

LINE OF LARGE-SIZED, HIGH PRODUCTIVITY HAMMER SHREDDERS, ITS HIGH POWER ADDRESSES THE MOST DEMANDING PRODUCTION NEEDS.

BIOMATICHLINE 89 | 91

The **BIOMATICH 89** and **91** range of highly professional, large sized hammer shredders are suitable for shredding in landfills, composting centres, waste separation and recycling centres, large nurseries and park maintenance firms, at companies for volume reduction of packaging or other bulky wood items.





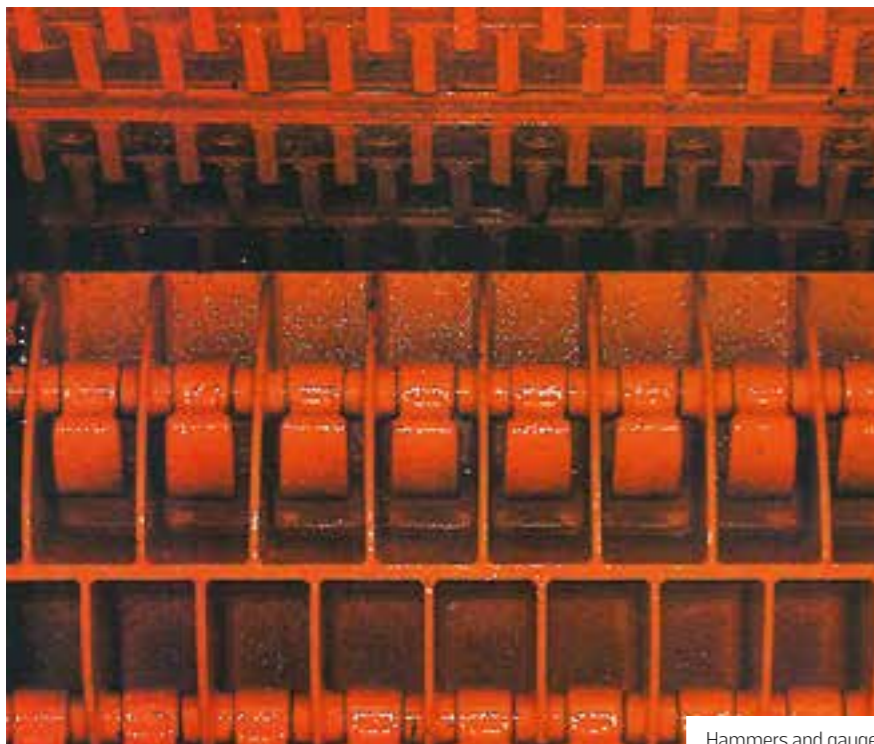
BT 89 MTS

Thanks to its very sturdy structure the **BIOMATICH** range is especially suited for heavy-duty and continuous work. Available in various outfittings, driven by the tractor's PTO, with independent engine, placed on self-propelled crawler, on roll-off truck, for stationary work station with electrical motor

The shredding rotor is constructed in very thick wear-proof steel plates, the special honeycomb structure makes it sturdy and long-lasting, with high resistance to impact. Consisting of high alloy steel hammers, hot forged to have maximum sturdiness, mounted on a steel pin which permits rotation, so as to be able to retract in case of strong shocks, thereby avoiding damage. The combination of special steel results in never needing to grease the hammers since no friction or overheating is produced during operation.

The shredding rotor spins on two special bearings with double row of barrel rollers and cnc machined steel support, particularly oversized, to assure long life even under particularly heavy-duty work conditions.

The hydraulic system, consisting of solenoid valves and pair of pumps with high performance cast iron flange, drives all the machine's functions, some of which are directly and automatically controlled by the electronic controls on the machine.



Hammers and gauge



BT 89 TTS with Crane



BT 91 MTS

The **NOSTRESS** device, which controls the grinding stage, interrupts feeding the material when the engine's speed is excessively low and resumes automatically as soon as the engine's power picks up again.

The **NOBLOCK** device assures the material is fed smoothly by triggering in the event of accidental block of the feeding components (chain and roller)

The conveyor chain and feeder roller are driven by super-powerful hydraulic gear motors, which assure high machine productivity and safe feeding of any type of material, including very irregular in shape and bulky.

This machine may be fitted as optional with remote control to control all the machine's operations, such as actuating the chain conveyor the feeding roller and the rear baffle orientation.

This device considerably increases productivity as one operator only standing on the loading bucket is able to independently control all operations.

Bt 89-91 tts: the tts version of this range of hammer shredders, with rigid axle and wheels, is ready to be driven and towed by any type of tractor with power at least 80 hp.



BT 91 MTS



BT 91 MTS

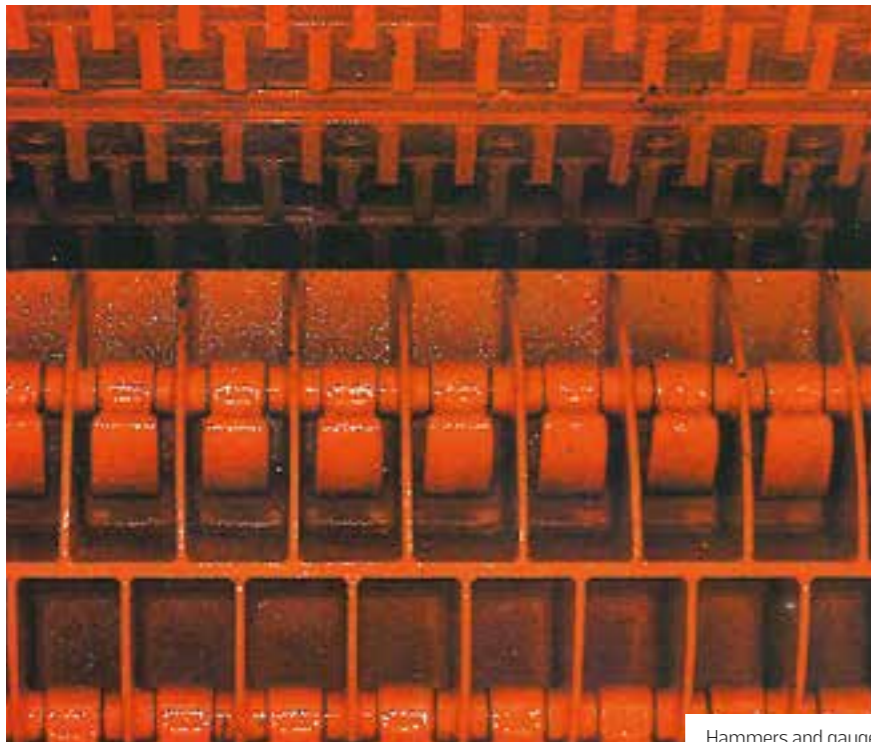


BT 91 MTS

The large loading hopper makes it easy to feed the material to be shredded with any equipment, with wheel loader, log clamp, grapple, telescopic loader etc.

The **BIOMATCH 89** and **91** range produces shredded material arranging it in piles of adjustable height according to the specific further processing needs. It is able to shred any type of plant residue, using the rear baffle that acts as gauge with hydraulic adjustment and produces finely shredded material of adjustable size, suitable for any kind of composting or energy use.

BT 89-91 MTS: every MTS version of this series of hammer shredders, is driven by an independent diesel engine and may be towed by tractor or truck. The machine's geometry entails the engine being fitted at the front, so it is not directly in contact with dust or other residues that might affect operation, also making it more easily accessible for periodic maintenance. Motion transmission to the shredding rotor is assured by a hydraulic coupling with automatic engage and a set of V-belts with oversized section with automatic tensioning.



Hammers and gauge

The engine is fitted with self-cleaning radiator, suitable for work in most sites, in case of especially dusty work a fan may be fitted with pneumatic inversion to assure its total cleanliness, with no action required by the operator.



BT 91 TTS



Belt with steel cross beams



Toothed roller and chain

The large loading hopper makes it easy to feed the material to be shredded with any equipment, with wheel loader, log clamp, grapple, telescopic loader etc.

The BIOMATICH 89 and 91 range produces shredded material arranging it in piles of adjustable height according to the specific further processing needs. It is able to shred any type of plant residue, using the rear baffle that acts as gauge with hydraulic adjustment and produces finely shredded material of adjustable size, suitable for any kind of composting or energy use.

The machine may be fitted with rear ejection belt placed in the shredded material unloading area. This conveyor, consisting of a fully encased steel chain conveyor, makes it possible to produce higher and more adjustable heaps of material. It also makes it possible to load the shredded material directly into containers or on trucks, and to limit the production of dust in the event of dry material.

The machine may be fitted with a self-propelling device for convenient independent motion with no need for a towing vehicle.

FEATURES

- High ability to shred even very bulky and uneven material.
- The shredded material may be arranged in heaps of adjustable height.
- It shreds any type of plant residue and produces finely shredded material of adjustable size.
- The bio-shredder may be supplied with self-propulsion.
- Remote control option (optional).
- Maximum productivity thanks to the super-powerful hydraulic gear motors.
- As many as 40 shredding mallets to ensure maximum power.
- The shredded plant material may be placed in heaps of adjustable height.
- Higher and more adjustable heaps thanks to the rear outfeed belt that makes it possible to load the shredded plant material directly in a container.
- Steel shredded material outfeed belt.
- Standard Nostress device.
- Standard Noblock device.
- Outfitting with material loading crane.
- Outfitting on roll-off vehicle.
- Oversized rotor bearings.



- Steel rotor supports CNC machined from billet.
- Hydraulically adjustable shredded material gauge.

BT 91 MTS



Chains of power without maintenance



Remote control for MTS version

BIOMATICHLINE 89 91		89 MTS	89 MTS	91 MTS	91 MTS
TRACTOR POWER	cv	70-140	/	90-180	/
ENGINE POWER	cv(kW)	/	128(94)	/	172(126)
NUMBER OF CYLINDERS	n°	/	4T	/	6T
ROTOR WIDTH	mm	1000 mm	1000 mm	1200 mm	1200 mm
NUMBER OF HAMMERS	n°	32	32	40	40
HAMMER WEIGHT	kg	3 kg	3 kg	3 kg	3 kg
HOURLY PRODUCTION	n°	20-50 MTC	20-50 MTC	40-60 MTC	40-60 MTC
MAX WOOD DIAMETER	mm	150-250 mm	150-250 mm	160-300 mm	160-300 mm
SHIPPING MEASUREMENTS	mm	5500x2000x1900 mm	6000x2000x1900 mm	6000x2200x2000 mm	6500x2200x1500 mm
MACHINE WEIGHT	kg	4200 kg	7000 kg	5000 kg	8000 kg
C.T.P. DEVICE		standard	standard	standard	standard
HR COUNTER		standard	standard	standard	standard
ANTINOISED ENGINE		/	standard	/	standard
LIGHTS SYSTEM		optional	optional	optional	optional