



## MOBILE TROMMEL SCREENS

MPB 14.44	_____	4
MPB 18.47	_____	4
MPB 20.55	_____	4
MPB 20.72	_____	4



The MTP Gold Medal award for the MPB 18.47 Mobile Trommel Screener is the most prestigious and valued award on the Polish market.



MOBILE TROMMEL SCREENER  
**MPB 14.44 / 18.47 / 20.55 / 20.72**

PRONAR MPB 14.44, MPB 18.47, MPB 20.55, MPB 20.72 mobile trommel screeners effectively separate a range of materials into different sizes.

Thanks to a solid design and a simple principle of operation, mobile trommel screeners are perfectly suited for work with various materials – soil, compost, municipal waste, coal, aggregate, and biomass. The sorting trommel may be made according to customer requirements – round or square holes, different plate thicknesses. Machine dimensions, EU homologation and different drawbar eyes allow for travel over public roads without applying for special permits. Wide-opening guards provide quick and easy access to the motor on a rotating frame, ensuring good access to the drive unit, charging hopper, and the hydraulics.



Hydraulically raised and lowered trommel cleaning brush.



Reinforced belt on in-feed hopper conveyor



Replacement drums with round or square holes and drum thickness according to customer requirements.



Control panel with easy to use functions.

Quick and easy drum change.



Central lubrication system.



All Pronar MPB trommels are homologated and permitted to travel on public highways at speeds up to 100 km/h.



The engine and hydraulic system are mounted on a pull-out frame which provides easy access for maintenance requirements.





The PRONAR MPB 20.55 trommel screener at work, screening soil.



The PRONAR MPB 18.47 TROMMEL SCREEN sieving waste after biological stabilisation.



Mobile trommel screener MPB 14.44

**Hydraulic tipping grid** for removal of large objects to prevent damage to the trommel drum.

**Air separator** for removal of paper and light plastics.

**Magnetic roller** for removal of ferrous metals which can be mounted on rear and side discharge conveyors.

**Water and liquid soap tank** is available as optional equipment for the machine.

**Ball and socket joint** enables repositioning of the trommel screen using construction machinery.

**Hydraulic support legs** improve stability of the machine on uneven ground.





The PRONAR MPB 18.47 trommel screen at work, screening sawdust and wood waste.



The PRONAR MPB 18.47 trommel screen at work, screening waste after biological stabilisation.



The PRONAR MPB 18.47 trommel screen in operation — screening gravel.

**Reliable Caterpillar engine** – thanks to the application of the latest environment-friendly technologies, the engine meets EU Stage 3B emissions standards. It is also possible to install an engine meeting EU Mitsubishi Stage 3A, or Deutz Stage 3B emissions standards.

**Optional electric motor** can be fitted which makes it possible to significantly reduce running costs and noise levels. This is a perfect solution to sites which generate their own electricity.

**Conveyor belt advance rate adjustment** – enables adaptation of advance rate to the type of sifted material so as to utilise the offered throughput of the mobile trommel screen to the fullest. This also enables dumping of a larger amount of material from each fraction without the necessity of relocating the machine.

**Cleanfix System** – automatically cleans the engine radiator ensuring uninterrupted overheating issues in dusty conditions.

**TG T9-2 controller** – enables remote control of basic machine functions. It is particularly useful for operating the hydraulic tipping stone grid above the in-feed hopper. The loader operator can remove accumulated material without leaving the operator station. The remote controller is also equipped with an emergency stop button.

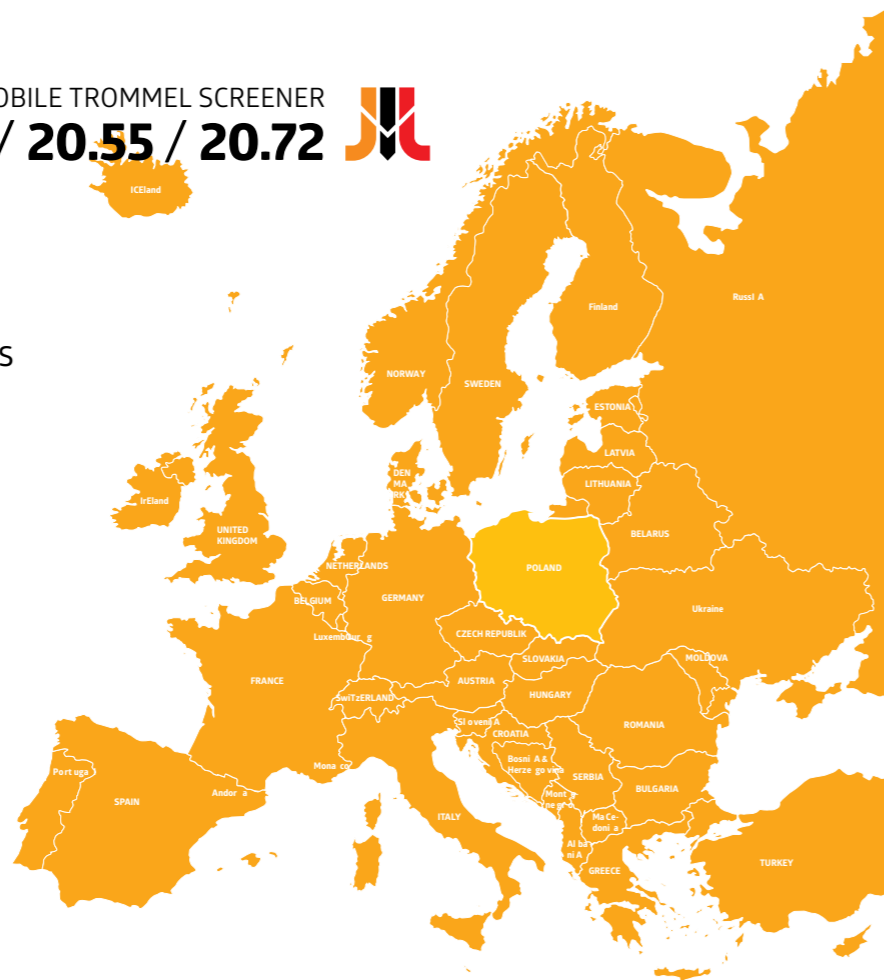


**MPB 14.44 / 18.47 / 20.55 / 20.72**

MOBILE TROMMEL SCREENER



Pronar sp. z o.o. provides its clients with direct access to a technical sales consultant.



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Laser cutting process.



PRONAR Mobile Trommel Screener assembly line.



Welding process.



Painting process.



Mobile trommel screener 20.72



Mobile trommel screener 20.72



Mobile trommel screener 20.55



Mobile trommel screener 14.44



Factory in Siemiatycze - assembly of PRONAR Mobile Trommel Screens.

# MPB 14.44 / 18.47 / 20.55 / 20.72

MOBILE TROMMEL SCREEN



CHASSIS	MPB 14.44	MPB 18.47	MPB 20.55	MPB 20.72
Gross weight [kg]	11000	12800	16000	24000
Overall dimensions (length/width/height) [mm]	10690/2300/3900	10990/2550/3900	12000/2550/4000	12350/2550/4000
Maximum speed [km/h]	100	100	100	100
Brake system	Pneumatic with EBS	Pneumatic with EBS	Pneumatic with EBS	Pneumatic with EBS
ABS configuration	4S/2M	4S/2M	4S/2M	4S/2M
Brake type	drum brake	drum brake	drum brake	drum brake
Additional power supply to EBS module	yes	yes	yes	yes
Type of mounting attachment	mechanical	mechanical	mechanical	mechanical
Number of wheels	4	4	4	4
Tyre dimensions	435/50 R19.5 (160J)	435/50 R19.5 (160J)	435/50 R19.5 (160J)	435/50 R19.5 (160J)
Axle manufacturer	ATW/ADR	ATW/ADR	ATW/ADR	ATW/ADR
Number of axles:	2	2	2	2
Maximum axle load [kg]	9000	9000	9000	9000
Front support legs	2 mechanical	2 mechanical	2 mechanical	2 mechanical
Rear support legs	1 hydraulic	1 hydraulic	1 hydraulic	1 hydraulic
Road lighting voltage [V]	24 (12)	24 (12)	24 (12)	24 (12)
Type of road lights:	LED	LED	LED	LED
Drawbar eye diameter [mm]	50	50	50	—
Drawbar eye height [mm]	950 (±110)	950 (±110)	950 (±110)	—
Cutting barriers	yes	yes	yes	yes
Mudguards	steel	steel	steel	steel
Mud flaps	yes	yes	yes	yes
Warning signs	yes	yes	yes	yes
Wheel chocks	yes	yes	yes	yes
Contour markings	yes	yes	yes	yes
*Rotating warning beacon	yes	yes	yes	yes
Tool box (1 piece: - 50l)	yes	yes	yes	yes
Water container (30l) with a soap dispenser	—	—	—	yes

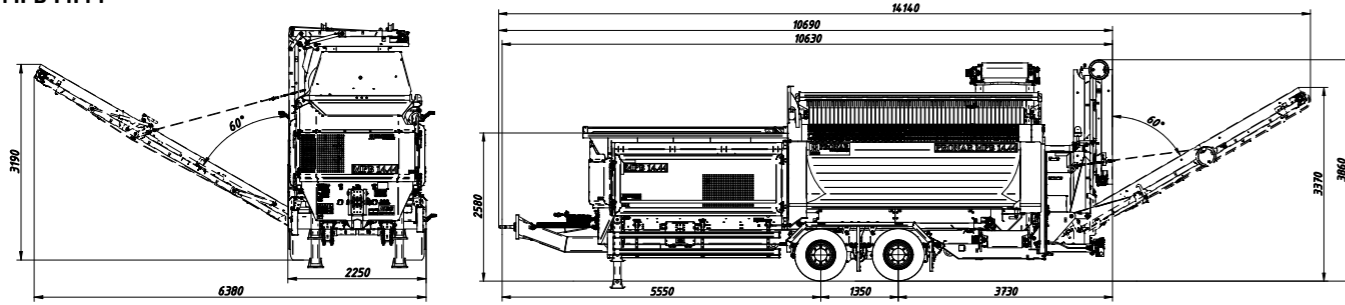
ENGINE VERSIONS	MPB 14.44	MPB 18.47	MPB 20.55	MPB 20.72
<b>AVAILABLE:</b>				
Engine	Deutz combustion engine (EU Stage 3A - 32 kW / 2200 rpm; max: 36.4 kW / 2600 rpm)	Mitsubishi combustion engine (EU Stage 3A - 58 kW / 2200 rpm; max: 62 kW / 2500 rpm)	Caterpillar combustion engine (EU Stage 3B - 74.5 kW / 2200 rpm)	Deutz combustion engine (EU Stage 3B - 82 kW / 1600 rpm; max: 90 kW / 2300 rpm)
	Caterpillar combustion engine (EU Stage 3A - 32.0 kW / 2200 rpm; max: 36.4 kW / 2800 rpm)	Caterpillar combustion engine (EU Stage 3B - 55.4 kW / 2200 rpm; max: 55.4 kW / 2200 rpm)	Deutz combustion engine (EU Stage 3B - 55.4 kW / 2200 rpm)	Caterpillar combustion engine (EU Stage 3B C4.4 - 87.0 kW / 1600 rpm; max.: 92.5 kW / 2200 rpm; 530Nm at 1400 rpm)
	—	Deutz combustion engine (EU Stage 3B - 55.4 kW / 2200 rpm; max: 55.4 kW / 2600 rpm)	—	—
	electric motor	electric motor	electric motor	electric motor

MATERIAL TRANSPORT	MPB 14.44	MPB 18.47	MPB 20.55	MPB 20.72
Trommel dimensions (length/width) [mm]	4400/1400	4700/1800	5500/2000	7200/2000
Trommel rotational speed [rpm]	up to 23	up to 23	up to 19	up to 19
Effective sieve surface [m²]	16,2	22,1	29,8	40,6
In-Feed hopper dimensions (length/width) [mm]	3560/1850	3560/2120	3900/2230	3900/2230
Loading height [mm]	2600	2700	2710	2730
In-Feed hopper capacity [m³]	3	5	5	6
Dimensions of exterior side conveyor (length/width) [mm]	5150/800	5150/800	4900/1000	4900/1000
Dimensions of exterior rear conveyor (length/width) [mm]	5150/800	5150/800	4900/1000	4900/1000
Width of interior longitudinal conveyor [mm]	1000	1300	1300	1300
Width of interior transverse conveyor [mm]	600	600	800	800
Control voltage [V]	12	12	12	12
Central lubrication system	yes	yes	yes	yes
Rear conveyor belt speed regulation	yes	yes	yes	yes
Side conveyor belt speed regulation	yes	yes	yes	yes

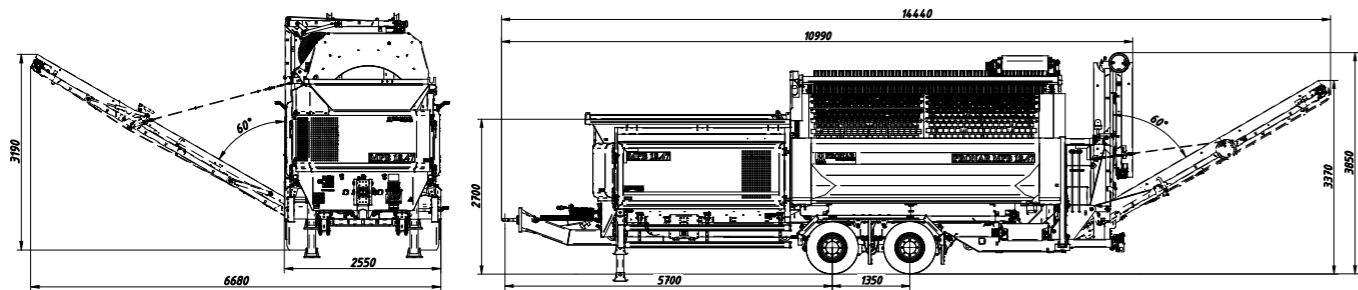
OPTIONAL ADDITIONAL EQUIPMENT:	MPB 14.44	MPB 18.47	MPB 20.55	MPB 20.72
Magnetic Roller a	+	+	+	+
Magnetic Roller b	+	+	+	+
Air separator	+	+	+	+
Stone Grid above charging hopper	+	+	+	+
Chute near In-Feed hopper	+	+	+	+
Ball attachment	+	+	+	—
Rear conveyor belt speed control	+	+	+	+
Side conveyor belt speed control	+	+	+	+
Hydraulically controlled front support legs	+	+	+	—
Screen hole size	according to customer's requirements			
Sieve wall thickness	according to customer's requirements			
Exterior rear conveyor with length: 3300 mm	+	+	—	—
Drawbar eye diameter ø40	+	+	—	—
Drawbar eye diameter ø57 (Swedish standard)	+	+	+	—
Side screen safeguards	+	+	+	+
Reversible radiator fan (Cleanfix)	+	+	+	+
in-Feed hopper load/pressure sensor	+	+	+	+
Water container (30l) with a soap dispenser	+	+	+	—



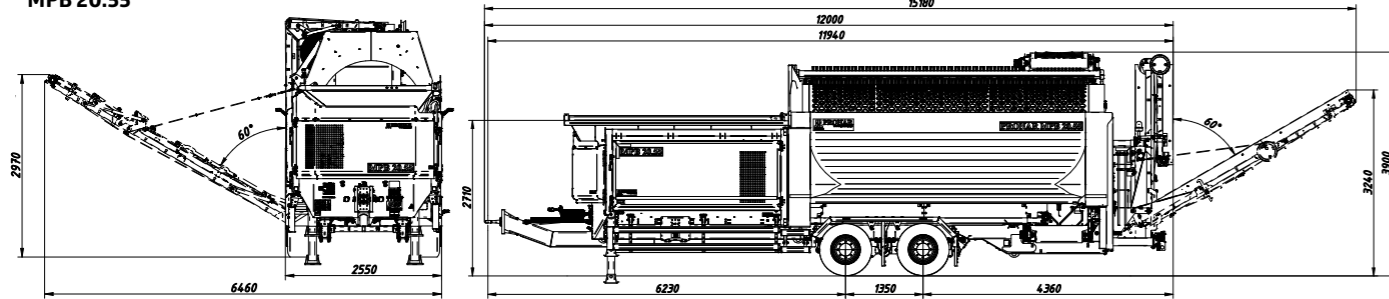
**MPB 14.44**



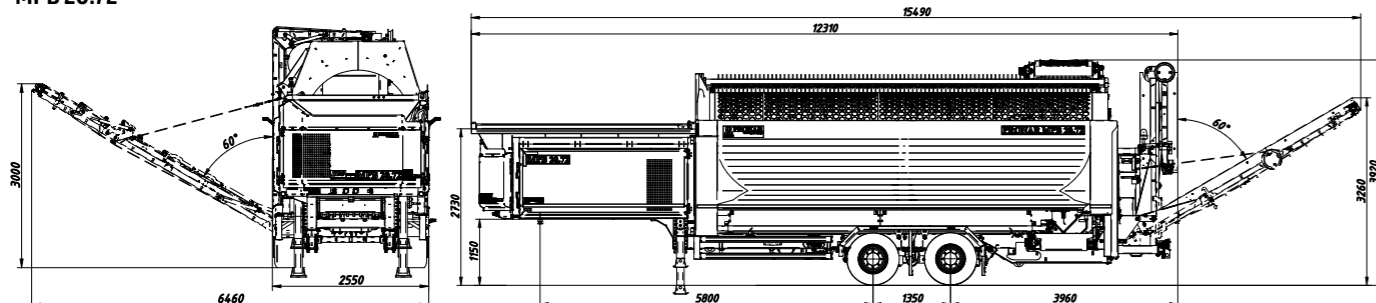
**MPB 18.47**



**MPB 20.55**



**MPB 20.72**



Pronar MPB Trommel drums are changeable to suit material screening requirements. Pronar also produce screen drums for other manufacturers machines.

**Depending on the screened material:**

- soil
- compost
- municipal waste
- aggregate
- biomass

Different types of perforation are available, shapes include round or square, any size hole available.

**There are 4 standard drum versions available:**

- length 4,4 m & diameter 1,4 m
- length 4,7 m & diameter 1,8 m
- length 5,5 m & diameter 2 m
- length 7,2 m & diameter 2 m

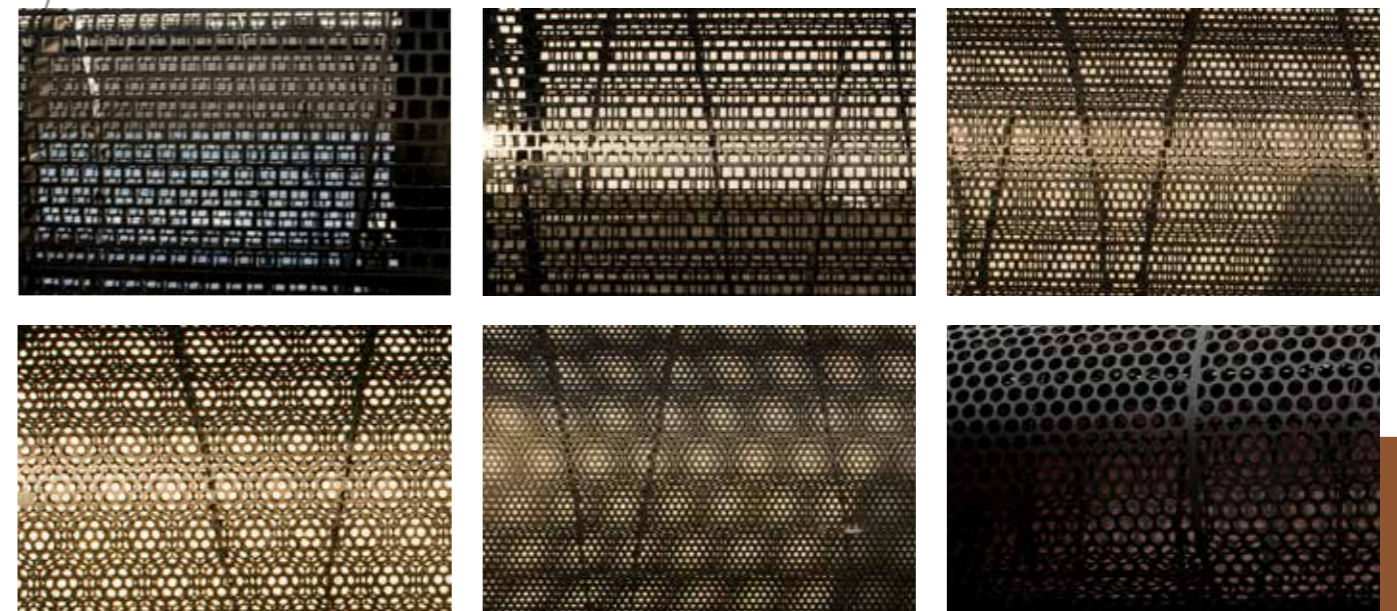
There are 3 standard wall size versions:

6 mm, 8 mm and 10 mm.

Hole size, regardless of its shape, could be from 10 to 100 mm.

Upon client's request, we are able to manufacture a drum of non-standard holes.

Different types of perforation "K" quadratic



Different types of perforation "O" round

Drum length [mm]	Drum diameter [mm]	Wall thickness [mm]	Perforation shape
4400	1400	6/8/10/	square/round
4700	1800	6/8/10/	square/round
5500	2000	6/8/10/	square/round
7200	2000	6/8/10/	square/round