SANDVIK

Herema

RECYCLING MACHINERY

PRONAR

RECYCLING EQUIPMENT RANGE

MOBILE TROMMEL SCREENS 4
MPB 14.44, MPB 18.47, MPB 20.55, MPB 20.72
MPB 18.47g, MPB 20.55g, MPB 20.55gh, MPB 20.72g
DRUMS 20
STARSCREEN 21
MOBILE SLOW-SPEED SHREDDERS 22
MRW 2.85, MRW 2.85g, MRW 2.85h, MRW 2.1010
WINDROW TURNER MBA 4512g 32
MOBILE STOCKPILERS 38
MPT 18g, MPT 24g

18a

Gold Medal MTP 2014
Mobile Trommel Screen
MPB 18.47

Gold Medal MTP 2017
Mobile Stockpiler MPT 18g

Gold Medal MTP 2016
Mobile Slow-speed Shredder
MRW 2.1010

Gold Medal MTP 2018
Customer choice
Mobile Stockpiler
Pronar MPT 18g

MOBILE TROMMEL SCREENS

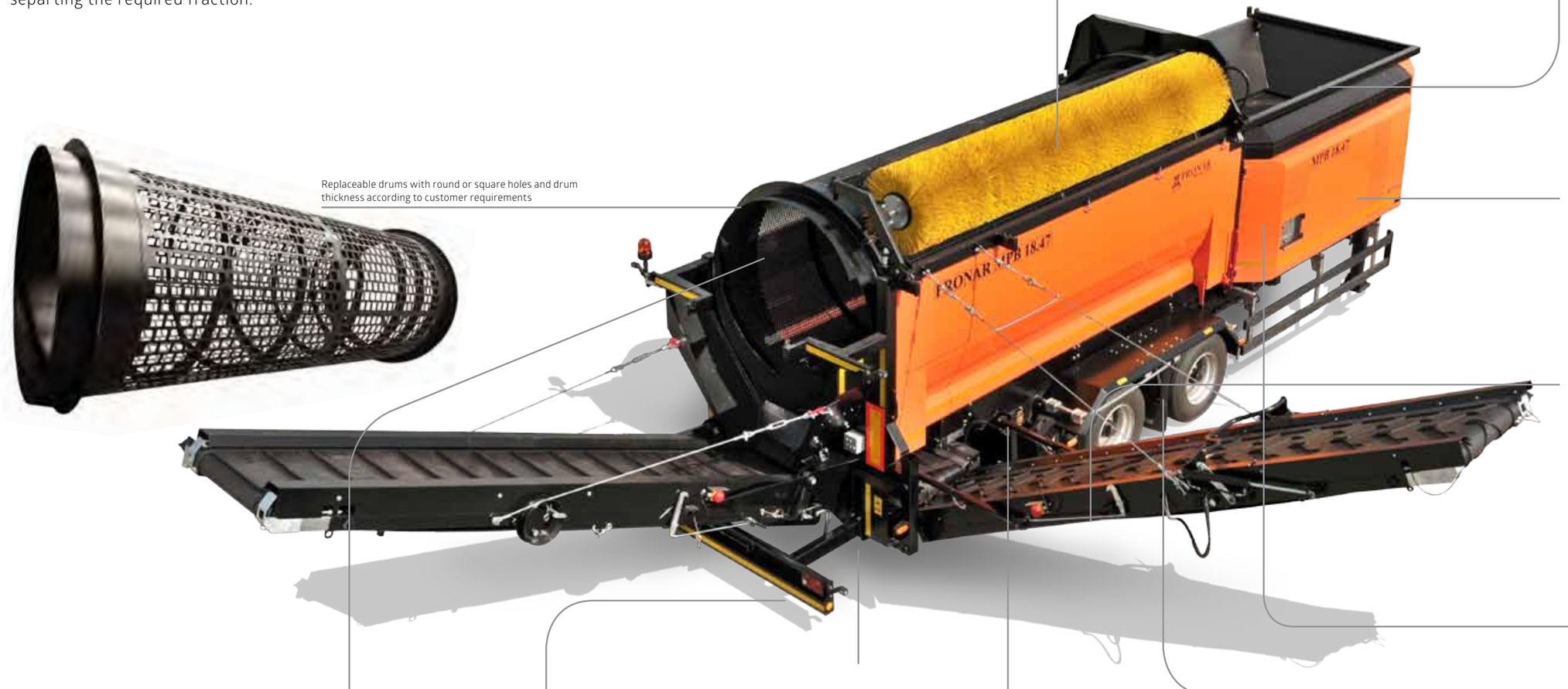
MPB 14.44 / 18.47 / 20.55 / 20.72

Mobile trommel screens are used for effective material separating into different size fractions.

Thanks to solid construction and simple principle of operation mobile trommel screens are perfectly suited for work with many different materials - municipal waste, wood waste and chips, compost, biomass, coal, soil, gravel, aggregates etc. Four available sizes allow to fit machine according to the task. Replacable drums can be made according to customers needs - thickness adequate to- the material and hole size for separting the required fraction.

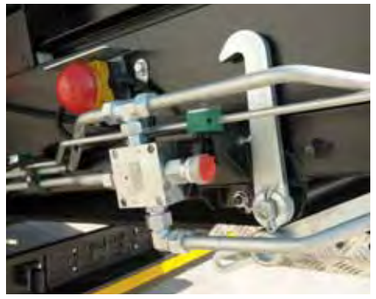
Hydraulically raised and lowered trommel cleaning brush

Sealing in the hopper prevents material from leaking to the inside of the machine



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

Control panel with easy-to-use functions



Belt speed adjustment - adjusts the speed to the type of screened material to maximize the performance. It also allows to stack more material of each fraction without the need of re-locating the machine

Quick and easy drum change

Detachable rear bumper

Hydraulic support legs improve machine stability on uneven ground

Central lubrication system ensures good greasing of the most important parts of the machine. Two sizes available

Homologation allows for moving screener on roads (up to 100km/h)

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

MOBILE TROMMEL SCREENS

MPB 18.47g / 20.55g / 20.55gh MPB / 20.72g

Pronar offer of mobile trommel screens is complemented with tracks version models.

A totally autonomous drive system allows for trouble-free operations without additional towing machines required. The screens may be repositioned at any time thanks to the tracked chassis and can be used in hard to reach areas.

Remote control

Tracks pads prevent floor scratching

Hydraulic system for adjusting chassis position in MPB 20.55gh. The mechanism allows leveling machine on longitudinal slopes and increases the clearance for easier moving on uneven terrain

Rear conveyor folded by means of two hydraulic cylinders

Beacon light signalises work/drive mode

Conveyors retract to the outside of the machine - this allowed for lesser height

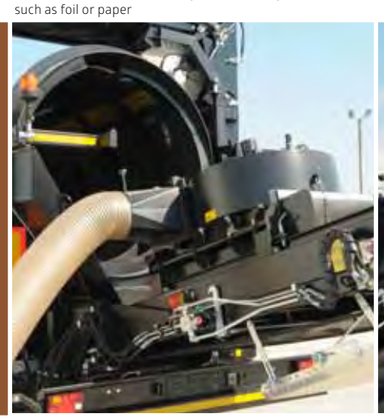
Tracked chassis for moving the machine without any additional towing vehicles

MPB 20.55 - soil

MPB 20.55g – soil

MPB 18.47 – coal

Air separator perfectly separates light materals from larger fraction - additional recovery of secondary raw materials such as foil or paper



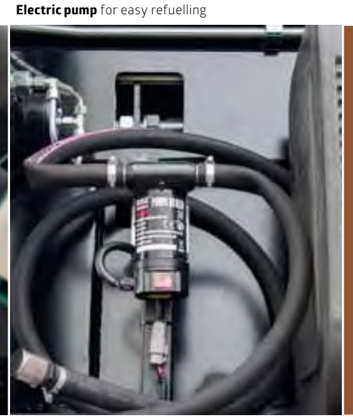
Magnetic roller for ferrous metals may be mounted on rear and side discharge conveyors

Hydraulic tipping grid for removing large objects - prevents damage to the trommel drum. Used for debris, gravel and stones

Remote controls for basic machine functions. Especially useful when using hopper tipping grid. Loader operator can remove the accumulated material directly from his cabin. Remotes also have the emergency stop button. (available 6- and 10-button versions)

Ribbed belt - special construction prevents slipping of the hopper belt when screening high-density materials i.e. gravel

Electric pump for easy refuelling



MPB 18.47 - biologically stabilized waste

MPB 18.47 - biologically stabilized waste

MPB 18.47 – gravel

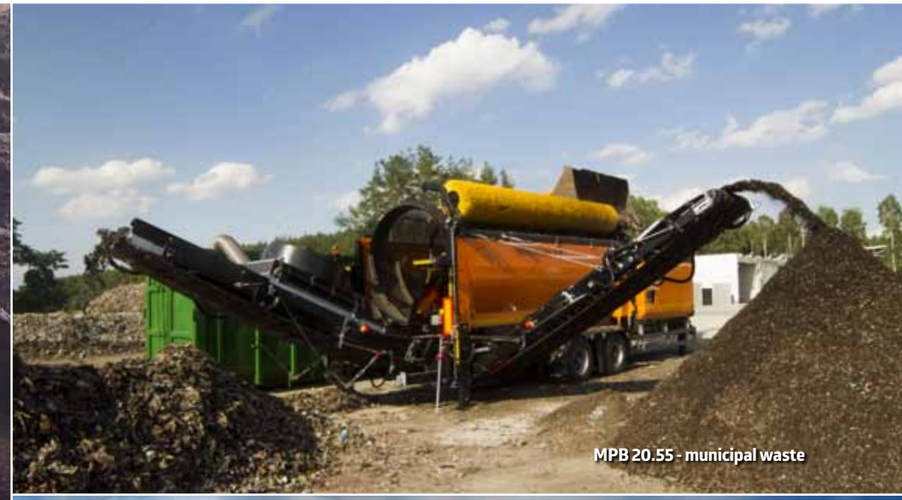
Reliable Caterpillar or Deutz engines – thanks to the application of the latest environment-friendly technologies, the engine meets latest emissions standards

Optional electric motor allows a significant reduction of running costs and noise levels

Cleanfix systems - automatically clean engine and hydraulic system oil radiators

Hydraulic legs opened from main control or hand pump

MPB 18.47e - coal



MPB 20.55 - municipal waste

MPB 20.72 - wood chips

Additional 3 point lighting system of the working area increases safety near the screener

Steel side guards are more durable and resistant for impacts

Water and liquid soap tank available as optional equipment

Side-guards protection system stops the machine when side shields are opened by unauthorized personel

Dolly-type trolley for moving MPB 20.72 with truck or tractor

Ball coupling enables repositioning of the trommel screen using construction machinery

MOBILE TROMMEL SCREENS

MPB 14.44 / 18.47 / 20.55 / 20.72 / 18.47g / 20.55g / 20.55gh / 20.72g

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	+	+	+	+
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)	-
Coupling bolt diameter (king pin)	-	-	-	2"
Height of king pin coupling	-	-	-	1150
Cutting barriers	+	+	+	+
Mudguards	steel	steel	steel	steel
Mud flaps	+	+	+	+
Warning signs	+	+	+	+
Wheel chocks	+	+	+	+
Contour markings	+	+	+	+
Rotating warning beacon	+	+	+	+
Tool box (1 piece: - 50l)	+	+	+	+
Water container (30l) with a soap dispenser	-	-	-	+
Detachable rear bumper	+	+	+	+
Rear conveyor belt speed control	+	+	+	+
Side conveyor belt speed control	+	+	+	+

TRACKED CHASSIS	MPB 18.47g	MPB 20.55g	MPB 20.55gh	MPB 20.72g
Gross [kg]	14000	20000	20840	20300
Overall dimensions (length/width/height) [mm]	9530/2900/3420	10610/2910/3450	11620/3100/3500	12400/2900/3650
Maximum speed [km/h]	1	1	1	1
Remote control	radio	radio	radio	radio
Approach angle	16 / 11	16 / 11	16 / 11	16 / 11

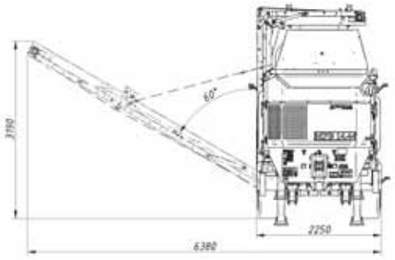
Brand, displacement, Exhaust, NOM power kW (HP) / rpm # MAX power kW (HP) / rpm

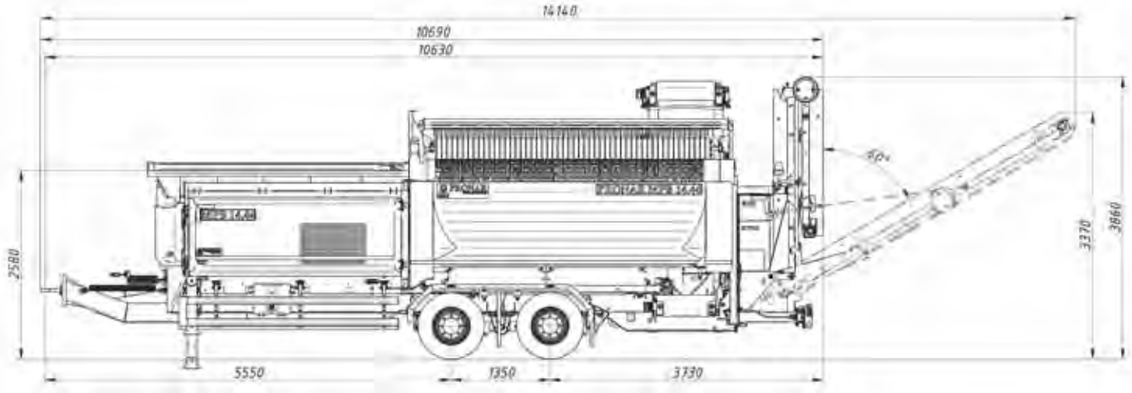
MPB 14.44	MPB 18.47	MPB 20.55	MPB 20.72	MPB 18.47g	MPB 20.55g	MPB 20.55gh	MPB 20.72g
Caterpillar, 2,2 L, Stage 3A, 32 (44) / 2200 # 36,4 (49) / 2800	Caterpillar, 3,4 L, EU Stage 3B, 55,4 (75) / 2200 # 55,4 (75) / 2200	Caterpillar, 4,4 L, EU Stage 3B, 72 (98) / 1600 # 74,5 (101) / 2200	-	Caterpillar, 3,4 L, EU Stage 3B, 55,4 (75) / 2200 # 55,4 (75) / 2200	Caterpillar, 4,4 L, EU Stage 3B, 72 (98) / 1600 # 74,5 (101) / 2200	Caterpillar, 4,4 L, EU Stage 3B, 72 (98) / 1600 # 74,5 (101) / 2200	-
Deutz, 2,9 L, EU Stage 3A, 32 (44) / 2200 # 36,4 (49) / 2600)	Deutz, 2,9 L, EU Stage 3B, 55,4 (75) / 2200 # 55,4 (75) / 2600	Deutz, 3,6 L, EU Stage 3B, 68 (92) / 1600 # 74,4 (101) / 2300	Deutz, 3,6 L, EU Stage 3B, 82 (111) / 2000 # 90 (122) / 2300	Deutz, 2,9 L, EU Stage 3B, 55,4 (75) / 2200 # 55,4 (75) / 2600	Deutz, 3,6 L, EU Stage 3B, 68 (92) / 1600 # 74,4 (101) / 2300	Deutz, 3,6 L, EU Stage 3B, 68 (92) / 1600 # 74,4 (101) / 2300	Deutz, 3,6 L, EU Stage 3B, 82 (111) / 2000 # 90 (122) / 2300
-	-	Caterpillar, 3,4 L, EU Stage IV, 81,1 (110) / 1600 # 90 (122) / 2200	Caterpillar, 3,4 L, EU Stage IV, 90 (122) / 2000 # 90 (122) / 2200	-	Caterpillar, 3,4 L, EU Stage IV, 81,1 (110) / 1600 # 90 (122) / 2200	Caterpillar, 3,4 L, EU Stage IV, 81,1 (110) / 1600 # 90 (122) / 2200	Caterpillar, 3,4 L, EU Stage IV, 90 (122) / 2000 # 90 (122) / 2200
-	-	Deutz, 3,6 L, EU Stage IV, 80,4 (109) / 1600 # 90 (122) / 2200	Deutz, 3,6 L, EU Stage IV, 90 (122) / 2000 # 90 (122) / 2200	-	Deutz, 3,6 L, EU Stage IV, 80,4 (109) / 1600 # 90 (122) / 2200	Deutz, 3,6 L, EU Stage IV, 80,4 (109) / 1600 # 90 (122) / 2200	Deutz, 3,6 L, EU Stage IV, 90 (122) / 2000 # 90 (122) / 2200
-	ABB, el., 30 (41) / 1450	ABB, el., 55 (75) / 1450	ABB, el., 55 (75) / 1450	-	-	-	-
-	ABB, el., 45 (61) / 1450	-	-	-	-	-	-

MATERIAL TRANSPORT	MPB 14.44	MPB 18.47	MPB 20.55	MPB 20.72	MPB 18.47g	MPB 20.55g	MPB 20.55gh	MPB 20.72g
Trommel dimensions (length/width) [mm]	4400/1400	4700/1800	5500/2000	7200 / 2000	4700/1800	5500/2000	5500/2000	7200 / 2000
Trommel rotational speed max[rpm]	23	23	24	23	23	20	20	19
Effective sieve surface [m²]	16	22,1	29,8	40,6	22,1	29,8	29,8	40,6
In-feed hopper dimensions (length/width) [mm]	3560/ 1850	3560 / 2120	3900 /2230	3900/ 2230	3560 / 2120	3900 / 2230	3900 / 2230	3900/ 2230
Loading height [mm]	2600	2800	2850	2730	2660	2700	2700	2830
In-feed hopper capacity [m³]	3 ,3	5	6	6	5	6	6	6
Dimensions of exterior side conveyor (length/width) [mm]	5200/800	5200/800	4900/1000	4900 / 1000	5200/800	4900/1000	6000/1000	4900 / 1000
Dimensions of exterior rear conveyor (length/width) [mm]	5200/800	5200/800	4900/1000	4900 / 1000	5200/800	4900/1000	6000/1000	4900 / 1000
Width of interior longitudinal conveyor [mm]	1000	1300	1300	1300	1300	1300	1300	1300
Width of interior transverse conveyor [mm]	600	600	800	800	600	800	800	800
Control voltage [V]	12	12	12	12	12	12	12	12
Central lubrication system	+	+	+	+	+	+	+	+
Rear conveyor belt speed regulation	+	+	+	+	+	+	+	+
Side conveyor belt speed regulation	+	+	+	+	+	+	+	+

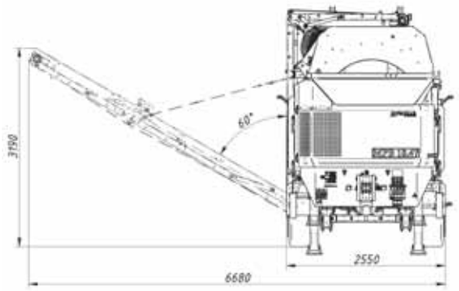
ADDITIONAL AND OPTIONAL EQUIPMENT	MPB 14.44	MPB 18.47	MPB 20.55	MPB 20.72	MPB 18.47g	MPB 20.55g	MPB 20.55gh	MPB 20.72g
Magnetic Roller - rear converyor	+	+	+	+	+	+	+	+
Magnetic Roller - side converyor	+	+	+	+	+	+	+	+
Air separator	-	+	+	+	+	+	-	+
Stone Grid above charging hopper	+	+	+	+	+	+	+	+
Chute near In-Feed hopper	+	+	+	+	+	+	+	+
Side convoyer cleaning brush	+	+	+	+	-	-	-	+
Rear convoyer high guards	+	+	+	+	-	-	-	+
Rear conveyor 3m	+	+	+	+	+	+	-	-
Side conveyer 3m - left side	-	-	+	+	-	+	-	+
Side conveyer 3m	-	-	+	+	+	+	-	+
Ball attachment	+	+	+	-	n.a	n.a	n.a	n.a
Hydraulically controlled front support legs	+	+	+	-	n.a	n.a	n.a	n.a
Screen hole size	according to customer's requirements							
Sieve wall thickness	according to customer's requirements							
Drawbar eye diameter ø40	+	+	-	-	n.a	n.a	n.a	n.a
Drawbar eye diameter ø57 (Swedish standard)	+	+	+	-	n.a	n.a	n.a	n.a
Side security guards	+	+	+	+	+	+	+	+
Cleanfix for motor cooler	+	+	+	+	+	+	+	+
Cleanfix for hydraulic oil cooler	+	+	+	+	+	+	+	+
In-Feed hopper load/pressure sensor	+	+	+	+	+	+	+	+
Water container (30l) with a soap dispenser	+	+	+	-	+	+	+	+
Work area light system (3 points)	+	+	+	+	+	+	+	+
Steel bike catchers	+	+	+	-	n.a	n.a	n.a	n.a
Additional hydraulic pumps (20 l/ min, 40 l/min)	-	-	+	+	+	+	+	+

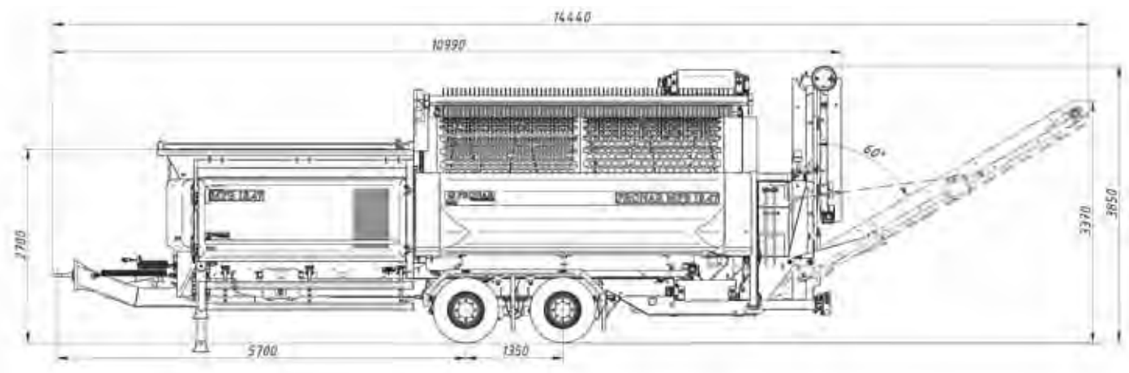
Mobile trommel screen MPB 14.44



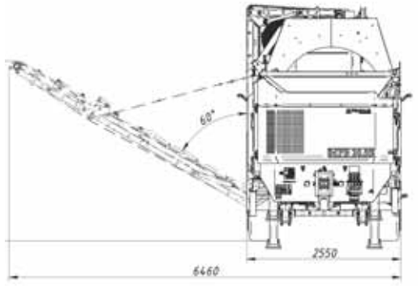


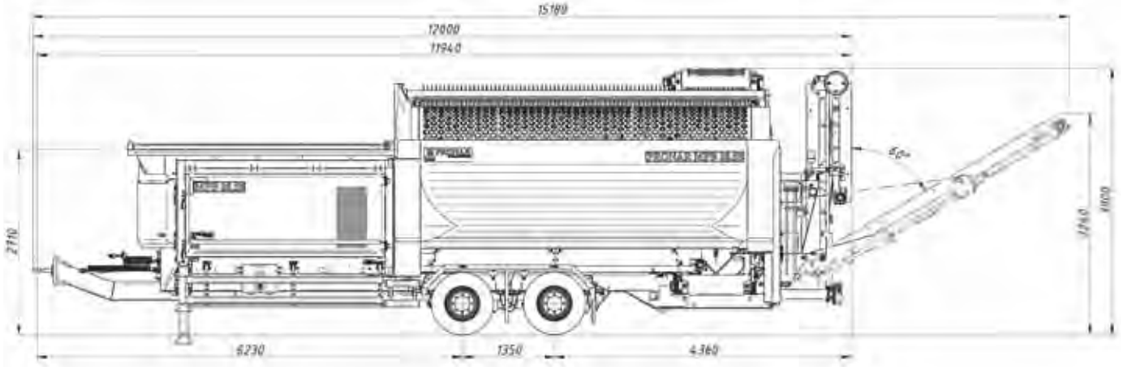
Mobile trommel screen MPB 18.47



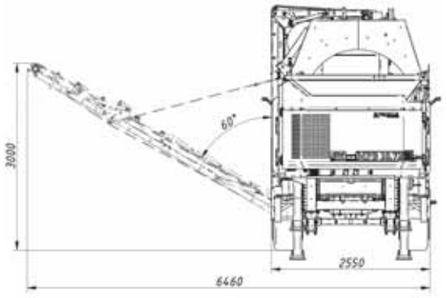


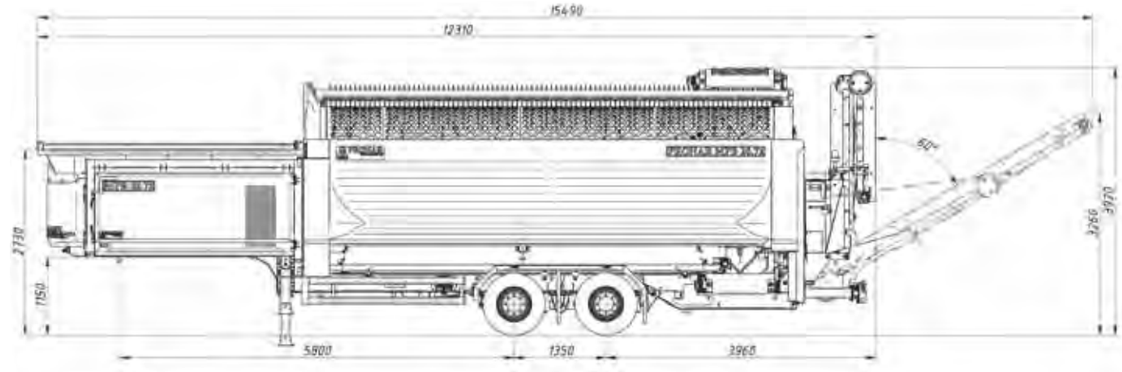
Mobile trommel screen MPB 20.55



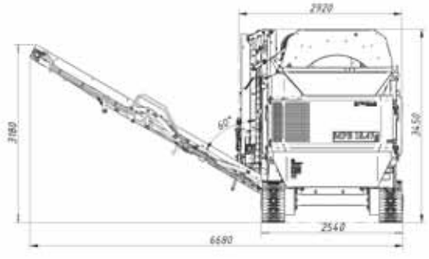


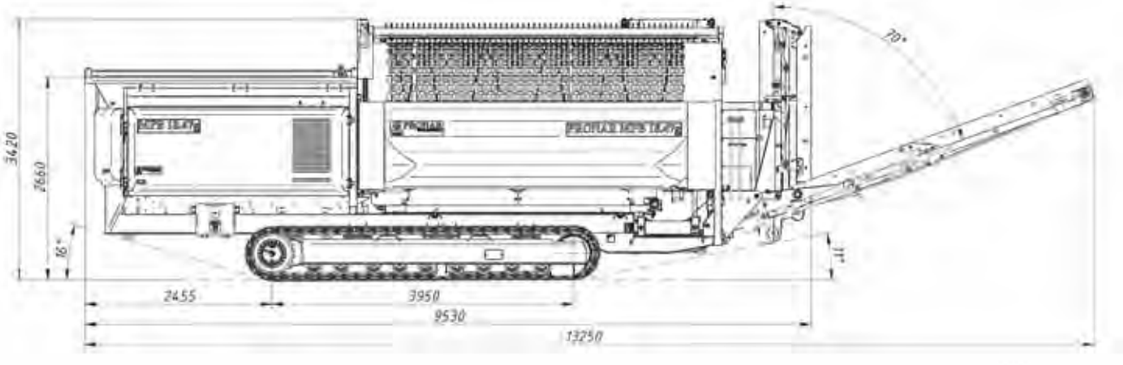
Mobile trommel screen MPB 20.72





Tracked mobile trommel screen MPB 18.47g





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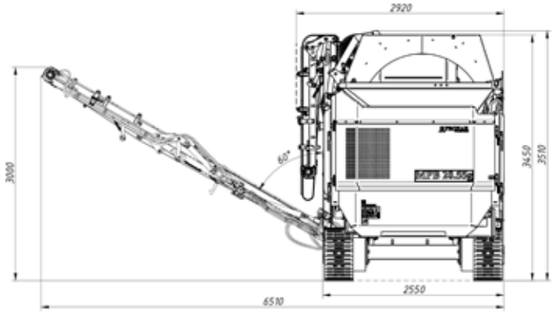
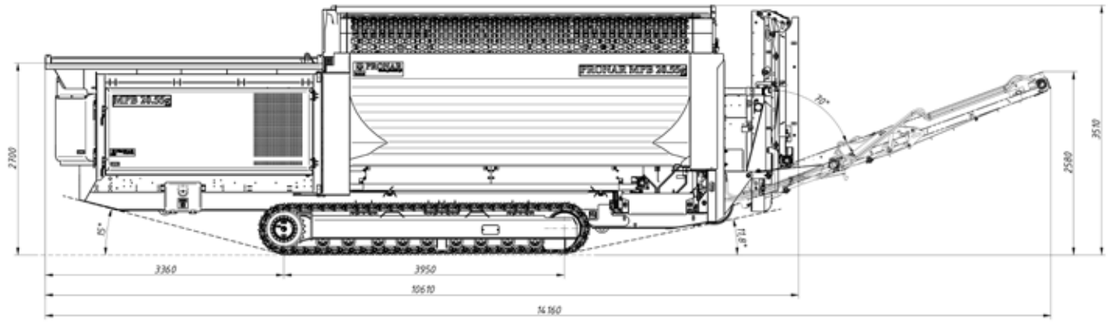
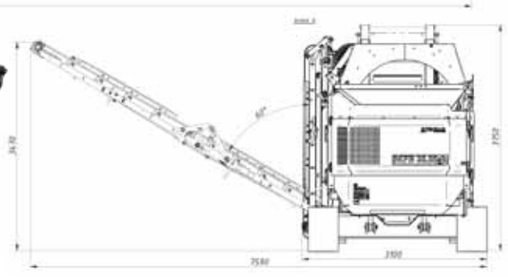
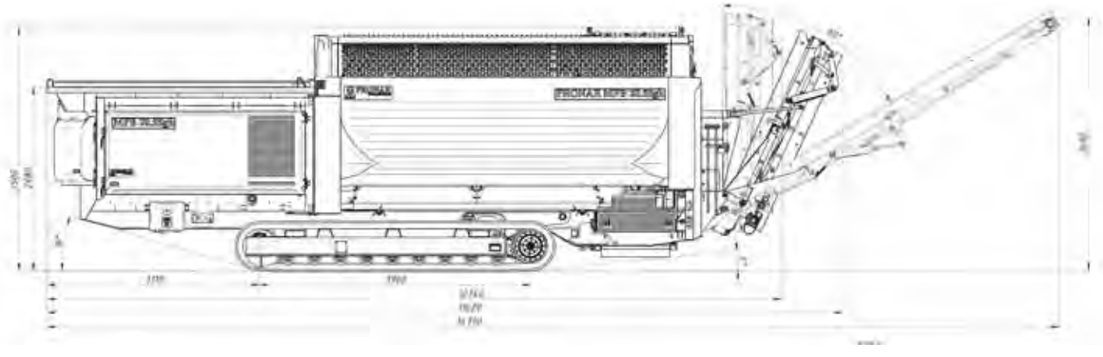


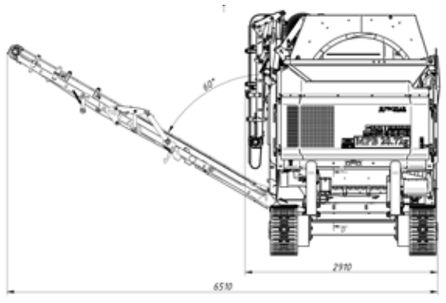


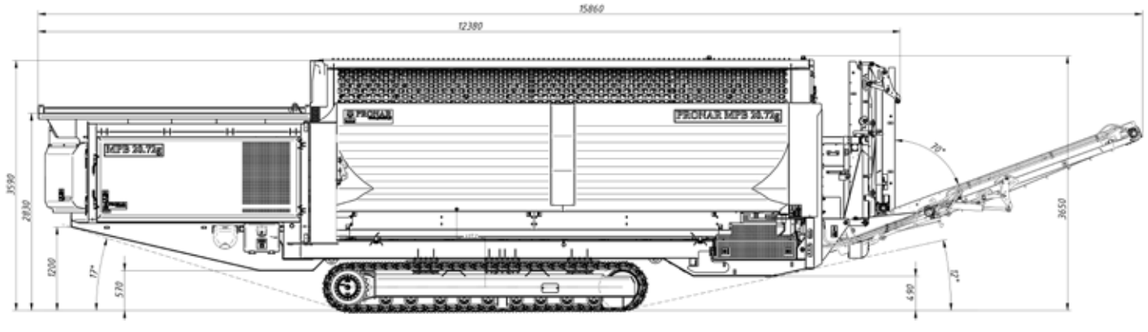
Tracked chassis mobile trommel screen with hydraulic system clearance regulation MPB 20.55gh





Tracked mobile trommel screen MPB 20.72g





DRUMS

Pronar MPB Trommel drums may be easily changed to suit material screening requirements.

Pronar also produces screen drums compatible with other manufacturers' machines.

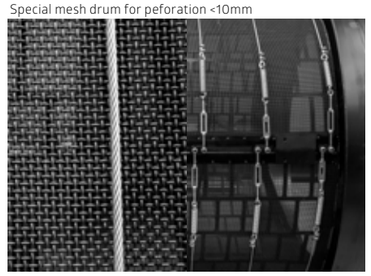
Depending on the screened material: soil, compost, municipal waste, aggregate, biomass;
different types of perforation are available, shapes include round or square, any size hole available.

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 thickness 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 or made of steel mesh

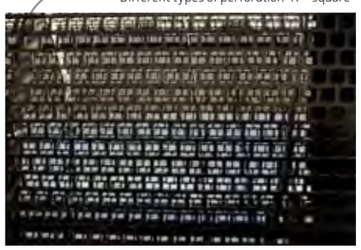
Screwed knives for ripping bags with waste*

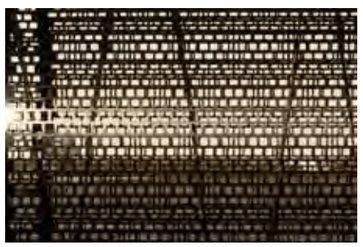
Special mesh drum for peforation <10mm

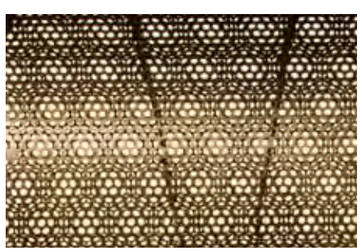


Drum length [mm]	Drum diameter [mm]	Available drum thickness [mm]	Perforation shape
4400	1400	6/8/10	square / round
4700	1800	6/8/10	square / round
5500	2000	6/8/10	square / round
7200	2000	6/8/10	square / round

Different types of perforation "K" - square







Different types of perforation "O"-round

STARSCREEN FOR MPB 20.55

Material spreading shaft

Starscreen can be used instead of trommel. Utilising starscreen during works on wet material increases machine efficiency. The rotation speed of the stars can be steplessly regulated which allows for accurate setting of the separated fraction

Destinated for:
- Municipal and industrial waste, compost,
- Shredder tree stumps, wood, bark,
- Contaminated aggregates: sand, gravel, clay, stones, soil, peat, coal,
- Materials for road or garden works

Available starscreens:

Model	Screening area
MPB 20.55	1,2 x 4,9 (5,72 m²)

Baan naar Bree 137, 3990 Peer

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Herema recycling machinery