



Maschinenbau GmbH

The universal shredder

rugged and reliable



Topping the list of purchased shredders - WEIMA's most successful model

Shredders of the WL 4 – WL 4 S series

reliable technology for all timber materials

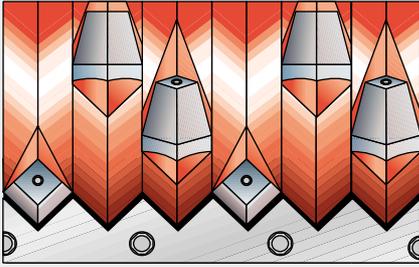
Wood Division

The models of the WL 4 - WL 4 S series are classics among shredders. Technically refined right down to the finest detail thanks to our long-term experience in this sector.

The machines shred reliably all types of timber waste. The patented V-rotor is available in two different diameters depending on customer specifications.

Shredding systems for professionals

WL 4 - WL 4 S 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

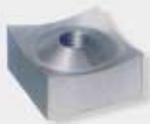
The profiled V-rotor is machined in one piece and mounted in sturdy rotor bearings. Special knife holders are welded into milled knife pockets around its circumference.

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.

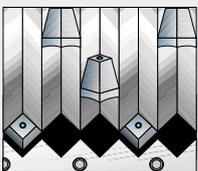
The concave cutting knives can be turned four times and guarantee a precision cut at high throughput rates. Two rotor diameters are used:

252 mm (WL 4)

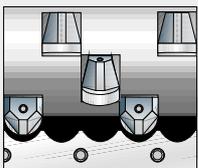
368 mm (WL 4 S)



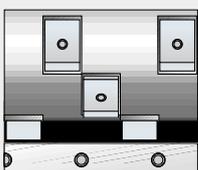
Other rotor versions



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 universal shredder - rugged and reliable

Series WL 4 - WL 4 S

The tried-and-tested shredder for all timber materials

Shredders of the WL 4 - WL 4 S series are used in thousands of small and medium-sized businesses worldwide. An outstanding feature is their very rugged construction for an extremely long service

life (even if installed outdoors). The high number of shredders manufactured in series is a guarantee for continuity in tried-and-tested and reliable technology with an excellent cost-benefit ratio.



Basic models of the WL 4 - WL 4 S series, manufactured in series



The screen size perforation determines the size of shreds

V-rotor with two knife rows

Hopper design to customer specification

The universal shredder - rugged and reliable

Series WL 4 – WL 4 S

/// The shredders of the WL 4 - WL 4 S series in use

The material is fed through the hopper to a hydraulic ram which operates according to load and presses the material against the rotating rotor. The inserted material is shredded between the rotating knives and fixed-position counter knife.

The ram is fitted with scraper rails which prevent any unwanted material being pulled between the ram and machine housing. The manufactured wood chips can be transported out of the machine by an extraction system or spiral conveyor.



WL 4 series shredder, connected to an extraction system



WL 4 S series shredder, connected to an extraction system

/// WL 4 - WL 4 S series technology



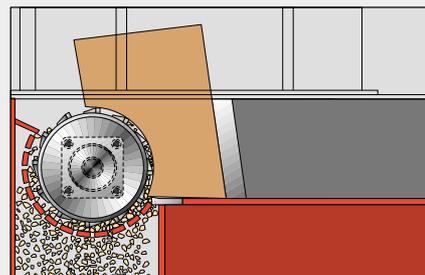
Power drive

The machines are driven by an electric motor with up to 22 kW output which is transmitted to the rotor by v-belts and gears.

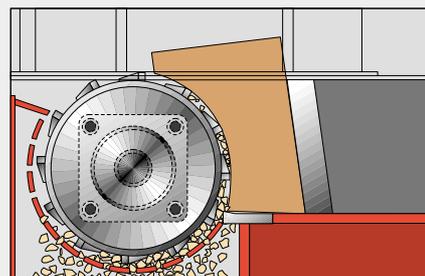


Enclosed hydraulic system

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.



Rotor diameter with 252 mm with high throughput capacity

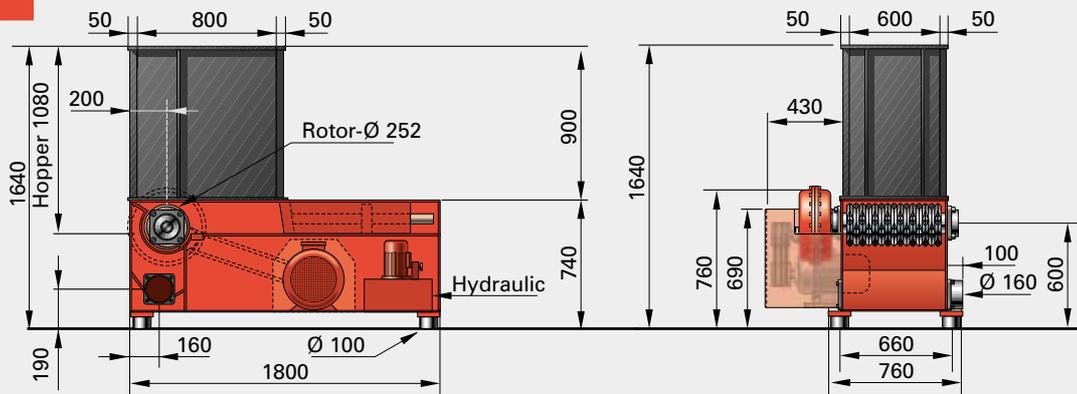


Rotor diameter with 368 mm for big blocks and pieces with larger screen surface for an extra high output

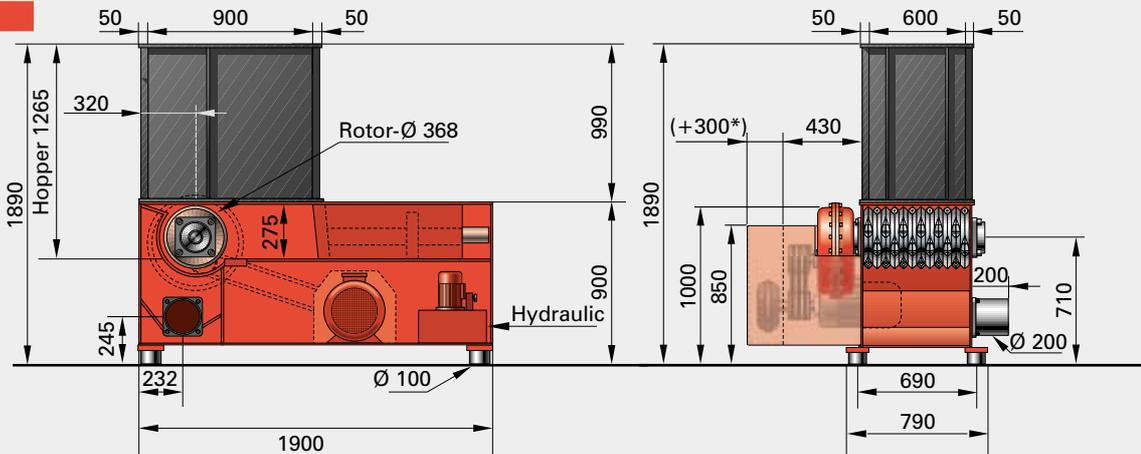
Technical Data

Series WL 4 – WL 4 S

WL 4



WL 4 S



	WL 4	WL 4 S	
Hopper opening:	600 mm x 800 mm	600 mm x 900 mm	* < 22 kW with hydro-centrifugal clutch SPC control for fully automatic controlled operation (optional extra), special designs on request. Demonstrations and tests with your materials are possible in our technical laboratory by prior agreement.
Hopper volume:	0,6 m ³	0,7 m ³	
Throughput:	depending on material and screen size		
Rotor diameter:	252 mm	368 mm	
Rotor length:	600 mm	600 mm	
Rotor speed:	60 - 100 rpm	60 - 100 rpm	
Power:	11/15/18,5 kW	15/18,5/22* kW	
Tools:	14 knives	17 / 30 knives	
Screen size:	10 bis 40 mm	10 bis 40 mm	
Connection-Ø:	160 mm	200 mm	
Air speed:	28 m/sec.	28 m/sec.	
Weight:	approx. 1.300 kg	approx. 1.700 kg	



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