Series

TQ

PACMACHINERY®
Maquinaria al cuidado del Medio Ambiente

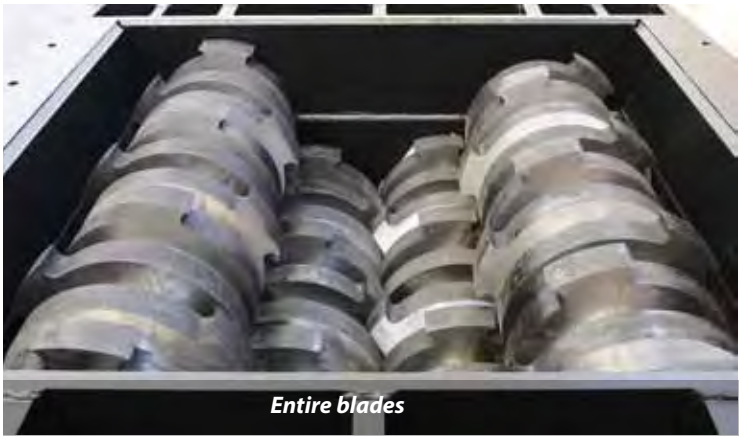
FOR REC®
RECYCLING SYSTEMS

four-shaft shredder

power and precision

INNOVATIVE SOLUTIONS

The use of **four-shaft shredders (TQ)** increases the solid waste treatment operating possibilities. In fact, they combine the reliability and power of the double-shaft shredders with the possibility of controlling the output material size.
Built for heavy-duty use, **TQ** series shredders are the result of an innovative design that aim to create efficient and flexible machines. The exclusive and innovative interchangeable shaft system and the use of wear-proof screens have drastically reduced the management and maintenance costs.



Entire blades

Sectors blades

Interchangeable selection screen

Highly thick steel frame

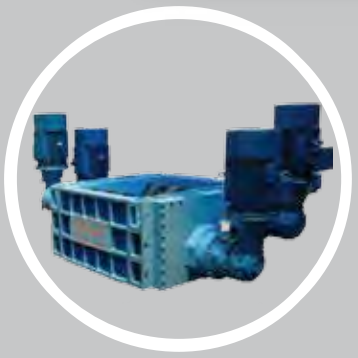
Bearings outside
the cutting chamber

The advantages of Forrec four-shaft shredders TQ

- High thick steel frame with minimum number of welding points.
- Each shaft is equipped with its own gearbox and motor to guarantee the machine high performance.
- High torque combined with low rpm to cut harder materials.
- Changeable upper shafts with lower shafts to redouble the machine life and to reduce the maintenance costs.
- Removable blade carriage shafts without blade removal for faster maintenance .
- Special steel shafts with surface heat hardening to drastically reduce wear.
- Hydraulic transmission with constant power regulation system to obtain high cutting torque at low electrical power.
- Blades in hot forged special steel, for mechanical resistance combined with high hardness.
- Adjustable blades by type, thickness and number of teeth.
- Independent spacers with hexagonal hole not welded to the blades for easy sharpening.
- Interchangeable wear-proof selection screen for fast maintenance.
- Bearings outside the cutting chamber to avoid damages due to material leakage.
- Customisable hopper and support structure.
- Built-in modem for fast remote diagnostics.
- Automatic lubrication system controlled by PLC.
- Stop and reverse system for non-shreddable materials controlled by PLC.

Wide range of available options such as:

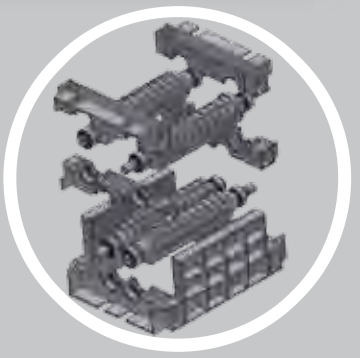
- External or built-in ram
- Conveyor belts
- Remote control
- Hydraulic oil heating for winter operations
- Video cameras
- Load photocells
- Misting systems



Blades in hot forged steel, adjustable by thickness and number of teeth

Automatic lubrication system

Built-in modem for fast diagnostics



Removable blade carriage shafts

Technical specifications

		Electric transmission		Hydraulic transmission	
Model		TQ1300	TQ 1800	TQH1300	TQH1800
Machine width (*)	mm	1600	2200	1600	2200
Machine length (*)	mm	3400	5900	3700	5100
Machine height (*)	mm	775	1100	775	1100
Cutting chamber width	mm	1260	1700	1260	1700
Cutting chamber length	mm	1320	1760	1320	1760
Entire blades thickness	mm	40 50	60 75	40 50	60 75
Sectors blades thickness	mm	X	75 100	X	75 100
Weight (*)	ton	12	24	11	22
Installed power	kW	2x22 (ext) 2x30 (int)	2x37 (ext) 2x55 (int)	2x30 (ext) 2x37 (int)	2x55 (ext) 2x75 (int)
Selection screen	mm	from 40 to 80	from 40 to 100	from 40 to 80	from 40 to100
Main control panel controls		Pushbutton panel with lighted signals PLC management of automations, integrations, emergencies, etc. Control instruments 24 V AC power line			

(*) Hopper and support frame excluded. Dimensions customizable.

Main applications and indicative productivity

		Electric transmission		Hydraulic transmission	
		TQ1300	TQ1800	TQH1300	TQH1800
Plastic and polymers	ton/h	1,2	3	1,5	4
Wood	ton/h	1,5	3,5	1,8	4,5
Paper and cardboard	ton/h	1,5	2,5	1,8	3
Electrical wires	ton/h	3	5	3,5	5,5
Refrigerators	pcs/h	30	60	35	70
Weee	ton/h	1,5	3	2	4
Special industrial waste	ton/h	X	X	6	10
Other applications upon request					

Technical alterations reserved.

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