



## Chip crushers & chip cutters

Capacity: 150 - 2.500 kg per hour

The ideal solution for chip handling problems in mechanical workshops, in the automotive industry, in steelworks and in scrap yards.

Suitable for chips made of:

- carbon steel
- stainless steel
- other steel alloys with a fracture strength up to 1.200 N/mm or more
- aluminium alloys
- sponge iron
- titanium
- uranium
- and plastic products, glass etc.

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FILTER

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## Technical data

Model	SB700	SB1000	SB2500
<b>Continuous capacity*</b>			
<b>steel chips</b> (kg/h)	150-700	800-1000	1000-2500
<b>aluminium chips</b> (kg/h)	150-250	250-350	350-650
Overall height excl. hopper (mm)	1095	1315	2093
Space requirements incl. hopper (mm)	1222 x 680	1569 x 991	1678 x 1380
Motor power rating (kW)**	7.5	15	30***
Motor speed (rpm)	1450	1460	1465
Net weight including motor (kg)	900	1370	4780
Coarse particle separator	Yes	Yes	Yes

\* The capacity depends on the volumetric weight of the material used and the size and shape of the chips.

\*\* Hydraulic drives upon request

\*\*\* Standard version with hydraulic drive

### Economic viability

The chips are kept in motion at low speed by the rotary arm, therefore, there is neither knocking nor cutting. This results in low power consumption and low wear rate of crusher components.

### Versatility

Loading can be discontinuous by crane, hoist, tipper or forklift trucks and also continuous by conveyors. The crushers accept the chips irrespective of their shape.

### Reliability

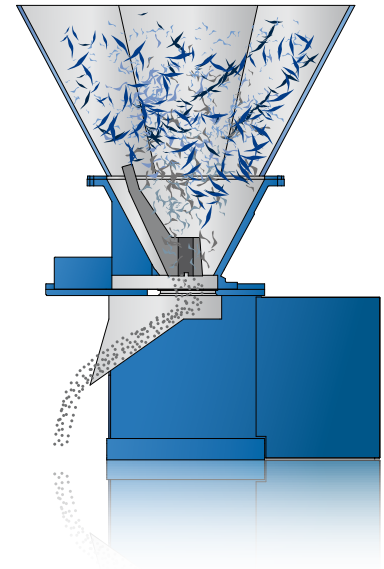
The crushers are not sensitive when large chip bundles or packs are loaded. Crushers with low motor power can reliably handle chip packs.

### Low noise level

The sound level of the chip crushers is around the normal workshop level so that installation next to machines and in production shops is usually simple and straightforward.

### Coarse particle separators

The crusher is fitted with a split crusher ring in order to prevent coarse particles e.g. rod ends jamming in the tools. If the crusher head is blocked by a coarse particle, the crusher stops automatically and goes into reverse. A section of the crusher ring opens and the coarse particle drops through the opening together with the chips. The crusher stops and then starts forwards again. The opening in the ring is closed by a cylinder.



### Operation

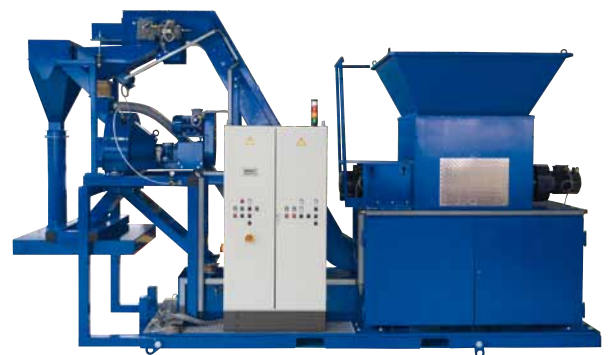
The chips go through the hopper into the upper part of the crusher. Inclined steel teeth are fastened to the walls of the conical crusher chamber. The crusher arm with welded-on cutters is located on top of the rotating crusher shaft. A rotating crusher head is mounted on the shaft and an external stationary crusher ring is mounted on the top section as a counterweight.

The chips are torn into small pieces by the rotation of the crusher head. The chips are gradually guided downwards through the crusher chamber. The final crushing occurs in the lower part



Crusher chamber with crusher shaft

of the crusher chamber. After crushing the chips slide out through a channel in the crusher frame. It is imperative that the crusher hopper is always full otherwise long chips could get through the crusher tools.



# Liqui FILTER

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