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<u>Ref.-No.:</u>	<u>3031</u>
Kind of machine:	single-shaft shredder
Make:	DHB
Type:	DH 600
Year:	2009
Condition:	new
Description:	single shaft shredder with special rotor and hydraulic pusher, electric control, new machine
No. of rotary knives:	28 (Rows)
No. of stationary knives	1 (Rows)
Width of rotor (mm):	600 mm
Rotor-Ø (mm):	220 mm
Feed opening (mm):	785x600 mm
Suited for:	shredding of wood, cables, plastic scraps etc.
Power:	18,5 kW
Price:	<u>EUR 19.900,00</u>





Functional description of the machine

After the material is filled into the hopper, it is pressed against the slowly rotating rotor by means of a hydraulic load-dependent pusher and then shredded by the knives fixed upon the rotor.

The shredded material falls through a perforated screen with predefined hole diameter into a **specially constructed removable** exhaust basin.

Any material not corresponding to the hole diameter of the perforated screen is transported back to the shredding unit by the rotor and then shredded again. The shredded material can be removed by air suction. The corresponding exhaust connector may be positioned either right or left (standard). Furthermore, due to the **easily removable exhaust basin**, there is the possibility to let the material fall out of the machine and transport it to other storage locations by using a conveyor. As an option, the machine may be equipped with a spiral conveyor in order to carry the material away.

Machine Frame

Heavy steel welded construction (sidewall thickness, depending on use, 12 mm, 16 mm, and 20 mm) with pusher, hopper, and motor table with adaption mechanism for an easy setting of the drive belt tension. The location of the built-in hydraulic system is separated by protective plates against dust and chippings. The screen is mounted to a specially-designed **solid screen-holder** to enable an easy and quick change of screen with different hole diameters. The exhaust connector has a diameter of 160 mm and may optionally be fitted either right or left. The easily removable exhaust basin allows at any time to let the chippings fall out free under the machine. All rotating and moving components are covered with protecting enclosures.

Hopper

The hopper has an opening width of 600 x 785 mm and a filling capacity of about 0.58 m³. Due to its wall thickness of 6 mm and stabilizer bars it is particularly solid.

On top of the hopper, there is a 30 mm folding which allows a firm fixation of hopper expansions or other attachments.

Rotor

All-steel rotor with a cutting width of 600 mm and a diameter of 220 mm. The rotor is equipped with 28 concave cut, quadruple rotatable knives 40 x 40 mm. Owing to the special arrangement of the knives, an extraordinary high cutting power as well as a low electric power consumption are achieved. On the rotor cut surface, both left and right, two rotatable free cutters are attached in order to prevent a jam of material within the field of



knives. Each front side of the rotor is equipped with two cleaning knives to ensure that no dust or fine particles can adhere between rotor and framework inner surface.

Rotor bearings

For particularly quiet running, the rotor is mounted in oversized spherical roller bearings, which are completely closed. The bearings are separately attached from the framework to protect them against damage or destruction. Each bearing is provided with a lubricating nipple.

Hydraulic system

The hydraulic system is installed within the machine's body and sheltered by protective plates against damage and pollution. The hydraulic components are installed on an oil tank with 40 litres volume, which is provided with a sight glass for filling level and temperature. To ensure long life, an oil cooler is standard equipment. The external particularly high-performance pump allows a high-frequency cylinder timing of the pusher and thus an efficient throughput performance.

Electrical control

The machine is furnished with an external electrical cabinet, thus permitting a flexible assembly of machine and electrical cabinet. The control system is equipped with a freely programmable SIEMENS-SPS steering which guarantees a quick, efficient and problem-free processing of various kinds of shredding material. The electrical cabinet is armed with two cooling fans. An error monitoring and display, integrated in the SPS, allows a fast and simple problem solving to the operator

Technical data

rotor width	600 mm
rotor diameter	220 mm
number of knives	28 / concave cut / quadruple rotatable
engine power	18,5 kW
electrical data	400 V , 50 Hz
electrical control	electrical cabinet, cooled, with SIEMENS-SPS
hopper opening	600x785 mm
hopper volume	ca. 0.59 m ³
screen	at buyer's option, 10 – 80 mm
hydraulic system	40-l-tank, external gear pump, oil cooler
measures (length x width x height)	1750 x 1280 x 1650 mm
weight	1820 kg
throughput performance	ca. 1 – 3 m ³ per hour, depending on material and screen

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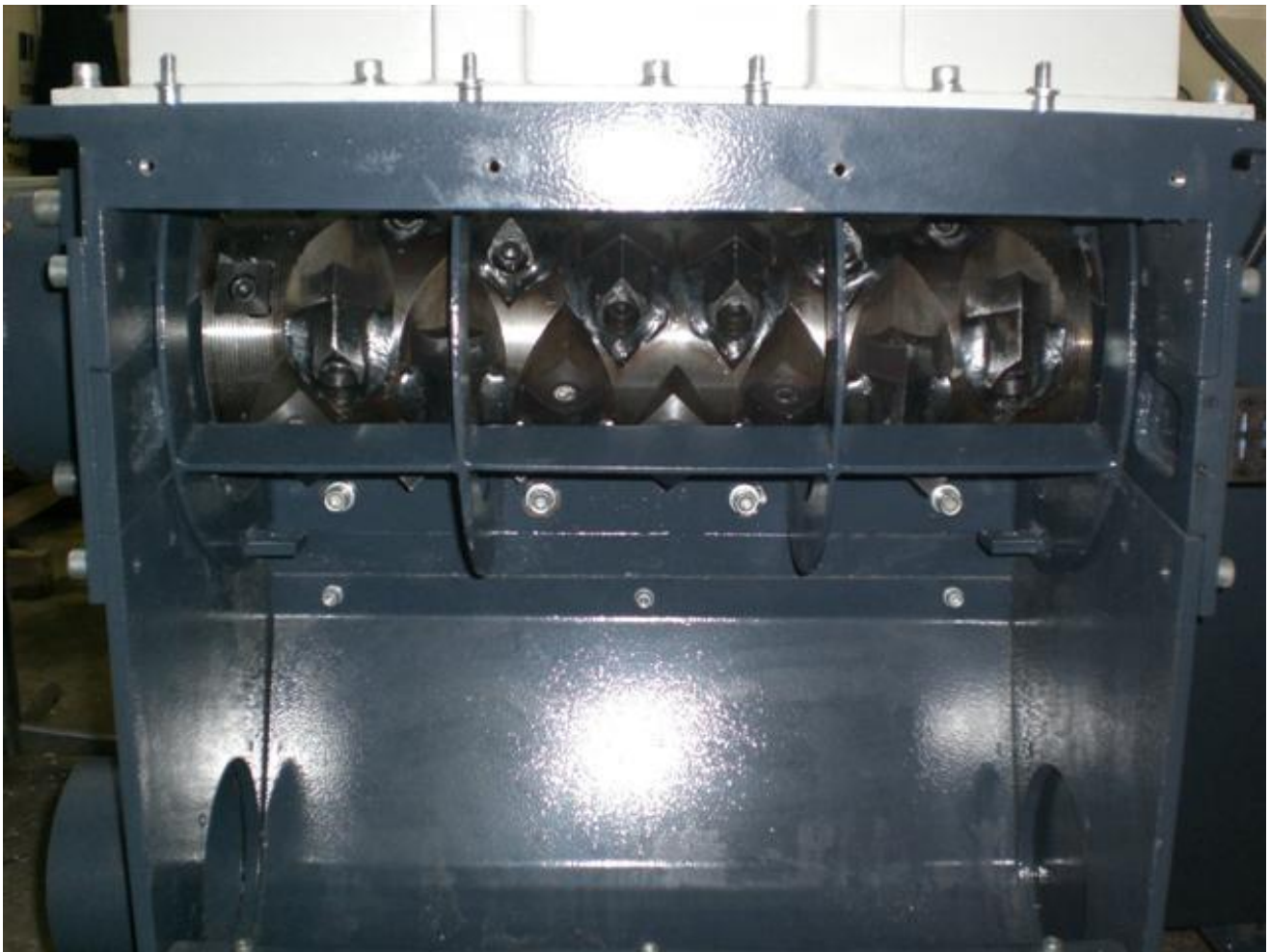
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