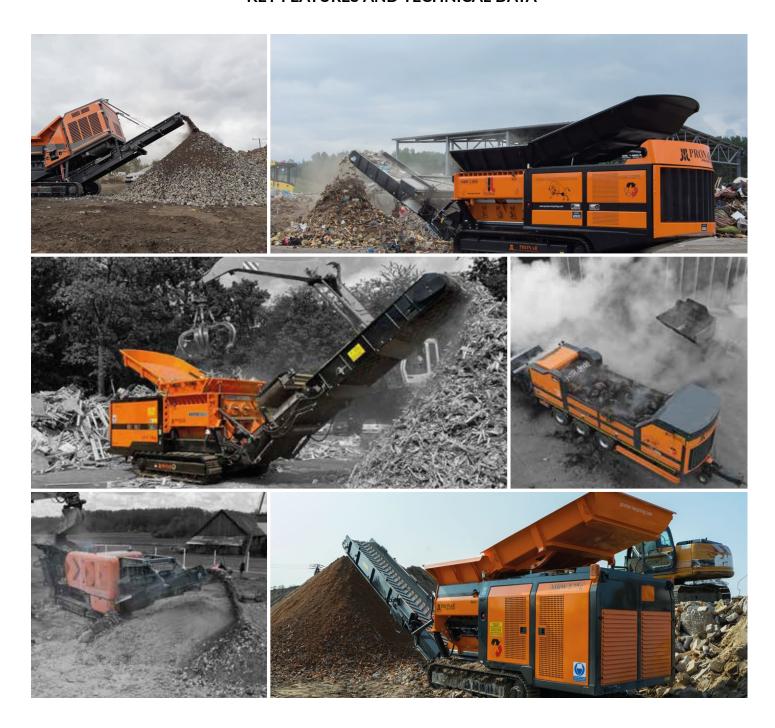


# RECYCLING EQUIPMENT RANGE

**KEY FEATURES AND TECHNICAL DATA** 





Available for sale or hire with Global Machinery Solutions.

Speak to us about our tailored service packages.

# WE MAKE RECYCLING EASY.





# **PRONAR**

Pronar is a company with over 30 years of production and sales experience and declared as one of the fastest developing companies in Central and Eastern Europe. We are a leader in the production of agricultural, recycling and municipal machinery, disc wheels (biggest manufacture in Europe, second biggest in the world), driving sys tems, gears and pneumatic and hydraulic components. All crucial components and whole machines are manufactured in-house in eight modern factories. Pronar employs over 3000 people, from which 170 are highly qualified engineers. They are supported by results of research conducted by own research and development center. An undoubted advantage of Pronar is its own airfield and a fleet of airplanes used for quick business communication and emergency service cases.

Pronar constantly invests in new factories and high-tech manufacturing equipment. Every year we implement new production techniques like very precise machining centers, welding robots, water jets, 3D laser cutters and welders. As a result, our customers can be sure that their machines were made with the utmost care and precision.

Products carrying Pronar logo can be found in over 80 countries around the world and on every continent - whole Europe, USA, Canada, Mexico, Chile, China, South Korea, Japan, Australia and many others. Customers appreci ate their high quality, ease of use and service, as well as very good after-sales support. Every day we are driven by a passion to create innovative solutions that allow us to compete with the largest players in global markets.





# **MOBILE SHREDDERS**

Mobile slow-speed shredders are first in line as a primary shredders. They tackle the toughest, often contaminated material. Their task is to pre-shred the processed material and thus reduce its volume. As a result, the material is prepared for a second stage of shredding or easier sorting. In the appropriate configuration of the slow-speed shredder, it is possible to use the processed material processed as the final product. Pronar shredders are manufactured using the latest technologies. The entire process uses welding robots to weld frames and shafts, as well as water cutters that guarantee keeping the key parameters of the steel being cut without the need for additional hardening. Elements exposed to particular ly high stress are subject to special quality control of the steel and welds used. The use of high-end hydraulic systems guarantees their reliability.

#### **KEY FEATURES**

- I the possibility of easy adjustment of the machine to the material being processed,
- high strength of the structure thanks to the use of high grades of steel,
- various types of shafts depending on the material being processed,
- | extensive equipment as standard,
- I production with the use of welding robots as well as laser and water cutters





PRO.S1 is an entry-level shredder capable of processing construction, municipal, or green waste. Its compact size and the ability to be transported by generally used hooklift vehicles while maintaining a tracked chassis facilitate transportation and enhance on-site mobility. PRO.S1 is equipped with simple yet highly effective solutions. One of them is the mechanically adjustable side combs. Conducting this operation requires commonly used impact gun or even manual tools. The design and its application are so unusual and unique that this solution has been submitted to the Patent Office.

#### **KEY FEATURES & BENEFITS**

- l easy-to-replace shafts in the cassette
- I compact size
- I hooklift and tracked chassis in one machine
- I low weight
- I low fuel consumption
- | attractive price

#### **APPLICATION**

- | municipal waste
- wood waste
- l c&d
- I green waste



TECHNICAL DATA PRO.S1

| Dimensions (length/width/height)          | 8000/2266/2550 mm                              |
|---|--|
| Weight                                    | 15000 kg*                                      |
| Number of shafts                          | 2  |
| Shafts length                             | 1500 mm  |
| Loading height                            | 2419 mm  |
| Working chamber dimensions (length/width) | 1500/1500 mm                                   |
| Engine                                    | Volvo Penta 5.1l, 129 kW, Stage V/Tier 4 Final |

<sup>\*</sup> Weight depends on the specification of the individual piece and may be higher

# PRO.S1









The Pronar MRW 2.1010 slow-speed shredder is the largest machine in the offer, designed to work in large installations. Its heart is the Volvo Penta or CAT engine with lots of power and combined with load sensing hydraulics and two hydraulic motors per shaft, allows you to deal with difficult materials. The working chamber is 2.44 m long and the chute capacity is 4.5 m³, which makes it possible to work even with large loaders. The weight of 44 tons (depending on the configuration) is a guarantee of solid construction with the use of thick steel, especially in sensitive points exposed to high stress. The MRW 2.1010 shredder is also designed for easy service. Machine draining points are located on the outside for easy access. There is also enough space inside the shredder to be able to carry out all necessary repairs in comfortable conditions.

#### **KEY FEATURES & BENEFITS**

- I high efficiency
- I the ability to work even with difficult materials
- I homogeneous final fraction
- only toughest steel grades guarantee solid construction
- l easy service access
- possibility to choose engine version without DPF and SCR

#### **APPLICATION**

- wood
- | wood-based materials
- I municipal waste
- | large-size
- I industrial waste
- | tires
- scrap metal
- | car bodies (without engines and axles)
- | mattresses

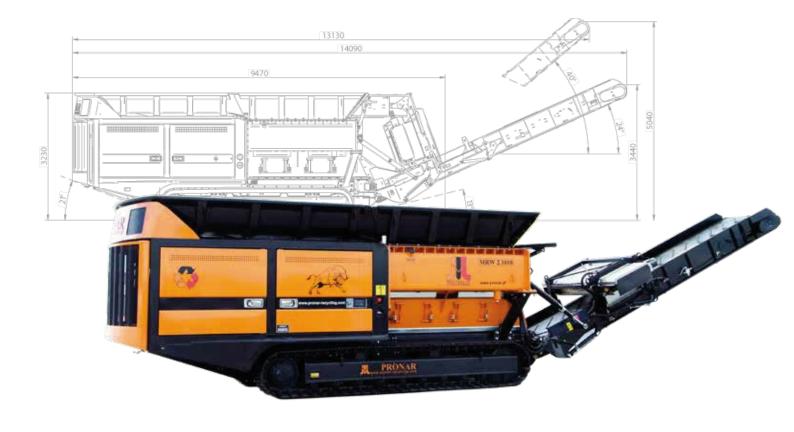


TECHNICAL DATA MRW 2.1010

| Dimensions (length/width/height) [mm]          | 9470/3000/3230  |  |
|--|---|--|
| Weight [kg]                                    | ~44000*   |  |
| Number of shafts                               | 2   |  |
| Shafts length [mm]                             | 2440  |  |
| Loading height [mm]                            | 3230  |  |
| Working chamber dimensions (length/width) [mm] | 2440/2880   |  |
| Hopper capacity [m³]                           | ~4,5  |  |
| Engine   | Volvo Penta 16.1l, 585 kW, Stage V/Tier 4 Final,<br>CAT 18l, 563 kW, Stage V/Tier 4 Final |  |

<sup>\*</sup> Weight depends on the specification of the individual piece and may be higher

# MRW 2.1010







The single-shaft slow-speed shredder of the Pronar MRW 1.300 series is a machine designed to work in large installations. Its heart is a 3 m long shaft driven directly by a diesel engine. Basing this on hydrokinetic clutch mechanism guarantees up to 95% efficiency in power transmission. System of a tilting beam with counter knives and protection on the clutch allow you to cope with the situation of unshreddable material falling into the working chamber. The availability of screens of various sizes and steel limiters (optional equipment) mounted under the shaft allows you to adjust the size of the final fraction to the requirements. Thanks to the wheeled chassis, the machine can be transported on public roads (depending on local regulations), and the tracked chassis allows for easy maneuvering in the yard.

#### **KEY FEATURES & BENEFITS**

- knives replaceable with the use of generally available tools
- I high drive efficiency
- I possibility of installing screens or limiters under the shaft
- l easy service access

#### **APPLICATION**

- wood
- wood-based materials
- | municipal
- | bulky
- I industrial and green waste



| TECHNICAL DATA                                 | MRW 1.300  | MRW 1.300g   |
|--|--|--|
| Dimensions (length/width/height) [mm]          | 10140/2540/3675                                    | 8360/2540/3460                                     |
| Weight [kg]                                    | ~27000*  | ~30000*  |
| Number of shafts                               | 1  | 1  |
| Shafts length [mm]                             | 3000   | 3000   |
| Loading height [mm]                            | 2870   | 2720   |
| Working chamber dimensions (length/width) [mm] | 3650/2200  | 3650/2200  |
| Hopper capacity [m³]                           | ~6,4   | ~6,4   |
| Engine   | Volvo Penta 12.8l, 405 kW,<br>Stage V/Tier 4 Final | Volvo Penta 12.8l, 405 kW,<br>Stage V/Tier 4 Final |

<sup>\*</sup> Weight depends on the specification of the individual piece and may be higher

# MRW 1.300







The slow-speed shredders of the Pronar MRW 2.85 series are machines designed with efficiency in mind for operation in medium-sized installations. Thanks to the availability of the hook chassis (meeting the DIN 30722-1 standard), tracked and wheeled chassis, each customer can choose a machine exactly suited to his needs. The hook version is undoubtedly an advantageous purchase price. The wheeled version is perfect for customers who often transport the machine on public roads. The tracked version is undoubtedly easy to move around the yard, while maintaining the dimensions that allow the machine to be easily transported on a low-loader trailer. The 420hp CAT engine in the machine is working with load sensing hydraulics for low fuel consumption. The hook version can be equipped with an electric motor that guarantees low operating costs and enables continuous operation inside the building.

#### **KEY FEATURES & BENEFITS**

- I homogeneous size of final fraction
- I various chassis versions
- | quick set-up time
- l electric motor available

#### **APPLICATION**

- wood
- wood-based materials
- municipal waste
- bulky
- | industrial
- I construction waste
- | asphalt
- **I** tires
- I thin-walled scrap



| TECHNICAL DATA                                 | MRW 2.85   | MRW 2.85g       | MRW 2.85h   |
|--|--|-----------------|---|
| Dimensions (length/width/height) [mm]          | 9010/2550/3960   | 7757/2550/3240  | 7350/2575/2740  |
| Weight [kg]                                    | ~26000*  | ~26380*         | ~21500*   |
| Number of shafts                               | 2  | 2               | 2   |
| Shafts length [mm]                             | 1700   | 1700            | 1700  |
| Loading height [mm]                            | 3220   | 3030            | 2480  |
| Working chamber dimensions (length/width) [mm] | 1720/2340  | 1720/2340       | 1720/2340   |
| Hopper capacity [m³]                           | ~3   | ~3              | ~3  |
| Engine   | CAT C9.3B, 310 kW, Stage<br>V/Tier 4 Final;<br>CAT C9, 280 kW, Tier 3) | V/Tier 4 Final; | CAT C9.3B, 310 kW,<br>Stage V/Tier 4 Final;<br>CAT C9, 280 kW, Tier 3)<br>S ABB, 250 kW + 22 kW |

 $<sup>^{</sup>st}$  Weight depends on the specification of the individual piece and may be higher





The slow-speed shredders of the Pronar MRW 2.75 series are machines designed for companies that need compact equipment. Various types of easily replaceable shafts are available, allowing the shredder to be adapted to the task at site. Pronar MRW 2.75 is available with a hook or tracked chassis. The 285 HP Volvo Penta engine installed in the machine allows for smooth operation even with tougher materials. Together with the load sensing hydraulics, it is possible to achieve high performance without high fuel consumption.

#### **KEY FEATURES & BENEFITS**

- l easily replaceable shafts in the cassette
- | compact size
- I flexible motor with high power
- I high discharge from the feeder

#### **APPLICATION**

- wood
- | wood-based materials
- I municipal waste
- | bulky
- industrial
- | construction waste
- c&d waste
- asphalt
- l tires
- I thin-walled scrap



| TECHNICAL DATA                                 | MRW 2.75h   | MRW 2.75g   |
|--|---|---|
| Dimensions (length/width/height) [mm]          | 6700/2486/2740  | 6642/2491/2990  |
| Weight [kg]                                    | ~16000*   | ~16500*   |
| Number of shafts                               | 2   | 2   |
| Shafts length [mm]                             | 1550  | 1550  |
| Loading height [mm]                            | 2520  | 2750  |
| Working chamber dimensions (length/width) [mm] | 1620/2340   | 1620/2340   |
| Hopper capacity [m³]                           | ~2,5  | ~2,5  |
| Engine   | Volvo Penta 7.7l, 210 kW, Stage V<br>Tier 4 Final/Stage 3A/Tier 3 | / Volvo Penta 7.7l, 210 kW, Stage<br>V/Tier 4 Final/Stage 3A/Tier 3 |

<sup>\*</sup> Weight depends on the specification of the individual piece and may be higher

# MRW 2.75h





The Pronar MRW 2.65 slow-speed shredder is a machine designed for companies that value the mobility and versatility of the equipment. Various types of easily replaceable shafts are available, allowing the shredder to be adapted to the task at site. Thanks to the hooklift frame (in accordance with the DIN 30722-1 standard) and the tracked chassis, it is possible to easily transport the machine to the workplace, and then move around. It is possible to order MRW 2.65 with only tracked chassis. Due to its compact size, Pronar MRW 2.65 can work wherever space is limited. This also makes Pronar MRW 2.65 great for rental. The 240 HP Volvo Penta engine installed in the machine allows for smooth operation with various materials. Optimally matched with load sen sing hydraulics for the main components of the machine, low fuel consumption is guaranteed. Tracked version is equipped with lifting chute for easier working with bigger loaders. Thanks to additional soundproofing, machine is industry leader when it comes to low noise emissions.



TECHNICAL DATA MRW 2.65

| Dimensions (length/width/height) [mm]          | 6967/2276/2639                                 |  |
|--|--|--|
| Weight [kg]                                    | ~17000   |  |
| Number of shafts                               | 2  |  |
| Shafts length [mm]                             | 1550   |  |
| Loading height [mm]                            | ~2500  |  |
| Working chamber dimensions (length/width) [mm] | 1620/2340                                      |  |
| Hopper capacity [m³]                           | n/a  |  |
| Engine   | Volvo Penta 5.1l, 175 kW, Stage V/Tier 4 Final |  |

<sup>\*</sup> Weight depends on the specification of the individual piece and may be higher

# MRW 2.65









The Pronar MRS 1.53 mobile high-speed shredder is a machine whose key element is the rotor rotating at a speed of up to 1000 rpm. In the standard version, 36 swinging, easily replaceable hammers adapted to the material being processed are mounted on it. The machine prepared in this way is great for wood-based materials or green waste. In the RDF specification, the standard shaft is replaced with a drum with bolted, fixed knives, making it a mobile mill. In this configuration, the Pronar MRS 1.53 shredder is able to grind the material used later as an alternative fuel. In both versions, screens that determine the final size of the processed material can be installed in front of the shaft. The optional magnetic separator allows the removal of ferromagnetic elements from the final stream that were not separated during the first stage shredding.



TECHNICAL DATA MRS 1.53

| Dimensions (length/width/height) [mm]          | 11750/2537/3640                                 |
|--|---|
| Weight [kg]                                    | ~27000*   |
| Number of shafts                               | 1   |
| Shafts length [mm]                             | 1750  |
| Loading height [mm]                            | 2400  |
| Working chamber dimensions (length/width) [mm] | 3670/2200                                       |
| Hopper capacity [m²]                           | n/a   |
| Engine   | Volvo Penta 12.8l, 405 kW, Stage V/Tier 4 Final |

<sup>\*</sup> Weight depends on the specification of the individual piece and may be higher

# MRS 1.53







The shredding shafts used in Pronar MRW and MRS series recycling machines, are solutions tailored to custo mer's needs. A wide range of shafts to apply them to all the most popular work - shredding municipal waste, construction waste, pallets, light debris, tree stumps, branches, bulky materials or scrap.

The customer can make a choice of either a universal shaft or with knives and hooks designed for a specific type of material. During the production of shafts, the latest technologies are used - including water cutting. This ensures high hardness of the shredding element of the shaft in its entire cross-section. The use of intelligent welding ro bots allows to achieve perfect weld and high repeatability of movements. Long work without the need of frequent regenerating of the shafts is ensured by the the use of high resistance steel.

# Quality checks

Before being put into production, each batch of steel used to make the shafts is tested in the research and development center. Their key parameters are checked, confirming the appropriate steel grade and correct hardness.

# Rings are cut and milled

Each ring is precisely cut on milling machines. In the same time the shaft cores receive their final shape on numerical lathes.

#### **Knive cutting**

Use of water cutting technology allows to maintain physical and chemical properties of the material and for cutting at an angle. As a result, the knives do not have to be additionally hardened. They maintain high hardness all the time.

















Belt conveyors MPT 18g and MPT 24g from the Heavy Duty series are machines for customers looking for solutions with above-average durability and high efficiency. Thanks to the well-thought-out design and the use of a 2.8 CAT engine (55 kW at 2500 rpm), it is possible to move up to 600 tons of material per hour. The radio control of the machine is already available as standard, and it can be optionally equipped with direct hopper that allows to work with the front loader. The undoubted advantage of Pronar conveyors is their easy transport. The possibility of transporting it in a 40 'HQ sea container significantly improves the machine reaching the other end of the world.

#### **KEY FEATURES & BENEFITS**

- I durable construction
- I possibility of loading with a front loader
- I a direct feeding hopper with a volume of up to 12 m
- I efficient drive
- l easy transport
- wireless remote control as standard



| TECHNICAL DATA                                  | MPT 18g  | MPT 24g  |
|---|--|--|
| Conveyor length (total construction length) [m] | 19,3   | 23,4   |
| Max. throughput [t/h]                           | 500  | 600  |
| Discharge height [m]                            | 8,7  | 11,3   |
| Tilt angle max                                  | 25,2   | 27,2   |
| Belt width [mm]                                 | 1000   | 1000   |
| Weight [kg]                                     | 13800  | 15600  |
| Dimensions (length/width/height) [mm]           | 11860/2250/2557                                    | 11910/2250/2550                                    |
| Engine  | CAT 2.8I, 55,4 kW (75 HP), Stage<br>V/Tier 4 Final | CAT 2.8I, 55,4 kW (75 HP), Stage<br>V/Tier 4 Final |

# MPT 18g







The Pronar MPT 30/1g mobile belt conveyor is the largest conveyor model in the offer. It allows you to build a 13 m high pile. 30 meters of belt length and a capacity of up to 500 t/h make the machine perfect for even large installations where the mobility of the equipment is important. The undoubted advantage of Pronar MPT 30/1g is the possibility of folding it to dimensions that allow sea transport in a 40'HQ container. The additional Dual Power option allows you to work with a diesel engine or electricity. All drives are doubled, so when connected to the grid, it is also possible to move the machine, without the need to start the combustion engine.

#### **KEY FEATURES & BENEFITS**

- I max 13 m high pile
- I performance level matched to the most common sizes of screeners and crushers
- I dual power option for low operation and maintenance costs
- I low noise level
- I possibility of transport in a 40'HQ sea container
- I possibility to install extensions on the charging hopper



TECHNICAL DATA MPT 30/1g

| Conveyor length (total construction length) [m] | 30,6   |
|---|--|
| Max. throughput [t/h]                           | 500  |
| Discharge height [m]                            | 13   |
| Tilt angle max                                  | 25   |
| Belt width [mm]                                 | 1000 (1050)  |
| Weight [kg]                                     | 15750  |
| Dimensions (length/width/height) [mm]           | 12629/2950/3261  |
| Engine  | CAT 2.8I, 55,4 kW (75 HP), Stage V/<br>Tier 4 Final / Dual Power |

# MPT 30/1g







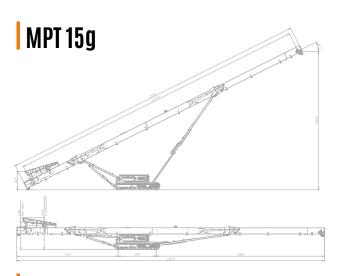
Belt conveyors MPT 15g, MPT 18/1g, MPT 24/1g are machines designed with low operating costs, lower weight and compact dimensions in mind. The capacity of 400 t/h allows you to transport quickly the material over long distances and to pile a pile with a maximum height of 7.4 m, 8.7 m, 10.6 m, respectively. The use of a 1.7 l and 36 kW CAT engine guarantees low fuel consumption and easy access service all around the world. All MPTs in this series are equipped with a Stage V compliant drive and fit in a 40' HQ sea container without disassembly.

#### **KEY FEATURES & BENEFITS**

- Making piles over 10 m high
- Designed to work in line with crusher or a screener
- I Engine with low fuel consumption
- Possibility of transport in a 40' HQ sea container
- Possibility to install extensions on the charging hopper

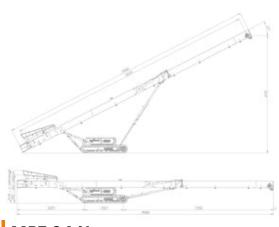


| TECHNICAL DATA                                  | MPT 15g  | MPT 18/1g  | MPT 24/1g  |
|---|--|--|--|
| Conveyor length (total construction length) [m] | 16,3   | 19   | 23,5   |
| Max. throughput [t/h]                           | 400  | 400  | 400  |
| Discharge height [m]                            | 7,4  | 8,7  | 10,6   |
| Tilt angle max                                  | 27   | 27   | 26,5   |
| Belt width [mm]                                 | 900  | 900  | 900  |
| Weight [kg]                                     | 9100   | 9720   | 11700  |
| Dimensions (length/width/height) [mm]           | 11857/2259/2411                                  | 11857/2249/2441                                  | 11885/2249/3162                                  |
| Engine  | CAT 1.7l, 36 kW (47 HP),<br>Stage V/Tier 4 Final | CAT 1.7l, 36 kW (47 HP),<br>Stage V/Tier 4 Final | CAT 1.7l, 36 kW (47 HP),<br>Stage V/Tier 4 Final |



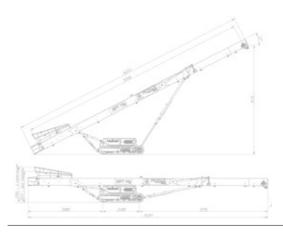


# MPT 18/1g





# MPT 24/1g







PRONAR

Stationary slow-speed shredder Pronar RW 2.85s is designed for shredding various types of materials. Working as a permanent element of the sorting line, the Pronar RW 2.85s shredder acts mainly as a bag opener and reduces the volume of waste before its further sorting and processing. As standard, it is equipped with stable bases on which it is mounted to the ground. The main source of drive is an electric motor. Pronar RW 2.85s has a hydraulically lifted hopper controlled by a remote control. Grinding is performed by means of synchronously working shafts selected depending on the processed material. Steel working elements are made of high-strength, wear-resistant materials, which ensures long and trouble-free operation of the ma chine.



M PRONAR RW 2.855

TECHNICAL DATA RW 2.85s

| Dimensions (length/width/height) [mm]          | 5783/3640/2611  |
|--|---|
| Weight [kg]                                    | ~16000*   |
| Number of shafts                               | 2   |
| Shafts length [mm]                             | 1700  |
| Loading height [mm]                            | 2480  |
| Working chamber dimensions (length/width) [mm] | 1720/2340   |
| Hopper capacity [m³]                           | ~3  |
| Engine   | <b>™</b> ABB, 250 kW + 22 kW<br><b>™</b> ABB 160 kW + 22 kW |

# RW 2.85s









# Providing world class machinery

# for more than 20 years.

Global Machinery Solutions has been providing high-quality machinery to the forestry, recycling, construction, aggregates and confidential shredding industries across the UK, Ireland and Europe for more than 20 years.

We work with some of the world's most respected brands and distribute only the highest performance and quality machines on the market.

We've grown to be one of the UK's most trusted and reliable distributors of specialist machinery - and our customers range from sole traders to major European infrastructure companies.

We provide an all-encompassing sales, maintenance, repairs and support service for every customer and are committed to delivering the best Global Machinery Solutions experience.





Team of experts



Quick response times



Service plan options



Nationwide coverage



#### **Our Location**

Our main depot is centrally located in Long Bennington, Nottinghamshire, which is just off the A1 and close to other major transport networks.

We have another site in Suffolk, where we also distribute machinery from – and carry out services and repairs. Having two bases means we're accessible from all corners of the UK and our engineers are never too far away to assist when needed.



#### **Our Recycling Team**

#### Jason Purllant

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#### Julian Lamb

Area Sales Manager (North of England)

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#### **Our Divisions**

Forestry & Arb



Recycling



Construction



Aggregates



Confi-shred



#### Installation, repairs - and beyond

Service Excellence from Global Machinery Solutions



#### Efficient installation and training

We deliver and install machines and then train teams to equip them with all the skills and knowledge they need to operate them proficiently and safely.



#### Ongoing maintenance and service

Our support doesn't end there! We have a nationwide network of skilled engineers and expert support team who are on-hand to address queries and provide technical assistance at all



#### Nationwide engineering coverage

Our national network of skilled engineers ensures efficient, expert support wherever you are, giving you peace of mind and keeping your machinery performing at its best.



#### Comprehensive diagnostic repairs

Our engineers use Jaltest, a comprehensive diagnostic tool used to identify and troubleshoot issues. It provides detailed diagnostic information, helping engineers to pinpoint problems accurately and efficiently, ultimately leading to faster repairs and improved machinery performance.



#### Parts warehouse

Our Long Bennington depot is home to a large parts warehouse with more than £2m of parts in stock, meaning our engineers can repair machines even quicker. Plus, customers can buy parts online and either have them delivered or collect them from our trade counter. Any parts we don't have in stock can be sourced easily.

#### Tailored service packages

We offer tailored service packages to make sure all machines are kept in top condition throughout their working life.











**Contact Us** 



Service & Aftercare



**Parts & Spares** 



We're an important cog in the growing construction and recycling sectors so having the right equipment is extremely important. I am delighted how Global Machinery Solutions have helped us achieve this with our shredder and excavator - and grateful for their continued support.

Paul Boyle Freedom Recycling



"Wood recycling is highly sustainable and delivers significant environmental and commericial benefits. I am incredibly impressed with the Pronar who have played a key role in doubling our wood processing capacity, increasing employee productivity, and reducing costs. The after-sales support from Global Machinery Solutions has been wonderful, and I am keen to continue working with the team as we continue to grow our business."

Neil Ogden Site Manager ENVA Manchester

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#### Providing world class machinery

for more than 20 years.

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# MAKE RECYCLING

**PRONAR** 

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