



Maschinenbau GmbH

/// The optimum shredder **for maximum throughput rates**



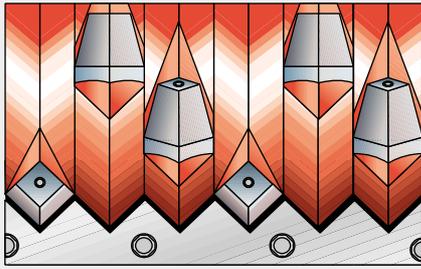
For large quantities of timber waste!

The shredders of the WL 10 – WL 30 series **reliable technology for all timber materials**

The slow-turning single-shaft shredders of the WL 10 - WL 30 series are used in the woodworking industry for shredding large quantities of timber

waste (pallets, chipboard etc.). The basic models are equipped according to customer requirements (throughput rate, rotor design, hopper design etc.).

WL 10 - WL 30 series technology

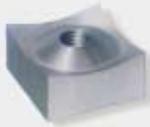


Patented V-rotor

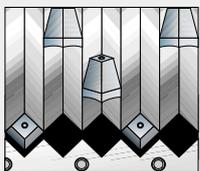
- Optimum material intake
- Minimum cutting knife wear
- Low power consumption yet high output
- Narrow cutting gap between rotor and counter-knife
- Defined knife projection

The profiled V-rotor is machined in one piece and mounted in sturdy rotor bearings. Special knife holders are welded into milled knife pockets around its circumference.

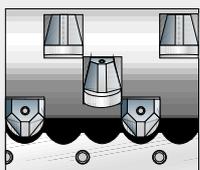
The cutting knives are inserted into these and screwed in place from behind. As a result, high-speed knife changing is possible because the design prevents the screw heads from being damaged during shredding. The concave cutting knives can be turned four times and guarantee a precision cut at high throughput rates.



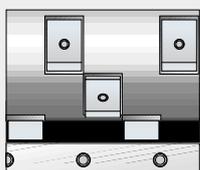
Other rotor versions



Profiled rotor with cutting knives inserted in the recesses



Flat rotor with round or pot knives



Flat rotor with rectangular or square turnable knives

The optimum shredder – for maximum throughput rates

Series WL10 – WL 30

For shredding maximum volumes of timber waste on an industrial scale

The shredders of the WL 10 - WL 30 series are used in the woodworking industry for shredding large quantities of timber waste. The rotor widths range from 1,000 to 3,000 mm depending on design. The machine is driven by an electric

motor with an output of 22 kW to 90 kW or a twin-drive of 2 x 75 kW. The level of required drive output depends on the material to be shredded, the number of shredding knives being used and the required throughput rate.



Shredders of the WL 10 - WL 30 series with single and twin-drive

V-rotor with two knife rows



Shredder of the WL15 series with discharge conveyor and over band magnet



Shredder of the WL 20 series, loading by wheel-loader

The optimum shredder – for maximum throughput rates

Series WL 10 – WL 30

/// The shredders of the WL 10 - WL 30 series in use

The material is fed through the hopper to a hydraulic ram which is operated according to load and presses the material against the rotating rotor. The inserted material is shredded between the rotating knives and counter knives which are fixed in place.

The ram is fitted with scraper rails which prevent any unwanted material being pulled between the ram and machine housing.

The material can be transported out by spiral conveyor, an extraction system, a conveyor belt or a chain conveyor.



WL 15 series shredder, material loading by fork-lift truck with tipper



Pronged rail in the ram for holding the material



Segmented base for very thin material



Operation of the ram, pressing the material against the rotor

/// WL 10 - WL 30 series technology



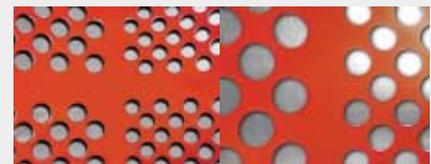
Power drive

The machines are driven by an electric motor with up to 37 kW drive output which is transmitted to the rotor by hydro-clutch (from 22 kW), v-belts and gears.



Enclosed hydraulic system

The ram's hydraulic system is located inside the machine body to protect it against wood dust and damage. The hydraulic cylinder is suspended by cardanic joints so that any unwanted lateral force on the piston cup is avoided.



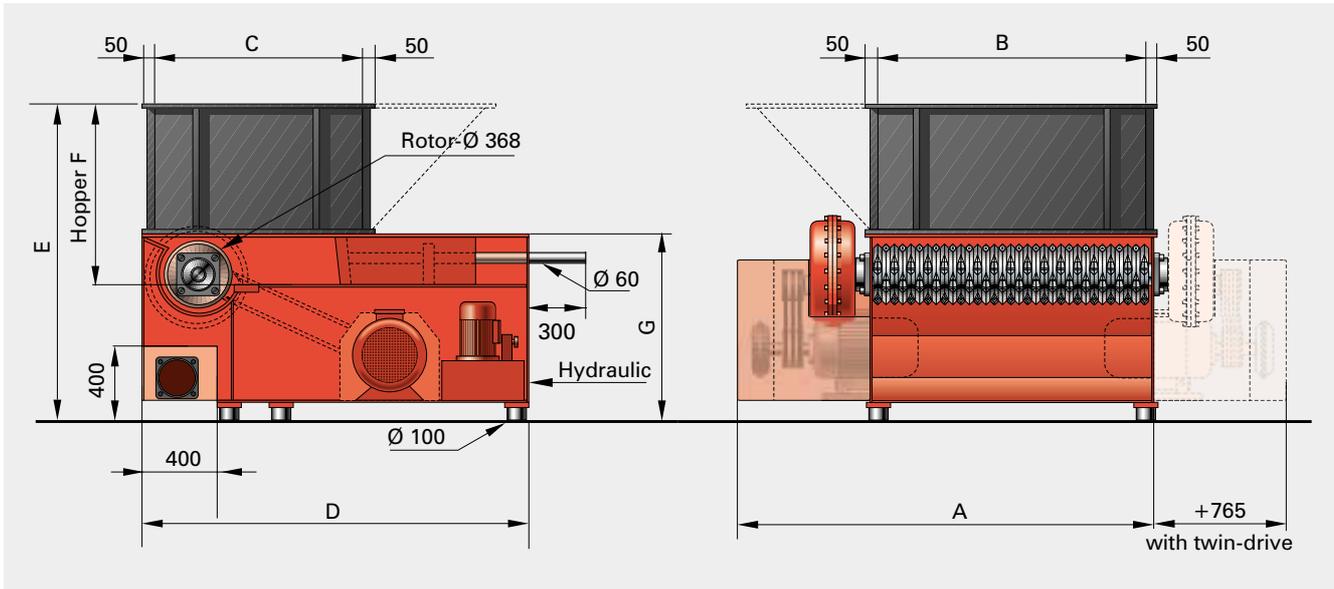
Fast delivery

The shredded material is delivered through the screen located underneath the rotor. The screen diameter (10-100 mm) determines the size of the shreds.



Technical Data

Series WL 10 – WL 30



	WL 10	WL 12	WL 14	WL 15	WL 18	WL 20	WL 25	WL 30
Size A (mm)	1.800	2.000	2.300	2.300	2.600	3.000	3.300	3.800
Size B (mm)	1.000	1.200	1.500	1.500	1.800	2.000	2.500	3.000
Size C (mm)	1.200	1.200	1.200	1.500	1.500	1.500	1.500	1.500
Size D (mm)	2.100	2.100	2.100	2.700	2.700	2.700	2.700	2.700
Size E (mm)	1.720	1.720	1.720	1.720	1.900	1.900	1.900	1.900
Size F (mm)	1.030	1.030	1.030	1.030	1.030	1.030	1.030	1.030
Size G (mm)	990	990	990	990	1.200	1.200	1.200	1.200
Hopper opening (mm):	1.000	1.200	1.500	1.500	1.800	2.000	2.500	3.000
	x 1.200	x 1.200	x 1.200	x 1.500	x 1.500	x 1.500	x 1.500	x 1.500
Hopper volume (m ³):	1,3	1,5	1,9	2,3	2,8	3,0	3,8	4,6
Throughput (kg/h)	The throughput rate depends on material composition and screen size							
Rotor diameter (mm):	368	368	368	368	368	368	368	368
Rotor speed (rpm):	60 -120	60 -120	60 -120	60 -120	60 -120	60 -120	60 -120	60 -120
Power (kW):	22/30/37/45	22/30/37/45	30/37/45/55	30/37/45/55	45/55/75	55/75/90	75/90	75/90
					2x55	2x55	2x55/2x75	2x55/2x75
Tools (Pieces):	28/52	34/64	43/82	43/82	52/100	58/112	73/142	88/172
Screen size (mm):	10 -100	10 -100	10 -100	10 -100	10 -100	10 -100	10 -100	10 -100
Connection-Ø (mm):	200	200	250	250	250	250	250	250
Weight approx. (kg):	2.800	3.200	4.000	4.500	5.800	6.500	8.500	10.500

Demonstrations and tests with your materials are possible in our technical laboratory by prior agreement.



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