



RSX 2800

Pre-shredder

Versatile equipment | Robust and reliable | Clean and uniform cut

ABOUT MTB

MTB is a global leader in complex industrial waste recycling, offering both individual machines and complete recycling lines. With over 45 years of hands-on experience as both operator and manufacturer, MTB deeply understands industry challenges and delivers innovative, tailor-made solutions.

All equipment is designed and assembled in-house in France (Saint-Chef, Isère), ensuring high quality and continuous technological advancement. MTB's expertise, engineering capabilities, and end-user perspective drive superior product performance and ongoing process efficiency.

Engineering know-how gained from experience

Each MTB machine can be integrated into complete recycling line by our Engineering Office. The conception of such lines is focused on giving the most value to our customer, by obtaining final products with the highest quality.

Our vision and method have been influenced by the daily use of our production lines. This is how we have been able to create one of the most efficient tool on the market.

As an end-user of our own machine, we display the perfect showcase to our customers, thus proving our technological lead.



RSX 2800 PRE-SHREDDER

Designed for durability and high efficiency

This **high-performance** pre-shredder is designed for the efficient processing of commercial & industrial (CIW) waste and bulky items.

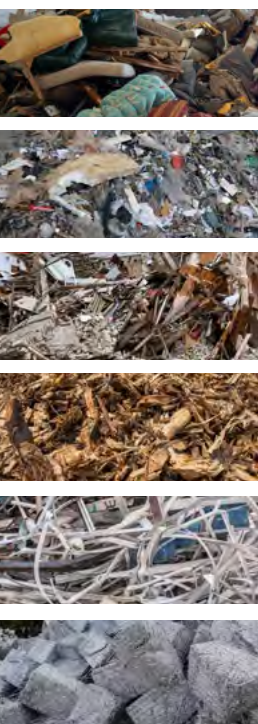
The **two extremely powerful shafts** operate asynchronously and in both directions. Power is delivered through a dual electric **eDrive transmission**, allowing the machine to deliver **maximum torque from startup** and fully harness its power for shredding operations.

With a cutting width of **2800 mm**, it ranks among the largest machines on the market, achieving throughput rates of 40 tons per hour or more, depending on the input material.

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

Application specialities

- Bulky Waste
- CIW
- C&D
- Biomass
- Aluminum profiles
- Baled materials

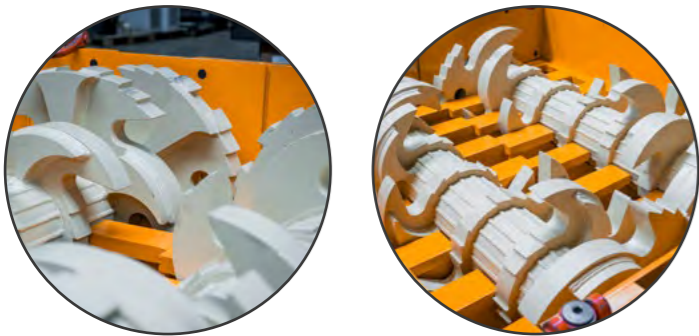


RSX 2800 MAIN ADVANTAGES

For over **45 years**, we've been pioneers in recycling equipment for the Cable, E-scrap, and CIW markets. Building on the proven performance of our **RSX range**, this new rotary shear sets a new benchmark in industrial waste processing. With **optimized operating costs** and cutting-edge innovations, it delivers exceptional efficiency, especially on **complex waste streams** like CIW.

ROTORS / CUTTING TABLE

The rotors (designed and manufactured by MTB) have been engineered for optimum shredding quality and durability.



- Spherical roller bearings
- Offset system to prevent bearing contamination
- Tooth shape for precise shredding
- Customizable rotor design
- Hardox 500 cutting table and teeth
- Cutting width of 2800 mm

EASIER MAINTENANCE

Equipment maintenance is simplified and optimized for quick access and efficient servicing.

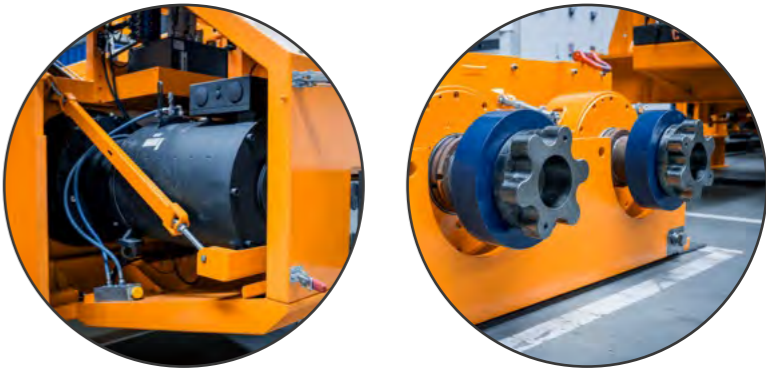
- Quick access to the cutting chamber via an unloading hatch
- Access flaps
- Individual replacement of rotors or entire cutting chamber
- Interchangeable and re-weldable cutting table
- Integrated automatic lubrication



Capacity
UP TO **40 T / H**
135 m³/h

WIDE HOPPER

Loading possible with crane, conveyor, bucket, front loader, moving floor.



eDRIVE - SYNCHRONOUS MOTOR

Synchronous motors offer high performance and energy efficiency.

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

MAIN OPTIONS

- + If there's no room for electrical installations, the RSX 2800 can be upgraded with the **POWER BOX**, a dedicated container that includes electrical cabinets and a cooling system.
- + Outgoing product **CONVEYOR**
- + **HOPPER EXTENSION** for better feeding
- + **ACCESS PLATFORM** around the machine

eDRIVE SYNCHRONOUS MOTOR

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

One of the key benefits is the ability to provide maximum torque right from startup, which is particularly valuable in heavy-duty applications.

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

This leads to a **big reduction in operating costs** up to 50% compared to hydraulic solutions making them a more economical and reliable choice for modern industrial machinery.



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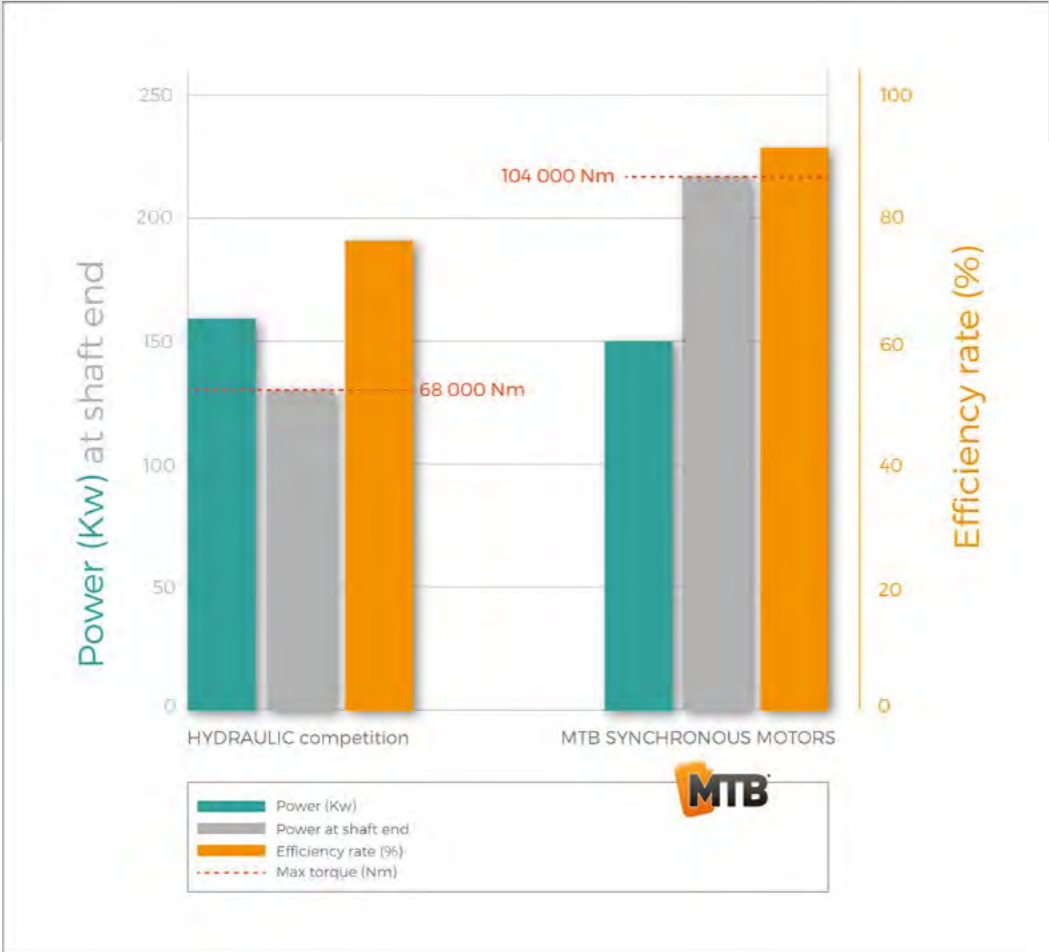
MAXIMUM TORQUE from startup
- +

NO NOISE EMISSION caused by vibration tendencies
- +

LOW MAINTENANCE costs
- +

REDUCTION in **ENERGY** costs and increase in productivity
- +

REDUCTION in machinery **FOOTPRINT**



TECHNICAL DATA

RSX 2800	EU	US
Power	2 x 150 kW	2 x 204 HP
Weight	28 T	28 T
Thermal power for cooling	40 Kw	53 HP
Rotor diameter	900 mm	35 inches
Number of teeth	9-11 per shaft	9-11 per shaft
Rotation speed	0-45 RPM	0-45 RPM
Length	6.2 m	244 inches
Height	3.7 m	145 inches
Depth	3 m	118 inches
Grain size	0-450 mm	0-18 inches

ERGONOMIC MONITORING PANEL



Our Human-Machine Interface (HMI) offers total control of the pre-shredder through an intuitive and user-friendly design.

Engineered for efficiency, the ergonomic interface provides access to all machine settings, allowing operators to make precise adjustments with ease. Pre-programmed recipes developed by our expert technicians ensure optimal performance tailored to each client's specific needs.

Whether you're seeking maximum throughput or fine-tuned operation, our HMI empowers you to get the most out of your equipment effortlessly.

CUSTOMER SUPPORT

INSTALLATION - MTB SERVICE

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

CUSTOMER SERVICE

We are at your side to advise, troubleshoot and supply spare parts at short notice.

TRAINING AND COACHING

Our experts will train you prior to commissioning the machines, providing you with the keys to success.



Our application enables you to achieve greater efficiency by giving real-time production data, tracking history and much more.

ECO-DESIGN SUPPORT

Our eco-innovation team, the R&D unit, supports manufacturers in their circular economy initiatives.



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