The MR 40-120 IT singe-shaft shredder is particularly suitable to shred high quantities of industrial wastes. The heavy structure makes the machine suitable to realize a heavy use.

A hydraulic control unit allows driving the pusher drawer. Thus, the product to be grinded is pushed towards a tools-holder rotor causing its crushing.

Thanks to a screen it is possible to select the final dimension of the shredder material.

**Main features**

- Power installed on the rotor: 55 kW (75 HP)
- Power of the hydraulic control unit: 5,5 kW (HP 7,5)
- Drive: by belts
- Number of rotors: 1
- Rotor diameter: 400 mm
- Rotor length: 1200 mm
- Number of reversible tools: 55
- N° of usable tools sides: 4
- Average number of rotor revolutions per min: 85
- Weight: 5.500 kg
- Production: 1,8-2,5 t/h
- Safety devices: emergency stop, drawer reversal system
- Manufactured according to EC standards
Characteristics of the shredder
- Strong welded steel framework;
- Support for barrel roller bearings with sealing system against dust and liquids;
- High thickness rotor with diameter of 400 mm and length of 1200 mm. It is equipped with 55 tools- holder plates and 55 high alloyed anti-wear tools usable 4 times;
- No. 2 adjustable counter-blades (upper and lower) made in very alloyed anti-wear steel;
- Pusher drawer with hydraulic driving with 850 mm of usable run equipped with no 2 pushing cylinders.
- Hydraulic unit fitted with gear pump with oil cooling radiator;
- Hydraulic coupling between motor and reduction group;
- Pulleys and belts drive system to avoid damaging mechanical due to rotor vibrations;
- No. 1 multi-voltage and multi-frequency motor of 55 KW of primary national company with PREMIUM efficiency class (IE3) and no. 1 motor of 5,5 KW for the hydraulic unit.
- Welded sheet metal hopper for top loading;
- Interchangeable screen establishing the size of the shredded material.
- Discharge system: to be defined

Characteristics of control system
- Electric switchboard complying with EEC standards, equipped with torque limiting device which inverts the direction of the rotor if the work load of the machine exceeds the set value;
- S7-1200 SIEMENS PLC to control all the plant peripheral units;
- Display touch screen 6 inches coloured to regulation of every parameter of the machine;
- New auto-regulation software "AUTO TUNING ISVE";
- Software prepared to control the loading system, the grinder and the suction plant.
- Emergency control functions for stopping the system;
- ISVE MAINTENANCE PROGRAM: it signals the ordinary maintenance interventions at their expiry date.
- PREDISPOSITION FOR REMOTE-ASSISTANCE AND "SAFETY SERVER CONNECTION ISVE" (real-time supervision of the parameters from server ISVE);
- Made to CE standards.