



# SHREDDERS



**TTC1000**



<b>DIMENSIONS</b>	<b>2200 x 1000 x h1700 mm</b>
<b>WEIGHT</b>	<b>1700 kg</b>
<b>POWER</b>	<b>15 kW</b>
<b>VOLTAGE</b>	<b>230/400 V</b>
<b>LOADING</b>	<b>continuous</b>
<b>NUMBER OF REVOLUTIONS</b>	<b>58 rpm</b>

### DESCRIPTION

The **TTC1000** unit is a machine conceived and designed to shred long and skein-type metal swarf, of different shape, composition and characteristics. It is a large and powerful machine, suitable for demanding and heavy tasks in terms of both quantity and quality.

The swarf loaded in the hopper is dismembered by a hooked arm which performs pre-shredding and conveys the swarf to the actual grinding point. The skein is then shredded and discharged from below.

If there is a non-shreddable piece that interferes with the process, the machine automatically ejects it from a side drawer, controlled by a hydraulic cylinder.

The unit is driven by a 15 kW geared motor.

HOURLY PRODUCTION [m3/h] AND THE REDUCTION PERCENTAGE DEPEND ON THE TYPE OF SWARF

### SUPPLY

- Structure and casing made of sturdy painted metal carpentry;
- Blades and anti-wear shredding counter-blades, easily replaceable;
- Automatic ejection system for non-shreddable pieces;
- Hydraulic power unit;
- Alternating direction shredding system;
- Arm to convey the swarf to the shredding inlet;
- Force control clutch;
- 15 kW motor;
- Shredding process management inverter.

### OPTIONAL

- Storage hopper for swarf loading, with inspection door;
- Automated hopper closure lid and consent microswitch;
- Electrical control panel.

### HOURLY PRODUCTION

Q = 2 m3/h	BRASS	STEEL	ALUMINIUM	STAINLESS STEEL	COPPER	CAST IRON
<b>Δ density [kg/dm3]</b>	0.45	0.65	0.15	0.4	0.25	-
<b>Kg/h →</b>	900	1000	300	800	500	-

THE DATA IN kg/h ARE APPROXIMATE AND IN ANY CASE DEPEND ON THE DENSITY OF THE SWARF, THE SHAPE, THE TYPE AND THE THICKNESS. THE DENSITY DATA CONSIDERED ARE HYPOTHETICAL, BASED ON AN EXPERIMENTAL AVERAGE OF THE DATA IN OUR POSSESSION.

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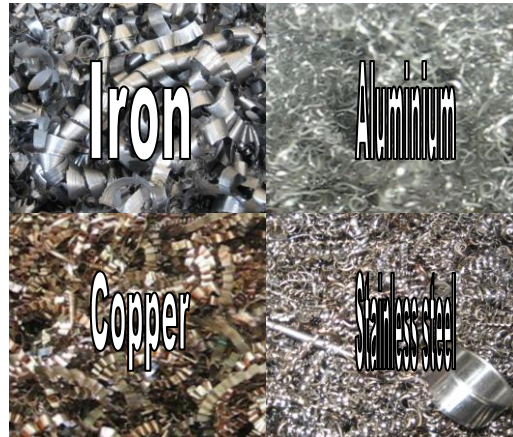
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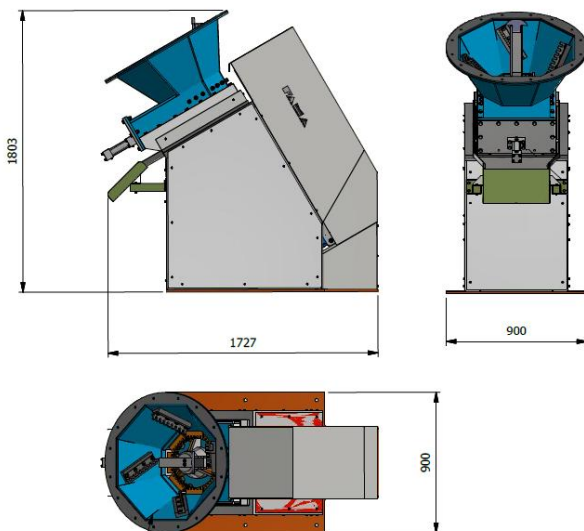
# TTC1000

## SWARF CHARACTERISTICS & TECHNICAL NOTES

1. The long swarf can appear scattered or in skin agglomerations;
2. The swarf can be made of steel, iron, alloy steel (stainless), copper, brass (ecobrass), aluminium,...
3. The swarf may contain some sporadic pieces (bar ends or headers, processed parts, ...) which depending on the size will be shredded or automatically ejected;
4. The loading process can be dosed by channel or by tipping from a container.



## TECHNICAL FEATURES



### APPLICATION ANALYSIS EXAMPLE

FROM A SKEIN-TYPE STEEL SAMPLE OF 700 LT, A VOLUME OF 200 LT WAS OBTAINED AFTER THE SHREDDING PROCESS.

**THE REDUCTION OF OCCUPIED VOLUME WAS 65%.**

1. To confirm the production and volume reduction data, a specific test must be performed with the swarf in question, on the basis of which the machine is calibrated;
2. The rotor and the skein dismembering shaft are replaceable;
3. The number and shape of counter-blades to be applied to the shredder casing and to the hopper depend on the type of swarf;
4. The presence of pieces is not a problem for the shredder but slows down its hourly production.

## STORAGE HOPPER

Different types of hopper can be installed on top of the shredder, depending on the desired "lung" volume and loading methods. The hopper on the side, for example, is designed for loading 1 m3 trolleys from a forklift truck. As shown it is complete with inspection door with safety microswitch and mechanical closure to access the shredding area.

If necessary (loading height less than 2.5 m) it is possible to install an automated closing system of the loading mouth, which prevents the shredder from working, when open.



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