

MULTIFUNCTION ARMS  
**WWP500 / WWP600 / WWT420 / WWT480**  
**WWT600 / WWT600P / WWT700T / WWT800T**



MULTIFUNCTION ARM  
**PRONAR WWP500**



MULTIFUNCTION ARM  
**WWT480 with GK80L head**



MULTIFUNCTION ARM  
**WWT700T with GN200**



**FRONT MULTIFUNCTION ARMS**

	<b>WWP500</b>	<b>WWP600</b>	
Working range of multi-functional arm with GK110	5,55	6,75	[m]
Mounting on tractor	replacing front 3pt hitch arms	replacing front 3pt hitch arms	
Set weight (with cutting head)	890	980	[kg]
Min. tractor weight	4000	4500	[kg]
Min. tractor power	75 (55)	80 (59)	[HP (kW)]
PTO speed	1000	1000	[rpm]

<b>REAR MULTIFUNCTION ARMS</b>	<b>WWT420</b>	<b>WWT480</b>	<b>WWT600</b>	<b>WWT600P</b>	<b>WWT700T</b>	<b>WWT800T</b>	
Horizontal range (measured with GK100L head)	4,2	4,8	5,17	5,25	6,27	7	[m]
Oil tank capacity	130	130	180	180	180	240	[l]
Head rotation angle	205	205	205	205	205	205	[°]
Steering type	Mechanical - pulling rods	Mechanical - pulling rods	Mechanical - pulling rods	Mechanical - pulling rods	Mechanical - pulling rods	Mechanical - pulling rods	
Arm protection	mechanical protector	mechanical protector	hydraulic protector	hydraulic protector	hydraulic protector	hydraulic protector	
Weight	620	645	970	1050	1120	1200	[kg]
Min. tractor weight	2000	2100	4500	5000	5500	6000	[kg]



WWP600 with GO800 ditch digger. Long reach fits perfectly for desludging.



WWP600 multifunction arm with GP200 saw for branch cutting.



Multifunction arm - WWT480 trimmer GT150



WWT600 - arms for working with heavy heads for most difficult conditions



WWT600P - parallel system for head angle keep when adjusting arm



WWT700T, WWT800T - Long arm reach is provided thanks to hydraulic telescopic sliding

MOWING HEADS  
**GK80L / 100L / 120L / 140L / 110 / 140**



<b>MOWING HEAD</b>	<b>GK80L</b>	<b>GK100L</b>	<b>GK120L</b>	<b>GK140L</b>	<b>GK110</b>	<b>GK140</b>	
Working width	800	1000	1200	1400	1100	1400	[mm]
Working shaft diameter	76	76	89	89	133	133	[mm]
Copying shaft diameter	89	89	101,6	101,6	133	133	[mm]
Hydraulic engine power	38 (28)	38 (28)	38 (28)	38 (28)	48 (35)	48 (35)	[HP (kW)]
Connector size	60x60	60x60	60x60	60x60	80x80	80x80	[mm]
Weight	115	155	185	240	290	318	[kg]
Number of knives	22	24	26	30	10	12	[pcs]
Oil flow	80	80	80	80	90	90	[l/min]
Oil pressure	21	21	21	21	25	25	[MPa]

**GK80L**



**GK110**



**GK140**



Light cutting head GK120L on arm WWT 600



Heavy duty cutting head GK 140 at work

**GT150 / GN 200 / GP200 / GN200 / GO800 / GM500**



**TRIMMER GT150 SCISSOR HEAD GN200 HEDGE CUTTER GP200**

	<b>GT150</b>	<b>GN200</b>	<b>GP200</b>	
Working width	1500	2000	2000	[mm]
No. of cutting knives	20	14	4	[pcs.]
Max. cutting diameter	20	100	600	[mm]
Min oil working pressure	12	12	22	[MPa]
Min. oil flow	50	80	60	[l/min]
Weight	50	250	232	[kg]
Connector	140x140 plate	140x140 plate	80x80 beam	[mm]

**GT150**



**GP200**



**GN200**



**DITCH DIGGER GO 800**

Working disc diameter	800	[mm]
Min oil working pressure	22	[MPa]
Min. oil flow	90	[l/min]
Hydraulic motor power	48 (35)	[HP (kW)]
Weight	220	[kg]
Adjustable discharge direction	+	

**GO 800**



**CLEANING HEAD GM 500**

Brush diameter	400	[mm]
Brush length	500	[mm]
Nom. oil working pressure	10	[MPa]
Min. oil flow	80	[l/min]
Water pump efficiency	80	[l/min]

**GM 500**



PRONAR Sp. z o.o.  
 17-210 Narew, Poland  
 ul. Mickiewicza 101A

tel.: +48 85 682 72 16  
 +48 85 682 72 65  
 fax: +48 85 682 71 91

pronar.pl  
 municipal.export@pronar.pl



Technology for nature



**SUMMER ROAD MAINTENANCE  
 MACHINES FOR TRACTOR**

**MULCHERS**

**MULTIFUNCTION ARMS  
 WITH ATTACHMENTS**

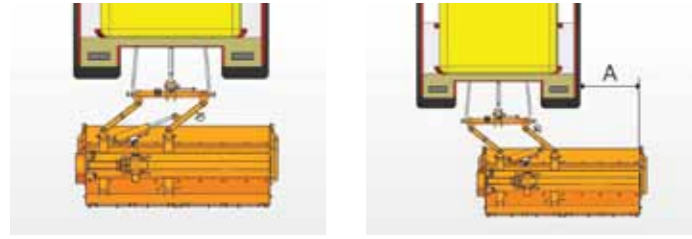
**SWEEPERS**



## REAR-FRONT FLAIL MOWERS BK110M / 140M / 160M / 180M / 200M / 250M



Regulation of mower position (parameter A - see table)



Intersecting gear and belt drive-overload protection of the mower



Flail shaft with flail hammers.

PRONAR	BK110M	BK140M	BK160M	BK180M	BK200M	BK250M	
Cutting width	1100	1400	1600	1800	2000	2500	[mm]
Horizontal shift of the mower (parameter A)	440	440	785	785	785	785	[mm]
Weight	360	400	540	570	610	675	[kg]
Minimal power demand	25 (18)	30 (22)	40 (29)	50 (37)	70 (51)	90 (66)	KM (kW)
Regulation of mower position (parameter A - see table)	10	12	14	16	18	22	[pcs]

### REAR-FRONT FLAIL MOWER **BK160M**



### REAR-SIDE FLAIL MOWERS BBK120M / BBK140M / BBK160M / 180M / 200M

### BBK160M FLAIL MOWER



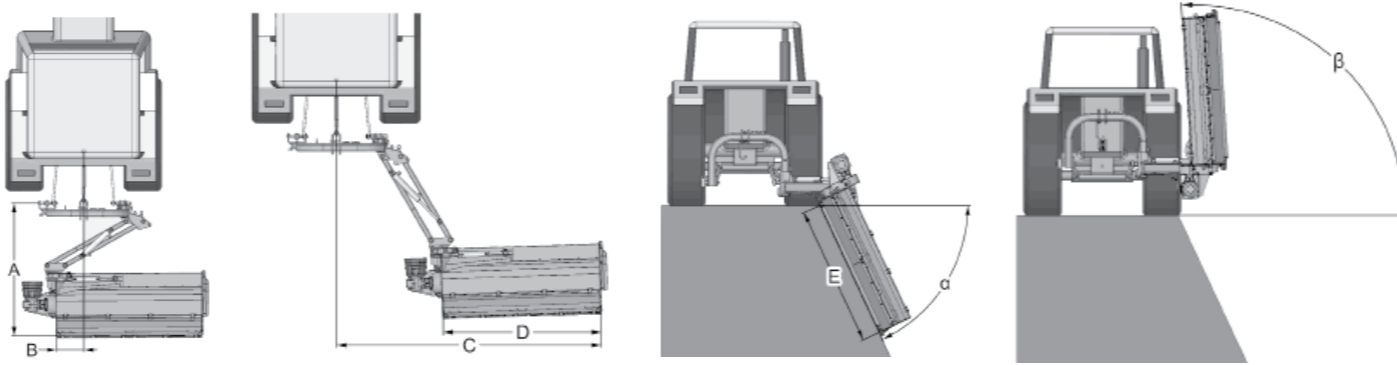
Tracking shaft regulates cutting height

Adjusting the angle of slides makes it easier to overcome obstacles

### BBK140M FLAIL MOWER



PRONAR	BBK120M	BBK140M	BBK160M	BBK180M	BBK200M	
Cutting width	1200	1400	1600	1800	2000	[mm]
Horizontal shift of the mower (hydraulic shift)	1820	1820	1820	1820	1820	[mm]
Weight	635	670	755	820	870	[kg]
Minimum power demand	30 (22)	30 (22)	50 (37)	60 (44)	70 (51)	[HP (kW)]
Number of flail blades	10	12	14	16	18	[pcs]



Regulation of mower position parameter A - see table



Mower works on right side of the tractor, vertical rest position

## SWEEPERS AGATA ZM-1250 / 1400 / 1600 / 2000 / ZM-2300M / ZMC2.0 / ZMC3.0



AGATA ZM-2000



ZM-2300M

SWEEPERS "AGATA"	ZM-1250	ZM-1400	ZM-1600	ZM-2000	ZM-2300M	
Efficiency	7500	8300	9500	11875	14000	[m <sup>2</sup> /h]
Weight	195	245	249	320	930	[kg]
Waste tank capacity	155	175	200	250	470	[dm <sup>3</sup> ]
Working width	1250/1650*	1400/1800*	1600/2000*	2000/2400*	2300	[mm]
Mounting method on tractor	3pt hitch cat. I or II narrow	3pt hitch cat. I or II narrow	3pt hitch cat. I or II narrow	3pt hitch cat. II or III	3pt. hitch cat. II	



Sprinkler system reduces dust and particulate emissions.



Tank with tiltable bottom allows for easy passage through e.g. speed bumps.



ZMC 2.0 - hydraulically articulated drawbar.

## SWEEPERS ZMC2.0 / ZMC3.0



ZMC 2.0



ZMC 3.0

TRAILED SWEEPER	ZMC2.0	ZMC3.0	
Efficiency	13800	54000	[m <sup>2</sup> /h]
Weight	2300	3150	[kg]
Waste tank capacity	2,1	3	[m <sup>3</sup> ]
Working width regulation	2000 - 2300	2400 - 2700	[mm]
Water tank capacity	240 + 200*	1150	[dm <sup>3</sup> ]
Dumping height	1660	2200	[mm]



ZMC 3.0 - hydraulic hopper dumping system.



Hydraulic brush for gutter cleaning

## CROSS TRAVERSE FLAIL MOWERS BKD160P / BKD180P / BKD200P

### CROSS TRAVERSE FLAIL MOWER **BKD200P**

LINEAR SIDE SHIFT MULCHERS	BKD160P	BKD180P	BKD200P	
Cutting width	1025	1025	1025	[mm]
Horizontal shift of the mower (parameter A)	1600	1800	2000	[mm]
Weight	635	690	730	[kg]
Minimal power demand	40 (29)	50 (37)	70 (51)	KM (kW)
Number of flail blades	14	16	18	[pcs]



Quick mounting on front or rear 3pt hitch

Cutting height regulated by tracking shaft

Cross traverse

Intersecting gear and belt drive-overload protection of the mower