear electric socket, LED lamps, with airtight connection, with side clearance lights  
Rear lamps with protective grating  
Tipping system: hydraulic with automatic cut-off valve and thick safety steel cables  
Ladder and steps facilitating the access to the loading case  
Mechanical support of the loading case  
Warning triangle (sticker)  
Hydraulic cables holder with a support for tractor connectors  
Double-component chemically hardened painting materials, UV-resistant  
Tipping frame colour: red RAL3000 PRONAR  
Side walls painting colour: yellow RAL1007

### T679/4

Very strong construction (monocoque type) of loading case with vertical ribs reinforcing the sidewalls, side wall and floor made of one piece of steel, 90° angle between floor and wall  
Fastening hooks inside the loading box for securing the load - 4 hooks  
Hydraulically driven rear flap with height 325 mm, opened downwards  
Chassis frame made of high strength steel with rectangular closed profiles Tandem suspension with 2 trailing arms with 1120 mm wheelbase with fixed axle shafts equipped in drum brakes 300x90  
Drawbar type: universal rigid to couple with lower or upper hitch of the tractor, with a ladder and platform  
Drawbar hitch: rotary with Ø50 towing eye  
Drawbar support: telescopic supporting leg with fixed parking foot with one step gear  
Braking system: hydraulic  
Crank hand brake  
Wheel chocks + racks (2pcs)  
12 V lighting system with rear electric socket, LED lamps, with airtight connection, with side clearance lights  
Rear lamps with protective grating  
Tipping system: hydraulic with automatic cut-off valve and thick safety steel cables  
Ladder and steps facilitating the access to the loading case  
Mechanical support of the loading case  
Warning triangle (sticker)  
Hydraulic cables holder with a support for tractor connectors  
Double-component chemically hardened painting materials, UV-resistant  
Tipping frame colour: red RAL3000 PRONAR  
Side walls painting colour: yellow RAL1007

Drawbar hitch: fixed with Ø40mm towing eye to couple with upper hitch of the tractor  
Drawbar hitch: fixed with K80 mm towing eye  
Front short extension of the loading box  
Plastic tube for documents  
Rear automatic hitch  
Rear sockets for hydraulic installation and brakes for second trailer  
Additional swinging tailgate with right side opening  
Loading case made of abrasion resistant steel 450HB HARDOX - 5 mm on floor and side walls  
Additional extension 800mm with PLEXI window, rear swinging tailgate, with rubber seals, with crossbar, with ladder with internal steps, increasing the volume to 14,1 m<sup>3</sup>  
Tyres 520/50-17  
Tyres 19.0/45-17  
Spare wheel (separately): 500/50-17  
Spare wheel (separately): 19.0/45-17  
Spare wheel (separately): 520/50-17  
Non standard colours according to RAL CALSSIC codes\*  
*\* doesn't apply to units in stock*

Drawbar hitch: fixed with Ø40mm towing eye to couple with upper hitch of the tractor  
Drawbar hitch: fixed with K80 mm towing eye  
Front short extension of the loading box  
Plastic tube for documents  
Rear automatic hitch  
Additional swinging tailgate with right side opening  
Loading case made of abrasion resistant steel 450HB HARDOX - 4 mm on floor and side walls  
Additional extension 800mm with PLEXI window, rear swinging tailgate, with rubber seals, with crossbar, with ladder with internal steps, increasing the volume to 14,1 m<sup>3</sup>  
Rear sockets for hydraulic installation and brakes for second trailer  
Tyres 500/50-17  
Tyres 19.0/45-17  
Spare wheel (separately): 400/60-15.5  
Spare wheel (separately): 500/50-17  
Spare wheel (separately): 19.0/45-17  
Non standard colours according to RAL CALSSIC codes\*  
*\* doesn't apply to units in stock*

Ladder facilitating the access to the loading case



Hydraulic braking system



Tandem suspension with 2 trailing arms with fixed axle shafts equipped in drum brakes



Rear lamps with protective grating





The **PRONAR T679/4M** trailer, thanks to its low own weight, has a load capacity of 8.5t. The applied tandem suspension with trailing arms, large range of work and wide tires provide great comfort and safety at work. A characteristic element of the T679/4M dump trailer is the new shape of the load case, made of two bent sheets of 4mm thick steel and framed with a durable, high-strength profile. The front wall of the loading case is rounded to the whole height, which allows you to accurately unload the content of using the volume bucket. The advantage of the trailer is a wide range of optional equipment, such as the load case made of HARDOX steel, swinging tailgate, extensions with a height of 800mm and many more.

The loading space of the Pronar **T679/4MN** trailer has been equipped with 4 load securing brackets (2 at the front and 2 at the rear), giving the possibility to secure the transported goods. The trailer's mounted invasions facilitate the loading of construction machinery (e.g. a small excavator). A wide range of optional extras (e.g. a body made of HARDOX® steel, a hinged tailgate and additional extensions increasing the capacity of the trailer from 4.5m<sup>3</sup> to 11m<sup>3</sup>) allows the trailer to be adapted to the needs of the most demanding users.

The high spec of standard equipment and a number of positive traits, make the trailers easy to operate what increases the comfort of usage.

**PRONAR T679/5** - the smallest trailer among PRONAR dump trailers. The trailer is equipped with rigid single axle suspension with drum brakes. The trailer is characterized by stable construction and wide tires which provide safe operation of the trailer. It is suitable for all tasks in the toughest conditions.

### PRONAR T679/4MN



PRONAR T679/4M



PRONAR T679/5

TECHNICAL DATA OF STANDARD EQUIPMENT	T679/4M	T679/4MN	T679/5
Permissible total weight: [kg]	10850	11000	10350
Load capacity: [kg]	8500	8320	8100
Empty weight: [kg]	2020	2680	2250
Load volume: [m <sup>3</sup> ]	4,5	4,5	6,4
Loading space: [m <sup>2</sup> ]	7,8	7,8	9,7
Loading case inside length (at the floor/on top): [mm]	3540/3700	3540/3700	4000
Loading case inside width: [mm]	2210	2210	2420
Dimensions: length/width/height: [mm]	5380/2400/1560	5400/2400/1620	5653/2550/1738
Sidewall height: [mm]	550	550	650
Floor/wall thickness: [mm]	4/4	5/4	4/4
Platform height, measured from the ground: [mm]	1010	980	1070
Rozstaw kół [mm]	1640	1960	1860
Suspension:	tandem with trailing arm	rigid, single axle	rigid, single axle
Hitch-ring load: [kg]	2000	2000	2000
Tyres:	400/60-15.5	400/60-15.5	520/50-17
Maximum speed: [km/h]	40	40	40
Tipping system:	1-side	1-side	1-side
Tipping cylinder (piston stroke/oil requirement/working pressure): [mm/L/bar]	1700/ 13/ 200	1850/16/200	1700/13/200
Tractor power requirement: [KM/kW]	62,6/46	62,6/46	62,6/46
Tipping angle (backwards): [°]	50	50	50

**STANDARD EQUIPMENT:****ADDITIONAL EQUIPMENT (OPTIONAL):****T679/4M**

Very strong construction (monocoque type) of loading case, side wall and floor made of one piece of steel, 90° angle between floor and wall  
 Front wall curved facilitating unloading with the use of excavator bucket  
 Fastening hooks inside the loading box for securing the load - 4 hooks (2 at the front on the floor, 2 at the back on the side wall)  
 Hydraulically driven rear flap with height 325 mm, opened downwards  
 Chassis frame made of high strength steel with rectangular closed profiles – triangle shape  
 Tandem suspension with 2 trailing arms with 1100 mm wheelbase with fixed axles shafts equipped in drum brakes 300x90 – only the front shafts, rear shafts unbraked (Scandinavian market)  
 Drawbar type: universal rigid to couple with lower hitch of the tractor  
 Drawbar hitch: rotary with Ø50 towing eye  
 Drawbar support: telescopic supporting leg with one step gear, with fixed parking foot  
 Braking system: hydraulic  
 12 V lighting system, LED lamps, with airtight connection  
 Rear lamps with protective greting  
 Tipping system: hydraulic with automatic cut-off valve and thick safety steel cables  
 Mechanical support of the loading case  
 Warning triangle (sticker)  
 Double-component chemically hardened painting materials, UV-resistant  
 Tipping frame colour: red RAL3000 PRONAR  
 Side walls painting colour: yellow RAL1007

Additional extension 800mm with grating window on the front wall, with PLEXI, with rear swinging tailgate, with rubber seals, with 2 steel ropes fastening sidewalls, with ladder with internal steps, increasing the volume to 11 m<sup>3</sup>, made of steel 2 mm of thickness  
 Cover with a balcony  
 Loading case made of abrasion resistant steel 450HB HARDOX - 4 mm on floor and side walls – "farmers market"  
 Loading case made of abrasion resistant steel 450HB HARDOX - 6 mm on floor and front wall – "excavators market", side walls made of S235 steel 4 mm thickness  
 Hydraulically driven rear flap with height 325 mm, made of HARDOX 450 HB 4 mm (from inside the loading box)  
 Short manual drawbar support  
 Front and rear shafts equipped with drum brakes 300x90  
 Braking system: hydraulic (for 4 shafts)  
 Braking system: double line pneumatic (for 4 shafts) with manual braking force control  
 Front short extension of the loading box  
 Additional swinging tailgate with right side opening  
 Wheel chocks + racks (2pcs)  
 Crank hand brake  
 Rear bumper  
 Plastic tube for documents  
 Tires 500/50-17  
 Tires 19.0/45-17  
 Tires 520/50-17  
 Spare wheel (separately): 400/60-15.5  
 Spare wheel (separately): 500/50-17  
 Spare wheel (separately): 520/50-17  
 Non standard colours according to RAL CALSSIC codes \*  
 \* doesn't apply to units in stock

**STANDARD EQUIPMENT:****ADDITIONAL EQUIPMENT (OPTIONAL):****T679/4MN**

- Body in shell construction (construction version)
- Body made of 4mm thick S355 structural steel (floor, side walls and front wall)
- One 90° bend between side wall and floor
- 8 lashing points inside the body for securing the load (two at the front on the floor, two at the rear in the side wall, four in the floor)
- Full height rounded front wall
- Aluminium underrunners (load capacity per two underrunners: 8000kg; lengths of invasions: 3500mm; width of invasions: 465mm) retractable between the subframe and the body
- Body tipping system - one-sided (backwards) –
- Hydraulic tailgate 325mm high, tilting downwards; chute area of the tailgate, made of S355 structural steel, 4mm thick
- Chassis frame welded from 200x80 rectangular closed profiles, made of high-strength structural steel, with rigid drawbar for coupling to the tractor's lower or upper hitch
- Drawbar hitch swivel with 450mm eye for coupling to the tractor's lower hitch - Telescopic drawbar support
- Tandem suspension with parabolic springs; tandem suspension with parabolic leaves, wheelbase 1030mm, axles with drum brakes Ø300x90 (6 pins)
- Dual circuit pneumatic brake system with automatic brake force regulator (ALB) (homologated)
- Parking brake with crank handle
- 12V lighting system (LED-PRONAR) with airtight connections, with perimeter lighting
- Rear lights with zab grilles - Rear lights with aluminium bars - Rear lights with aluminium pistol grip (optional)
- Lighting system spiral connection line
- Tipping hydraulic system with automatic shut-off valve
- Telescopic tipping cylinder with articulated suspension - Service support for load floor
- Two wheel chocks in galvanised pockets - Plastic mudguards (behind the rear wheel)
- Rear protective device (bumper) - homologated, rigid –
- Distinguishing triangle for slow-moving vehicles (sticker)
- Highly corrosion-resistant paint system, using two-component chemically cured paint materials that give high durability and resistance to corrosion.
- durability of the paint film and UV resistance
- Chassis paint colour maroon RAL15-0590 PRONAR
- Paint colour of the body grey RAL7021 PRONAR

- Rigid drawbar coupling with Ø40mm eye for coupling to the tractor's upper coupling
- Rigid drawbar coupling K80mm ball coupling for coupling to the tractor's lower coupling
- 800mm high extensions, made of 2 mm thick metal sheet 800mm high, made of 2 mm thick sheet metal with grating and PLEXI shield on the front extension –
- Swinging rear wall with gasket; with two tie-down ropes; with internal and external ladders; increases the capacity to 11 [m<sup>3</sup>] - Cargo box made of HARDOX 450HB wear-resistant steel, 4mm thick (floor, side walls and front wall) - Front loading roof –
- Hydraulic tailgate 325mm high, folding down; chute area of the tailgate, made of 4mm thick HARDOX 450HB wear-resistant steel
- Tilt-and-turn tailgate
- Hydraulic scissor-type drawbar support - "Premium" two-wire pneumatic braking system with automatic (ALB) brake force regulator (homologated)
- Plastic mudguards (in front of the front wheel)
- Side protection (guards) –
- Tool box
- Document tube
- Wheels with ECE-approved tyres: 19.0/45-17; 500/50-17; 500/50R17
- Bulk spare wheel
- Paint colouring according to RAL CLASSIC colour coding system for industrial applications, by specifying RAL CLASSIC and four digits from the colour chart

**STANDARD EQUIPMENT:****ADDITIONAL EQUIPMENT (OPTIONAL):****T679/5**

Very strong construction (monocoque type) of loading case with vertical ribs reinforcing the sidewalls, side wall and floor made of one piece of steel, 90° angle between floor and wall  
 Fastening hooks inside the loading box for securing the load - 4 hooks  
 Hydraulically driven rear flap with height of 325 mm, opened downwards  
 Chassis frame made of high strength steel with rectangular closed profiles  
 Rigid, single axle suspension, with drum brakes 300x135 axle  
 Drawbar type: universal rigid to couple with lower or upper hitch of the tractor, with a ladder and platform  
 Drawbar hitch: rotary with Ø50 towing eye  
 Drawbar support: telescopic supporting leg with fixed parking foot and cotter pin  
 Braking system: hydraulic  
 Crank hand brake  
 12 V lighting system with rear electric socket, LED lamps, with airtight connection, with side clearance lights  
 Lighting Connecting Spiral cable  
 Rear lamps with protective grating  
 Tipping system: hydraulic with automatic cut-off valve and thick safety steel cables  
 Tipping telescopic cylinder  
 Ladder and steps facilitating the access to the loading case  
 Mechanical support of the loading case  
 Warning triangle (sticker)  
 Hydraulic cables holder with a support for tractor connectors  
 Double-component chemically hardened painting materials, UV-resistant  
 Tipping frame colour: red RAL3000 PRONAR  
 Side walls painting colour: yellow RAL1007

Drawbar hitch: fixed with K80 mm towing eye  
 Drawbar hitch: fixed with Ø40mm towing eye to couple with upper hitch of the tractor  
 Front short extension of the loading box  
 Drawbar support: telescopic supporting leg with fixed parking foot with one step gear  
 Additional swinging tailgate with right side opening  
 Wheel chocks + racks (2pcs)  
 Rear automatic hitch  
 Loading case made of abrasion resistant steel 450HB HARDOX - 4 mm on floor and side walls  
 Additional extension 800mm with PLEXI window, rear swinging tailgate, with rubber seals, with crossbar, with ladder with internal -steps, increasing the volume to 14,1 m<sup>3</sup>  
 Tyres 500/50-17  
 Spare wheel (separately): 500/50-17  
 Spare wheel (separately): 520/50-17  
 Plastic mudguards  
 Plastic tube for documents  
 Non standard colours according to RAL CALSSIC codes \*  
 \* doesn't apply to units in stock



T679/4M - monocoque type of loading case, side wall and half floor made of one piece of steel, 90° angle between floor and wall



Hydraulically driven rear flap opened downwards



Loading of T679/5 trailer



Ladder facilitating the access to the loading case



Universal and rigid drawbar to couple with lower or upper hitch of the tractor





**T701 HP** is a first Pronar's model from Profi Line series. **T701HP** is distinguished by a design of half-pipe body enabling year-round operation in various industries not only in agriculture. It performs well on difficult terrain, especially during large road projects, in gravel pits (transport of bulk materials, rocks and stones), or in transporting rubble and asphalt. It is a trailer for the most demanding clients who are looking for a trailer with high performance parameters.

Thanks to a low body weight (5.5 t), **T701HP** construction trailer, with a gross total weight of 22 t., ensures a high load capacity of (16.5t). Thanks to the enormous telescopic front cylinder the trailer can easily empty the body in only 30 seconds.

**PRONAR T701HP**



**TECHNICAL DATA OF STANDARD EQUIPMENT**

**PRONAR T701 HP Half pipe DUMP TRAILER**

Allowable total weight (technically):	25000	[kg]
Permissible total weight:	22000	[kg]
Load capacity:	19100	[kg]
Empty weight:	5900	[kg]
Load volume:	12,5	[m <sup>3</sup> ]
Loading case	halfpipe	
Loading case inside length:	5300	[mm]
Loading case inside width ( front/rear):	2250/2300	[mm]
Dimensions: length/width/height:	7570/2550/2840	[mm]
Load height:	2480	[mm]
Loading case inside height:	1250	[mm]
Floor/wall thickness:	6/6 HARDOX 450HB	[mm]
Wheel track:	1960	[mm]
Suspension:	bogie (24t), parabolic springs	
Hitch-ring load:	4000	[kg]
Tyres:	550/60-22,5	
Maximum speed:	40	[km/h]
Tipping system:	1-side	
Tipping cylinder (piston stroke/oil requirement/working pressure):	4670mm/41L/200bar	
Tractor power requirement:	125/92	[hp/kW]
Tipping angle (backwards):	55	[°]



Hydraulic foldable drawbar support with cut off valve (optional)

Bogie suspension on parabolic springs with 1600mm wheelbase with fixed axles with cross section 150x150 equipped in drum brakes 406x140



Hydraulically driven rear flap with mechanical blockade and rubber gasket



## STANDARD EQUIPMENT

## ADDITIONAL EQUIPMENT (OPTIONAL):

### PRONAR T701 HP Half pipe DUMP TRAILER

Loading case halfpipe type made of HARDOXsteel 450 HB  
 Trapezoidal shape of the loading case ( rear 50mm wider than a front)  
 Front short extension of the loading box  
 Hydraulically driven rear flap with mechanical blockade and rubber gasket  
 Bogie suspension on parabolic springs with 1600mm wheelbase with fixed axles with cross section 150x150 equipped in drum brakes 406x140  
 Chassis frame made of high strength steel with rectangular closed profiles 300x200 made of high strength steel  
 Chassis frame adapted for mounting the drawbar with a steel spring or with hydraulic cylinders  
 Universal rigid sprung drawbar to couple with lower or upper hitch of the tractor  
 Drawbar hitch ( 4t) : rotary with Ø50 towing eye to couple with lower hitch of the tractor  
 Drawbar support: telescopic with 2-section gear  
 Crank hand brake  
 Braking system: double line pneumatic with manual braking force control  
 Rear underrun protection - homologated  
 Metal wheel covers  
 Rear plastic mudguards  
 Wheel chocks + racks (2pcs)  
 12 V lighting system, LED lights, side clearance lights  
 Rear lamps with protective grating  
 Rear hinged apron  
 Tipping system: hydraulic  
 Double-component chemically hardened painting materials, UV-resistant  
 Tipping frame colour: red RAL3000 PRONAR  
 Side walls painting colour: yellow RAL1007

Hydraulically sprung drawbar with height adjustment  
 Toolbox  
 Drawbar hitch (4t): fixed ball-type K80mm to couple with lower hitch of the tractor  
 Drawbar support: hydraulic foldable with cut off valve  
 Braking system: single line pneumatic  
 Braking system: double line pneumatic with ALB ( load sense braking system)  
 Braking system: hydraulic  
 Plastic tube for documents  
 Side overrun protection  
 Tyres 445/65R22.5 (18R22.5)  
 Tyres 560/60R22.5  
 Tyres 600/50R22.5  
 Tyres 600/55-22.5  
 Tyres 600/55R26.5  
 Tyres 620/50R22.5 - width of the trailer exceeds 2550 mm  
 Tyres 650/50R22.5 - width of the trailer exceeds 2550 mm  
 Tyres 700/50-26.5 - width of the trailer exceeds 2550 mm  
 Tyres 710/45-26.5 - width of the trailer exceeds 2550 mm  
 Tyres 710/50R26.5 - width of the trailer exceeds 2550 mm  
 Spare wheels for all sizes (seperately)  
 Warning triangle  
 Slow moving vehicle sign  
 Non standard colours according to RAL CALSSIC codes \*

Chassis frame made of high strength steel with rectangular closed profiles 300x200 made of high strength steel

Crank hand brake









# CATTLE TRAILERS

PRONAR TRAILERS T046, T046H	92
PRONAR TRAILERS T046/1, T046/2	94



**PRONAR** **36** MONTHS WARRANTY\*

\* Ask Your local Authorized Dealer and Sales Representative or see PRONAR.PL for more details.

# CATTLE TRAILERS

## PRONAR T046, T046H



Single axle trailer **PRONAR T046** is the smallest cattle trailer in **PRONAR's** offer. The trailer **PRONAR T046** is made of high quality materials, that provide high comfort for transported cattle. A long platform attached on the back of trailer ensure easy cattle loading and unloading. Fixed construction and the proper impregnation of wood elements makes the trailer reliable and failure-free work for many years.

On the T046H model, the body is hydraulically lowered. An extended front hatch is available as an option for the T046, which will take place in the future. The T046H trailer is equipped with a hydraulically lowered chassis. When loading and unloading the distance from the ground is only 20 cm, and during transport with the raised - 63 cm. Thanks to the lowered system chassis, no ramp is needed .

### PRONAR T046



### PRONAR T046H

#### TECHNICAL DATA OF STANDARD EQUIPMENT

	T046	T046H
Allowable total weight [kg]	5500	11000
Load capacity [kg]	3700	7850
Empty weight [kg]	1800	3150
Loading space [m <sup>2</sup> ]	9,01*	13,2*
Loading box inside length [mm]	4160	6290
Loading box inside width [mm]	2360	2240
Dimensions length/width/height [mm]	6100/2515/2780	8320/2550/2860
Sidewall height [mm]	1350	1500
Floor thickness (impregnated wood)/sidewalls (waterproof plywood) [mm]	30/18	4/3
Platform height, measured from the ground [mm]	700	700/200
Wheel track [mm]	2100	2160
Suspension	fixed	hydraulic (single axle)
Hitch-ring load [kg]	600	2000
Tyres	11.5/80 15.3	385/65R22,5
Maximum speed [km/h]	40	40
Minimum tractor power requirement [hp/kW]	28.6/21	41,6/30,6

\*surface without inner wheel arches

Platform with cattle separating inner barrier



T046 - Floor made of checkered steel



T046H - Skrzynka narzędziowa



## STANDARD EQUIPMENT

## ADDITIONAL EQUIPMENT (OPTIONAL):

### T046

Platform with screwed walls made of plywood  
 Sidewalls made of double-side laminated waterproof plywood 18 mm  
 Rear side manually opened loading platform made of waterproof anti-sliding plywood  
 Rigid drawbar integrated with frame to couple with lower hitch of the tractor  
 Springs facilitating opening and closing of the rear door  
 Wooden floor impregnated with special deep penetrating waterproof materials  
 Drawbar towing hitch: rotary with towing eye 50 mm to couple with lower hitch of the tractor  
 Rectangular chassis frame made of high strength materials  
 Drawbar support: supporting wheel  
 Suspension with fixed axle equipped in drum brake 300x90  
 Braking system: single or double line pneumatic or hydraulic  
 Crank hand brake  
 12 V lighting system  
 Loading platform made of waterproof anti-sliding plywood  
 Unfolding side barriers on the loading platform  
 Laced cover frame  
 Wheel chocks + galvanized racks  
 Double-component chemically hardened painting materials, UV-resistant  
 Platform painting colour: green RAL6010 PRONAR PRONAR

Drawbar towing hitch: fixed upper with 40 mm towing eye (40 km/h version)  
 Drawbar towing hitch: fixed ball-type K80 mm  
 Chequer plate floor (4 mm) with two drainage holes  
 Chequer plate floor with two drainage holes covered with 15 mm anti-sliding and damping resin, covered with 15 mm rubber layer  
 Cattle separating inner barrier  
 Rear wall - platform made of anti-sliding plywood with manual extension, hydraulically opened with additional wooden ledges protecting against sliding  
 Sidewall extension 150mm  
 Side door at the front on the right side of the trailer (adopted to a loading case with screwed plywood walls)  
 Loading case with screwed profiled walls made of 2 mm steel. Rear platform made of chequer steel, manually opened with springs that easier opening and closing with additional ledges to protect from sliding  
 Rear wall - platform made of chequer steel with manually open extension, hydraulically opened with additional ledges protecting against sliding (adopted to a loading case with screwed steel walls)  
 Side door at the front on the right side of the trailer (adopted to a loading case with screwed steel walls)  
 Over-run brakes (40 km/h version)  
 Parking brake with lever  
 Tyres 14.0/65-16  
 Tyres 400/60 15.5  
 Spare wheel (separately) 11.5/80-15.3  
 Spare wheel (separately) 14.0/65-16  
 Spare wheel (separately) 400/60-15.5  
 Warning triangle  
 Non standard colours according to RAL CLASSIC codes

### T046H

Hydraulically lowered load box for easy loading.  
 Load box with walls made of profiled steel sheet  
 Side door (front right) for easy access to transported animals  
 Rear double-leaf door, swing-open  
 Tight floor made of a checker plate with exposed drain holes  
 The chassis frame is welded from rectangular closed steel profiles  
 Single axle suspension on 2 hydraulic cylinders with semi-axes equipped with drum brakes (406x120)  
 Hydraulic shock absorber to dampen vibrations while driving  
 Universal rigid drawbar for swimming with the bottom or connected to ports  
 Rotary drawbar hitch with 50mm towing eye  
 Drawbar support: telescopic with one-stage gear  
 Braking system: double line pneumatic with manual inertia regulator wan  
 Parking brake with crank  
 12V lighting installation (combined LED), with clearance lighting  
 Connection equipment spiral, lighting installation  
 Tarpaulin frame with a connecting version.  
 Laced tarpaulin  
 Two wheel chocks placed in galvanized pockets  
 The paint system with high corrosion resistance using materials, two-component, chemically hardening painting, providing high durability of coatings, varnish and UV resistance  
 Painting color: green RAL6010 PRONAR

The floor is made of checker plate with two drain holes, covered with a safe, non-slip, flexible spout with a thickness of approx. 15 mm  
 Drawbar hitch: rigid with 40mm towing eye to connect with the upper hitch of the tractor  
 Drawbar hitch: fixed ball K80 for coupling with the lower hitch of the tractor  
 Hydraulic scissors drawbar support with cut-off ball valve  
 Braking system: double line pneumatic with automatic force regulator (ALB)  
 Hydraulic braking system  
 Inner partition on the rails (sliding) separating the transported animals  
 Fixed internal partition with adjustable position.  
 End gate securing the rear double door  
 Side rails on guides (sliding) to facilitate loading  
 Lighting of the cargo area .  
 Tube for documents  
 Spare wheel with bracket and winch on the front wall  
 Wheels with 445 / 45R19.5 tires (trailer width exceeds 2550)  
 The triangle distinguishing slow-moving vehicles  
 Painting colors according to the RAL CLASSIC Color Marking System for industrial applications, by specifying the word: RAL CLASSIC and four numbers from the pattern palette



PRONAR T046H



**PRONAR T046/1** is a medium-sized cattle trailer, that can comfortably heads transport about 10 heads of cattle. It is made of high quality materials, that provide high comfort for transported cattle. A long platform attached on the back of trailer ensure easy loading and unloading of the cattle. Fixed construction and the proper impregnation of wood elements makes the trailer reliable and failure-free work for many years. Perfect for the large livestock farms, trailer **PRONAR T046/2** is designed for the transportation of cattle.

**PRONAR T046/2** is equipped with a hydraulic system of drop-down-system of the body, which allows to lower the rear edge of the floor. Additionally the back wall acts as a bridge with railings. Both of these features make the loading of the cattle or swine easier. The trailer is also equipped with the tilt and turn door at the front of the trailer. Wheel suspension arms propped with cylinders, which are working in system with hydraulic shock-absorber accumulators that are dumping the vibrations of suspension while driving. The trailer is fitted with the devices to prevent the loss of traction drive.

### PRONAR T046/1



### PRONAR T046/2



#### TECHNICAL DATA OF STANDARD EQUIPMENT

	T046/1	T046/2
Allowable total weight [kg]	8000	12000
Load capacity [kg]	5360	8500
Empty weight [kg]	2640	3500
Loading space [m <sup>2</sup> ]	14.1	14*
Loading box inside length [mm]	5960	6990
Loading box inside width [mm]	2360	2300
Dimensions length/width/height [mm]	7980/2515/3012	8920/2530/2800
Sidewall height [mm]	1350	1400
Floor thickness (impregnated wood)/sidewalls (waterproof plywood) [mm]	30/18	4/3
Platform height, measured from the ground [mm]	945	660/130
Wheel track [mm]	2100	2200
Suspension	tandem with leaf springs	hydraulic
Hitch-ring load [kg]	1000	1500
Tyres	11.5/80 15.3	14.0/65-16
Maximum speed [km/h]	40	40
Minimum tractor power requirement [hp/kW]	41.6/30.6	65/47.8

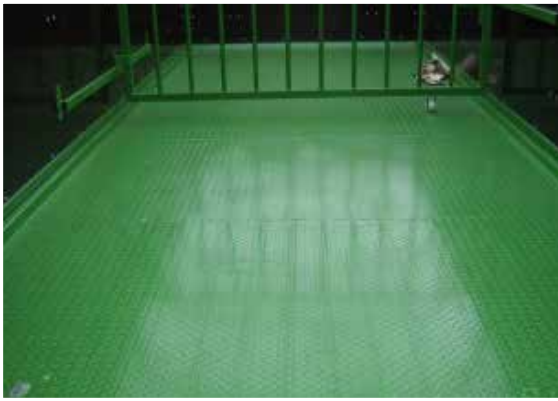
\*surface without inner wheel arches

**T046/1** -Rear wall opened manually, with springs to facilitate opening and closing, with additional wooden edges to prevent slipping



**T046/1** - Extended tailgate





**T046/1** checkered steel floor protect against slipping



Tandem suspension on leaf springs



### STANDARD EQUIPMENT

### ADDITIONAL EQUIPMENT (OPTIONAL):

Platform with screwed plywood walls  
 Wooden floor pretreated with deep-impregnating agent  
 Sidewalls made of double-side laminated plywood 18 mm  
 Rear side - platform manually opened made of anti-sliding plywood with springs that easier opening and closing with additional anti-sliding, wooden ledges  
 Springs facilitating opening and closing of the rear door  
 Rectangular chassis frame made of high strength materials  
 Rigid drawbar integrated with frame to couple with lower hitch of the tractor  
 Drawbar towing hitch: rotary with towing eye 50 mm to couple with lower hitch of the tractor  
 Drawbar support: supporting wheel  
 Tandem suspension with leaf springs, fixed axles with 1090 mm wheelbase, equipped in drum brakes 300x60  
 Braking system: single or double double line pneumatic  
 Crank hand brake  
 12 V lighting system  
 Loading platform made of waterproof anti-sliding plywood  
 Unfolding side barriers on the loading platform  
 Double-component chemically hardened painting materials, UV-resistant.  
 Laced cover frame  
 Wheel chocks + galvanized racks  
 Platform painting color: green RAL6010 PRONAR PRONAR

#### T046/1

Drawbar towing hitch: fixed upper with 40 mm towing eye (40 km/h version)  
 Drawbar towing hitch: fixed ball-type K80 mm  
 Chequer plate floor (4 mm) with two drainage holes  
 Chequer plate floor with two drainage holes covered with anti-sliding and damping resin, covered with 15 mm rubber layer  
 Cattle separating inner barrier  
 Rear wall - platform made of anti-sliding plywood with manual extension, hydraulically opened with additional wooden ledges protecting against sliding  
 Sidewall - extension 150mm  
 Side door at the front on the right side of the trailer ( adopted to a loading case with screwed plywood walls)  
 Loading case with screwed profiled walls made of 2 mm steel. Rear platform made of chequer steel, manually opened with springs that easier opening and closing with additional ledges to protect from sliding  
 Rear wall - platform made of chequer steel with manually open extension, hydraulically opened with additional ledges protecting against sliding ( adopted to a loading case with screwed steel walls)  
 Side door at the front on the right side of the trailer ( adopted to a loading case with screwed steel walls)  
 Over-run brakes (Permissible Load capacity: 8000kg, 40 km/h version)  
 Parking brake with lever  
 Tyres 14.0/65-16  
 Tyres 400/60 15.5  
 Spare wheel (separately) 11.5/80-15.3  
 Spare wheel (separately) 14.0/65-16  
 Spare wheel (separately) 400/60-15.5  
 Warning triangle  
 Non standard colours according to RAL CALSSIC codes

#### T046/2

Chassis frame made of steel closed rectangular profiles  
 Sidewalls made of profiles steel 3 mm  
 Universal drawbar integrated with frame to couple with upper or lower hitch of the tractor  
 Swinging gull-wing side doors  
 Wide-opening of rear door  
 Tandem suspension with 4 hydraulic cylinders fitted with drum brakes  
 Hydraulically lowered loading case facilitating animal (un)loading  
 Hydraulic vibration shock absorbers  
 Drawbar towing hitch: rotary with towing eye 50 mm to couple with lower hitch of the tractor  
 Drawbar support: mechanic with a winch  
 Sealed chequer plate floor with two drainage holes  
 Braking system: double line pneumatic  
 Crank hand brake  
 Lighting system  
 Cover frame  
 Double-component chemically hardened painting materials, UV-resistant.  
 Wheel chocks + galvanized racks  
 Platform color: green RAL6010 PRONAR

Drawbar towing hitch: fixed upper with 40 mm towing eye (40 km/h version)  
 Drawbar towing hitch: fixed ball-type K80 mm  
 Drawbar support: hydraulic scissor-type with ball cut-off valve  
 Side barriers on the loading platform  
 Chequer plate floor with two drainage holes covered with anti-sliding and damping resin, covered with 15 mm rubber layer  
 Sidewall - extension 150mm  
 Cattle separating inner barrier  
 Laced cover  
 Tyres 400/60 15.5 (trailer width 2605mm)  
 Spare wheel (separately) 14.0/65-16  
 Spare wheel (separately) 400/60-15.5  
 Warning triangle  
 Non standard colours according to RAL CALSSIC codes

**T046/1** - The floor of the checkered plate with two drain holes, covered with a safe, non-slip, flexible spout

Additional entrance to the platform improving the comfort of work and operator safety

Tandem suspension with 4 leaf springs





# HOOK LIFT TRAILERS & CONTAINERS

PRONAR TRAILERS T185, T185/1	98
PRONAR TRAILERS T28, T285/1	102
PRONAR TRAILER T286	106
PRONAR TRAILER T386	108
KO01, KO02, KO03, KO04	110





**PRONAR** **36** MONTHS WARRANTY\*

\* Ask Your local Authorized Dealer and Sales Representative or see PRONAR.PL for more details.



Universal trailer **PRONAR T185**, which can be used in agriculture, construction and waste management for the whole year! Perfect solution for the companies and communes that are looking for universal and durable equipment for various tasks related to the maintenance and semi-road works. Trailer **PRONAR T185** is designed to handle the agricultural, construction and utilities containers as well as transportation of platforms. High comfort of work provides a mechanism of loading equipped with a hydraulic lock on the suspensions for loading and unloading of the container. The design of the trailer allows you to connect and disconnect the containers and their unloading by tipping backwards which makes this trailer user-friendly and functional.



**PRONAR T185**



**PRONAR T185/1**

**TECHNICAL DATA OF STANDARD EQUIPMENT**

	<b>T185</b>	<b>VS</b>	<b>T185/1</b>
Allowable total weight [kg]	15000		15000
Load capacity [kg]	<b>12130 *</b>		<b>11900 *</b>
Trailer kerb weight [kg]	<b>2870</b>		<b>3100</b>
Lenght without a container [mm]	5940		5940
Lenght with the shortest/longest container [mm]	<b>6415/6782</b>		<b>6180/6780</b>
Width without a container [mm]	<b>2360</b>		<b>2380</b>
Width with a container (min/max) [mm]	<b>2360/2550</b>		<b>2550</b>
Attachement dimensions of the container [mm]			
Hook lenght (min/max) [mm]	1450/1570		1450/1570
Rolls track [mm]	1070		1070
Rolls height [mm]	<b>900</b>		<b>1070</b>
Allowable dimensions of the container			
Lenght (min/max) [mm]	<b>4100 - 4900</b>		<b>4400 - 4900</b>
Width [mm]	max 2550		max 2550
Height [mm]	max 2000		max 2000
Height of the trailer without container [mm]	<b>2512</b>		<b>2770</b>
Container maximum tipping angle/oil requirement/ oil pressure: [°/l/bar]	46/15/200		46/15/200
Wheel track [mm]	<b>1830</b>		<b>1860</b>
Suspension	<b>tandem with trailing arm</b>		<b>tandem with parabolic springs</b>
Hitch-ring load [kg]	2000		2000
Tyres [km/h]	<b>500/50-17**</b>		<b>500/50-17**</b>
Construction speed [hp/kW]	40		40
Minimum tractor power requirement:	78/57.3		78/57.3

\* with the weight of the container with recommended lenght, it might be necessary to move the container backwards while preparing for tipping  
 \*\* diagonal tires are destined to standard use in agriculture (not to use on a main roads). For agricultural-industrial use we recommend radial tires

Hook trailer PRONAR T185/1 with a container PRONAR K002



**STANDARD EQUIPMENT**

**ADDITIONAL EQUIPMENT (OPTIONAL):**

**T185**

Tipping frame: rectangular made of closed profiles  
 Tandem suspension with 2 trailing arms and fixed axle shafts equipped in drum brakes 300x135  
 Drawbar: rigid to couple with lower hitch of the tractor (transport hitch, piton fix)  
 Drawbar towing hitch: rotary towing eye Ø50 (hitch, piton fix)  
 Drawbar support: hydraulic straight leg with cut-off valve (it needs permanent or occasional connection with the tractor by single hydraulic line)  
 Crank hand brake  
 Hydraulic blocking system of the trailing arm (suspension)  
 Braking system: double or single line pneumatic or hydraulic  
 Rear bumper with manual setting in 2 positions (depends on length of the container)  
 Lighting system 12 V without side clearance lights  
 Rear lamps with protective grating  
 Steel mudguards over the wheels  
 Wheel chocks + racks  
 Hydraulic reloading system with manual switch winch / tipper  
 Trailer requires a tractor with three pairs of hydraulic outputs (control of suspension lock, pivoting frame and hook frame)  
 Chemically hardened two-component painting materials, UV-resistant.  
 Tipping frame colour: red RAL3000 PRONAR

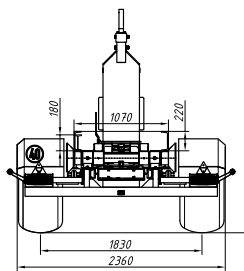
Drawbar towing hitch: fixed with towing eye Ø40mm to couple with upper tractor transport hitch  
 Drawbar towing hitch: fixed, ball-type K80mm  
 Drawbar support: telescopic supporting leg with two-step gear  
 Drawbar support: telescopic supporting leg with a pin  
 Trailer hook with automatic container lock and regulated high in 2 positions  
 Side underrun protection according to 89/297/WE directive  
 12 V lighting system with side clearance lights  
 Tool box  
 Electric steering from tractor's cabin of 3 functions (suspension lock, pivoting frame and hook frame)  
 Electric steering from tractor's cabin of 4 functions (suspension lock, container lock, pivoting frame and hook frame)  
 Own hydraulic system with oil container, a pump, transmission and PTO shaft with electric steering of 3 functions from tractor's cabin : (control of suspension lock, pivoting frame and hook frame)  
 Own hydraulic system with oil container, a pump, transmission and PTO shaft with electric steering of 4 functions from tractor's cabin : (control of suspension lock, container lock, pivoting frame and hook frame)  
 Hydraulic container lock (for the tractors with min. 4 hydraulic output pairs) with electrohydraulic safety system  
 Braking system: hydraulic with mechanical safety valve  
 Braking system: hydraulic with electric safety valve and braking power controller  
 Braking system: combined (double line pneumatic + hydraulic)  
 Braking system: combined (double line pneumatic + hydraulic with mechanical safety valve)  
 Braking system: combined (double line pneumatic + hydraulic with electric safety valve and braking power controller)  
 Plastic mudguards  
 Tyres 520/50 - 17  
 Tyres 385/55 R22.5 RE  
 Tyres 385/55 R22.5  
 Spare wheel 500/50-17 (separately)  
 Spare wheel 520/50-17 (separately)  
 Spare wheel 385/55 R22.5 (separately)  
 Spare wheel 385/55 R22.5 RE (separately)  
 Warning triangle  
 Additional pair of hydraulic outlets at the back (to supply hydraulic backwall of the container) and additional pair of hydraulic outlets located on the hook  
 Non standard colours according to RAL CALSSIC codes \*  
 \* doesn't apply to units on stock

**T185/1**

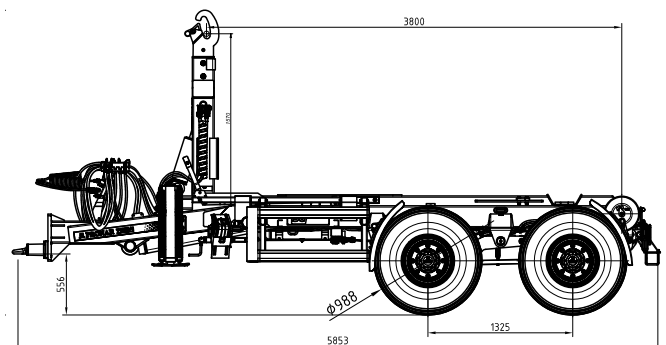
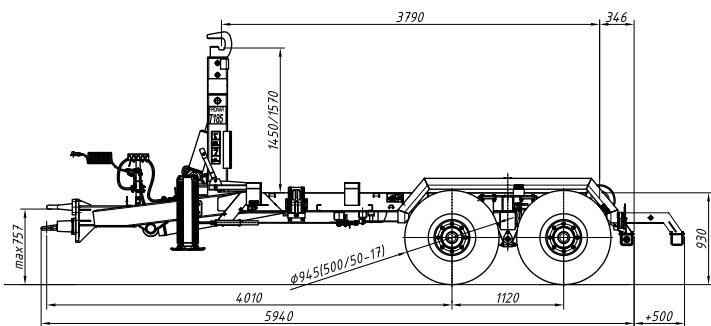
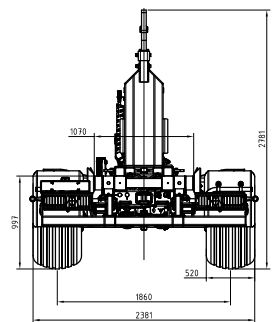
Tandem suspension with 4 parabolic springs, axle base 1325mm, with fixed axles, drum brakes 300x135mm  
 Drawbar: rigid to couple with lower hitch of the tractor (transport hitch, piton fix)  
 Drawbar towing hitch: rotary towing eye Ø50 (hitch, piton fix)  
 Drawbar support: hydraulic straight leg with cut-off valve (it needs permanent or occasional connection with the tractor by single hydraulic line)  
 Braking system: double line air with manual braking power control  
 Crank hand brake  
 Trailer hook regulated high in 2 positions (1450mm/1570mm) with automatic container lock  
 Hydraulic reloading system with manual switch winch / tipper  
 Hydraulic blocking system of the suspension (rear axle)  
 Hydraulic installation of the hook frame - tilt cylinder  
 Trailer requires a tractor with three pairs of hydraulic outputs (control of suspension lock, pivoting frame and hook frame)  
 Lighting system 12 V (LED) with air tight connection, with side clearance lights  
 Rear lamps with protective grating  
 Wheel chocks + racks  
 Steel mudguards over the wheels  
 Rear bumper (homologated) with manual setting in 2 positions (depends on length of the container)  
 Chemically hardened two-component painting materials, UV-resistant  
 Tipping frame colour BLACK RAL 9005 PRONAR

Drawbar towing hitch: fixed with towing eye Ø40mm to couple with upper tractor transport hitch  
 Drawbar towing hitch: fixed, ball-type K80mm  
 Drawbar support: telescopic supporting leg with two-step gear  
 Drawbar support: telescopic supporting leg with a pin  
 Hydraulic switching between hook/tipper integrated with hydraulic container lock, with electro-hydraulic safety system, for containers made acc. to norm DIN 30722 - controlled independently - for the tractors with min. 4 hydraulic output pairs)  
 Electric steering from tractor's cabin of 5 functions (suspension lock, switching between hook/tipper integrated with container lock, pivoting frame and hook frame)  
 Own hydraulic system with oil container, a pump, transmission and PTO shaft with electric steering of 5 functions (suspension lock, switching between hook/tipper integrated with container lock, pivoting frame and hook frame)  
 Additional pair of hydraulic outlets at the back (to supply hydraulic backwall of the container) - it needs additional pair of hydraulic outlets at the tractor  
 Additional pair of hydraulic outlets at the back (to supply hydraulic backwall of the container) and additional pair of hydraulic outlets located on the hook - it needs additional pair of hydraulic outlets at the tractor  
 Braking system: double line air with ALB (automatic braking power control)  
 Braking system: hydraulic  
 Rear outlets of braking system for second trailer  
 Two flashing lights at the back  
 Tube for documents  
 Tool box  
 Side underrun protection according to 89/297/WE directive  
 Plastic mudguards (behind the rear wheel and in front of the front wheel)  
 Aluminium mudguards  
 Rear manual hitch  
 Rear hitch, amortized  
 Tyres 500/50R17  
 Tyres 520/50 - 17  
 Tyres 385/55 R22.5 RE  
 Tyres 385/55 R22.5  
 Spare wheel 500/50-17 (separately)  
 Spare wheel 500/50R17 (separately)  
 Spare wheel 520/50-17 (separately)  
 Spare wheel 385/55 R22.5 (separately)  
 Spare wheel 385/55 R22.5 RE (separately)  
 Warning triangle  
 Non standard colours according to RAL CALSSIC codes \*  
 \* doesn't apply to units on stock

**PRONAR T185**



**PRONAR T185/1**



## Main differences between PRONAR T185/1 and PRONAR T185



Rear bumper with setting in two positions (slid lights) 340 mm and 680 mm



Tandem suspension with 4 parabolic springs



Trailer hook with automatic container lock



Automatic switching between hook-tipper

### PRONAR T185/1



### PRONAR T185



Rear bumper with setting in one position (no slid lights) 500 mm



Boogie suspension



Trailer hook without container lock



Manual switching between hook-tipper



# Common features of PRONAR T185/1 and PRONAR T185



Hydraulic container lock



Air tank for pneumatic braking system



Additional pair of hydraulic outlets located on the hook



Hook-tipper switching actuator



Drawbar support: hydraulic straight leg with cut-off valve



Hook frame with actuator



Side clearance lights



Tool box



Universal **PRONAR T285** trailer, which can work for the whole year in agriculture, construction and waste management! The ideal solution for companies and municipalities that seek universal and durable equipment for various tasks associated with maintaining cleanliness and for road works. Hook lift trailer **PRONAR T285** which can be used all year round in agricultural, construction waste disposal industry. That's an ideal solution for firms and communities which are looking for a universal and long-lasting equipment to handle various activities amid at keeping the surrounding neat and clean as well as road-ground actions.

Universal **PRONAR** trailer **T285/1**, which can be used throughout whole year in agriculture, construction and waste management. The perfect solution for companies and municipalities, that are looking for universal and durable equipment for various tasks.

Trailer **PRONAR T285/1** has greater load capacity (increased about 2 tons) which was achieved by introducing a wider axle system, which is 1810 mm. Trailer is made of closed steel profiles to provide excellent durability. Rear steered axle in tandem suspension additionally has a positive influence on reducing turf's destruction as well as reduced tyres wear and fuel consumption.

**PRONAR T285**



**PRONAR T285/1**



**TECHNICAL DATA OF STANDARD EQUIPMENT**

	<b>T285</b>	<b>VS</b>	<b>T285/1</b>
Allowable total weight [kg]	<b>21000</b>		<b>23000</b>
Load capacity [kg]	<b>16360*</b>		<b>17760*</b>
Trailer kerb weight [kg]	<b>4640</b>		<b>5240</b>
Lenght without a container [mm]	7313		7313
Lenght with the shortest/longest container [mm]	7413/8413		7413/8413
Width without a container [mm]	2550		2550
Width with a container (min/max) [mm]	2550		2550
Attachement dimensions of the container [mm]			
Hook lenght (min/max) [mm]	1450/1570		1450/1570
Rolls track [mm]	1070		1070
Rolls height [mm]	<b>1150</b>		<b>1180</b>
Allowable dimensions of the container			
Lenght (min/max) [mm]	5400/6400		5400/6400
Width [mm]	max 2550		max 2550
Height [mm]	max 2500		max 2500
Height of the trailer (without/with) container [mm]	2981/3650**		2981/3650**
Container maximum tipping angle/oil requirement/ oil pressure: [°/l/bar]	53/18/200		53/18/200
Wheel track [mm]	<b>1990</b>		<b>2000</b>
Suspension	<b>tandem with trailing arm</b>		<b>parabolic springs</b>
Hitch-ring load [kg]	3000		3000
Tyres [km/h]	<b>385/65 R22.5 RE</b>		<b>445/65 R22,5 RE</b>
Construction speed [hp/kW]	40		40
Minimum tractor power requirement:	<b>110/80.8</b>		<b>125/92</b>

\* with the weight of the container with recommended length, it might be necessary to move the container backwards while preparing for tipping  
 \*\* with container height 2500 mm

Hook trailer PRONAR T285/1



Hook trailer PRONAR T285 with container K004



Passively steered rear axle on T285/1



## STANDARD EQUIPMENT

## ADDITIONAL EQUIPMENT (OPTIONAL):

### T285

Tipping frame: rectangular made of closed profiles  
 Tandem suspension with 2 trailing arms and fixed axle shafts equipped in drum brakes 406x140mm  
 Drawbar: rigid, to couple with lower hitch of the tractor (transport hitch, piton fix)  
 Drawbar towing hitch: rotary towing eye Ø50 (hitch, piton fix)  
 Drawbar support: hydraulic straight leg with cut-off valve (it needs permanent or occasional connection with the tractor by single hydraulic line)  
 Hydraulic blocking system of the trailing arm (suspension)  
 Braking system: double line pneumatic or single line pneumatic or hydraulic  
 Crank hand brake  
 Rear bumper with manual setting in 3 positions (depends on length of the container)  
 12 V lightning system with side clearance lights  
 Rear lamps with protective grating  
 Steel mudguards over the wheels  
 Wheel chocks + racks  
 Mechanical container lock (for containers made in acc. to DIN 30722) with possibility to change the position depending on length of the container  
 Hydraulic reloading system with manual switch winch / tipper  
 Trailer requires a tractor with three pairs of hydraulic outputs (control of suspension lock, pivoting frame and hook frame)  
 Trailer hook with automatic container lock and regulated height in 2 positions (adaptation for containers acc. to DIN 30722 and acc. to SS 3021)  
 Chemically hardened two-component painting materials, UV-resistant.  
 Tipping frame colour: red RAL3000 PRONAR

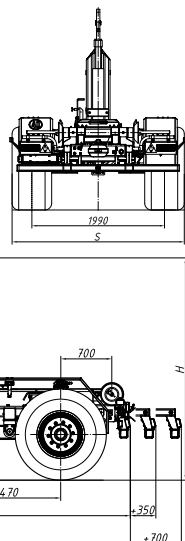
Drawbar towing hitch: fixed with towing eye Ø40mm  
 Drawbar towing hitch: ball-type K80mm  
 Drawbar towing hitch: fixed with towing eye Ø50mm (hitch, piton fix)  
 Drawbar support: telescopic supporting leg with two-step gear  
 Drawbar support: telescopic supporting leg with a pin  
 Side underrun protection  
 Plastic mudguards  
 Hydraulic container lock connected to suspension lock (for the tractors with min. 3 hydraulic output pairs), with electrohydraulic safety system  
 Hydraulic container lock controlled independently (for the tractors with min. 4 hydraulic output pairs), with electrohydraulic safety system  
 Electric steering from tractor's cabin of 4 functions: container lock, suspension lock, pivoting frame and hook frame)  
 Separate hydraulic system with oil container, a pump, transmission and PTO shaft with electric steering from tractor's cabin of 4 functions: suspension blockage, container lock, pivoting frame and hook frame)  
 Mechanical container lock for containers acc. to SS 3021  
 Braking system: combined (double line pneumatic + hydraulic)  
 Additional pair of hydraulic outlets at the back (to supply hydraulic backwall of the container)  
 Rear outlets of braking system for second trailer  
 Rear manual hitch, amortized  
 Rear automatic hitch RO'400A4600  
 Tool box  
 Tyres 385/65R22.5  
 Tyres 425/65R22.5  
 Tyres 445/65R22.5  
 Tyres 500/60R22.5  
 Tyres 600/50-22.5 - Trailer width over 2550mm  
 Tyres 600/50R22.5 - Trailer width over 2550mm  
 Tyres 620/50R22.5 (trailer width over 2550mm)  
 Spare wheel (separately) 385/65 R22.5 RE  
 Spare wheel (separately) 385/65 R22.5  
 Spare wheel (separately) 425/65 R22.5  
 Spare wheel (separately) 445/65 R22.5  
 Spare wheel (separately) 500/60 R22.5  
 Spare wheel (separately) 500/60 R22.5  
 Spare wheel (separately) 600/50-22.5  
 Spare wheel (separately) 600/50R22.5  
 Warning triangle  
 Additional pair of hydraulic outlets at the back (to supply hydraulic backwall of the container) and additional pair of hydraulic outlets located on the hook  
 Non standard colours according to RAL CALSSIC codes \*  
 \* doesn't apply to units on stock

### T285/1

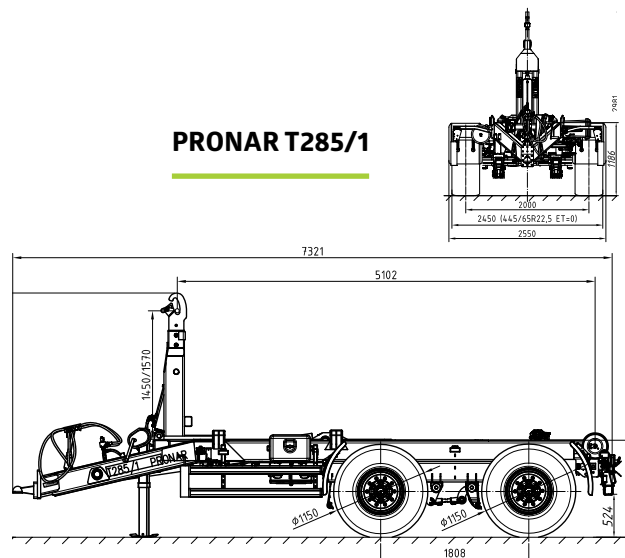
Tipping frame: rectangular made of closed profiles  
 Tandem suspension with 4 parabolic springs, axle base 1810mm, with fixed front axle and passively steered rear axle, drum brakes 406x140mm, with hydraulic turning angle lock (it needs permanent connection with the tractor by one pair hydraulic outputs)  
 Axles for 60 km/h  
 Drawbar: fixed to couple with lower hitch of the tractor (transport hitch, piton fix)  
 Drawbar towing hitch: rotary towing eye Ø50 (hitch, piton fix)  
 Drawbar support: hydraulic straight leg with cut-off valve (it needs permanent or occasional connection with the tractor by single hydraulic line)  
 Braking system: double line pneumatic or hydraulic  
 Crank hand brake  
 Rear bumper with manual setting in 3 positions (depends on length of the container)  
 Lighting system 12 V with side clearance lights  
 Rear lamps with protective grating  
 Plastic mudguards  
 Wheel chocks + racks  
 Central hydraulic system with electro-hydraulic safety system controlled by tractor's hydraulic divider (for tractors with 3 pairs of hydraulic outputs). Functions - suspension blockage, hydraulic container lock, hydraulic tipping with hydraulic switch winch/tipper with light signal, hydraulic hook arm  
 Trailer hook with automatic container lock and regulated height in 2 positions (adaptation for containers acc. to DIN 30722 and acc. to SS 3021)  
 Chemically hardened two-component painting materials, UV-resistant  
 Tipping frame colour: red RAL3000 PRONAR

Drawbar towing hitch: rotary with towing eye Ø40mm  
 Drawbar towing hitch: ball-type K80mm  
 Drawbar towing hitch: fixed with towing eye Ø50mm (hitch, piton fix)  
 Drawbar support: telescopic supporting leg with two-step gear  
 Drawbar support: telescopic supporting leg with a pin  
 Side underrun protection  
 Tool box  
 Braking system: double line pneumatic with ALB (automatic braking power control)  
 Braking system: combined (double line pneumatic + hydraulic)  
 Braking system: combined (double line pneumatic + hydraulic with electrical safety valve and braking power controller)  
 Rear couplings of braking system for second trailer  
 Rear manual hitch, amortized  
 Rear automatic hitch RO'400A4600  
 Electric steering from tractor's cabin of Central Hydraulic System (hydraulic system needs 1 pair of hydraulic couplings)  
 Electric steering from tractor's cabin of Central Hydraulic System and rear couplings (hydraulic system needs 1 pair of hydraulic couplings)  
 Additional pair of hydraulic outlets at the back (to supply hydraulic backwall of the container)  
 Suspension stabilizer (set for one axle)  
 Steel mudguards  
 Own hydraulic system with oil container, a pump, transmission and PTO shaft with electric steering of 3 functions from tractor's cabin : suspension blockage, pivoting frame and hook frame)  
 Own hydraulic system with oil container, a pump, transmission and PTO shaft with electric steering of 3 functions from tractor's cabin : suspension blockage, pivoting frame and hook frame) and rear outlets for second trailer  
 Tyres 500/60R22.5  
 Tyres 550/60-22.5  
 Tyres 560/60R22.5  
 Tyres 600/55-22.5 - Trailer width over 2550mm  
 Tyres 600/50R22.5 - Trailer width over 2550mm  
 Tyres 620/50R22.5 - Trailer width over 2550mm  
 Spare wheel (separately) 445/65 R22.5  
 Spare wheel (separately) 500/60 R22.5  
 Spare wheel (separately) 550/60-22.5  
 Spare wheel (separately) 560/60-R22.5  
 Spare wheel (separately) 600/55-22.5  
 Spare wheel (separately) 600/50 R22.5  
 Spare wheel (separately) 620/50 R22.5  
 Warning triangle JEST W KARCIE  
 Additional pair of hydraulic outlets at the back (to supply hydraulic backwall of the container) and additional pair of hydraulic outlets located on the hook  
 Non standard colours according to RAL CALSSIC codes \*  
 \* doesn't apply to units on stock

PRONAR T285



PRONAR T285/1



## Main differences between PRONAR T285/1 and PRONAR T285



7. Zawieszenie tandem sztywne typu boogie



Tandem suspension with 4 parabolic Springs



Automatic switching between hook-tipper

### PRONAR T285/1



### PRONAR T285

Trailing arms (rigid suspension)

Boogie suspension

Manual switching between hook-tipper





## Common features of PRONAR T285/1 and PRONAR T285



Drawbar support: telescopic supporting leg with two-step gear



Hydraulic blocking system of the trailing arm (suspension)



Hook frame actuator



Tool box



Crank hand brake



Drawbar support: hydraulic straight leg with cut-off valve



Rear lamps with protective grating



Hydraulic container lock



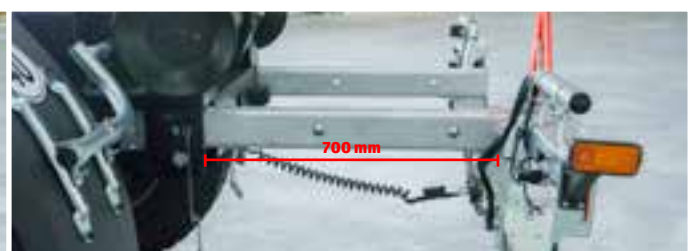
Side underrun protection



Pairs of hydraulic and pneumatic outlets at the back



Plastic mudguards



Rear bumper with manual setting in different positions (depends on length of the container)



Hook lift trailer **Pronar T286** is a versatile product that can be applied to various works in agricultural, construction, municipal, forestry or horticulture. Purchasing this trailer is a great saving for a farmer which is gained from the single chassis which is used and multiple bodies which are made based on hook container's frame. **PRONAR T286** has the features that greatly enhance its functionality and range of use.

**PRONAR T286**

- Hydraulically extendable, galvanized underrun protections. Cylinder skip - 70 cm.
- Telescopic arm
- 6 transportation roll for easy container hauling
- Two main cylinders increase strength and stability of the framework
- Hydraulic drawbar suspension with height adjustment
- Remote control
- Pairs of hydraulic and pneumatic outlets at the back
- Rear axle suport
- Tandem suspension with 4 parabolic Springs
- Rigid front axle and passively steered rear axle with hydraulic turning blockade

## TECHNICAL DATA OF STANDARD EQUIPMENT

T286

Permissible total weight (technically) [kg]	23000
Permissible total weight [kg]	23000
Load capacity [kg]	17100
Weight [kg]	5900
Lenght without a container [mm]	7870
Lenght with the shortest/longest container DIN30722-1 [mm]	7870 / 8940
Width w-ithout a container [mm]	2550
Width with a container (min/max) [mm]	2550
Attachement dimensions of the container:	
Hook lenght: (min/max) [mm]	1450/1570
Rolls track [mm]	1070
Permissible dimensions of the container:	
Lenght (min/max) [mm]	5400/6900
Length inside ( min/max) [mm]	5000/6500
Width [mm]	max. 2550
Height [mm]	max. 2000
Space under floor [mm]	min. 150
Height of the trailer without the container [mm]	3080
Rolls height [mm]	1230
Container maximum tipping angle/oil requirement [°/l]	50/25
Wheel track [mm]	2000
Suspension	parabolic springs
Hitch-ring load [kg]	3000
Tyres	445/65R22.5
Construction speed [km/h]	40
Minimum tractor power requirement [KM/kW]	125/92



PRONAR T286/K004

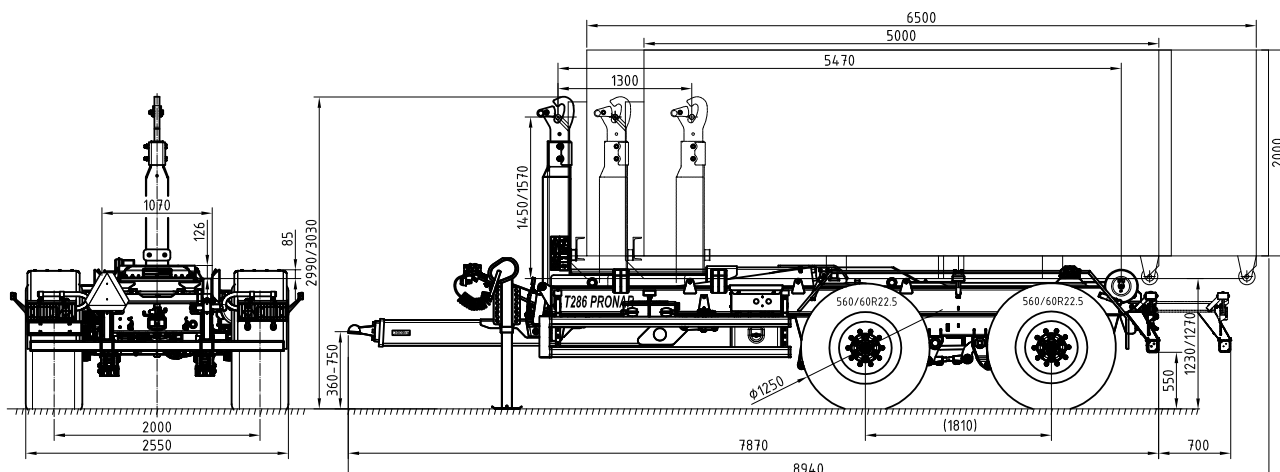
## STANDARD EQUIPMENT

T286

Chassis frame: rectangular made of closed profiles  
 Tandem suspension with 4 parabolic springs, axle base 1810mm, with fixed front axle and passively steered rear axle, drum brakes 406x140mm, with hydraulic turning angle lock (it needs permanent connection with the tractor by one pair of hydraulic outputs)  
 Axles for 60 km/h  
 Drawbar with hydraulic amortization and fluent height adjustment to couple with hitch, piton fix, transport hitch, ball-type  
 Drawbar: fixed to couple with lower hitch of the tractor (transport hitch, piton fix)  
 Drawbar towing hitch: rotary towing eye Ø50 (hitch, piton fix)  
 Drawbar support: hydraulic straight leg  
 Hydraulic rear bumper  
 Lighting system 12 V with side clearance lights, rear electric socket, LED lamps, hermetic conections  
 Rear lamps with protective grating  
 Steel mudguards over the wheels  
 Braking system: double/single line pneumatic or hydraulic  
 Central hydraulic system with electro-hydraulic safety system electrically controlled (system needs permanent connection with the tractor by one pair of hydraulic outputs). Functions - suspension blockage, hydraulic container lock, hydraulic tipping (2 cylinders), automatic switching hook/tipper with light signal, telescopic hook arm hydraulically controlled, rear bumper hydraulically controlled, control of the one pair of hydraulic outputs at the back of the trailer (f.e. to connect hydraulic backwall of the container or hydraulic tipping system of the second trailer), software with safeguard which do not allow to start incorrect function  
 Trailer hook with automatic container lock and regulated height in 2 positions (adaptation for containers acc. to DIN 30722-1 and acc.to SS 3021)  
 Wheel chocks + racks  
 Crank hand brake  
 Chemically hardened two-component painting materials, UV-resistant  
 Tipping frame colour red RAL3000 PRONAR

## ADDITIONAL EQUIPMENT (OPTIONAL):

Drawbar towing hitch: fixed with towing eye Ø40mm  
 Drawbar towing hitch: ball-type K80mm  
 Drawbar towing hitch: fixed with towing eye Ø50mm (hitch, piton fix)  
 Drawbar support: hydraulic folded leg  
 Drawbar support: telescopic supporting leg with two-step gear  
 Side underrun protection  
 Tool box  
 Braking system: double line pneumatic with ALB (automatic braking power control)  
 Rear couplings of braking system for second trailer  
 Additional pair of hydraulic outlets located on the hook  
 Rear manual hitch, amortized  
 Rear automatic hitch RO'400A4600  
 Plastic mudguards  
 Tyres 500/60R22.5  
 Tyres 550/60-22.5  
 Tyres 560/60R22.5  
 Tyres 600/55-22.5 - Trailer width over 2550mm  
 Tyres 600/50R22.5 - Trailer width over 2550mm  
 Tyres 620/50R22.5 - Trailer width over 2550mm  
 Spare wheel 445/65 R22.5 (separately)  
 Spare wheel 500/60 R22.5 (separately)  
 Spare wheel 550/60-22.55 (separately)  
 Spare wheel 560/60-R22.5 (separately)  
 Spare wheel 600/55-22.5 (separately)  
 Spare wheel 600/50 R22.5 (separately)  
 Spare wheel 620/50 R22.5 (separately)  
 Warning triangle  
 Air suspension  
 Non standard colours according to RAL CALSSIC codes \*  
 Aluminium rifled mudguards  
 Rubber mudflap at the back over the entire width of the trailer  
 Braking system: combined (double line pneumatic with ALB + hydraulic)





Hook trailer **PRONAR T386** can be used for many different tasks in many areas of the economy like agriculture, construction, municipal or orchards. It can be used throughout the year and regardless of weather conditions. It is a practical way to collect, transport, and emptying various types of containers with a length from 5 to 7.5 m -both box containers, tanks, platforms, tippers and many others. Multifunctional trailer has hundreds of applications and the direct effect is higher productivity, lower investment and operating costs.



Rear lamps with protective grating



Hydraulic container lock



Pair of hydraulic sockets on the hook

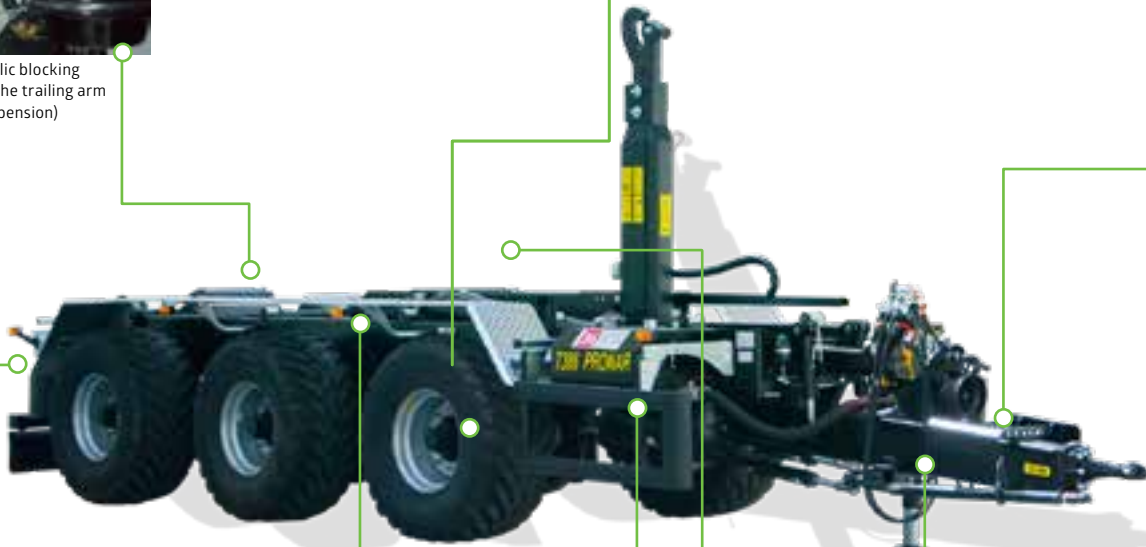


Actively steered axes



Hydraulic blocking system of the trailing arm (suspension)

**PRONAR T386**



Tridem suspension on parabolic springs, with active front and rear axles



Side underrun protection



Aluminium rifled mudguards



Hydraulic folded leg



TECHNICAL DATA OF STANDARD EQUIPMENT	T386
Allowable total weight (technically) [kg]	34000
Allowable total weight [kg]	33000
Loading capacity (including container weight) [kg]	25000
Empty weight [kg]	8000
Length without a container [kg]	8590
Width without a container [mm]	2550
Width with a container [mm]	2550
Allowable dimensions of the container	
- hook length (min/max) [mm]	1450/1570
- rolls track [mm]	1060
- internal length [mm]	5000/7500
- external length [mm]	max. 2550
- internal length [mm]	max. 2500
Height of the trailer (without container) [mm]	3030
Container maximum tipping angle [°]	52
Wheel track [mm]	2100
Suspension	Tridem, parabolic springs (1810 mm axle base)
Hitch-ring load [kg]	3000
Tyres	445/65R22,5
Construction speed [km/h]	40
Minimum tractor power requirement [HP/kW]	182/133,8



Central hydraulic system with own oil tank



Pair of hydraulic sockets, electric socket and rear hitch at the back

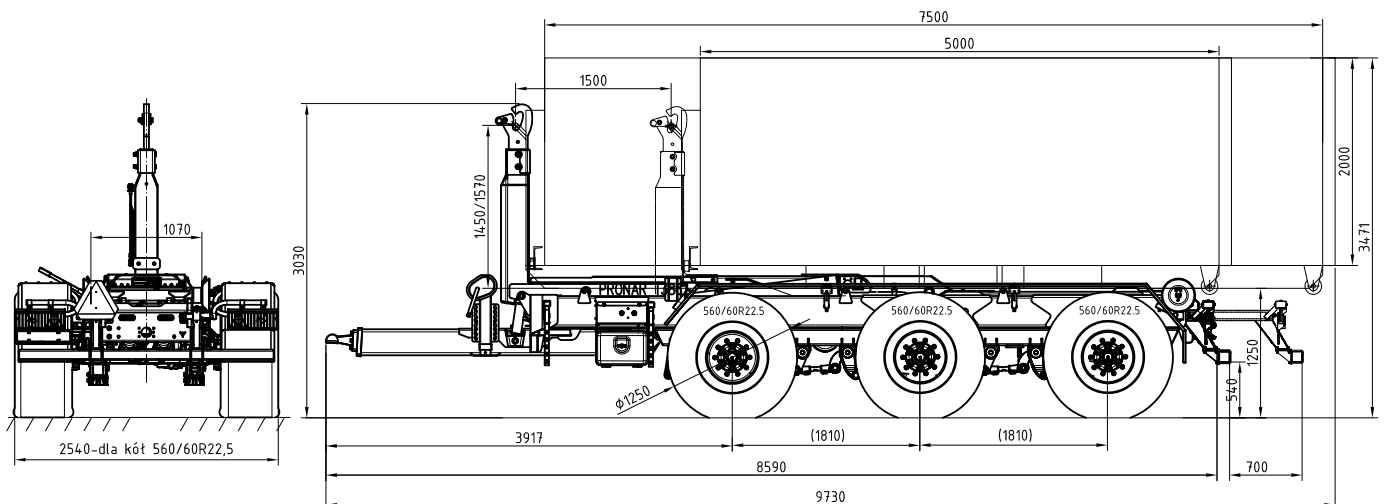
## STANDARD EQUIPMENT

### T386

Chassis frame: rectangular made of closed profiles  
 Drawbar with hydraulic shock absorption cylinder with stepless height adjustment  
 Drawbar towing hitch: rigid K80mm to couple with ball type hitch of the tractor  
 Drawbar support: telescopic supporting leg with two-step gear  
 Tridem suspension with 1810 mm axle base with fixed middle axle and active steering of front and rear axles, drum brakes 400x140.  
 Braking system: double line pneumatic with automatic regulation of braking force (ALB) or hydraulic  
 Rear bumper with hydraulic control  
 Lighting system LED with clearance lights  
 Plastic or steel mudguards  
 Central hydraulic system with own hydraulic tank, hydraulic pump driven by PTO shaft, with electro-hydraulic security system powered by wires.  
 It controls functions:  
 - hydraulic tipping with 2 cylinders  
 - hydraulic switch tipper / hook trailer  
 - hydraulic telescopic hook's frame  
 - hydraulic suspension lock  
 - hydraulic lock of the container  
 - control of the one pair of hydraulic outputs at the back of the trailer (f.e. to connect hydraulic backwall of the container or hydraulic tipping system of the second trailer)  
 - hydraulic rear bumper  
 Light indicator on the control panel indicating the on-line features of the central hydraulic system  
 Trailer hook with automatic container lock and regulated height in 2 positions (adaptation for containers acc. to DIN 30722-1)  
 Wheel chocks + racks (2 pcs)  
 Chemically hardened painting materials, UV-resistant  
 Chassis color red RAL3000 PRONAR

## ADDITIONAL EQUIPMENT (OPTIONAL)

Drawbar towing hitch: rotary with towing eye Ø50mm (hitch, piton fix)  
 Drawbar support: hydraulic folded leg  
 Braking system: double line pneumatic with manual braking force control  
 Tool box  
 Rear automatic hitch Rockinger RO'400B4600  
 Rear hitch manual  
 Spare wheel (separately) 445/65 R22,5  
 Spare wheel (separately) 500/60 R22,5  
 Spare wheel (separately) 550/60-22,5  
 Spare wheel (separately) 560/60 R22,5  
 Spare wheel (separately) 600/55-22,5  
 Spare wheel (separately) 600/50 R22,5  
 Spare wheel (separately) 620/50 R22,5  
 Tyres 500/60 R22,5  
 Tyres 550/60-22,5  
 Tyres 560/60 R22,5  
 Tyres 600/55-22,5 Trailer width over 2550mm  
 Tyres 600/50 R22,5 Trailer width over 2550mm  
 Tyres 620/50 R22,5 Trailer width over 2550mm  
 Aluminium rifled mudguards  
 Additional pair of hydraulic outlets located on the hook  
 Rubber mudflap at the back over the entire width of the trailer  
 Side underrun protection  
 Non standard colours according to RAL CALSSIC codes \*





**PRONAR** container **KO01** offers more than 15m<sup>3</sup> of load volume and is designed for agricultural use. Construction of this container is additionally reinforced by steel C profiles. Functionality is increased by using of rear double-door with central lock. In combination with hook trailer this container is an excellent tool which offers versatility and high quality workmanship.

**PRONAR** container **KO02** offers 7,4m<sup>3</sup> of load volume and it is one of the four proposals. In combination with hook trailer this container is an excellent tool for work in construction, transport, agriculture and municipal services. Special reinforcements of walls have been adapted to work in hard conditions. Thanks to the increased thickness of components is very robust and is ideal for transporting rubble.

**PRONAR** container **KO03** is designed to work with hook trailers. It can be used to transport heavy materials, debris, stone, gravel. Opened construction with increased thickness allows to use this container by construction companies, especially thanks to wear-resistant steel used in this product.

**PRONAR** container **KO04** offers more than 26m<sup>3</sup> of load volume and it is the largest container in PRONAR offer. Thanks to reinforcements it is very robust, capacious and is ideal for transporting grain, leafs and wood chips. Functionality is increased by using of rear double-door with central lock. In combination with hook trailer this container is an excellent tool to work in agriculture, construction, transport and municipal services.

### PRONAR KO 01



### PRONAR KO 02



### PRONAR KO 04



#### TECHNISCHE DATEN

	Container KO01	Container KO02/KO03	KO04
Allowable total weight [kg]	12000	12000	16000
Load capacity [kg]	10450	10560	13500
Empty weight [kg]	1550	1440	2500
Load volume [m <sup>3</sup> ]	15,1	7,4	26,45
Loading space [m <sup>2</sup> ]	10,92	10,92	13,22
Internal container length [mm]	4560	4560	5750
Internal container width [mm]	2395	2392	2300
Internal container height [mm]	1405	700	2000
Dimensions: length/width/height [mm]	5017/2506/1762	5004/2550/1562	6198/2512/2341
Floor/wall thickness [mm]	4/3	6/4	5/3
Platform height, measured from the ground [mm]	294	296	295
Wheel track [mm]	2058	2058	2160
Stringer's track [mm]	1060	1060	1065
Distance of the container blockade to the hook handle [mm]	3540	3540	3515
Hook handle height [mm]	1450	1450	1570

#### STANDARD EQUIPMENT

##### KO01

- Sidewalls made of C-profiles
- Double-wing tailgate with central locking mechanism
- Chemically hardened painting materials , UV-resistant.

##### KO02

- Sidewalls made of C-profiles
- One-wing tailgate opened downwards or to the right and swinging upwards
- Chemically hardened painting materials , UV-resistant.

##### KO03

- Sidewalls, floor and tailgate made of abrasion-resistant steel
- Sidewalls made of C-profiles
- One wing tailgate opened downwards or to the right and swinging upwards
- Chemically hardened painting materials , UV-resistant.

##### KO04

- Sidewalls made of C-profiles
- Central opening of a double-wing tailgate
- Additional locking system of the tailgate
- Chemically hardened painting materials , UV-resistant.
- Paintwork: green RAL 6010 PRONAR



Hydraulic switching tipper/hook trailer



# MANURE SPREADERS

MANURE SPREADERS PRONAR N161, N162/2, N262 , N262/1, N262/2	114
MANURE SPREADERS PRONAR NV161/1, NV161/2, NV161/3, NV161/4, NV161/5	120





**PRONAR** **24** **MONTHS WARRANTY\***

\* Ask Your local Authorized Dealer and Sales Representative or see PRONAR.PL for more details.

MANURE SPREADERS  
**PRONAR N161, N162/2,  
 N262, N262/1, N262/2**



Excellent choice for small farms. One axle **PRONAR** manure spreader **N161** with 6 tons of loading capacity is the smallest in our offer. Screwed spreading blades making them easily changed. Construction of loading box allows fast opening of side walls. Unloading system consist four chains made of wear-resistant steel connected to crossbars.

**PRONAR** manure spreader **N162/2** with 10 tons of load capacity is perfectly suited for medium and big farms. As an option you may choose adapter with 2 vertical beaters. Movable parts are covered by tiltable cover. Tandem suspension with Tyres 550/50-22.5 reduce pressure on the soil.

**PRONAR** manure spreader **N262** with 12 tons of load capacity is perfectly suited for medium and big farms. Adapter's efficiency is 4m<sup>3</sup>/min and its spreading width is from 12 up to 25m. Stiff and reliable construction allows to spread all kinds of manure, lime, peat, compost, sewage sludge and pasty materials. Amortized tandem suspension with wide tyres reduce pressure on the soil.

**PRONAR** manure spreader **N262/1** is the biggest in our offer. Stiff and reliable construction allows to spread all kinds of manure, lime, peat, compost, sewage sludge and pasty materials. Loading box with side walls 1265 mm of height has 14m<sup>3</sup> of load volume. Conveyor has been reinforced and it consists of 4 chains, chain link 14 mm of thickness. Adapter's efficiency is 4m<sup>3</sup>/min and its spreading width is from 12 up to 25m.

The **PRONAR N262/2** manure spreader allows spreading of manure, peat, compost and lime with a capacity of 4 m<sup>3</sup> / min. Achieving optimal performance requires the use of a 170HP trailer. The N262/2 load box is made in the form of a shell permanently welded to the backrest frame, which is a very reliable and reliable structure. The whole rests on a tandem suspension with parabolic springs. On request, the N262 / 2 spreader can also be made with passively steered rear steering axle and hydraulic turning lock system, with electronic smooth control of the floor conveyor directly from the cabin and with extensions increasing the capacity of the load box.

**PRONAR N161**



**PRONAR N162/2**



**PRONAR N262**



**PRONAR N262/1**

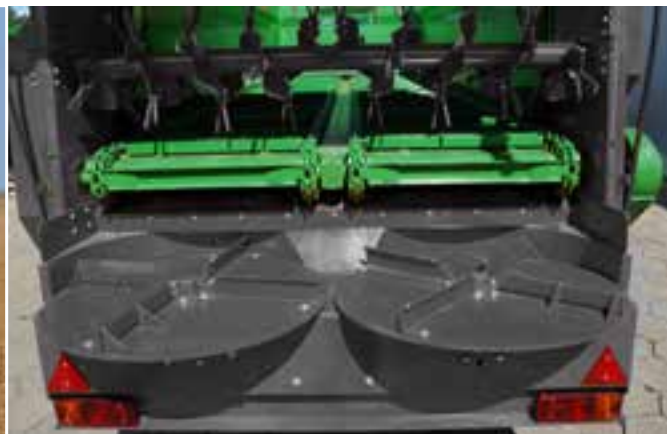


**PRONAR N262/2**





Horizontal spreading adapte PRONAR N161



PRONAR N262/1 - Adapter AH20 with two wide spreading, balanced plates

TECHNICAL DATA OF STANDARD EQUIPMENT	N161	N162/2	N262	N262/1	N262/2
Allowable total weight [kg]	8200	15100	18660*	21200*	22000*
Load capacity [kg]	6000	10140*	12000**	14000*	14800**
Empty weight [kg]	2200	4960**	6660	7200**	7600
Load volume [m <sup>3</sup> ]	4.1	9	11.3	14	18
Loading space [m <sup>2</sup> ]	7.6	8.5	8.9	11.1	11.1
Internal length of Loading space [mm]	4000	4400	4500	5600	5600
Internal width of Loading space [mm]	1900	1930	trapezoid 1955/1995	trapezoid 1955/1995	1955/1995
Length [mm]	5780	7455	8000	9000	8780
Width [mm]	2230	2440	2510	2550	2540
Height [mm]	2750	3285	3740	3740	3450
Sidewall height [mm]	600	1040	1265	1265	1200/ nadstawa 300
Floor/wall thickness [mm]	3/2,5	3/3	4/3	4/3	4/3
loading height [mm]	1750	2350	2800	2800	2800
Wheel track	1660	1820	1900	1940	1940
Suspension	Single axle, fixed	tandem – parabolic springs	tandem – parabolic springs	tandem – parabolic springs	tandem – parabolic springs
Hitch-ring load [kg]	1500	2100	2200	2200	4000
Tyres	500/50-17	500/50-17	550/60-22.5	600/50-22.5	600/55-22.5
Construction speed [km/h]	25	25	40	40	40
PTO range [rpm]	540	1000	1000	1000	1000
Minimum tractor power requirement/adaptor type [hp/kW]	68/50	105/77.2	127.3/93.6	147.4/108.3	170/125
Adapter type/max spreading width [-/m]	AH21/2.4	AV40/6	AH20/25	AH20/25	AV20(20183)

\* construction parameters allowable, homologation parameters may be different from those given

\*\* empty weight is different in the case of non-standard implementation





# PRONAR N161, N162/2, N262, N262/1, N262/2

## STANDARD EQUIPMENT

## ADDITIONAL EQUIPMENT (OPTIONAL):

	N161
<p>Walls: made of high quality, strong, laser welded profiles PF600mm, made of profiled sheets, with forged hinges and locks            Load box with swinging opening system of side wall (walls open downwards)            Suspension: fixed single axle            AH21 adapter with 2 horizontal beaters            Chain conveyor with two 11mm chains of high quality steel, with hydraulic drive and stepless speed regulation            Rigid drawbar for connecting to the tractor's lower hitch            Drawbar towing hitch: rotary with towing eye Ø50mm            Drawbar support: straight with folded steel wheel            Hydraulic control from the tractor distributor (smooth regulation shift of conveyor)            Double line pneumatic braking system with manual braking force regulator            Support wheel for the drawbar            Braking system: double line pneumatic or hydraulic            Lighting system 12V (light bulb)            Parking brake with crank            Wheel chocks + galvanized racks (2pcs)            Rear lighting lamp with protection grates            Spiral connection cable of the lightning installation            Front protective mesh            PTO shaft- standard Z6 with an overload clutch            Chemically hardened two-component painting materials, UV-resistant            Coloring of the frame and wall painting: green RAL6010 PRONAR            Colour for spreading adapter red RAL3000 PRONAR</p>	<p>Rigid drawbar for connecting to the upper tractor hitch            Drawbar towing hitch: fixed with towing eye Ø40mm            PTO shaft standard Z21 with overload clutch            PTO shaft wide-angle 6x21 with overload clutch            PTO shaft wide-angle 6x6 with overload clutch            Spare wheel (separately)            Triangle for slow moving vehicles            Axles 40 km/h (Permissible total weight 8200 kg, only with double line pneumatic brakes)            Non standard colours according to RAL CALSSIC codes*            Single line pneumatic braking system            Hydraulic brake system</p>
	N162/2
<p>Tandem suspension on 4 parabolic springs, compensatory control arm, with rigid axles            Monocoque loading case            Holes in the front wall of the load box            AV40 adapter with 4 vertical beaters            Wooden protective strip on the upper edge of the load box            Chain conveyor with four 14mm chains of high quality steel, with hydraulic drive and stepless speed regulation            Drawbar type: universal fixed to couple with lower or upper hitch of the tractor            Drawbar towing hitch: rotary with towing eye Ø50mm            Drawbar support: telescopic mechanical straight leg            Single-line lubrication system for sliding bearings of the front wheels of the conveyor            Hydraulically lifted rear cover, the system requires a pair of external tractor hydraulic socket            Telescopic drawbar support with single-stage gearbox            Hydraulic control from the tractor distributor (smooth regulation shift of conveyor)            Double line pneumatic braking system with manual braking force regulator            Control from tractor hydraulic distributor            Parking brake with crank            Single line greasing system of the adapter's bearing            Lighting system 12V (light bulb)            Mudguards            Wheel chocks + galvanized racks (2 pcs.)            Spiral connection cable of the lightning installation            Rear bumper, folded            Front protective mesh            Folded ladder and access steps to loading case            Chemically hardened two-component painting materials, UV-resistant.            Sidewalls, drawbar, axles and conveyor mechanism colour: green RAL6010 PRONAR            Adapter, mudguards and front mesh colour: red RAL3000 PRONAR</p>	<p>AV20 adapter with 2 vertical beaters            40 km/h version (only with double line pneumatic brake system)            Hydraulically driven rear sliding wall with indicator            Drawbar towing hitch rigid with towing eye Ø40 mm to couple with upper hitch of the tractor            Drawbar towing hitch rigid ball type K80 mm to couple with lower hitch of the tractor            PTO shaft - standard            PTO shaft - wide angle            Paintwork RAL CLASSIC for industrial uses            Triangle for slow moving vehicles            Spare wheel (separately)            Single line pneumatic braking system            Double line pneumatic with automatic (ALB) braking power controller            Hydraulically lifted rear cover, the system requires a pair of external tractor hydraulic socket            Non standard colours according to RAL CALSSIC codes*</p>



Manure spreader PRONAR N262/1



Manure spreader PRONAR N262

### STANDARD EQUIPMENT

Monocoque loading case  
 Holes in the front wall of the load box  
 Tandem suspension with 4 parabolic springs, compensatory control arm, wheel base 1360mm fixed axles equipped with drum brakes 406x120mm  
 AH20 adapter with 2 horizontal auger beaters with screwed vanes and 2 spreading discs with four screwed vanes on each disc  
 Wooden protective strip on the upper edge of the load box  
 Hydraulic control from the tractor distributor (smooth regulation shift of conveyor), the system requires a pair of external tractor hydraulic socket  
 Chain conveyor with four 14mm chains of high quality steel, with hydraulic drive and stepless speed regulation  
 Hydraulically lifted reinforced rear wall with elevation height indicator, the system requires a pair of external tractor hydraulic socket  
 Drawbar hitch: rotary with eye Ø50mm  
 Wheel chocks + galvanized racks (2pcs)  
 Double line pneumatic braking system with manual braking force regulator  
 Parking brake with crank  
 Hydraulically lifted rear cover, the system requires a pair of external tractor hydraulic socket  
 Hydraulic straight drawbar support with shut-off ball valve (support supply system requires constant or occasional use of one hydraulic socket from the tractor)  
 Spiral connection cable of the lightning installation  
 Front protective mesh  
 Folded ladder and access steps to the loading case  
 Mudguards  
 Lighting system 12V (light bulb)  
 Rubber lining of the tailgate  
 Single line greasing system of the adapter's bearing  
 Height indicator of the rear slurry gate  
 Chemically hardened two-component painting materials, UV-resistant  
 Sidewalls, drawbar, axles and conveyor mechanism color: green RAL6010 PRONAR  
 Rear sliding wall, adapter, mudguards and front mesh color: gray RAL7021 PRONAR

### ADDITIONAL EQUIPMENT (OPTIONAL):

#### N262

Double line pneumatic with automatic (ALB) braking power controller  
 Drawbar type rigid to couple with upper hitch of the tractor  
 Drawbar towing hitch rigid with towing eye Ø40 mm to couple with upper hitch of the tractor  
 Drawbar towing hitch rigid ball type K80 mm to couple with lower hitch of the tractor  
 Rear protection: homologated, folded  
 PTO shaft - standard  
 PTO shaft - wide angle  
 Tyres 600/55-22,5  
 Tyres 600/50R22,5  
 Spare wheel (separately)  
 Slow moving vehicle triangle  
 Single line pneumatic braking system  
 Hydraulic brake system  
 Control of the manure spreader hydraulic distributor (conveyor feed, gate valve, damper, support), the system requires a pair of external tractor hydraulic socket  
 Holes in the back wall with PLEXI board  
 Non standard colours according to RAL CALSSIC codes\*

#### N262/1

Monocoque loading case  
 Tandem suspension with 4 parabolic springs, compensatory control arm  
 wheel base 1360mm fixed axles equipped with drum brakes 406x120mm  
 Hydraulically lifted rear cover, the system requires a pair of external tractor hydraulic socket  
 Hydraulically lifted reinforced rear wall with elevation height indicator, the system requires a pair of external tractor hydraulic socket  
 AH20 adapter with 2 horizontal auger beaters with screwed vanes and 2 spreading discs with four screwed vanes on each disc  
 Chain conveyor with four 14mm chains of high quality steel, with hydraulic drive and stepless speed regulation  
 Drawbar type: fixed to couple with lower hitch of the tractor  
 Drawbar hitch: rotary with eye Ø50mm  
 Holes in the front wall of the load box  
 Hydraulic control from the tractor distributor (smooth regulation shift of conveyor), the system requires a pair of external tractor hydraulic slots  
 Double line pneumatic braking system with manual braking force regulator  
 Parking brake with crank  
 Wooden protective strip on the upper edge of the load box  
 Wheel chocks + galvanized racks (2pcs)  
 Hydraulic straight drawbar support with shut-off ball valve (support supply system requires constant or occasional use of one hydraulic socket from the tractor)  
 Spiral connection cable of the lightning installation  
 Rubber lining of the tailgate  
 Front protective mesh  
 A ladder and side steps facilitating access to the loading case  
 Mudguards  
 Lighting system 12V (light bulb)  
 Single line greasing system of the adapter's bearing  
 Chemically hardened two-component painting materials, UV-resistant  
 Sidewalls, drawbar, axles and conveyor mechanism colour: green RAL6010 PRONAR  
 Rear sliding wall, adapter, mudguards and front mesh colour: gray RAL7021PRONAR

Double line pneumatic with automatic (ALB) braking power controller  
 Drawbar type rigid to couple with upper hitch of the tractor  
 Drawbar towing hitch rigid with towing eye Ø40 mm to couple with upper hitch of the tractor  
 Drawbar towing hitch rigid ball type K80 mm to couple with lower hitch of the tractor  
 Rear protection: homologated, folded  
 PTO shaft - standard  
 PTO shaft - wide angle  
 Tyres 600/55-22,5  
 Tyres 600/50-R22,5  
 Spare wheel (separately)  
 Triangle for slow moving vehicles  
 The rear steering axle is passively controlled with hydraulic steering lock system (axles longer than standard) hydraulic system requires a pair of external tractor hydraulic socket  
 Single line pneumatic braking system  
 Hydraulic brake system  
 Control of the manure spreader hydraulic distributor (conveyor feed, gate valve, damper, support), the system requires a pair of external tractor hydraulic socket  
 Holes in the back wall with PLEXI board  
 Wheels with tires: 600 / 50-22.5 (standard); 600 / 50R22.5; 600 / 55-22.5 (the width of the manure spreader exceeds 2550mm - in the version with torsion axle)  
 Wheels with tires: 700 / 40-22.5 (only with suspension on rigid axles, axles longer than standard - width of the manure spreader exceeds 2550mm)  
 Non standard colours according to RAL CALSSIC codes\*



Vertical spreading adapter



Spreader N262/1- hydraulic conveyor drive

### STANDARD EQUIPMENT

Monocoque load box with 300mm high extensions  
 Openings in the front wall of the load box  
 Wooden protective strip for the upper edge of the load box  
 Front protective mesh  
 Tandem suspension with 4 parabolic springs, with equalizing arms, with a wheelbase of 1500 mm, with rigid axles equipped with drum brakes, dimensions Ø406x140 mm  
 2-roller vertical spreading adapter AV20  
 Chain conveyor with four chains, 14 mm thick, made of high-quality steel, with a hydraulic drive, with stepless regulation of the travel speed.  
 Hydraulic control from the tractor's manifold (smooth adjustment of the conveyor's advance), the system requires a pair of external hydraulic outputs of the tractor  
 Hydraulically lifted shutter, the system requires a pair of external hydraulic outputs of the tractor  
 Steel spring amortized drawbar to connect with the tractor's lower hitch  
 Drawbar hitch, rotating with Ø50mm eye  
 Drawbar support: telescopic with two-stage gear  
 Braking system: double line pneumatic with manual braking force regulator  
 Parking brake with crank  
 Installation of 12V lighting (LED), with hermetic connections, with marker lighting  
 Connecting cable, spiral, lighting installation  
 Folding ladder and side steps for easy access to the load box  
 Metal fenders (above the wheels)  
 Two wheel chocks placed in galvanized pockets  
 A paint system with high anti-corrosion resistance using chemically hardened two-component paint materials that provide high durability of paint coatings and resistance to UV  
 Frame and box painting colours, green RAL6010 PRONAR  
 The colour of the spreading adapter, gray RAL7021 PRONAR

### ADDITIONAL EQUIPMENT (OPTIONAL):

#### N262/2

Extensions for transporting green forage, 500 mm high, increasing the capacity to 22.4 [m<sup>3</sup>]; (mounted on a load box with 300mm side extensions, the removal of the adapter is necessary to transport the green forage)  
 Drawbar hitch: rigid with a K80mm eye, to be connected to the lower hitch of the tractor  
 Hydraulically opened, two-wing rear guard - deflector limiting the spread, selection of the spreading limitation side by means of manual valves on the spreader, the system requires a pair of external hydraulic outputs of the tractor  
 Hydraulic, articulated drawbar support with a cut-off ball valve  
 Passively steered rear axle (both axles are rigid and torsional, 2100mm long) with a hydraulic turning lock, the hydraulic system requires a pair of external tractor hydraulic outputs (the spreader width exceeds 2550mm for all types of wheels)  
 Braking system: double line pneumatic with ALB  
 Hydraulic braking system  
 PTO shaft - standard  
 Articulated telescopic shaft - wide angle  
 Wheels with tires: 600 / 55-22.5; 600 / 50R22,5 (with suspension on rigid axles (2000mm longer than standard axles) or on a steering axle (2100mm longer than standard axles - the spreader width exceeds 2550mm))  
 Wheels with tires: 620 / 50R22.5; 600 / 55-26.5; 600 / 55R26.5; (spreader width exceeds 2550mm)  
 Wheels with tires: 700 / 50-26.5; 710 / 45-26.5; 710 / 50R26.5 (only with suspension on rigid axles (2000mm longer than standard axles) or on a steering axle (2100mm longer than standard axles - spreader width exceeds 2550mm))  
 Spare wheel loose  
 Triangle distinguishing slow-moving vehicles  
 Colours according to the RAL CLASSIC colour marking system for industrial applications, by providing the word RAL CLASSIC and four numbers from the pattern palette





Manure spreader PRONAR N262/2



MANURE SPREADERS



# PRONAR NV161/1, NV161/2, NV161/3, NV161/4, NV161/5

Spreaders of series **PRONAR NV161** are designed for precise and uniform spreading of manure, peat or compost. **NV** spreaders are efficient, solid and durable machines, the use of them ensures perfect and effective fertilization. They have optimum capacity from 9,1 m<sup>3</sup> to 14,9 m<sup>3</sup> thereby **NV161** spreaders are best solution for both small and big farms.

PRONAR NV161/1



PRONAR NV161/2



PRONAR NV161/3



PRONAR NV161/4



PRONAR NV161/5



NV161/3



TECHNICAL DATA OF STANDARD EQUIPMENT	NV161/1	NV161/2	NV161/3	NV161/4	NV161/5
Permissible total weight [kg]	10500*	12300*	14200*	17200*	19900*
Load capacity [kg]	6750*	8490*	10240*	12290*	14650*
Empty weight [kg]	3750**	3810**	3960**	4910**	5250**
Load volume [m <sup>3</sup> ]	9,1	10,7	11,8	13,1	14,9
Loading space [m <sup>2</sup> ]	6,7	6,7	6,7	7,5	8,5
Loading height [mm]	2250	2500	2430	2370	2610
Dimensions: length/width/height [mm]	7250/2540/2560	7250/2540/2610	7330/2760/2700	7970/2970/2740	8580/2950/2730
Dimensions of the loading case: length/width/height [mm]	4500/2000-1500 /1160	4500/2000-1500 /1360	4500/2000-1500 /1500	5000/2000-1500 /1250	5680/2000-1500 /1500
Floor thickness [mm]	4	4	4	4	4
Wall thickness [mm]	4	4	4	4	4
Wheel track [mm]	2050	2050	2170	2300	2300
Suspension	Single axle, fixed	Single axle, fixed	Single axle, fixed	Single axle, fixed	Single axle, fixed
Hitch ring load	2000	2500	3000	3000	4000
Tyres	18.4-34	18.4-38	23.1-26	650/65-30.5	650/65-30.5
Construction speed	30	30	30	30	30
Minimum tractor power requirement	70-80	75-90	80-100	100-115	120-130
PTO range	540	540	1000	1000	1000
Adapter type	vertical 2-beaters	vertical 2-beaters	vertical 2-beaters	vertical 2-beaters	vertical 2-beaters
Max. spreading width:	8-12	8-12	8-12	8-12	8-12

\* construction parameters allowable, homologation parameters may be different from those given  
\*\* empty weight is different in the case of non-standard implementation

### STANDARD EQUIPMENT

### ADDITIONAL EQUIPMENT (OPTIONAL)

NV161	
<ul style="list-style-type: none"> <li>Monocoque loading case</li> <li>Wholes on the front wall of loading case</li> <li>Wooden protection bar on the top edge of loading case.</li> <li>Single rigid suspension with rigid axle</li> <li>Spreading adapter with 2 vertical beaters of 1800 mm height</li> <li>Chain conveyor with two 14mm chains of high quality steel, with hydraulic drive and stepless speed regulation</li> <li>Drawbar type: suspended to couple with lower hitch of the tractor ( models NV161/1, NV161/2, NV161/3 )</li> <li>Drawbar type: suspended (with springs) to couple with lower hitch of the tractor ( NV161/4, NV161/5 )</li> <li>Drawbar towing hitch: rotary with towing eye ø50mm</li> <li>Drawbar support: telescopic mechanical straight leg</li> <li>Control from tractor's hydraulic distributor</li> <li>Braking system: double line pneumatic with manual brake force controller</li> <li>Single line greasing system of the adapter's slide bearing</li> <li>Crank hand brake</li> <li>12V lighting system (bulb)</li> <li>Wheel chocks + galvanized racks (2 pcs.)</li> <li>Folded ladder and access steps to the loading case</li> <li>Double-component chemically hardened painting materials</li> <li>Sidewalls, drawbar, axles and conveyor mechanism colour: green RAL6010 PRONAR</li> <li>Rear sliding wall, adapter, mudguards and front mesh colour: red RAL3000 PRONAR</li> </ul>	<ul style="list-style-type: none"> <li>Braking system: single line pneumatic (excluding NV161/5)</li> <li>Braking system: hydraulic</li> <li>Hydraulic rear shields</li> <li>Hydraulic guillotine slurry gate</li> <li>Drawbar towing hitch: fixed with towing eye ø40mm (excluding NV161/4, NV161/5 )</li> <li>Drawbar towing hitch: fixed ball type K80mm</li> <li>PTO shaft</li> <li>PTO shaft – wide angle</li> <li>Steel mudguards</li> <li>Front protective mesh</li> <li>Tyres 750/65R26 (28.1R26) – width exceeds 2550mm (NV161/4)</li> <li>Tyres 650/75 R32.5- width exceeds 2550mm (NV161/5)</li> <li>LED lighting</li> </ul>

Chain conveyor with two 14mm chains of high quality steel, with hydraulic drive and stepless speed regulation



Spreading adapter with 2 vertical beaters of 1600 mm height





# BALE TRAILERS

PRONAR TRAILERS T022, T022M, T025, T025M, T025KM, T027M	124
PRONAR TRAILERS T023, T023M, T026, T026M, T026KM	127
PRONAR TRAILERS T024M	130
PRONAR TRAILERS T028KM, T28ML	132
SELF LOADING PRONAR TRAILER TB-4	134



**PRONAR** **36** MONTHS WARRANTY\*

\* Ask Your local Authorized Dealer and Sales Representative or see PRONAR.PL for more details.

# BALE TRAILERS

## PRONAR T022 /T022M

## PRONAR T025/T025M/T025KM/T027M



**26**  
bales  
120×120 cm

**PRONAR** among many machines offers also bale trailers which are very popular.

Bale transportation trailers have flat, steel loading floor with side edges and folded ladders at the front and at the back. They are used mainly to transport bales of straw, hay, silage. Due to the maximum design speed of 40km/h, the trailer is perfectly suited for long-distance transport. They are durable, reliable and stand the test also in difficult terrain - on the field and meadow.

In upgraded version of trailers **PRONAR T022 and T025 - PRONAR T022M and T025M** with reinforced floor plates have 4 mm of thickness. Platforms are made with only one central weld which has significant influence on the elimination of corrosion. Stanchions added to the model **T025M** created new model **PRONAR T025KM** adapted to timber transport. It can be equipped with 8 side stanchions or/and 4 stanchions at the front and 4 at the back.

### PRONAR T027M



**34**  
bales  
120×120 cm

**ROBUST** - lightweight, stable construction and optimal floor thickness

**EFFICIENT** - Height of the ladders adapted to transport bales in two layers, low platform for easy loading

**UNIVERSAL** - the width of the loading space adapted to transport of euro-pallets and euro-boxes

**MADE ACCORDING TO EUROPEAN STANDARDS** - built-in rear overrun protection according to EU directives, approved drawbars with attractive spring

**MANOEUVRABLE** - optimal distance between wheels and axles, also wide Tyres are designed to work in meadow and field

TECHNICAL DATA OF STANDARD EQUIPMENT	T022	T022M	T025	T025M	T025KM	T027M
Allowable total weight (technically) [kg]	11000		13000		-	
Allowable total weight [kg]	10000		12000		18000	
Load capacity [kg]	7360	7300	9040	8980	8890	13200
Empty weight [kg]	2640	2700	2960	3020	3110*	4800
Loading surface [m <sup>2</sup> ]	15,6/17,8		15,8/18	15,6/17,8		20,4(23)
Loading platform length [mm]			6495/7395			
Loading surface length [mm]	6740 (7270*)		6740 (7270*)		6740 (7270**)	8500(9600)
Loading surface width ** [mm]	2435**	2517/2410**	2435**	2517/2410*	2517/2410***	2470/2400
Dimensions length***/ width/height [mm]	9135-10035/2500/2830		9135-10035/2550/2880		10600-11700/2530/2900	
Ladders height measured from the platform [mm]			1700		1790	
Floor thickness [mm]	3	4	3	4		3
Platform height measured from the ground [mm]	1130	1130	1180		1110	
Wheel track [mm]	1730		1820		1960	
Suspension			parabolic springs			
Tyres	400/60-15,5		500/50-17		445/45R19.5	
Maximum speed [km/h]			40			
Minimum tractor power requirement [KM/kW]	67,6/49,7		72,8/53,5		109,2/80,3	

\* With pulled out rear frame extending the platform length

\*\* EURO pallets transportation width

\*\*\* Standard platform length

#### STANDARD EQUIPMENT

#### ADDITIONAL EQUIPMENT (OPTIONAL):

T022	
Flat profiles on the floor edges Frame: rectangular made of closed profiles* Drawbar: V type with ø40 mm fixed towing eye Steering: rotating turntable Side ladders: front and rear** Regulated rear frame*** Braking system: single or double line pneumatic or hydraulic**** Crank hand brake 12V lightning system with rear electric socket Commercial road lighting system with side lights Side underrun protections Rear underrun protection with integrated commercial road lighting system (according to 70/221/EWG) Double-component chemically hardened painting materials Wheel chocks and racks Platform colour: green RAL6010 PRONAR * rectangular closed profiles made of high quality steel ** fixed by two screws and two reinforcing cables *** to be used on the filed only. When rear frame is pulled, no possibility to connect another trailer **** manual braking force regulator	Drawbar: V type fixed with towing eye ø40 mm Side underrun protections acc.to 89/297/EWG Tool box Front and rear plastic mudguards with galvanized supports Overrun brakes version (technically allowed speed 25 km/h, allowed total weight 8000 kg) Braking system: double pneumatic line with automatic (ALB) Rear connections to a second trailer (pneumatic double line) Rear manual hitch, fixed** Braking system: combined (double pneumatic line + hydraulic) Braking system: combined (double pneumatic line + hydraulic) with (ALB) Spare wheel support with winch mounted under the trailer Tyres 360/65-16 Spare wheel (separately) 400/60-15.5 Spare wheel (separately) 360/65-16 Warning triangle Non standard colours according to RAL CALSSIC codes **** trailer is not designed for towing second trailer according to homologation documentation plastic fenders: behind front and rear wheels plastic fenders: in front of the front wheels

## STANDARD EQUIPMENT

## ADDITIONAL EQUIPMENT (OPTIONAL):

### T022M

Rounded profiles on the floor edges  
 Reinforced platform  
 Frame: rectangular made of closed profiles\*  
 Drawbar type: V type with  $\varnothing 40$  towing eye  
 Steering: rotating turntable  
 Side ladders with rounded profiles\*\*  
 Regulated rear frame\*\*\*  
 Holes for belt tightening  
 Holes for belt tightening on the side ladders  
 Braking system: single line or double line pneumatic or hydraulic\*\*\*\*  
 Crank hand brake  
 Double-component chemically hardened painting materials, UV-resistant  
 12V lightning system with rear electric socket  
 Rear underrun protection with integrated commercial road lighting system (according to 70/221/EW)  
 Wheel chocks and racks  
 Platform colour: green RAL6010 PRONAR  
 \* rectangular closed profiles made of high quality steel  
 \*\* fixed by two screws and two reinforcing cables  
 \*\*\* to be used on the filed only. When rear frame is pulled, no possibility to connect another trailer  
 \*\*\*\* manual braking force regulator

Drawbar: Y type with  $\varnothing 40$  mm towing eye  
 Tool box  
 Side underrun protections acc.to 89/297/EWG  
 Two belt-rolling devices with trigger  
 Side ladders made of rounded profiles and fixed with 4 bolts each  
 Braking system: overrun type brake (8t total weight with maximum speed of 25 km/h)  
 Rear connections to a second trailer  
 Rear manual hitch, fixed (D=44kN)\*\*\*\*  
 Front and rear plastic mudguards with galvanized supports  
 Spare wheel support with winch mounted under the trailer  
 Braking system: double pneumatic line with automatic (ALB)  
 Braking system: combined (double pneumatic + hydraulic)  
 Braking system: combined (double pneumatic + hydraulic) with (ALB)  
 Tyres 360/65-16  
 Spare wheel (separately) 400/60-15.5  
 Spare wheel (separately) 360/65-16  
 Warning triangle  
 Non standard colours according to RAL CALSSIC codes  
 Lashing belts are not in the equipment  
 \*\*\*\* trailer is not designed for towing second trailer according to homologation documentation

### T025

Flat profiles on the floor edges  
 Frame: rectangular made of closed profiles of high quality steel  
 Drawbar: V type with  $\varnothing 40$  mm fixed towing eye  
 Steering: rotating turntable  
 Side ladders: front and rear  
 \*\*Regulated rear frame  
 \*\*\*Braking system: single or double line pneumatic or hydraulic  
 Crank hand brake  
 12V lightning system with clearance lights and rear electric socket  
 Rear underrun protection with integrated commercial road lighting system (according to 70/221/EW)  
 Double-component chemically hardened painting materials  
 Wheel chocks and racks  
 Wheel chocks hidden in galvanized pockets  
 Platform colour: green RAL6010 PRONAR  
 \* fixed by two screws and two reinforcing cables  
 \*\* to be used on the filed only. When rear frame is pulled, no possibility to connect another trailer  
 \*\*\* manual braking force regulator

Drawbar: Y type with  $\varnothing 40$  fixed towing eye  
 Rear connections to a second trailer  
 Rear manual hitch, fixed (D=44kN)\*\*\*\*  
 Side underrun protections acc.to 89/297/EWG  
 Tool box  
 Front and rear plastic mudguards with galvanized supports  
 Spare wheel support with winch mounted under the trailer  
 Braking system: combined (double pneumatic line + hydraulic)  
 Braking system: double pneumatic line with automatic (ALB)  
 Braking system: combined (double pneumatic line + hydraulic) automatic (ALB)  
 Tyres 445/45R19 ; 520/50R17  
 Spare wheel (separately) 500/50-17  
 Spare wheel (separately) 520/50-17  
 Warning triangle  
 Non standard colours according to RAL CALSSIC codes  
 Lashing belts are not in the equipment  
 \*\*\*\* trailer is not designed for towing second trailer according to homologation documentation

### T025M

Rounded profiles on the floor edges  
 Reinforced platform  
 Frame: rectangular made of closed profiles of high quality steel  
 Drawbar: V type with  $\varnothing 40$  mm fixed towing eye  
 Steering: rotating turntable  
 Side ladders with rounded profiles  
 \*\*Regulated rear frame  
 Holes for belt tightening  
 Holes for belt tightening on the side ladders  
 \*\*\*Braking system: single or double line pneumatic or hydraulic  
 Crank hand brake  
 Double-component chemically hardened painting materials, UV-resistant  
 12V lightning system with clearance lights and rear electric socket  
 Reinforced rear underrun protection with integrated commercial road lighting system (according to 70/221/EW)  
 Platform colour: green RAL6010 PRONAR  
 Rear electric socket  
 Wheel chocks + racks (2 pcs.)  
 \* fixed by two screws and two reinforcing cables  
 \*\* to be used on the filed only. When rear frame is pulled, no possibility to connect another trailer  
 \*\*\* manual braking force regulator

Drawbar: Y type with  $\varnothing 40$  fixed towing eye  
 Tool box  
 Side underrun protections acc.to 89/297/EWG  
 Two belt-rolling devices with trigger  
 Rounded edges of side ladders mounted with four screws  
 Rear connections to a second trailer  
 Rear manual hitch, fixed (D=44kN)\*\*\*\*  
 Front and rear plastic mudguards with galvanized supports  
 Spare wheel support with winch mounted under the trailer  
 Braking system: combined (double pneumatic line + hydraulic)  
 Braking system: double pneumatic line with automatic (ALB)  
 Braking system: combined (double pneumatic line + hydraulic) with automatic (ALB)  
 Tyres 445/45R19.5 ; 520/50R17  
 Spare wheel (separately) 500/50-17  
 Spare wheel (separately) 520/50-17  
 Warning triangle  
 Non standard colours according to RAL CALSSIC codes  
 Lashing belts are not in the equipment

Trailer T025M



T022M rounded edges of side ladders



Crank handbrake



## STANDARD EQUIPMENT

## ADDITIONAL EQUIPMENT (OPTIONAL):

### T025KM

Rounded profiles on the floor edges  
 Reinforced platform floor equipped with holes for posts assembled at the front, rear and sides of the trailer  
 \*Frame: rectangular made of closed profiles  
 Drawbar: V type with ø40 mm fixed towing eye  
 Steering: rotating turntable  
 \*\*Side ladders with rounded profiles  
 \*\*\*Regulated rear frame  
 Holes for belt tightening  
 Holes for belt tightening on the side ladders  
 \*\*\*\*Braking system: single or double line pneumatic or hydraulic  
 Crank hand brake  
 12V lightning system with clearance lights and rear electric socket  
 Reinforced rear underrun protection with integrated commercial road lighting system (according to 70/221/EW)  
 Double-component chemically hardened painting materials, UV-resistant  
 Platform colour: green RAL6010 PRONAR  
 Wheel chocks and racks  
 \* *rectangular closed profiles made of high quality steel*  
 \*\* *fixed by two screws and two reinforcing cables*  
 \*\*\* *to be used on the filed only. When rear frame is pulled, no possibility to connect another trailer, rear frame is adjustable with clamping screws*  
 \*\*\*\* *manual braking force regulator*

Front and rear posts (4 pcs on each side) + side posts (4 pcs on each side) for timber transportation, together with front and rear ladders for bale transportation \*  
 Front and rear posts (4 pcs on each side) for timber transportation, instead of front and rear ladders for bale transportation \*  
 Front and rear posts (4 pcs on each side) + side posts (4 pcs on each side) for timber transportation, instead of front and rear ladders for bale transportation \*  
 Front and rear posts (4 pcs on each side) for timber transportation, together with front and rear ladders for bale transportation \*  
 Drawbar : Y type with ø40 fixed towing eye  
 Tool box  
 Side underrun protections acc.to 89/297/EWG  
 Two belt-rolling devices with trigger  
 Rounded edges of side ladders mounted with four bolts  
 Rear connections to a second trailer, double line pneumatic  
 Rear manual hitch, fixed (D=44kN)\*\*  
 Front and rear plastic mudguards with galvanized supports  
 Spare wheel support with winch mounted under the trailer  
 Braking system: double line pneumatic with automatic (ALB)  
 Braking system: combined (double line pneumatic + hydraulic)  
 Braking system: combined (double pneumatic line + hydraulic with electric protection system) and automatic (ALB)  
 Tyres: 445/45R19,5; 520/50R17  
 Spare wheel (separately) 500/50-17  
 Warning triangle  
 Non standard colours according to RAL CALSSIC codes  
 Lashing belts are not in the equipment  
 \* *posts equipped with hooks for transport belts, post height: 1200 mm, loading space width between posts: 2324 mm*  
 \*\* *trailer is not designed for towing second trailer according to homologation documentation*

### T027M

Rounded profiles on the floor edges  
 Chassis frame with variable cross-section made of I-beam, open and closed profiles  
 Chassis frame adjusted for rear hitch  
 Chassis frame adjusted for hydraulic sidewalls  
 Drawbar: V type with ø40 mm fixed towing eye  
 Steering: rotating turntable  
 Side ladders adjusted for transporting round and square bales  
 Regulated rear frame with 5 positions possible  
 Holes for belt tightening  
 Drum brakes 400x120  
 Braking system: single line pneumatic manual braking force regulator  
 Crank hand brake  
 12V lightning system with clearance lights  
 Rear underrun protection according to 70/221/EC integrated with commercial road lighting system  
 Reinforced rear underrun protection with integrated commercial road lighting system (according to 70/221/EW)  
 Rear electric socket  
 Wheel chocks + racks (2 pcs.)  
 Double-component chemically hardened painting materials, UV-resistant  
 Platform colour: green RAL6010 PRONAR  
 Wheel chocks and racks  
 Plastic fenders: behind rear wheels

Drawbar : Y type with ø40 fixed towing eye  
 Tool box  
 Side underrun protections acc.to 89/297/EWG  
 Braking system: double line pneumatic with automatic (ALB)  
 Braking system: hydraulic  
 Braking system: combined (double line pneumatic + hydraulic with electrical safety valve and braking power controller)  
 Rear connections to a second trailer, double line pneumatic  
 12V lightning system with side clearance lights (LED)  
 Front and rear plastic mudguards with galvanized supports  
 Tyres 385/65R 22,5 REG  
 Tyres 385/65R 22,5  
 Tyres 500/60R 22,5  
 Tyres 560/45R 22,5  
 Spare wheel (separately)  
 Warning triangle  
 Another colors from the RAL chart  
 Lateral protections  
 Automatic rear connection  
 Manual rear connection

T025KM - Two belt-rolling devices with trigger



T027M - Wheel chocks with racks





# BALE TRAILERS

## PRONAR T023, T023M PRONAR T026, T026M, T026KM



Reliable, trouble-free and very versatile three-axle platform trailers. Trailers **PRONAR T023** and **PRONAR T026** perfectly suitable for transport of cargo volume, requiring large loading surface, for the transportation bales of straw, haylage, pallets and EURO-pallets. The length of the platform can be regulated to adjust the platform length to the parameters of the cargo. Appropriate, high quality, chemically hardened painting materials are robust to corrosion. Stable and strong suspension based on the parabolic springs provides a long-term use of the trailer. Foldable ladders at the front and at the back protect cargo and ensure proper position during transport.

In the upgraded version of trailers **PRONAR T023 and T026 - PRONAR T023M and T026M** 4 mm thick reinforced plates were used.

Platforms are made with only one central weld which has significant influence on the elimination of corrosion. Stanchions added to the model **T026M** created new model **PRONAR T026KM** adapted to timber transport. It can be equipped with 14 side stanchions or/and 4 stanchions at the front and 4 at the back.

**ROBUST** - lightweight, stable construction and optimal floor thickness

**EFFICIENT** - Height of the ladders adapted to bales transport in two layers, low platform for easy loading

**UNIVERSAL** - the width of the loading space adapted to transport of euro-pallets and euro-boxes

**MADE ACCORDING TO EUROPEAN STANDARDS** - built-in rear overrun protection according to EU directives, approved drawbars with a tractive spring



TECHNICAL DATA OF STANDARD EQUIPMENT	T023	T023M	T026	T026M	T026KM
Allowable total weight (technically) [kg]	16000		19000		
Allowable total weight [kg]	15000		18000		
Load capacity [kg]	11300	11170	13720	13580	13470
Empty weight [kg]	3700	3830	4280	4420	4530
Loading surface [m <sup>2</sup> ]	24 (26,2')				
Loading platform length [mm]	9695				
Loading surface length [mm]	9980/10780			9880 (10770')	
Loading surface width ** [mm]	2450/2435**	2517/2410**	2450/2435**	2517/2410	
Dimensions length***/ width/height [mm]	12000-12900/2500/2830			1200-12900/2500/2880	
Ladders height measured from the platform [mm]				1700	
Floor thickness [mm]	3	4	3	4	
Platform height measured from the ground [mm]	1130	1130	1180		
Wheel track [mm]	1730			1820	
Suspension				parabolic springs	
Tyres	400/60-15,5			500/50-17	
Maximum speed [km/h]				40	
Minimum tractor power requirement [KM/kW]	83,2/61-			93,6/68,8	

\* With pulled out rear frame extending the platform length

\*\* EURO pallets transportation width

\*\*\* Standard platform length



**Bale trailer PRONAR T026**

**STANDARD EQUIPMENT**

**ADDITIONAL EQUIPMENT (OPTIONAL):**

**T023**

Flat profiles on the floor edges  
 Frame: rectangular closed profiles made of high quality steel  
 Drawbar: V type with ø40 mm fixed towing eye  
 Steering: rotating turntable  
 Side ladders: front and rear fixed by two screws and two reinforcing cables  
 \*Regulated rear frame  
 Braking system: single or double line pneumatic or hydraulic with manual braking force regulator  
 Crank hand brake  
 Double-component chemically hardened painting materials  
 12V lightning system with clearance lights and rear electric socket  
 Rear underrun protection with integrated commercial road lighting system (according to 70/221/EW)  
 Wheel chocks and racks  
 Platform colour: green RAL6010 PRONAR  
 Rear electric socket  
*\* rear frame is adjustable with clamping screws  
 to be used on the filed only. When rear frame is pulled, no possibility to connect another trailer*

Drawbar: Y type with ø40 fixed towing eye  
 Rear manual hitch, fixed (D=44kN)\*\*\*\*  
 Side underrun protections acc.to 89/297/EWG  
 Tool box  
 Front and rear plastic mudguards with galvanized supports  
 Spare wheel support with winch mounted under the trailer  
 Braking system: combined (double pneumatic line + hydraulic)  
 Braking system: double pneumatic line with automatic (ALB)  
 Braking system: combined (double pneumatic line + hydraulic) with automatic (ALB)  
 Tyres 360/65-16  
 Spare wheel (separately) 400/60-15.5  
 Spare wheel (separately) 360/65-16  
 Warning triangle  
 Non standard colours according to RAL CALSSIC codes  
 \*\*\*\* trailer is not designed for towing second trailer according to homologation documentation

**T023M**

Rounded profiles on the floor edges  
 Reinforced platform floor - 4mm  
 Frame made of open and closed rectangular profiles made of high quality steel  
 Frame adjusted to the rear hitch mounting  
 Drawbar type: V- type fixed with towing eye ø40 mm  
 Steering: rotating turntable  
 Rounded edges of side ladders (front and rear)  
 \*Platform extension  
 Holes for belt tightening on the platform side  
 Holes for belt tightening on the side ladders  
 Braking system: single line, double line pneumatic or hydraulic  
 Crank hand brake  
 Double-component chemically hardened painting materials, UV-resistant  
 12V lightning system with clearance light and rear electric socket  
 Rear underrun protection according to 70/221/EC  
 Rear electric socket  
 Wheel chocks + racks (2 pcs.)  
 Platform color: green RAL6010 PRONAR  
 Wheel chocks hidden in galvanized pockets  
*\* to be used on the filed only. When rear frame is pulled, no possibility to connect another trailer*

Drawbar: Y type with ø40 fixed towing eye  
 Tool box  
 Side underrun protection acc.to 89/297/EWG  
 Two belt-rolling devices with trigger  
 Side ladders with rounded profiles mounted with four screws  
 Rear manual hitch, fixed (D=44kN)\*\*\*\*  
 Front and rear plastic mudguards with galvanized supports  
 Spare wheel winch unit  
 Braking system: combined (double pneumatic line + hydraulic)  
 Braking system: double pneumatic line with automatic (ALB)  
 Braking system: combined (double pneumatic line + hydraulic) with automatic (ALB)  
 Tyres 360/65-16  
 Spare wheel (separately) 400/60-15.5  
 Spare wheel (separately) 360/65-16  
 Warning triangle  
 Non standard colours according to RAL CALSSIC codes  
 Lashing belts are not in the equipment

**T026**

Loading platform with flat floor edges  
 Frame made of open rectangular closed profiles of high quality steel  
 Drawbar type: V- type rigid with towing eye ø40 mm  
 Steering: rotating turntable  
 Side ladders with rounded profiles  
 \*Platform extension  
 \*\*Braking system: single line, double line pneumatic or hydraulic  
 Crank hand brake  
 12V lightning system with rear electric socket with clearance lights  
 Double-component chemically hardened painting materials, UV-resistant  
 Rear underrun protection according to 70/221/EC integrated with commercial road lighting system  
 Rear electric socket  
 Wheel chocks + racks (2 pcs.)  
 Wheel chocks hidden in galvanized pockets  
 Platform color: green RAL6010 PRONAR  
*\* to be used on the filed only. When rear frame is pulled, no possibility to connect another trailer  
 \*\* with manual braking force regulator*

Drawbar: Y type with ø40 fixed towing eye  
 Rear manual hitch, fixed (D=44kN)\*\*\*\*  
 Side underrun protection acc.to 89/297/EWG  
 Tool box  
 Front and rear plastic mudguards with galvanized supports  
 Spare wheel winch unit  
 Braking system: combined (double pneumatic line + hydraulic)  
 Braking system: combined (double pneumatic line + hydraulic) with automatic (ALB)  
 Braking system: double pneumatic line with automatic (ALB)  
 Tyres 385/55R22.5; 445/45R19.5; 500/50R17; 520/50R17  
 Spare wheel (separately) 500/50-17  
 Spare wheel (separately) 520/50-17  
 Warning triangle  
 Non standard colours according to RAL CALSSIC codes



BALE TRAILERS  
**PRONAR T023, T023M**  
**PRONAR T026, T026M, T026KM**



**STANDARD EQUIPMENT**

**ADDITIONAL EQUIPMENT (OPTIONAL):**

**T026M**

Rounded profiles on the floor edges  
 Reinforced platform floor - 4mm  
 Frame made of open and closed rectangular profiles made of high quality steel  
 Frame adjusted to the hydraulic walls mounting  
 Frame adjusted to the rear hitch mounting  
 Drawbar type: V- type rigid with towing eye ø40 mm  
 Steering: rotating turntable  
 Rounded edges of side ladders (front and rear)  
 \*Platform extension  
 Holes for belt tightening on the platform side  
 Holes for belt tightening on the side ladders  
 Braking system: single line, double line pneumatic or hydraulic with manual braking force regulator  
 Crank hand brake  
 Double-component chemically hardened painting materials, UV-resistant  
 12V lightning system with rear electric socket and clearance lights  
 Rear underrun protection according to 70/221/EC  
 Rear electric socket  
 Wheel chocks + racks (2 pcs.)  
 Platform color: green RAL6010 PRONAR  
 Wheel chocks hidden in galvanized pockets  
*\*to be used on the filed only. When rear frame is pulled, no possibility to connect another trailer*

Drawbar: Y type with ø40 fixed towing eye  
 Tool box  
 Side underrun protection acc.to 89/297/EWG  
 Two belt-rolling devices with trigger  
 Side ladders with rounded profiles mounted with four screws  
 Rear manual hitch, fixed\*\*\*  
 Front and rear plastic mudguards with galvanized supports  
 Spare wheel winch unit  
 Braking system: combined (double pneumatic line + hydraulic)  
 Braking system: double pneumatic line with automatic (ALB)  
 Braking system: combined (double pneumatic line + hydraulic) with automatic (ALB)  
 Tyres 385/55R22.5; 445/45R19.5; 500/50R17; 520/50R17  
 Spare wheel (separately) 500/50-17 14PR  
 Spare wheel (separately) 520/50-17  
 Warning triangle  
 Non standard colours according to RAL CALSSIC codes  
 Lashing belts are not in the equipment

**T026KM**

Rounded profiles on the floor edges  
 Reinforced platform floor equipped with holes for posts assembly at the front, rear and side of the trailer  
 Frame made of open and closed rectangular profiles made of high quality steel  
 Frame adjusted to the hydraulic walls mounting  
 Frame adjusted to the rear hitch mounting  
 Drawbar type: V- type rigid with towing eye ø40 mm  
 Steering: rotating turntable  
 Side ladders with rounded profiles  
 \*Platform extension  
 Holes for belt tightening on the platform side  
 Holes for belt tightening on the side ladders  
 Braking system: single line, double line pneumatic or hydraulic  
 Crank hand brake  
 12V lightning system with rear electric socket and clearance lights  
 Rear underrun protection according to 70/221/EWG with lights and space for number plate  
 Rear electric socket  
 Double-component chemically hardened painting materials, UV-resistant  
 Platform color: green RAL6010 PRONAR  
 Wheel chocks in galvanized pockets  
*\*to be used on the filed only. When rear frame is pulled, no possibility to connect another trailer*

Hydraulic sidewalls with vertical ladders at the front and rear (loading length 9900mm)  
 Front and rear posts (4 pcs on each side) for timber transportation, instead of front and rear ladders for bale transportation \*\*  
 Front and rear posts (4 pcs on each side) + side posts ( 7 pcs on each side) for timber transportation, instead of front and rear ladders for bale transportation \*\*  
 Front and rear posts (4 pcs on each side) for timber transportation, together with front and rear ladders for bale transportation \*\*  
 Front and rear posts (4 pcs on each side) + side posts ( 7 pcs on each side) for timber transportation, together with front and rear ladders for bale transportation \*\*  
 Drawbar : Y type with ø40 fixed towing eye  
 Tool box  
 Side underrun protection acc.to 89/297/EWG  
 Two belt-rolling devices with trigger  
 Side ladders with rounded profiles mounted with four screws  
 Rear manual hitch, fixed (D=44kN)\*\*  
 Front and rear plastic mudguards with galvanized supports  
 Spare wheel winch unit  
 Braking system: double line pneumatic with automatic (ALB)  
 Braking system: combined (double line pneumatic + hydraulic)  
 Braking system: combined (double pneumatic line + hydraulic with electric protection system) and automatic (ALB)  
 Tyres 385/55R22.5; 445/45R19.5; 500/50R17; 520/50R17  
 Spare wheel (separately) 500/50-17  
 Spare wheel (separately) 520/50-17  
 Warning triangle  
 Non standard colours according to RAL CALSSIC codes  
 Lashing belts are not in the equipment  
 \* trailer is not designed for towing second trailer according to homologation documentation  
 \*\* posts equipped with hooks for transport belts, post height: 1200 mm, loading space width between posts: 2324 mm



Trailer PRONAR T026KM with stanchions to transport bales and logs.



# BALE TRAILERS PRONAR T024M

In the upgraded version of the trailer **PRONAR T024M** a special 4 mm thick reinforced plates were used. Single central weld in the platform has a significant impact on preventing the rust.

## TECHNICAL DATA OF STANDARD EQUIPMENT

	T024M
Allowable total weight ( technically) [kg]	13000
Allowable total weight [kg]	12000
Load capacity [kg]	8700
Empty weight [kg]	3300
Loading surface [m <sup>2</sup> ]	17,4
Loading platform length [mm]	7170
Loading platform width* [mm]	2517/2410*
Dimensions:length/width/height [mm]	9290/2550/2740
Platform height measured from the ground [mm]	1040
Floor thickness [mm]	4
Wheel track [mm]	1820
Suspension	tandem, parabolic springs
Towing-eye hitch [kg]	1925
Tyres	15,0/70-18
Maximum speed [km/h]	40
Minimum tractor power requirement [KM/kW]	62,5/45,9

**SOLID** - easy, stable construction and optimal thickness of the platform

**EFFICIENT** - the height of the ladders is adapted to the transportation of two layers of bales, the lowered construction simplifies loading

**UNIVERSAL** - the width of the loading platform is adapted to the loading of euro palletes and euro boxes

**MADE ACCORDING TO THE EU STANDARDS** - rear under under-ride guard according to European Standards. Approved drawbar with spring maintenance

**EASY TO MANEUVER** - tandem suspension ensures an easy navigation through rough terrain and muddy fields. Wide Tyres are adapted to work both in the meadow and in the field

\*EURO pallets transport width

## PRONAR T024M



Raised, rounded side profiles protect cargo from slipping and wrapped bales from tearing apart

Lighting system with clearance lights

Drawbar support hydraulic leg scissor-type





**STANDARD EQUIPMENT**

**ADDITIONAL EQUIPMENT (OPTIONAL):**

	<b>T024M</b>
Rounded profiles on the floor edges	Drawbar towing hitch rigid with towing eye ø40 mm
Reinforced platform - 4mm	Drawbar towing hitch rigid ball type K80 mm
Frame: rectangular made of closed profiles made of high quality steel	Braking system combined (pneumatic + hydraulic)
Tandem suspension on 4 parabolic springs with 1215 mm axle track with fixed axles with drum brakes 300/90	Braking system combined (pneumatic + hydraulic) with electric protection system
Chassis frame adjusted to the rear hitch mounting	Braking system double line pneumatic with ALB
Drawbar type: uniwersal rigid to couple with lower or upper hitch of the tractor	Tool box
Drawbar towing hitch: rotary with towing eye ø50 mm	Overrun side protections acc.to 89/297/EWG
Drawbar support: hydraulic supporting leg (scissor)	Rear manual hitch, rigid*
Side ladders with rounded profiles	Two belt-rolling devices with trigger
Holes for belt tightening	Rounded edges of side ladders mounted with four screws
Holes for belt tightening on the side ladders	Front and rear plastic mudguards with galvanized supports
Braking system: single or double line pneumatic or hydraulic*	Tyres 500/50-17
Crank hand brake	Tyres 520/50-17
12V lightning system with rear electric socket	Tyres 385/55 R22.5 regenerowane
Commercial road lighting system with side lights	Tyres 385/55 R22.5
Rear underrun protection with integrated commercial road lighting system (according to 70/221/EW)	Spare wheel (separately) 15.0/70-18TL
Double-component chemically hardened painting materials	Spare wheel (separately) 500/50-17
Wheel chocks and racks	Spare wheel (separately) 385/55 R22.5 RE
Platform colour: green RAL6010 PRONAR	Spare wheel (separately) 385/55 R22.5
*manual braking force regulator	Spare wheel (separately) 520/50-17
	Slow moving vehicle triangle

\* hook does not fulfill required traction force of normal transportation of second trailer, trailer is not designed to tow second trailer according with homologation documentation.





# BALE TRAILERS

## PRONAR T028KM, T028ML



**T028KM** is a versatile product designed primarily for transporting bales, bales of straw or hay and also for transporting cargo on pallets. The most important innovation in the design of the bale trailer, unlike in previous models, are hydraulically lifted side walls to protect the transported cargo. Additionally, thanks to the possibility of fitting special stanchions on all sides of the trailer, a stable and secure transportation of logs, timber wood and other long materials is guaranteed. The large loading surface of the trailer and its optimal load capacity makes it possible to transport a wide range of different materials and to use the trailer not only in agriculture.

**T028ML** is a universal three-axle trailer with a very large capacity and loading platform. It is designed mainly for transporting bales or straw or hay blocks and loads on pallets or euro pallets. An important innovation in this construction is the adaptation and the possibility of using hydraulically raised side walls securing the transported cargo.

The large loading surface of the trailer and its optimal load capacity give the opportunity to transport a wide range of different materials and use of the trailer not only in agriculture.

**36**  
bales  
120×120 cm

### PRONAR T028KM



**40**  
bales  
120×120 cm

### PRONAR T028ML



TECHNICAL DATA	T028KM		T028ML	
	Version WITHOUT hydr. Side walls	Version WITH hydr. Side walls	Version WITHOUT hydr. Side walls	Version WITH hydr. Side walls
Permissible total weight: [kg]	24000		24000	
Load capacity: [kg]	18500	16900	17420	15870
Empty weight: [kg]	5500	7100	6580	8130
Loading space (rear frame folded/extended): [m <sup>2</sup> ]	23.8/26.4	23.8 (folded only)	28.8/31.4	28.8 (folded only)
Loading platform length (rear frame folded/extended): [mm]	9900/1100	9900 (folded only)	12000/13100	12000 (folded only)
Loading platform width: [mm]	2470		2470	
Dimensions: length/width/height: [mm]	12000/2525/2900 *	12000/2545/3715 ***	14100/2525/2900 *	14100/2545/3715 ***
	13100/2525/2900 **	12000/2945/4585 ****	15200/2525/2900 **	14100/2945/4585 ****
Ladders height measured from the platform: [mm]	1790	2605	1790	2605
Hydraulic side walls height: [mm]	-	2425	-	2425
Platform height, measured from the ground: [mm]	1110		1110	
Platform thickness: [mm]	3		3	
Wheel track: [mm]	1960		1960	
Suspension:	parabolic springs		parabolic springs	
Tyres:	445/45R19,5		445/45R19,5	
Maximum speed: [km/h]	40		40	
Tractor power requirement: [HP/kW]	124,8/91,8		124,8/91,8	

\* rear frame folded with rear ladder 14°, \*\* rear frame extended with rear ladder 14°

\*\*\* side walls with transport position, \*\*\*\* side walls with working position lifted to height 3000 mm above the floor

#### T028KM

#### Hydraulic sidewalls (option)

#### Stanchions for logs transportation and hooks for fastening belts



## STANDARD EQUIPMENT

## ADDITIONAL EQUIPMENT (OPTIONAL):

### T028KM

Platform with profiles on the floor edges  
 Reinforced platform floor equipped with sockets for stanchions  
 Frame made of I-beams, open and closed rectangular profiles  
 Frame adjusted to the rear hitch mounting  
 Frame adjusted for mounting hydraulic sidewalls  
 Drawbar type: V- type rigid with towing eye  $\varnothing 40$  mm  
 Steering: rotating turntable  
 Side ladders with adjustment of angle inclination suitable for transportaion round and square bales  
 \*Extendable rear frame with ladder increasing the loading space  
 Extendable rear frame supported by pin retainer  
 Holes for belt tightening on the platform side  
 Braking system: single line pneumatic or hydraulic with manual braking force regulator  
 Crank hand brake  
 12V lightning system with rear electric socket and clearance lights  
 Rear underrun protection according to 70/221/EWG with lights and space for number plate  
 Rear electric socket  
 Wheel chocks and racks  
 Double-component chemically hardened painting materials, UV-resistant  
 Platform color: green RAL6010 PRONAR  
 Wheel chocks in galvanized pockets  
 Lashing belts are not in the equipment  
*\*to be used on the filed only. When rear frame is pulled, no possibility to connect another trailer*

Hydraulic sidewalls with vertical ladders at the front and rear (loading length 9900mm)\*  
 Front and rear posts (4 pcs on each side) for timber transportation, instead of front and rear ladders for bale transportation \*  
 Front and rear posts (4 pcs on each side) + side posts (7 pcs on each side) for timber transportation, instead of front and rear ladders for bale transportation \*  
 Front and rear posts (4 pcs on each side) for timber transportation, together with front and rear ladders for bale transportation \*  
 Front and rear posts (4 pcs on each side) + side posts (7 pcs on each side) for timber transportation, together with front and rear ladders for bale transportation \*  
 Drawbar : Y type with  $\varnothing 40$  fixed towing eye  
 Tool box  
 Side underrun protection acc.to 89/297/EWG  
 Braking system: double line pneumatic with automatic (ALB)  
 Front and rear plastic mudguards with galvanized supports  
 Tyres 385/65R22,5 Reg  
 Tyres 385/65R22,5  
 Tyres 500/60R22,5  
 Tyres 560/45R22,5  
 Spare wheel 445/45R19.5 (seperately)  
 Spare wheel 385/65R22,5 REG. (seperately)  
 Spare wheel 385/65R22,5 (seperately)  
 Spare wheel 500/60R22,5 (seperately)  
 Spare wheel 560/45R22,5 (seperately)  
 Spare wheel winch unit  
 Warning triangle  
 Non standard colours according to RAL CALSSIC codes  
 Lashing belts are not in the equipment

### T028ML

Platform with profiles on the floor edges  
 Frame made of I-beams, open and closed rectangular profiles made of high quality steel  
 Frame adjusted to the rear hitch mounting  
 Frame adjusted for mounting hydraulic sidewalls  
 Drawbar type: V- type rigid with towing eye  $\varnothing 40$  mm  
 Steering: rotating turntable  
 Side ladders with adjustment of angle inclination suitable for transportaion round and square bales  
 Extendable rear frame with ladder increasing the loading space  
 Extendable rear frame supported by pin retainer  
 Holes for belt tightening on the platform side  
 Braking system: single line pneumatic or hydraulic  
 Crank hand brake  
 12V lightning system with rear electric socket and clearance lights  
 Rear underrun protection according to 70/221/EWG with lights and space for number plate  
 Rear electric socket  
 Wheel chocks and racks  
 Double-component chemically hardened painting materials, UV-resistant  
 Platform color: green RAL6010 PRONAR  
 Wheel chocks in galvanized pockets

Hydraulic sidewalls with vertical ladders at the front and rear (loading length 12000mm)\*  
 Drawbar : Y type with  $\varnothing 40$  fixed towing eye or 50mm  
 Tool box  
 Rear manual, fixed hitch  
 Side underrun protection acc.to 89/297/EWG  
 Braking system: double line pneumatic with automatic (ALB)  
 Front and rear plastic mudguards with galvanized supports  
 Tyres 385/65R22,5 Reg  
 Tyres 385/65R22,5  
 Tyres 500/60R22,5  
 Tyres 560/45R22,5  
 Spare wheel 445/45R19.5 (seperately)  
 Spare wheel 385/65R22,5 REG. (seperately)  
 Spare wheel 385/65R22,5 (seperately)  
 Spare wheel 500/60R22,5 (seperately)  
 Spare wheel 560/45R22,5 (seperately)  
 Warning triangle  
 Non standard colours according to RAL CALSSIC codes  
 Led lights  
 Extended platform to 12,5m (+extended hydraulic walls possible)  
 Net 2,5x2,5cm  
*\* no possibility to adjust the trailer with rear frame extension with ladders*





The self loading bale transportation trailer **PRONAR TB-4** on the tandem suspension provides effective loading and transportation bales of straw and haylage. The trailer is equipped with hydraulic loading platform with a hydraulically steered frontal picking device. The TB-4 allows the fluent and easy loading of bales without usage of any external devices such as lifters or loaders. Rigid drawbar with hydraulic steering of TB-4 trailer provides an easy approach to the bale without unnecessary maneuvering. By tilting the platform to the rear, the trailer unloading system reduces the time of hauling the bales to minimum.

**TECHNICAL DATA OF STANDARD EQUIPMENT**

**TB-4**

Allowable total weight [kg]	10500
Load capacity [kg]	7000
Empty weight [kg]	3500
Loading surface [m <sup>2</sup> ]	17,5
Capacity [mm]	12 bales of dimensions 1200x1200
Loading surface width [mm]	6910
Loading platform width [mm]	2550
Dimensions length/width/height [mm]	8970/2830 <sup>1</sup> /1980
Ladders height measured from the platform [mm]	1030
Floor thickness	4
Platform height measured from the ground	950
Wheel track	2000
Suspension	parabolic springs
Towing-eye hitch	1350
Tyres	400/60-15.5
Maximum speed [km/h]	30
Minimum tractor power requirement [KM/kW]	100/73

**SOLID** - rigid and resistant to overload construction

**SAFE** - side barriers provide a secure grip of the bale during transport what increases the safety of the operated trailer

**EASY TO USE** - complete steering from the tractor's cab

**COMFORTABLE** - low gravity center of the loaded trailer substantially increases its stability while driving

**STANDARD EQUIPMENT**

**ADDITIONAL EQUIPMENT (OPTIONAL):**

**TB-4**

Loading platform: hydraulically lifted  
 Unloading made by tipping the loading platform to the back  
 Tipping frame: rectangular made of closed profiles  
 Tandem suspension on 4 parabolic springs with 1030 mm axle track with fixed axles with drum brakes  
 Drawbar: fixed lower universal transportation hitch  
 Drawbar: rotary with ø50 mm towing eye  
 Drawbar: fixed with hydraulic steering  
 Hydraulic self loading system at the front  
 Side rants  
 Hydraulically operated rear unloading device  
 Hydraulic distributor steering from the operator's cabin  
 Braking system: single or double line pneumatic or hydraulic  
 Double-component chemically hardened painting materials  
 Crank hand brake  
 12V lightning system  
 Wheel chocks and racks  
 Frame painting colour: red RAL3000 PRONAR  
 Platform painting colour: green RAL6010 PRONAR

Drawbar towing hitch: fixed with towing eye Ø40 mm  
 Drawbar towing hitch: fixed ball type K80 mm  
 Spare wheel (separately) 400/60-15,5  
 Waning triangle  
 Non standard colours according to RAL CALSSIC codes  
 Spare wheel (separately)  
 Braking system: single line



PRONAR TB-4 - The picking and loading arm



Hydraulic system of bale loading



Simple system of bale stowage on the platform



Wide platform (2550 mm) allows to load two rows of bales





# CHASER BIN

CHASER BIN PRONAR T740, T743	138
CHASER BIN PRONAR T743M	140





**PRONAR** **24** **MONTHS WARRANTY\***

\* Ask Your local Authorized Dealer and Sales Representative or see PRONAR.PL for more details.

# CHASER BIN PRONAR T740, T743



Efficient, economic and durable, chaser bin enables save time and Money. Not only on farms focused on the production of grain. Chaser bin **PRONAR T740** is a versatile machine, used to transport grain and corn, receiving cargo from harvesters, and handling it for trucks and for loading seed drills. It can be used everywhere where tracks are not allowed to enter the field, and harvesters have to ride a long distances to empty their containers. Reduces losses related to the downtime in the harvest season. Electronic weighing system allows to record the weight of reloaded cargo. **T740** chassis is suspended on a tandem with parabolic spring suspension with a wheelbase of 1810 mm. A steered rear axle makes it easy to maneuver and significantly decreases tire wear.

Efficient, economic and durable, will save time and money. Necessary not only on farms focused on the production of grain. Chaser bin **PRONAR T743** is suspended on the tridem with parabolic springs with active steering system with a 1810 mm wheelbase. Central axle is fixed, outer can be steered.



**PRONAR T740**



**PRONAR T743**

## TECHNICAL DATA OF STANDARD EQUIPMENT

	<b>T740</b>	<b>T743</b>
Allowable total weight (construction) [kg]	25000	36000
Allowable total weight [kg]	23000	33000
Load capacity [kg]	15300	22700
Empty weight [kg]	7700	10300*
Load volume [m <sup>3</sup> ]	28	34
Unloading capacity [t/h]	200-400	200-400
Loading box inside length [mm]	6015	7265
Loading box inside width [mm]	2492	2492
Dimensions (Length/Width/Height) [mm]	9142/2900/3645	10392/2900/3660
Sidewall height [mm]	1440+340	1440+340
Thickness of floor/sidewalls/extensions [mm]	4/4/3	4/4/3
Distance from base to the platform [mm]	3400	3415
Wheel track [mm]	2200	2200
Suspension	Tandem type with passive steering axle on parabolic springs	Tridem type on parabolic springs with active steering
Hitch-ring load [kg]	3000	3000
Tyres	700/50-26,5	700/50-26,5
Maximum speed [km/h]	40	40
Minimum tractor power requirement [hp/kW]	165/121,3	220/161,7
Hydraulically folded conveyer	-	-
Diameter [mm]	430	430
Length [mm]	5170	5170
PTO shaft speed [rpm]	1000	1000
Height of the edge of unloading port [mm]	4550-4850	4565-4865

Operator's platform on rear side with foldable ladder

Chaser bin PRONAR T740 during work





T743

**STANDARD EQUIPMENT**

**ADDITIONAL EQUIPMENT (OPTIONAL):**

T740	
<p>Monocoques loading case with additional vertical stiffeners and screwed sidewall extensions with double - auger grain carts                      Two-segment front conveyor hydraulically folded with hydraulic safety lock                      Double segmented hydraulically folded auger                      Double floor conveyor with two-stage controller of floor conveyor speed                      Three windows to control the level of loaded material                      Hydraulically driven revision hole for load-carrying body cleaning                      Canvas frame                      Operator's platform on rear side                      A ladders facilitating access to the loading case                      Tandem type suspension with 4 parabolic springs and wheel track 1810mm, rear axle passively steered                      hydraulic blocking system when driving backwards                      Braking system: single or double line pneumatic or hydraulic                      Axles for 60 km/h with drum brakes Ø406x140                      Crank hand brake                      Drawbar: fixed integrated with frame to connect with upper or lower hitch to a tractor                      Drawbar support: telescopic supporting leg with 2-sectional gearing mechanism                      Drawbar towing hitch: rotary towing eye Ø50mm                      Sidewalls profiles with additional supports and extensions 340mm                      PTO shaft with overload clutch with tractor 1 3/4" Z=20 ending                      A set of steel mudguards                      Double-component chemically hardened painting materials                      Wheel chocks and racks                      12V LED lighting system                      Frame painting colour: red RAL3000 PRONAR                      Loading case painting colour: green RAL6010 PRONAR</p>	<p><b>Floor</b></p> <p>Rolled canvas cover                      Braking system: double line pneumatic with automatic (ALB)                      Braking system: combined (double line pneumatic + hydraulic with electrical safety valve)                      6-point weighing system with LCD                      Printer                      Flexible unloading pipe                      Drawbar towing hitch: fixed ball-type K80mm                      Spare wheel (separately) 700/50-26.5                      Spare wheel (separately) 600/55-26.5                      Tyres: 600/55-26.5                      Warning triangle</p> <p><b>Rear axle</b></p>
T743	
<p>Monocoques loading case with additional vertical stiffeners and screwed sidewall extensions                      Floor with double - auger grain carts                      Double segmented hydraulically folded auger                      Two-segment front conveyor hydraulically folded with hydraulic safety lock                      Double floor conveyor                      Two-stage regulation of floor conveyor velocity                      Four revision holes for load-carrying body cleaning                      Hydraulically driven front revision hole for load-carrying body cleaning                      Three windows to control the level of loaded material                      Frame of cover with a rope grate                      Operator's platform on rear side                      Bridge with non-slip grating inside the case along the entire length                      Chassis with 8-point tipper mounting bolt to support the loading body                      Tridem suspension on 6 parabolic springs with wheel track 1810mm. Rigid central axle, front and rear axles actively steered                      Axles for 60 km/h with drum brakes Ø406x140                      Drawbar: rigid integrated with frame to connect with upper or lower hitch to a tractor                      Drawbar towing hitch: fixed ball-type K80mm                      Drawbar support: telescopic supporting leg with 2-section gearing mechanism                      Sidewalls profiles with additional supports and extensions 340mm                      Hydraulic steering with manual pump filling system                      Steering connection system consistent with ISO 26402 (trailer is not equipped with tractor steering system)                      Braking system: single or double line pneumatic or hydraulic                      Pneumatic parking brake                      12V LED lighting system                      A set of steel mudguards                      Wheel chocks and racks                      Double-component chemically hardened painting materials                      Loading case painting colour: green RAL6010 PRONAR</p>	<p>Braking system: double line pneumatic with (ALB)                      Braking system: combined (double line pneumatic + hydraulic with electrical safety valve)                      8-point weighing system with LCD                      Printer                      Flexible unloading pipe                      Rolled canvas cover                      Spare wheel (separately) 700/50-26.5                      Spare wheel (separately) 600/55-26.5                      Tyres: 600/55-26.5                      Warning triangle</p>



Suspension on parabolic springs



Two-segment front conveyor hydraulically folded with hydraulic safety lock



Weighing system



CHASER BIN  
**PRONAR T743M**

**T743M.** This machine has a wide range of applications not only during harvest, by receiving loads from the combine and transporting them off-field, but also during loading of seed material into seed drills. If efficiency is a priority on your farm, here's why you should get to know our conveyor wagon better:

**Capacity** – it can hold up to 43m<sup>3</sup> of grain or corn and achieves a "field" load capacity of precisely 29,400 kg.

**Efficiency** – it's said that time is money, which is why the T743M conveyor wagon, thanks to new mechanisms, achieves high unloading efficiency, higher compared to our previous machines at 700 t/h, making it an optimal solution while preserving the grain structure intact. And all this allows for savings in combine working time.

**Safety** – the use of tridem suspension with active steering system, four inspection windows on the front wall, five floor flaps for bottom discharge, and hydraulically adjustable, two-segment screw conveyor ensure safety and comfort during operation.



**PRONAR T743M**

TECHNICAL DATA OF STANDARD EQUIPMENT	T743M	
Allowable total weight (construction)	40 000	[kg]
Allowable total weight	30 000	[kg]
Load capacity	23 400	[kg]
Empty weight	10 600	[kg]
Load volume	43	[m <sup>3</sup> ]
Unloading capacity	700	[m <sup>3</sup> /h]
Loading box inside length	8 530	[mm]
Loading box inside width	2 530	[mm]
Dimensions (Length/Width/Height)	11 670/2 550/3 890	[mm]
Thickness of floor/sidewalls/extensions	4/4/3	[mm]
Distance from base to the platform	3 630	[mm]
Wheel track	2 000	[mm]
Suspension	Tridem type on parabolic springs with active steering	
Hitch-ring load	4000	[kg]
Tires	560/60-22.5	
Maximum speed	40	[km/h]
Minimum tractor power requirement	250	[hp]
Hydraulically folded conveyor Diameter / Length	550 / 5 500	[mm]
PTO shaft speed	1 000	[rpm]
Height of the edge of unloading port	2 990-5 560	[mm]

Folding ladder on the rear wall and ladder inside the cargo box, balcony



Shell cargo box with profiled walls, with additional vertical stiffeners and bolt-on extensions





T743

**STANDARD EQUIPMENT:**

**OPTIONAL EQUIPMENT:**

**T743M**

- Monocoque cargo box with profiled walls and additional vertical supports
- The floor is in the form of a gutter with a single screw floor conveyor
- Two-segment hydraulically unfolded front screw conveyor with hydraulic locking of the unfolding mechanism, hydraulically controlled variable unloading height and a cover for the folded screw tubes against dirt.
- Five flaps in the floor for bottom unloading of the box.
- Three viewing windows for the loading level of the box on the front wall
- Vertical pipe discharge with manual adjustment of the discharge angle
- Hydraulic internal shutters of the horizontal conveyor in the box regulate the grain flow rate.
- Extensions
- Rolled tarpaulin with frame
- Balcony on the back wall
- A foldable ladder on the rear wall and a ladder inside the load box
- The entire length of the platform is made of anti-slip grate inside the box
- Chassis frame with 6-point load box support
- Tridem suspension on 6 parabolic springs, with equalizing wishbones, with a wheelbase of 2000 mm, with a rigid central axle and two actively steered axles, with drum brakes, dimensions Ø406x140 mm
- Hydraulically suspended drawbar with adjustable rod height for connection to the tractor's lower transport hitch
- K80mm rigid ball hitch
- Telescopic drawbar support with two-stage gear
- Hydraulic installation of active (forced) steering with a manual pump for filling the system
- System for connecting the steering system to the tractor compliant with ISO 26402 (the trailer is not equipped with a tractor steering system)
- Mechanical drive of screw conveyors
- Articulated and telescopic shaft with overload clutch, with end on the tractor side 1 3/4" Z=20
- Double-circuit pneumatic braking system
- Pneumatic parking brake
- 12V lighting installation, with LED lamps, with hermetic connections
- Fenders over the wheels
- Two wheel chocks placed in galvanized pockets
- Paint system with high anti-corrosion resistance using two-component chemically cured painting materials ensuring high durability of paint coatings and resistance to UV
- Chassis painting colors graphite RAL7021 PRONAR
- The color of the tank painting is green RAL6010 PRONAR

- Two-line air brake system with ALB
- Hydraulic braking system
- 6-point weighing system with LCD display
- 6-point weighing system with LCD display and printer
- Vertical tube dump with hydraulic dump angle adjustment.
- PTO shaft supports
- Rolled tarp with frame
- Wheels 560/60-22.5 600/55R22.5 650/50R22.5 600/55-26.5
- 710/50R26.5 710/45-26.5
- Spare wheel
- Painting colors according to RAL CLASSIC color coding system
- for industrial applications, by specifying RAL CLASSIC and four digits from the pattern palette
- Distinguishing triangle for slow-moving vehicles
- Toolbox

Transport cover for the interior of the 2 segment auger



Smart PTO holder





# MANURE SPREADERS

MANURE SPREADERS T314, T315, T316	144
MANURE SPREADERS PRONAR TG110, TG214	146
MANURE SPREADERS PRONAR TG219, TG221	148



**PRONAR** **24** MONTHS WARRANTY\*

\* Ask Your local Authorized Dealer and Sales Representative or see PRONAR.PL for more details.



Slurry tanks **PRONAR T314 / T315 / T316** are an exceptionally durable constructions, high resistance to corrosion and multifunctionality are just some of the advantages of our slurry trucks. Customers can choose between three available tank capacity: 4000 l 5000 l 6000 l, made of steel with improved strength properties. The construction of the lower frame ensures that the container does not transfer load as is the case with cars self-supporting.

The 6000 ltr. container has an inner partition 'breakwater', the aim of which is to prevent a substance from waving. Vehicles have a double protection system which secures the pump from flooding. A special overpressure valve helps to avoid too high pressure.

**PRONAR T314**



**PRONAR T315**



**TECHNICAL DATA OF STANDARD EQUIPMENT**

	<b>T314</b>	<b>T315</b>	<b>T316</b>
Permissible total weight [kg]	aprox. 5800	aprox. 7200	aprox. 8650
Load capacity [kg]	4400	5500	6600
Empty weight [kg]	1400	1700	2050
Load volume [L]	4000	5000	6000
Tank length [mm]	2840	3460	4120
Tank diameter [mm]	1400	1400	1400
Tank plate thickness [mm]	5	5	5
Dimensions: length/width/height [mm]	5350/2050/2380	5965/2300/2430	6708/2400/2610
Tank mounting	on suspension frame	on suspension frame	on suspension frame
Filling system / discharge system	pneumatic underpressure/overpressure	pneumatic underpressure/overpressure	pneumatic underpressure/overpressure
Wheel track [mm]	1650	1770	1860
Suspension	one axle, rigid	one axle, rigid	one axle, rigid
Hitch-ring load [kg]	1000	1300	1400
Tires	400/60-15,5	500/50x17	500/60-22,5
Maximum speed [km/h]	40	40	40
Minimum tractor power requirement [hp/kW]	45 / 33	54,38/40	65,26/48
PTO range [rpm]	540	540	540
Maximum compressor efficiency [L/min]	4350	6150	6150
Maximim filling time [min]	4	4	5

**T316**

Single-axle frame construction







Drain port at the lowest point of the tank



Drawbar support- simple telescopic



Manovacuometer and siphon valve

## STANDARD EQUIPMENT

## ADDITIONAL EQUIPMENT

### T314

- Wagon construction is a single-axle frame with attached tank
- Frame made of closed steel profiles
- Tank made of high-durability steel
- Special welded-in ring frames to stiffen the construction
- The tank has double-welding inside and outside
- Hot-dip galvanized wagon and frame
- Opened rear hatch with diameter of 500 mm
- MEC 4000/M compressor with max. efficiency of 4350 l/min.
- Manovacuometer
- Rear valve (4") opened hydraulically – controled from tractor.
- Two additional stubs were placed on the right and left side of the wagon, plugged and prepared for the installation of a manual gate valve.
- Compressor has a two-stage flooding protection – a relief valve placed on the top of tank and a siphon with sight glass and drain valve
- Overpressure safety valve set to 0.5 bar
- Machine is equipped with 6 meters long suction hose (4", diameter 110 mm) with suction basket attached on the back.
- Drain port at the lowest point of the tank
- Two-line pneumatic brake system
- Handbrake with crank
- Type of drawbar support- simple telescopic
- Type of drawbar hitch- rotaring with 50 mm eye
- Lighting system 12V
- Spiral connecting cable of lighting system
- Wheel mudguards
- Wheels mudguards, the axis of the chassis frame and support painted – green RAL6010

- One-line pneumatic brake system
- Articulated telescopic shaft
- Wide-angle joint-telescopic shaft
- Spare wheel
- Warning triangle

### T315

- Wagon construction is a single-axle frame with attached tank
- Frame made of closed steel profiles
- Tank made of high-durability steel
- Special welded-in ring frames to stiffen the construction
- The tank has double-welding inside and outside
- Hot-dip galvanized wagon and frame
- Opened rear hatch with diameter of 500 mm
- MEC 5000/M compressor with max. efficiency of 6150 l/min.
- Manovacuometer
- Rear valve (4") opened hydraulically – controled from tractor.
- Two additional stubs were placed on the right and left side of the wagon, plugged and prepared for the installation of a manual gate valve.
- Compressor has a two-stage flooding protection – a relief valve placed on the top of tank and a siphon with sight glass and drain valve
- Overpressure safety valve set to 0.5 bar
- Machine is equipped with 6 meters long suction hose (4", diameter 110 mm) with suction basket attached on the back.
- Drain port at the lowest point of the tank
- Two-line pneumatic brake system
- Handbrake with crank
- Type of drawbar support- simple telescopic
- Type of drawbar hitch- rotaring with 50 mm eye
- Lighting system 12V
- Spiral connecting cable of lighting system
- Wheel mudguards
- Two-component chemically hardened painting materials with high durability and UV resistance
- The axis of the chassis frame and support painted – green RAL6010

- One-line pneumatic brake system
- Articulated telescopic shaft
- Wide-angle joint-telescopic shaft
- Spare wheel
- Warning triangle

### T316

- Wagon construction is a single-axle frame with attached tank
- Frame made of closed steel profiles
- Tank made of high-durability steel
- Special welded-in ring frames to stiffen the construction
- Hot-dip galvanized wagon and frame
- Opened rear hatch with diameter of 500 mm
- Tank is equipped with baffles
- Opened rear hatch with diameter of 500 mm
- MEC 5000/M compressor with max. efficiency of 6150 l/min.
- Manovacuometer
- Rear valve (4") opened hydraulically – controled from tractor.
- Two additional stubs were placed on the right and left side of the wagon, plugged and prepared for the installation of a manual gate valve.
- Compressor has a two-stage flooding protection – a relief valve placed on the top of tank and a siphon with sight glass and drain valve
- Overpressure safety valve set to 0.5 bar
- Machine is equipped with 6 meters long suction hose (4", diameter 110 mm) with suction basket attached on the back.
- Drain port at the lowest point of the tank
- Two-line pneumatic brake system
- Handbrake with crank
- Type of drawbar support- simple telescopic
- Type of drawbar hitch- rotaring with 50 mm eye
- Lighting system 12V
- Spiral connecting cable of lighting system
- Wheel mudguards
- The axis of the chassis frame and support painted – green RAL6010

- One-line pneumatic brake system
- Hydraulic braking system
- Articulated telescopic shaft
- Wide-angle joint-telescopic shaft
- Spare wheel
- Warning triangle

# MANURE SPREADERS PRONAR TG110, TG214, TG 219, TG221



**PRONAR** manufactures two models of TG series slurry tankers: the **TG110**, with a capacity of 10,000 litres, and the **TG214**, with a capacity of 14,000 litres. However, soon the company plans to start selling tandem-suspension haulers with a capacity of up to 21 m<sup>3</sup> and a tridem-suspension hauler (with first and third steering axles) with a capacity of 24 m<sup>3</sup>. The tanks of both commercially available haulers are constructed of composite reinforced glass mats with internal transverse baffles. This construction ensures its high strength and very high resistance to atmospheric and chemical factors.

## PRONAR TG110



## PRONAR TG219



## PRONAR TG214



## PRONAR TG221



TECHNICAL DATA OF STANDARD EQUIPMENT	TG110	TG214	TG219 (EU)	TG221 (EU)
Permissible gross weight [kg]	13000	21000	20000	20000
Load capacity [kg]	9550	15730	15000	15000
Kerb weight [kg]	3450	5270	8000	8000
Tank capacity [l]	10000	14000	19000	21000
Tank dimensions (length/width/height) [mm]	4050/2080/1730	5050/2080/1830	6750/2100/1830	6750/2100/1980
Overall dimensions (length/width/height) [mm]	7330/2550/3370	8220/2550/3440	10300/2800/3500	10300/2800/3700
Track width [mm]	1980	1980	2200	2200
Chassis suspension:	Uniaxial rigid	bogie, the leaf springs	bogie, the leaf springs	tandem, hydraulic
Drawbar eye load [kg]	3000	3000	3000	3000
Tyre size:	560/60R22.5	560/60R22.5	600/55R26.5	600/55R26.5
Speed [km/h]	40	40	40	40
Minimum tractor power requirement [HP/kW]	80 - 100	170	220	250
Tank filling/emptying system	single rotor worm pump	single rotor worm pump	single rotor worm pump	single rotor worm pump
PTO speed [rpm]	540	540	540	540
Screw pump capacity [L/min]	4000	4000	4000	4000
Working width [m]	12-15	12-15	12-15	12-15

Filling and circulation system powered by a powerful pump.



Ladder and control hatch



Tank level sensor integrated into the braking system.



## STANDARD EQUIPMENT:

## OPTIONAL EQUIPMENT:

### TG110

- Composite tank reinforced, glass mats with internal transverse baffles.
- Single-rotor high capacity pump for suction and spreading driven by tractor PTO shaft;
- 6" suction valve (Perrot quick couplings and slider with hydraulic cylinder) located on the left side of the vehicle
- One 6" suction pipe (Perrot quick couplings), one 6" suction pipe (Perrot quick couplings and slider with hydraulic cylinder), 6 metres long (pipe with basket to prevent stones from being sucked in)
- 6" 3-way valve for switching mixing and spilling functions (with hydraulic cylinder)
- 6" vent line Impact spiller (jet is directed downwards to reduce nitrogen loss)
- Barrel level indicator (on front wall of tank)
- Top hatch (screwed on, with rubber seal)
- Central hydraulic system with electro-hydraulic protection, electrically controlled (via the control panel), wired from the tractor cab, performing the following functions:
  - filling
  - mixing
  - filling
  - raising/lowering of the articulated suction arm of the docking mechanism (optional equipment)
  - switching on/off of the work lights
  - luminous information on the control panel about the activated functions of the central hydraulic system
- Additional external control panel for controlling the suction/mixing functions
- Trailer requires a tractor with one pair of external hydraulic outputs to supply the central hydraulic system
- Telescopic articulated shaft (normal), Reinforced chassis frame welded from 250x100mm rectangular closed profiles, in high strength structural steel, (frame suitable for mounting of optional spreading attachments mounted on 3-point linkage or rigid)
- Rigid drawbar integrated in the frame for connecting to the tractor's lower links
- Swivel drawbar with Ø50mm eye, for connecting to the tractor's lower links
- Telescopic drawbar support with two-stage transmission
- Single axle rigid suspension, with 120x120mm axle fitted with Ø406x120mm drum brakes
- Dual circuit pneumatic brake system with automatic (ALB) brake force regulator
- Parking hand brake with crank
- 12V (LED) lighting system, with hermetic connections, with marker lights
- Two working lights at the rear
- Rear lighting lamps with protection grilles
- Connection cable, spiral, lighting installation
- Foldable ladder for easy access to the tank hatch
- Two wheel chocks housed in galvanised pockets
- Metal mudguards (over the wheels)
- Rear safety device (bumper)
- Approved, Metal mudguards (over wheels)
- Rear protective device (bumper)
- Approved, foldable
- Toolbox
- Distinguishing triangle for slow-moving vehicles
- Highly corrosion-resistant paint system using
- Two-component chemically hardened paint materials giving long-life paintwork and UV resistance
- Chassis paint colour grey RAL7021 PRONAR
- Tank paint colour green RAL6010 PRONAR

- Rigid drawbar coupling K80mm for coupling to the tractor lower link
- Docking mechanism with 6" articulated suction arm, controlled via the console of the central hydraulic system (suction arm hydraulically foldable to the left or right side of the vehicle)
- Two pairs of hydraulic outlets at the rear (to supply e.g. 3-point linkage; requires use of two pairs of external hydraulic outlets of the tractor)
- Telescopic articulated shaft (wide-angle),
- Wheels with tyres: 600/55R26.5; 650/55R26.5; 650/65R30.5; 710/50R30.5; (trailer width exceeds 2550mm)
- Loose spare wheel,

### TG214

- Composite tank reinforced, glass mats with internal transverse baffles
- Single-rotor high capacity worm pump for suction and spreading driven by tractor universal joint shaft
- 6" suction valve (Perrot quick couplings and slider with hydraulic cylinder) located on the left side of the vehicle
- One 6" suction pipe (Perrot quick couplings), One 6" suction pipe (Perrot quick couplings, 6 metres long (pipe with rock guard basket)
- 6" 3-way valve for mixing and filling functions (with hydraulic cylinder)
- 6" vent line
- Impact filler (jet is directed downwards to reduce nitrogen losses)
- Barrel level indicator (on the front wall of the tank)
- Upper hatch (screwed on, with rubber seal)
- Central hydraulic system with electro-hydraulic protection system, electrically controlled (via the control panel), wired from the tractor cab, performing the following functions:
  - filling
  - mixing
  - filling
  - raising/lowering of the articulated suction arm of the docking mechanism (optional equipment) switching on/off of the working lights
  - luminous information on the control panel about the activated functions of the central hydraulic system,
- Additional external control panel to control the suction/mixing functions
- Trailer requires a tractor with one pair of external hydraulic outlets to supply
- Central hydraulic system
- Telescopic articulated shaft (normal), Reinforced chassis frame welded from 250x100mm rectangular closed profiles, in high strength structural steel, (frame suitable for mounting of optional spreader attachments mounted on 3-point linkage or rigid)
- Rigid drawbar integrated in the frame for connection to the tractor's lower hitch
- Swivel drawbar hitch with Ø50mm eye, for connection to the tractor's lower hitch
- Telescopic drawbar support with two-stage transmission
- Single-axle rigid suspension, with 120x120mm axle fitted with Ø406x120mm drum brakes
- Dual circuit pneumatic brake system with automatic brake force regulator (ALB)
- Hand crank parking brake
- 12V (LED) lighting system with airtight connections, with marker lights
- Two rear working lights
- Rear lighting lamps with protective grilles
- Connection cable, spiral, for the lighting system
- Folding ladder for easy access to the manhole on the tank
- Two wheel chocks housed in galvanised pockets
- Metal mudguards (over the wheels)
- Rear safety device (bumper)
- homologated, Metal mudguards (over wheels)
- Rear protective device (bumper) Approved, foldable
- Toolbox
- Distinguishing triangle for slow-moving vehicles
- Highly corrosion-resistant paint system using two-component chemically hardened paint materials ensuring long paint coat durability and UV resistance
- Chassis paint colour grey RAL7021 PRONAR
- Tank paint colour green RAL6010 PRONAR

- One circuit Pneumatic braking system
- Normal telescopic articulated shaft
- Wide-angle telescopic articulated shaft
- Loose spare wheel
- Slow-moving vehicle identification triangle

Metal fenders (over the wheels) Rear bumper foldable.



Impact spiller (stream directed downward to reduce nitrogen loss)





MANURE SPREADERS



# PRONAR TG110, TG214, TG 219, TG221

PRONAR **24** MONTHS WARRANTY\*  
\* Ask Your local Authorized Dealer and Sales Representative or see PRONAR.PL for more details.



Composite tank reinforced with glass mats ensuring very high chemical resistance - extended machine life cycle. The appropriate cylinder (located on the left side of the vehicle) thickness of the coating guarantees high durability.



Two suction pipes 6" (Perrot quick couplings) each 5 m long and a 6" vent pipe

## STANDARD EQUIPMENT:

## OPTIONAL EQUIPMENT:

### TG219 | TG221

- European approval (according to European Parliament and Council Regulation (EU) No. 167/2013)
- Composite tank reinforced with glass matting and internal transverse baffles
- Single-rotor auger pump with high suction and spreading capacity, driven from tractor universal joint shaft
- 6" suction valve (Perrot quick couplings and slide valve with hydraulic cylinder) located on the left side of the vehicle
- Two 6" suction pipes (Perrot quick couplings), Two 6" suction pipes (Perrot quick couplings, each 5 m long (one pipe with rock guard)
- 6" 3-way valve for mixing and filling functions (with hydraulic cylinder)
- 6" vent line
- Impact filler (the flow is directed downwards to reduce nitrogen losses)
- Barrel level indicator (on the front wall of the tank)
- Upper hatches (screwed on, with rubber seal)
- Central hydraulic system with electro-hydraulic protection, electrically controlled (via the control panel), wired from the tractor cab, performing the following functions:
  - filling
  - mixing
  - filling
  - raising/lowering of the articulated suction arm of the dumping mechanism (optional equipment)
  - switching on/off of the work lights
- Luminous information on the control panel about the activated functions of the central hydraulic system.
- Additional external control panel for controlling the suction/mixing functions
- Trailer requires a tractor with one pair of external hydraulic outlets to supply the central hydraulic system
- Telescopic articulated shaft (normal), Reinforced chassis frame welded from 300x100mm rectangular closed profiles, in high strength structural steel, (frame suitable for mounting of optional spreader attachments mounted on 3or 4-point linkage or rigid)
- Hydraulically suspended drawbar with infinitely variable height adjustment for connection to the tractor's lower links (the system requires a permanent connection to one pair of the tractor's hydraulic outputs)
- Swivel drawbar hitch with Ø50mm eye, for connection to the tractor's lower links Telescopic drawbar support with two-stage transmission
- Hydraulic tandem suspension with six steel half-rings, Hydraulic tandem suspension with six steel half springs, (26 tonne), 1900mm wheel base, with 150x150 rigid axles equipped with Ø406x140mm drum brakes
- Dual circuit pneumatic brake system with automatic brake force regulator (ALB)
- Hand crank parking brake
- 12V lighting system (LED-PRONAR), with airtight connections, with marker lights
- Two working lights at the rear
- Rear lighting lamps with protective grilles
- Connection cable, spiral, for the lighting system
- Folding ladder for easy access to manholes on the tank
- Two wheel chocks housed in galvanised pockets
- Aluminium mudguard covering the wheels from above with splash guard behind the rear wheel Rear safety device (bumper) homologated.
- Toolbox
- Distinguishing triangle for slow-moving vehicles
- Paint system with high corrosion resistance using two-component chemically hardened paint materials giving long paint durability and UV resistance
- Chassis paint colour grey RAL7021 PRONAR Tank paint colour green RAL6010 PRONAR

- Rigid drawbar coupling with Ø 50 mm eye (3000kg) for coupling to the lower coupling of the tractor
- Rigid drawbar coupling ball K80mm (4000kg), for coupling to the lower coupling of the tractor (standard equipment parameters in pos.1,3,4,11 increased by 1000kg)
- Rear axle swivelling, passively steered with hydraulic installation for steering lock (hydraulic system requires permanent use of one pair of the tractor's external hydraulic outputs)
- Rear axle swivelling, actively steered with hydraulic system for wheel steering
- Docking mechanism with 6' articulated suction arm, controlled via the console of the central hydraulic system (suction arm hydraulically foldable to the left or right side of the vehicle)
- Two pairs of exits of the hydraulic system at the rear (to supply e.g. the 3-point linkage; requires the use of two pairs of exits of the tractor's external hydraulic system)
- Four-point rigid rear suspension system (Category 3)
- Vogelsang BlackBird 15-metre wide skate applicator
- Articulated telescopic shaft (wide-angle).
- Wheels with tyres: 700/50-26.5; 710/50R26.5; 750/65R26 (28LR26); 750/60R30.5 (trailer width exceeds 2550mm)
- Bulk spare wheel



Remote control for slurry tank operations.  
Steering box for external adapter functions



Lower Center of gravity compared to slurry tankers made of steel, which results in higher stability of the tank.



# DOLLY

DOLLY TD111	152
DOLLY TD218	153



**PRONAR** **24** MONTHS WARRANTY\*

\* Ask Your local Authorized Dealer and Sales Representative or see PRONAR.PL for more details.

**PRONAR DOLLY TD111**



**PRONAR DOLLY TD218**



**DANE TECHNICAL SPECIFICATION**

	<b>TD111 DOLLY</b>	<b>TD218 DOLLY</b>
Technically permissible gross weight [kg]	13000*	21000*
Maximum gross weight (according to EU approval) [kg]	1000	18000
Loading capacity [kg]	10860*	18000*
Tare weight [kg]	2140	2925
Dimensions (L / W / H) [mm]	4130/2525/1730	4630/2525/1730
Width with the semi-trailer (max) [mm]	2550	2550
Height with the semi-trailer (max) [mm]	4000	4000
Height of the fifth wheel (in running order) [mm]	1200-1300**	1200-1300**
Wheel track [mm]	2050	2050
Suspension	uniaxial, pneumatic	tandem, pneumatic
Drawbar eye load [kg]	3000	3000
Tyre dimensions	385/65R22,5 (with ECE approval)	385/65R22,5 (with ECE approval)
Design speed [km/h]	40	40
Minimum tractor power demand [hp/kW]	124,8/91,7	182/133,8

\*with fifth wheel moved all the way forward

\*\*depending on the set height of pneumatic suspension



Junction box for electrical and pneumatic systems.



Single-axle TD111 during aggregation with a semi-trailer.



Rear lighting counter - (metal mesh cover).



**STANDARD EQUIPMENT:**

**OPTIONAL EQUIPMENT:**

**TD111**

- Design according to European vehicle approval (according to Regulation (EU) No 167/2013 of the European Parliament and of the Council).
- The trailer is intended to transport the semi-trailer within the farm. Transport on public roads is possible if the law of the country in which the trailer is used permits driving with such a set.
- Chassis frame welded from an I-beam made of high-strength structural steel
- JOST fifth-wheel coupling (for the 2" kingpin; maximum load on the fifth wheel: 11 tons), can be placed on the chassis frame in three positions (to adapt to the front overhang of the semi-trailer)
- Pneumatic uniaxial suspension with fixed, BPW axle with Ø410x120 drum brakes.
- Pneumatic suspension system with the raising and lowering function
- Fixed "Y"-shaped drawbar, integrated with the frame for connection to the lower hitch of the tractor
- Swivel drawbar hitch with a Ø50-mm eye
- Telescopic drawbar support with one-stage gear
- Double-line, "Premium" pneumatic brake system with automatic brake force regulator (ALB) (type-approved)
- Output of the brake system for the connection of the brake system of the semi-trailer (red connector - power; yellow connector - control; 7-pin socket for the ABS) located above the drawbar (for easier connection to the brake system of the semi-trailer)
- Pneumatic parking brake with brake release
- Own hydraulic system, with 150l oil tank, with pump, telescopic shaft - with electrical, wired control from the tractor cabin
- Output of the hydraulic system located above the drawbar (for easier connection to the hydraulic system of the semi-trailer)
- 12-V lighting system (LED) with air-tight connection, with clearance lights
- 24-V electrical system output (12 V/24 V converter) for connection of the electrical systems of the semi-trailer (one 15-pin socket; two 7-pin sockets (white and black))
- Tail lamps with safety mesh for protection against damage
- Connection lines (spiral) of the lighting system and hydraulic system
- Two wheel chocks placed in galvanized holders
- Plastic mud guards (behind and in front of the wheel)
- Rear safety device (bumper) - type-approved
- Rear apron on hinges
- Paint system with high corrosion resistance, using two-component chemically-cured paint materials to guarantee durable, UV-resistant paint coatings
- Chassis paint colour - grey RAL7021 PRONAR

- Fixed drawbar hitch with a Ø40-mm eye for connection with the lower hitch of the tractor
- Fixed K80-mm ball-type drawbar hitch for connection with the bottom hitch of the tractor
- Hydraulic folded drawbar support with a shut-off ball valve
- Wheels with tyres and ECE approval: 425/65R22.5; 560/45R22.5
- Spare wheel, loose
- Slow-moving vehicle reflective warning triangle
- Painting colours according to the RAL CLASSIC colour marking system for industrial applications, by specifying the words RAL CLASSIC and four digits from the colour palette

**TD218**

- Design according to European vehicle approval (according to Regulation (EU) No 167/2013 of the European Parliament and of the Council).
- The trailer is intended to transport the semi-trailer within the farm. Transport on public roads is possible if the law of the country in which the trailer is used permits driving with such a set.
- Chassis frame welded from an I-beam made of high-strength structural steel
- JOST fifth-wheel coupling (for the 2" kingpin; maximum load on the fifth wheel: 18 tons), can be placed on the chassis frame in three positions (to adapt to the front overhang of the semi-trailer)
- Pneumatic tandem suspension with a wheelbase of 1310 mm and fixed BPW axes with Ø410x120 drum brakes
- Pneumatic suspension system with the raising and lowering function
- Fixed "Y"-shaped drawbar, integrated with the frame for connection to the lower hitch of the tractor
- Swivel drawbar hitch with a Ø50-mm eye
- Telescopic drawbar support with one-stage gear
- Double-line, "Premium" pneumatic brake system with automatic brake force regulator (ALB) (type-approved)
- Output of the brake system for the connection of the brake system of the semi-trailer (red connector - power; yellow connector - control; 7-pin socket for the ABS) located above the drawbar (for easier connection to the brake system of the semi-trailer)
- Pneumatic parking brake with brake release
- Own hydraulic system, with 150l oil tank, with pump, telescopic shaft - with electrical, wired control from the tractor cabin
- Output of the hydraulic system located above the drawbar (for easier connection to the hydraulic system of the semi-trailer)
- 12-V lighting system (LED) with air-tight connection, with clearance lights
- 24-V electrical system output (12 V/24 V converter) for connection of the electrical systems of the semi-trailer (one 15-pin socket; two 7-pin sockets (white and black))
- Tail lamps with safety mesh for protection against damage
- Connection lines (spiral) of the lighting system and hydraulic system
- Two wheel chocks placed in galvanized holders
- Plastic mud guards (behind the rear wheel, ahead of the front wheel)
- Rear safety device (bumper) - type-approved
- Rear apron on hinges
- Paint system with high corrosion resistance, using two-component chemically-cured paint materials to guarantee durable, UV-resistant paint coatings
- Chassis paint colour - grey RAL7021 PRONAR

- Fixed drawbar hitch with a Ø40-mm eye for connection with the lower hitch of the tractor
- Fixed K80-mm ball-type drawbar hitch for connection with the bottom hitch of the tractor
- Hydraulic folded drawbar support with a shut-off ball valve
- Wheels with tyres and ECE approval: 425/65R22.5; 560/45R22.5
- Spare wheel, loose
- Slow-moving vehicle reflective warning triangle
- Painting colours according to the RAL CLASSIC colour marking system for industrial applications, by specifying the words RAL CLASSIC and four digits from the colour palette



TD218 with tandem suspension - strong and reliable construction, which provides stability during the work Lower, "Y"-type drawbar



# LOG TRAILER



PRONAR

**36**

**MONTHS  
WARRANTY\***

\* Ask Your local Authorized Dealer and Sales Representative or see PRONAR.PL for more details.

# LOG TRAILER PRONAR T644/1



Log transportation trailer **PRONAR T644/1** is equipped with hydraulically steered drawbar that makes it easier to manoeuvre around trees. The distance between side posts allows to transport long logs or thin branches. Crane is controlled by using Bowden's cords connected to the hydraulic distributor. Maximum reach is 6900 mm and its maximum lifting capacity with that reach is 450 kg. Lever set mounted inside the tractor and their proper length allow to work with tractor of any brand.

## PRONAR T664/1



### TECHNICAL DATA OF STANDARD EQUIPMENT

### T644/1

Allowable total weight (construction) [kg]	13000
Allowable total weight [kg]	12200
Load capacity [kg]	8000
Empty weight [kg]	4200
Load volume [m <sup>3</sup> ]	10.5*
Side posts number [pcs.]	10
Loading box inside length [mm]	3470 (4310*)
Loading box inside width [mm]	1810
Dimensions length/width/height [mm]	6440*/2100/3300**
Height of Loading space [mm]	1440
Crane working diameter [mm]	6900
Crane load capacity in maximum working diameter [kg]	450
Rotation angle of the crane [°]	200(left)+200(right)
Wheel track [mm]	1670
Suspension	tandem type on trailing arm with bearing
Drawbar rotation angle – to the left/to the right	24°/24°
Hitch-ring load [kg]	2000
Tyres	400/60-15,5 145A8 Flot+
Construction speed [km/h]	30
Minimum tractor power requirement [hp/kW]	65/47.8
Maximum working pressure of the hydraulic system	180
Minimum external tractor hydraulic system requirements	oil cooling system with min. 40l with pump oil flow rate min. 40l/min

\* With rear frame pulled out  
\*\* Height with folded crane



Crane with telescopic support legs and rotary grapple



Tandem type suspension with 2 trailing arms and fixed axle shafts equipped with drum brakes



Drawbar support: straight, mechanic



Strong stanchions and front protective barrier



Hydraulic telescopic loader support



Hydraulically sliding rear frame with columns

### STANDARD EQUIPMENT

### ADDITIONAL EQUIPMENT (OPTIONAL):

#### T644/1

Frame: rectangular frame with additional protective steel sheet over axels.  
 Tandem type suspension with 2 trailing arms and fixed axle shafts equipped with drum brakes  
 Drawbar support: straight, mechanic  
 Front barrier separating loading space  
 Hydraulically extendable rear frame with side posts  
 Hydraulically controlled drawbar with fixed towing eye 40 mm, DIN11026  
 Drawbar blockade for driving straight  
 Crane with telescopic support legs and rotary grapple.  
 Power supply from tractor's hydraulic distributor  
 Hydraulic distributor operated by strings from the tractor  
 Braking system: double line pneumatic  
 Wheel chocks + racks (2pcs)  
 Chemically hardened two-component painting materials , UV-resistant.  
 Frame painting colour: green RAL 6010 PRONAR  
 Crane painting colour: red RAL 3000 PRONAR  
 Front barrier and side posts painting colour: black RAL 9005

Drawbar towing hitch rotary with towing eye Ø50  
 Drawbar towing hitch.ball -type K80  
 Self hydraulic system  
 PTO shaft 6×6  
 PTO shaft 21×6  
 Two additional side posts on the frame  
 Wheels 400/60-15,5 156A8 Flot  
 Slow-moving vehicle triangle



Log trailer T644/1



# FORAGE WAGON

PRONAR TRAILER T400	160
PRONAR TRAILER T400R	162



**PRONAR**

**24** MONTHS WARRANTY\*

\* Ask Your local Authorized Dealer and Sales Representative or see PRONAR.PL for more details.



**PRONAR T400** – trailer is ideal for biomass transportation. It gives huge savings in the process of delivering the biomass to the storing or processing points. The body of the trailer is made of twisted frame that secures the boards made of zincked trapezoidal profile . The platform has a trapezoidal profile where the front side of the platform is shorter than the back side what guarantees fast and easy unloading. The trailer **T400** with tandem suspension is equipped with passive steering rear axle which means that the trailer does not damage to the sward during cornering.

TECHNICAL DATA OF STANDARD EQUIPMENT	T400
Permissible total weight ( technically) [kg]	23000
Permissible total weight [kg]	22000
Load capacity [kg]	14550
Empty weight [kg]	7450
Loading capacity [m³]	40
Loading surface [m²]	16,84
Loading case inside length [mm]	8000
Loading case inside width [mm]	trapezoid 2080/2130
Dimensions ( length/width/height) [mm]	10100/2900/3950
Sidewall [mm]	2260
Sides thickness [mm]	0,75
Platform height measured from the ground [mm]	1690
Wheel track [mm]	2200
Wheelbase [mm]	1810
Suspension	tandem on parabolic springs with steered axle
Towing-eye hitch [kg]	2000
Tyres	700/50-26,5
Maximum speed [km/h]	40
Minimum tractor power requirement [HP/kW]	160/118

**LARGE CAPACITY** - 40 m³ of the load volume puts PRONAR T400 among top trailers of its kind available on the market

**SUSPENSION** - tandem suspension with passive steered axles reduces damage done to the Tyres and allows aggregation with a tractor of lower HP

**EVEN BIOMASS UNLOADING** - dosage cylinders available in additional equipment allow unloading the biomass from the box evenly

**EASY AND DURABLE CONSTRUCTION** - uncomplicated but well thought and durable construction that provides long term and failure free usage

**STANDARD EQUIPMENT**

**ADDITIONAL EQUIPMENT (OPTIONAL):**

STANDARD EQUIPMENT	T400	ADDITIONAL EQUIPMENT (OPTIONAL):
Loading box with bolted walls, adapted to mounting additional dosing rollers, drivetrain of metering rollers and PTO shaft Walls with trapezoidal profiles and ALUCYNK coating Wooden floor board with metal rails for conveyor chains Rear wall winched hydraulically with manual locking system Openwork front wall Hydraulically folded openwork front wall Sidewalls fastening strings Chassis frame made of rectangular closed profiles. Tandem on 4 parabolic springs with axle base 1810mm, compensatory swingarms, fixed front axle and passively steered rear axle. Drum brakes 406x140mm. Axles for 60 km/h. Rigid drawbar with elastomeric shock absorber, adapted to couple with lower hitch of the tractor Drawbar towing hitch- rotary with Ø50 towing eye Drawbar support: telescopic mechanical straight leg Hydraulic steering from tractor distributor Hydraulically driven floor conveyor of 4 chains, drivetrain of the conveyor on both sides Braking system: double line pneumatic Crank hand brake Wheel chocks + racks (2 pcs). 12V lighting system with rear electric socket Rear lamps with protective grating Mudguards Rear fouldable underrun protection Chemically hardened two-component painting materials , UV-resistant Sidewall color: natural ALUCYNK Chassis, drawbar, axles, rear bar and mudguards color: red RAL 3000 PRONAR Loading box color: green RAL 6010 PRONAR	Drawbar towing hitch: fixed ball-type K80mm Steel floor board with thickness 3mm with metal rails for conveyor chains Corn chaff dosing rollers powered with shaft equipped in automatic clutch with standard PTO shaft Green fodder chaff dosing rollers powered with shaft equipped in automatic clutch with standard PTO shaft Braking system: single line pneumatic or hydraulic Braking system: double line pneumatic with ALB Spare wheel separately 700/50-26.5 Paintwork RAL CLASSIC for industrial uses Rear manual hitch, amortized Front wall tilted forward (needs to change elastomeric shock absorbers on the drawbar) Rear automatic hitch Warning triangle Tyres 710/50R26,5	

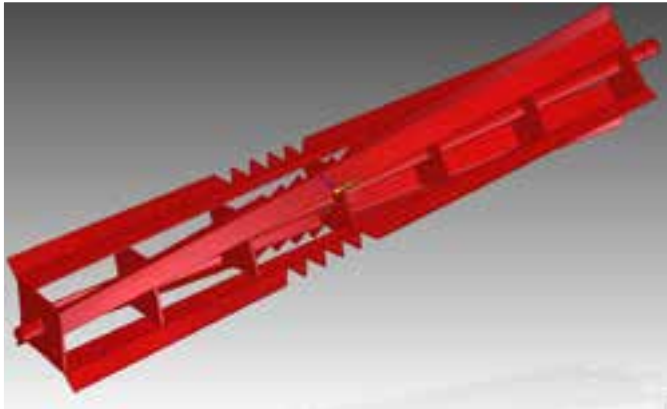
Wooden floor board with metal rails of conveyor's chains



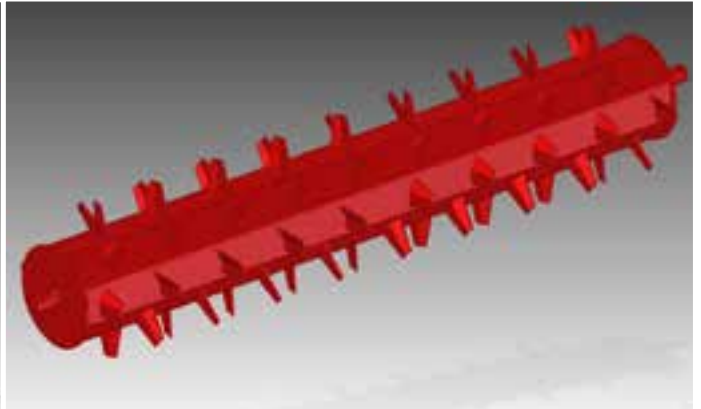
Drawbar support telescopic mechanical straight leg







Spreading rollers for chopped corn with power transmission mechanism and connection shaft



Spreading rollers for green forage with power transmission mechanism and connection shaft



PRONAR T400

Tandem suspension equipped with passive steering rear axle reduces wear on the tyres and

40m<sup>3</sup> loading volume reducing transport cost, making it easy to manoeuvre and prevents damage to the sward during cornering and reduces tyre wear on the road

Rear wall lifted hydraulically



# FORAGE WAGON PRONAR T400R



Forage wagon **PRONAR T400R** is a multi-purpose wagon suitable for each farm, where high performance is desired. Due to the high capacity and throughput rate, the wagon provides fast harvesting of green fodder as well as transportation of corn or silage. The use of forage wagons gives huge savings in the process of delivery, harvesting and transportation to the points of the storage or processing. **T400R** is a very good investment for farms with large areas of grassland. The wagon simplifies the work because there is no need of using the additional equipment for the transportation of forage. **T400R** also reduces the physical workload and the fuel consumption.



**PRONAR T400R**

## TECHNICAL DATA OF STANDARD EQUIPMENT

## T400R

Permissible total weight( technically) [kg]	28000
Permissible total weight [kg]	24000
Load capacity [kg]	12500
Empty weight [kg]	11500
Load volume [m <sup>3</sup> ]	41
Load volume with medium compression [m <sup>3</sup> ]	72
Loading case inside length [mm]	7840
Loading case inside width [mm]	2300
Sidewall height [mm]	2280
Dimensions: length/width/height [mm]	10750/2850/3990
Loading case thickness (sides) [mm]	0,75
Distance from base to the platform [mm]	1700
Pick up width [mm]	2000
Number of rotor tines [pcs.]	"240 (120 double tines)"
Rotor diameter [mm]	800
Number of knives ( on rotor) [pcs.]	45
Theoretical chopped length [mm]	34
Wheel track [mm]	2200
Axle base [mm]	1810
Suspension	hydraulic-tandem
Hitch-ring load [kg]	4000
Tyres	700/50-26.5
Maximum speed [km/h]	40
Tractor power requirement [hp/kW]	182/133,8
Requirement for external hydraulic system of the tractor	
max. pressure [bar]	200
max. efficiency [ltr/min]	130

Pick-cam with eight rows of tines receiving roller and torsion aligning wheels





T400R

**STANDARD EQUIPMENT**

**ADDITIONAL EQUIPMENT (OPTIONAL):**

**T400R**

Loading box with bolted walls, adapted to mounting additional dosing rollers with drivetrain.  
 Walls with trapezoidal profiles and ALUCYNK coating  
 Wooden floor board with metal rails for conveyor chains.  
 Openwork front wall. Rear wall - hydraulically lifetd.  
 Central hydraulic system controlled from tractor's cabin by electric panel  
 Hydraulically folded openwork front wall  
 Sidewalls fastening strings  
 Chassis frame made of rectangular closed profiles.  
 Hydraulically amortized drawbar with fluent height regulation (hitch, piton fix, ball-type K80)  
 Drawbar towing hitch- rotary with Ø50 towing eye (piton, piton-fix)  
 Hydraulic tandem suspension with 4 parabolic half-springs, axle base 1810mm, rigid front axle and passively steered rear axle. Suspension is stabilized and regulated hydraulically.  
 Pick-up with ground following wheel and roller. Rotor made of wear-resistant steel.  
 Cutting beam equipped with 45 independent knives, each protected by spring.  
 Drawbar support: telescopic with 2-section gear.  
 Chain conveyor with 6 chains and 2-stage hydraulic drive.  
 Braking system: double line pneumatic with manual braking force regulator  
 12V lighting system with side marker lights, rear lamps with bars protecting against damage.  
 Wheel chocks and racks  
 Wide-angle PTO shaft  
 Metal mudguards  
 Double-component chemically hardened painting materials  
 Red RAL3000 PRONAR- frame, drawbar, axles, mudguards, rear beam.  
 Green RAL6010 PRONAR- loading box

Drawbar towing hitch rigid ball-type K80 mm  
 Drawbar towing hitch rigid with towing eye Ø50 mm to couple with hitch of the tractor – hitch or piton fix  
 Braking system double line pneumatic with ALB  
 Braking system: hydraulic  
 Tyres 800/45R26,5

The rear wall lifted hydraulically, loading case adapted to be assembled with metering rollers.

6- chains conveyor

Loading rotor made of wear-resistant steel



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# Narew Factory No. 2



Narew Factory No. 1



Narew Factory no. 3



Narewka



Białystok



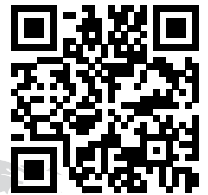
Hajnówka



Siemiatycze



Strabla



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