

PRONAR TWO-SHAFTS SLOW-SPEED SHREDDERS

MRW 2.1010

Great efficiency at competitive price



MRW 2.1010 KEY FEATURES

Engine:

Volvo Penta 16.1 l, EU Stage 2, 565 kW (768 BHP) @ 1850 rpm

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Fuel consumption*:

50-70 l/h

Weight:

approx. 40 000 – 45 000 kg

Application:

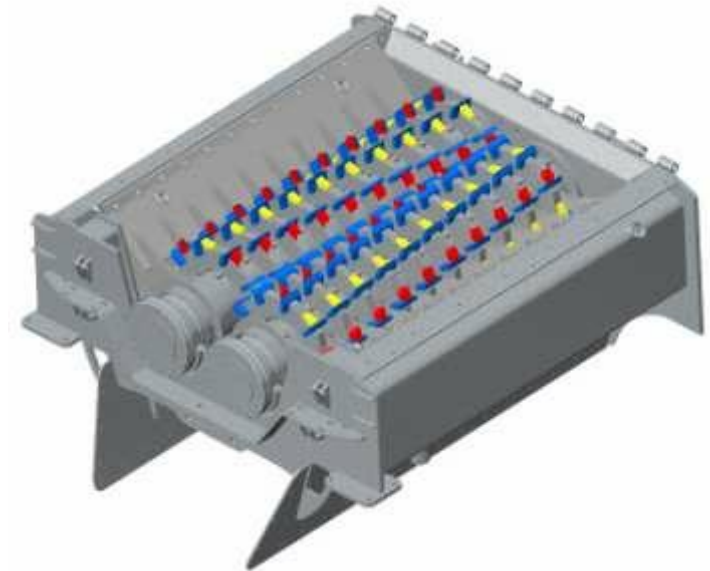
shredding municipal green, industrial, construction waste, pallets, tree cutting residues, tree stumps, bulky and oversized materials, light scrap



**Presented figures are approximate and depend on the engine load. Given figures cannot be basis of any claims.*

MRW 2.1010 SHREDDING SYSTEM

Shaft construction	10 sections, 10 knives on each
Rotation	synchronized, up to 34 rpm
Shaft size [mm]	2440x850
Shredding chamber [mm]	2440x2880
Torque [Nm]	2x 250 000
Gear ratio	1/74,8
Max. shafts pressure [bar]	320
Hopper capacity [m ³]	4,5
Loading height [mm]	3200



MRW 2.1010 ENGINE SPECIFICATION

Brand	Volvo Penta
Displacement [l]	16.12
Power	565 kW (768 HP) @ 1850 rpm
Max torque [Nm]	3260
Fuel consumption [l/h]	50-70 l/h
Fuel tank capacity [l]	1200
Cylinder configuration	in-line 6



MRW 2.1010 CHASSIS

Type	tracked
Travelling speed	1 km/h
Approach angle (front/rear) [°]	21/14
Brand	Strictland (UK)



MRW 2.1010

Standard equipment



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Standard equipment



TWO SHREDDING SHAFTS

Shredding shafts and working chamber made with wear-resistant steel using water cutting technology and welding robots. Automatic reverse if needed. You can order more than one set of shafts while buying the machine or order later. Just contact our sales team to get the best possible price.

Brand: Pronar (PL)



MRW 2.1010

Standard equipment



4,5 m³HYDRAULIC TIPPING CHUTE

Allows to feed over-sized material into working chamber. Operated via remote control or set to work automatically with time intervals.

Brand: Pronar (PL)



MRW 2.1010

Standard equipment



TOUCH SCREEN CENTRAL CONTROL PANEL

Provides information about machine status and allows to change shredding settings. Auto-start function gives you an easy start.

Brand: IFM (CH), Pronar (PL)



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CENTRAL LUBRICATION SYSTEM

Central lubrication system ensures good greasing of most important parts of the machine. Greasing frequency is adjustable.

Brand: Groeneveld (NL), Lincoln (USA)



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REMOTE CONTROL

For changing basic working parameters, maneuvering, folding and unfolding the machine, adjusting working height of magnetic separator.

Brand: Tele Radio (S)



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REVERSIBLE RADIATOR

Keep your engine and hydraulic oil cooler clean thanks to compressed air. Works automatically. Frequency or air bursts is adjustable.

Brand: Cleanfix (DE)



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1200 l FUEL TANK

Big fuel tank allows to work without unnecessary stops for frequent refuelling. Thanks to bottom valves it's easy to drain water and sediment.



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LED LIGHTS

Additional lights increase safety near the machine in low-light conditions.



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BEACON LIGHT

Provides basic information about machine working status and errors.



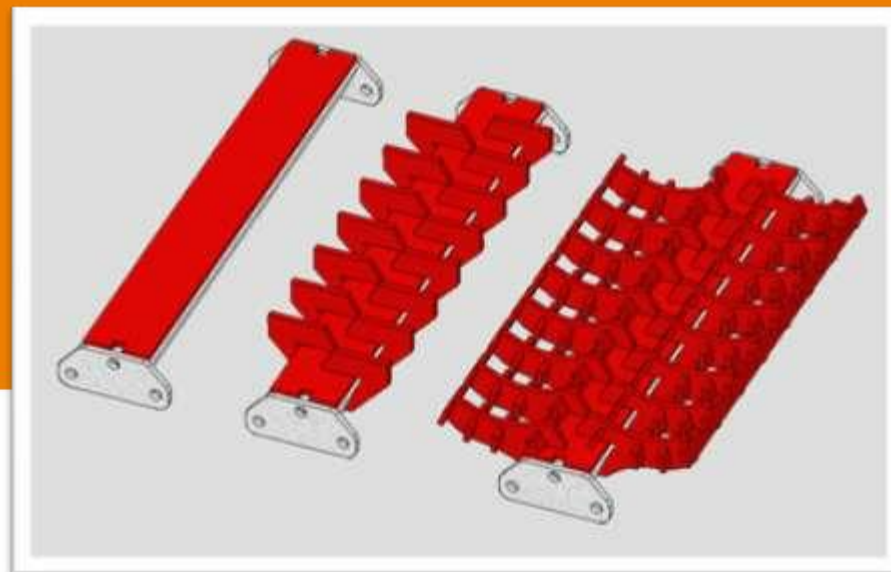
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Optional equipment



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BREAKING BARS

Achieve different fraction size by mounting different bars under shafts: straight, comb, and basket.

Brand: Pronar (PL)



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Optional equipment



MAGNETIC SEPARATOR

Efficient way to remove ferromagnetic elements from shredded material.

Working height adjusted hydraulically.

Changing belt and removing the separator

is easy.

Brand: Magnapower (UK)



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Optional equipment



EASY TO PUT ON TRACK PADS

Allows to move on tracks without damaging the surface. Available in two variants – full (for each segment) or $\frac{1}{2}$ (for every second segment).



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Shredding



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Material: wood waste

Braking bar: no



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Material: green waste

Braking bar: no



MRW 2.1010

Material: green waste

Braking bar: comb



MRW 2.1010

Material: wood waste

Braking bar: comb



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Material: cable reels

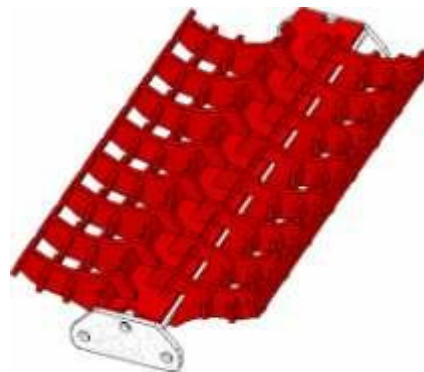
Braking bar: comb



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Material: wood waste

Braking bar: basket



OWN MANUFACTURING



All steelwork is made at Pronar factory in Poland (from steel sheets/steel bars to a ready machine). Many components made are 100% made in Pronar. All this ensures high quality which is checked frequently.



SHREDDING SHAFTS CORES



Pronar provides own shafts produced in-house with solid shafts core which result in longer lifetime and ability to process harder material and stand higher pressure from hard materials.



SHREDDING SHAFTS KNIVES



Knives made using water jet cutter guarantee better sharpness and hardness.

Manufacturing in low temperature significantly improves the time periods between shafts hardfacing (500 - 1500 working hours, depending on shredded material) as knives surface is not softened by high temperature processing. Time gaps between shafts hardfacing can be up to 50% longer which is a massive cost and downtime reduction to the machine user.

Sharp knives cut the material instead of tear apart/crush. Cutting with sharp knives require much less energy than tearing or crushing and provide better efficiency.



SHREDDING SHAFTS KNIVES



Pronar uses special type of Creusabro steel for shafts knives manufacturing. It has self hardening properties. The more impact from hard material on Creusabro steel, the harder it eventually gets.



SHREDDING SHAFTS



In Siemiatycze factory, where all recycling machines are built, automated welding robots are used. High repeatability and a perfectly routed weld are undoubted advantages.



STEEL FRAME



To make frames and many steel parts of all recycling machines, Pronar use 3D lasers which replace work of several others – drills, milling machines and saws. It is efficient, fast and cost saving.



PNEUMATICS AND HYDRAULICS



Pronar is leading producer of pneumatic and hydraulic elements. Within the framework of the department the modern office exists of constructions and technology employing high qualified specialists. Many years of experience in this field give confidence.

