



RSX 2800

Pre-shredder

Versatile equipment | Robust and reliable | Clean and uniform cut

ABOUT MTB

MTB is a global leader in the recycling of complex industrial waste, offering both standalone machines and complete recycling lines.

With 45 years of experience as both an operator and manufacturer, MTB has an in-depth understanding of industry challenges and delivers innovative, tailor-made solutions.

All our equipment is designed and assembled in-house in France (Saint-Chef, near Lyon), ensuring outstanding quality and continuous technological advancement. Our expertise, engineering capabilities, and commitment to customer satisfaction enable us to provide high-performance equipment and consistent operational efficiency.

Engineering Expertise Built on Experience

Every MTB machine can be integrated into a complete recycling line by our in-house engineering department. These systems are designed to maximize value for our customers by producing the highest-quality end products.

Our approach and vision have been shaped by the day-to-day operation of our own production lines. This hands-on experience has enabled us to develop some of the most efficient recycling solutions available on the market.

As end users of our own equipment, we provide customers with a unique showcase of our technology, demonstrating the performance, reliability, and efficiency of our solutions under real operating conditions.



RSX 2300 Processing Bulky Waste

RSX 2800 PRE-SHREDDER

Designed for durability and performance

This **high-performance** pre-shredder is designed for the efficient processing of Common Industrial Waste (CIW) and bulky waste.

Its **two powerful rotors** operate asynchronously and in both directions. Power is delivered through a dual **eDrive electric transmission** system, enabling the machine **to provide maximum torque** from **startup** and fully utilize its power throughout the shredding process.

With a cutting width of **2,800 mm**, it ranks among the largest machines on the market and can achieve throughput rates of 40 tonnes per hour or more, depending on the input material.

Its intelligent design ensures **minimal maintenance costs and maximum uptime**, making it a reliable and cost-effective solution for industrial-scale waste processing.

Application Areas

- Bulky Waste
- CIW
- Construction & Demolition Waste
- Biomass
- Aluminium Profiles
- Baled Materials



RSX 2800 Rotor Blades

RSX 2800 - BENEFITS

For more than **45 years**, MTB has been a pioneer in recycling equipment for the cable, electronic waste, and Common Industrial Waste (CIW) markets. Building on the proven performance of our **RSX range**, this new pre-shredder establishes a new standard in industrial waste processing. Combining **optimized operating costs** with cutting-edge innovations, it delivers outstanding efficiency, especially when handling **challenging waste streams** such as CIW..

ROTORS / CUTTING TABLE

The rotors, designed and manufactured by MTB, have been engineered to deliver optimum shredding performance and outstanding durability.



- Spherical roller bearings
- Offset system to prevent bearing contamination
- Optimized tooth profile for precise shredding
- Customizable rotor design
- Hardox 500 cutting table and teeth
- 2,800 mm cutting width

EASY MAINTENANCE

Maintenance operations have been simplified and optimized to ensure quick access and efficient servicing.

- Quick access to the shredding chamber via the discharge door
- Access hatches
- Individual rotor replacement or complete shredding chamber replacement
- Replaceable and rebuildable cutting table
- Integrated automatic lubrication system



Capacity

UP TO **40 T/H**

135 m³/h

WIDE HOPPER

Can be loaded using a crane, conveyor, grab bucket, front-end loader, or walking floor system.



eDRIVE - SYNCHRONOUS MOTORS

Synchronous motors offer high performance and excellent energy efficiency.

- Variable-frequency synchronous motors
- Maximum torque, even at low speed
- Energy consumption reduced by up to 35% compared with hydraulic drives and by 10 to 15% compared with asynchronous electric motors
- Torque limiter to protect the machine in the event of an overload

OPTIONAL FEATURES

- If you do not have enough space for the electrical installations, the RSX 2800 can be equipped with a **POWER BOX**, a dedicated containment unit that includes electrical cabinets and a cooling system.
- **CONVEYOR** for output products
- **HOPPER EXTENSION** for improved material feeding
- **ACCESS PLATFORM** around the machine

eDRIVE - SYNCHRONOUS MOTOR

Our synchronous electric motors offer significant advantages over traditional hydraulic systems. For the same power rating, they deliver substantially higher torque, resulting in **improved overall efficiency**.

One of their key advantages is the ability to provide maximum torque from startup, which is particularly beneficial in demanding applications.

In addition, synchronous electric motors require **minimal maintenance**, unlike hydraulic systems that rely on regular servicing of pumps, hoses, and hydraulic fluids.

This translates into a **significant reduction in operating costs**, with savings of up to 50% compared to hydraulic solutions, making them a more economical and reliable choice for modern industrial machinery..



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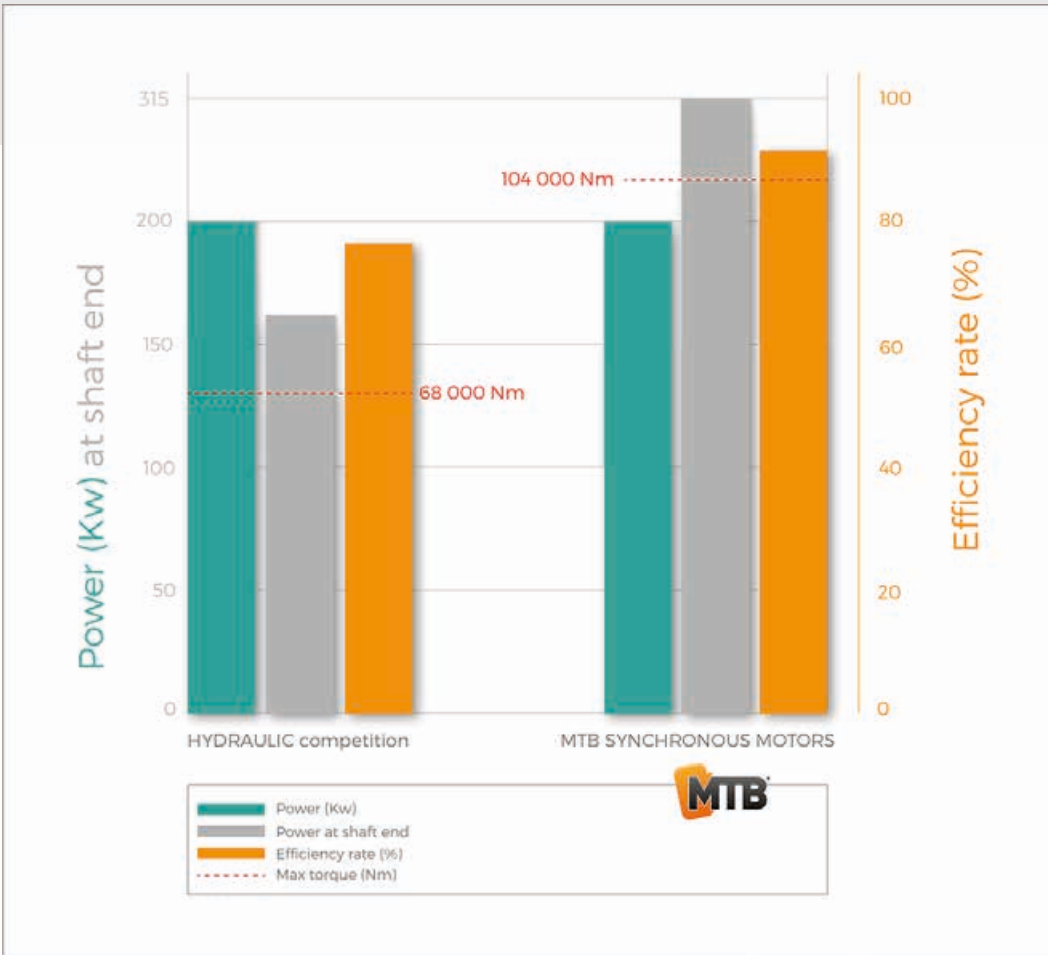
MAXIMUM TORQUE from startup
- +

NO NOISE EMISSIONS caused by vibrations
- +

LOW MAINTENANCE COSTS
- +

LOWER ENERGY costs and increased productivity
- +

REDUCED environmental footprint



TECHNICAL SPECIFICATIONS

RSX 2800	9 teeth	11 teeth
Power	2 x 210 kW	2 x 210 kW
Weight	28 T	28 T
Cooling power	40 kW	40 kW
Rotor diameter	900 mm	900 mm
Number of teeth	9 per shaft	11 per shaft
Rotational speed	0-45 RPM	0-45 RPM
Length	6.5 m	6.5 m
Height	3.8 m	3.8 m
Width	3 m	3 m
Output particle size	0-450 mm	0-450 mm

ERGONOMIC CONTROL PANEL



Our Human-Machine Interface (HMI) provides complete control of the pre-shredder through an intuitive and ergonomic design.

Engineered for efficiency, the interface gives operators access to all machine settings, enabling precise adjustments with ease. Pre-programmed recipes developed by our expert technicians ensure optimal performance tailored to each customer's specific requirements.

Whether your priority is maximum throughput or optimized operation, our HMI enables you to get the very best out of your equipment with ease.

SUPPORT **CLIENT**

INSTALLATION - MTB SERVICE

Our specialized technicians are experts in the installation and repair of our equipment, guaranteeing fast, efficient service anywhere in the world.

CUSTOMER SERVICE

We're at your side to advise, troubleshoot and supply spare parts as quickly as possible.

TRAINING & COACHING

Our experts will train you prior to machine commissioning and provide you with all the keys to a successful start-up.



Our application helps you achieve greater efficiency by providing real-time production data, tracking history and much more..

ECO-DESIGN SUPPORT

Our eco-innovation team supports manufacturers in their circular economy initiatives.



Visit our website

www.mtb.fr



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