

Residual wood shredding

SINGLE-SHAFT SHREDDERS

ZM 800-K / 900-K / 1000-K / 1300-K





Seit | since
1968

We are #TeamSchuko

Your architects for clean air

Everything in the green („Alles im grünen Bereich“) goes further than just „everything's ok“ - this is more than a promise for clean air. It is also a commitment to extremely reliable solutions that are customized to customer requirements and ensure maximum machine availability.

Since 1968, we have been developing customized extraction and filter systems for trade and industry - with one goal: to effectively eliminate pollution from production waste such as (fine) dust, chips and vapours. Our systems protect your employees, extend the service life of machines, reduce operating costs and ensure the long-term success of your company.

We are a family business in its 2nd generation and stand with great passion for precision, responsibility and reliability. We work with foresight, experience and well thought-out technology. Everything comes from a single source: Consultancy and planning, production, delivery and assembly, through to operator training and maintenance. Our systems accompany our customers for many years - reliably, economically and sustainably. If everything runs smoothly and everything fits, then everything is in the green.

Our products and systems

- MOBILE DEDUSTING UNITS
- MOBILE DUST EXTRACTORS
- STATIONARY DEDUSTERS
- INDUSTRIAL FILTER TECHNOLOGY
- SANDING TABLES

- PAINT FOG EXTRACTION
- SHREDDERS
- BRIQUETTING PRESSES
- PIPING COMPONENTS
- CONTROL SYSTEMS

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Single-shaft shredders

Schuko single-shaft shredders are ideal for carpenters, joinery workshops or other companies which accumulate residual wood, solid wood, MDF, chipboard, pallets or anything similar.

CHIPBOARD
WOOD
WASTE WOOD
PLASTIC
PALLETS
MDF
SOLID WOOD

Advantages at a glance:

- Different sieve sizes for the desired chip size
- High throughput with low noise level
- Energy-saving low-speed operation modern IE3 motors
- Automatic idle shutdown
- Durable, robust construction



Overview:

If you need to cut up your waste wood into wood chips, then our single-shaft shredder is right for you.

With their powerful cutter shafts, our various sizes effortlessly shred all wood waste and even entire pallets.

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Effective wood shredding

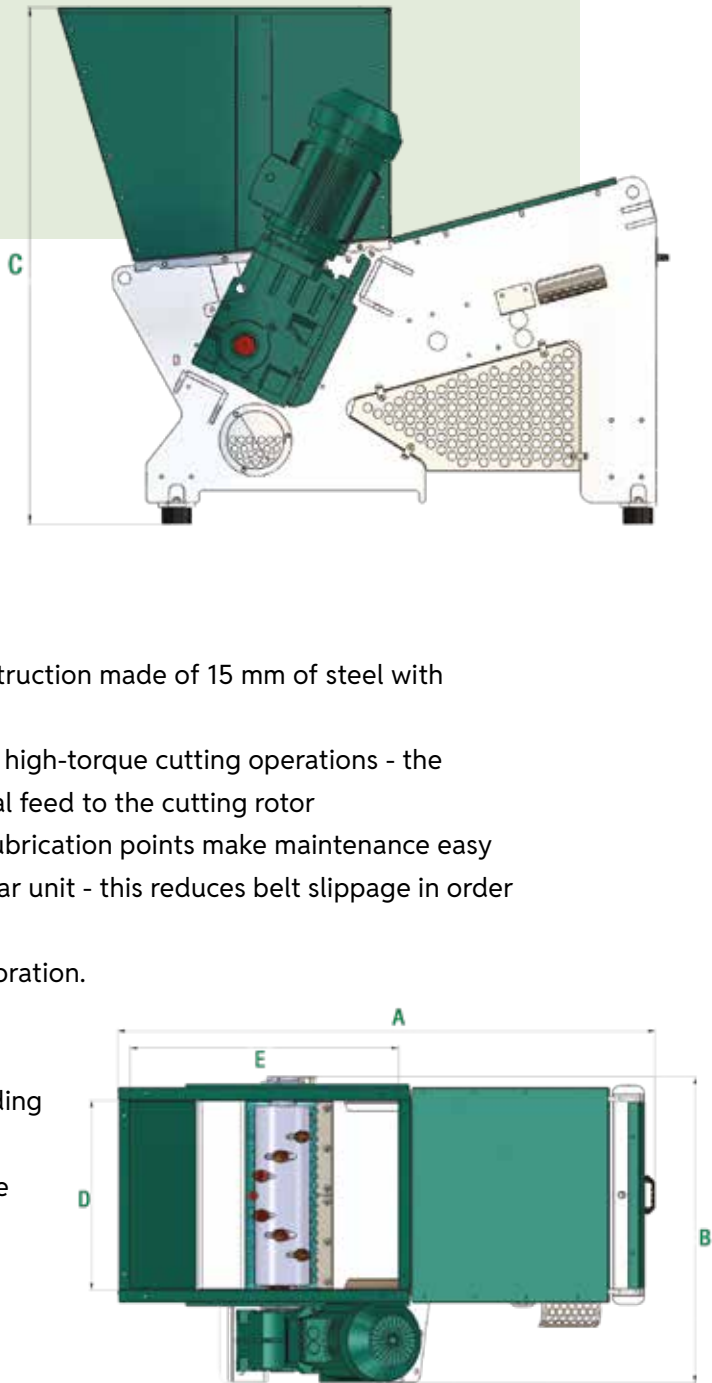
The shredded wood can be used cost-effectively for your own heating purposes or, if required, compacted with a briquetting press. Wood briquettes can be stored safely and stored in a space-saving manner.

Metal residues, such as screws or nails, can be sorted out almost residue-free by an interposed magnetic separation system.

For very high shredding volumes, it is recommended to connect an extraction system or a screw conveyor for direct transfer to a silo or wood chip storage. This ensures automated and efficient disposal.

All advantages at a glance:

- Energy saving due to the slow running and automatic idle shutdown
- Always ready for use with reusable cutters
- Powerful with high throughput
- Modern Logic Control (PLC)
- User-friendly by well arranged control elements
- Extremely durable due to a solid, steel frame construction made of 15 mm of steel with accurate laser cutting
- The cutter is made of solid steel which guarantees high-torque cutting operations - the machine layout ensures pressureoptimised material feed to the cutting rotor
- The modular hydraulic drive and easy accessible lubrication points make maintenance easy
- Drive of the rotor shaft via a high-performance gear unit - this reduces belt slippage in order to reduce wear to a minimum
- Easy replacement of the sieves with different perforation. This ensures chips sizes according to requirements concerning further processing
- Motor-protecting, failure-free wood off-cut shredding by electronic monitoring of power consumption and consequential alteration to sense of rotation of the rotor shaft
- and many more



Technical data

Type	ZM 800-K	ZM 900-K	ZM 1000-K	ZM 1300-K
Order no.:	975 300	975 400	975 500	975 600
Material performance depending on the type of material and sieve size (kg/h)	220 to 300	250 to 350	350 to 650	400 to 900
Funnel opening (mm) D x E	710 x 990	710 x 990	990 x 990	1,270 x 990
Funnel capacity (m³)	0.5	0.5	0.7	0.9
Rotor diameter (mm)	220	220	220	220
Length of rotor (mm)	680	680	960	1.240
Rotor speed (U/min)	115	114	114	114
Motor power (kW)	15	18,5	18,5	18,5
Standard mesh aperture* (mm)	18	18	18 - 30	18 - 26
Cutter/pc**	19	19	27	35
Rakers**	2	2	2	2
Hydraulic feed	yes	yes	yes	yes
Extraction port Ø (mm)	180	180	250	250
Required air rate (m/s)	28	28	32	32
Machine resistance (Pa.)	450	450	430	430
Weight (kg)	1,400	1,450	1,700	2,100
Length (mm) A	2,050	2,050	2,050	2,050
Width (mm) B	1,270	1,220	1,800	2,150
Height (mm) C	1,710	1,710	1,710	1,720
Operating time is easily adjustable	yes	yes	yes	yes
Control	SPS	SPS	SPS	SPS
			incl. discharge screw 0.55 kW	incl. discharge screw 15 U/min 0.55 kW

* Depending on application the following mesh sizes can be delivered: 14, 18, 22, 24, 30 mm

** Spare parts and fixing materials are available separately:
Cutting knife (Art. no. 988 500)
Clearing knife (Art. no. K13130602) from 01/2018

Dimensions of the control cabinet 600 x 600 x 200 mm (W x H x D)
Set-up area of the control cabinet 840 x 440 mm (W x D)

Powerful & economical



The motor:

Costs can be saved through two different versions of high efficiency motors belonging to energy efficiency classes IE3.

Due to the direct drive, Schuko shredders can achieve around 10% more power at the shaft compared to belt-driven models and therefore work much more efficient. They work much more effectively as the entire force is transferred to the cutterhead without any losses.

Schuko shredders are very easy to maintain and they do not require further adjustments during operation.

The casing:

The appliance's solid construction and additional reinforcements on the engine intake and torque support enables a long lifetime and a trouble-free operation.

Material performance is supported through a slanted material. Therefore, the shredded material is pressed more effectively.

Control system:

- A space-saving external control cabinet (also appropriate for wall mounting)
- Schuko's quality components provide maximum operational safety
- Automatic functional running through PLC system
- Easy to adjust the machine's operating time
- Indication of operating hours
- Text display in case of machine malfunctions
- An energy-saving switch is available

Slide:

The special construction enables a low-wear guidance of the slide. The end position control of the slide valve is implemented by maintenance-free limit switches.



The cutter:

Specific Schuko cutters with clearance and cutting angles help you save approximately 2 kW of motor output. Their square shape with 4 cutting points not only ensures consistently excellent cutting results, but also reduces operating costs due to their dual functionality.

Additionally, the cutters and cutter holders are replaceable which means that the parts can be replaced individually.

Lateral rakers inserted into the cutter shaft prevents wrapping of the material at the end of the rotor shaft. The counter blades can be turned around and therefore can be used twice.



The magnetic separator:

Used to separate metal parts such as screws and nails from the chip stream. Effectiveness depends on material density, part size and air velocity.

Rotor storage:

For a long service life, high-quality flange bearings are used, which are designed with large dimensions.



Hydraulic unit:

The space-saving hydraulic unit is situated within the machine's body and provides a powerful propulsion of the drawer. A visual indicator allows you to see the oil level.



Shredding items:

From square timber to wooden panel - everything can be shredded without problems thanks to the Schuko ZM shredder series.

We are always close by and look forward to your call!

Our locations

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