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weima

SHREDDING + COMPRESSING



● WL 600 | WL 4-8 | WLK 4 | WLK 800
SINGLE-SHAFT SHREDDERS

TECHNICAL HIGHLIGHTS

Intuitive operation

thanks to Allen Bradley PLC control with touch display

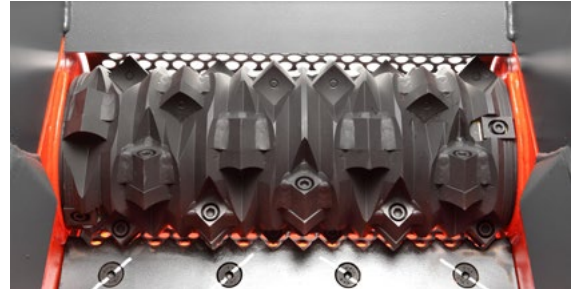
To ensure that the electronics are optimally matched to the machine, we design, build and wire our control cabinets ourselves. We only use high-quality components - for example from Allen Bradley or Rittal. Intuitive touch interfaces guarantee quick adjustments. Functional ram setting adjustments ensure a high throughput. The built-in overload protection also prevents defects in the machine.

No material bridges

due to free-cutting hopper design



The hopper fulfills several tasks at once. First, the material to be shredded is fed through it - manually, mechanically, or by conveyor belt. The generous opening makes it easy to fill even very large parts. A decisive factor for shredding, however, is its special design, which is rounded at the front and thus effectively prevents material bridging. Even with bulky parts, the shredder cuts itself free. If required, hopper extensions and lids with gas pressure springs are available.



Precise cut with high throughput with profiled V rotor

The V rotor, specially developed by WEIMA, can be used universally and is made of solid material. Its aggressive material feed with up to two rows of knives guarantees high throughput with low power requirements. It can be equipped with hardened steel cutting knives in edge lengths of 30 mm and 40 mm. These can be rotated several times in case of wear, which drastically reduces maintenance costs.



Controlled feeding behavior

when shredding with F rotor

The F rotor shows its decisive advantages especially with flexible materials such as filaments, films and fibers. Its controlled feed behavior, in combination with precise cutting geometry, permits a powerful cut. This ensures high material throughputs. The knife holders are firmly welded to the rotor made of solid material.

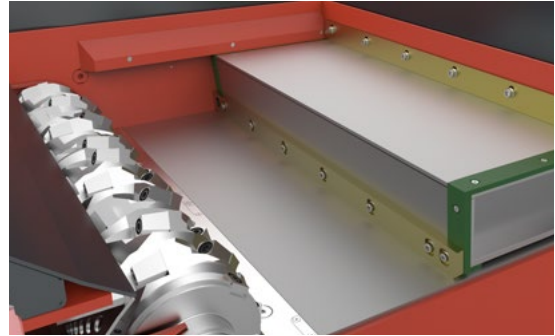




DURABLE ROTOR BEARINGS

thanks to offset design

A rotor bearing must be robustly designed due to the extreme stresses it is subjected to while it's in operation. To prevent dust or foreign matter from getting inside it, we have set it apart from the machine frame. This also makes it very maintenance-friendly and easy to access.



Safe material feed

with load-controlled ram

The ram, which moves horizontally back and forth via hydraulics, feeds the material to the rotor. With WEIMA, it can be controlled or cycled automatically depending on the load. If required it can also be controlled manually. For even more aggressive feeding, we recommend additional serrated plates and hold-down device, which also hold bulky and long parts securely in place. A shock valve located on the hydraulic cylinder absorbs any impacts to the ram, thus ensuring a longer service life.

Homogeneous shredding results

thanks to flexible, interchangeable screen

Adapt the screen to your needs. The smaller the hole diameter, the finer the shredded material that is discharged. Screens can be exchanged flexibly and are bolted as standard. On the WLK 800, a screen basket that opens downward ensures even faster screen changes and simplified maintenance.



TECHNICAL HIGHLIGHTS

Optimally protected hydraulics installed in the machine frame

Integrating the sensitive components of a hydraulic system into the machine frame has many advantages. Not only is it protected from dust, dirt and other external influences such as the weather, but it also makes the machine even more compact in its installation. A separate service opening provides easy access for maintenance.

Efficiently absorb vibrations with stable rubber feet

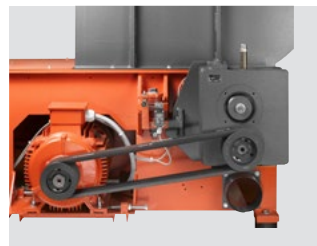
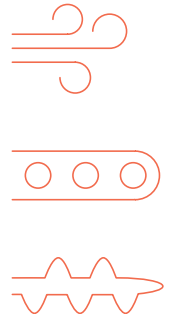
Vibration-damping machine feet ensure a secure footing and help to significantly reduce disruptive vibrations in the surrounding area. Since the machine does not have to be anchored to the ground first, installation is particularly flexible and convenient.



CLEAN DISCHARGE OF MATERIAL

by suction, screw or conveyor belt

Depending on your needs and frame design (elevated machine with conveyor belt cutout or side spout), you have the option of discharging shredded material either by air extraction, discharge screw or classic conveyor belt. With experience from many thousands of machines on the market, we are also experts in conveyor technology and can supply you with a turnkey solution from a single source.



Powerful drive

with WEIMA WAP gearboxes

Instead of purchasing standard components, we have been manufacturing our proven WAP gearboxes ourselves in our German production facilities for many years. The in-house development ensures maximum robustness with the highest machine requirements. The electromechanical drive via V-belt and powerful electric motor is also optimally protected against shocks and interference thanks to the built-in vibration damper. This counteracts increased wear and extends the service life of a machine. In the WLK 800 shredder, a hydrodynamic start-up clutch also ensures an even smoother shredding process.

SINGLE-SHAFT SHREDDERS IN ACTION

WL 8
Discharge by air extraction



WL 6 S
Integration in production line



WL 8
Wood shredding



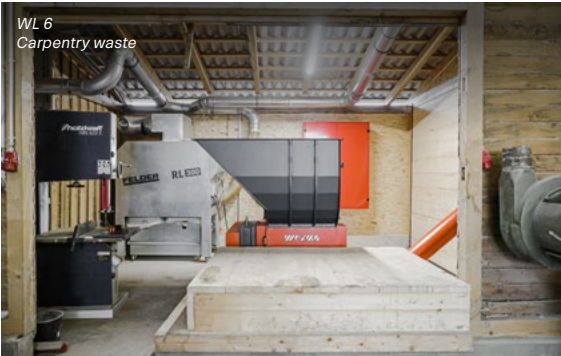
WL 4
Underfloor installation



WLK 800
With discharge conveyor belt



WL 6
Carpentry waste



TECHNICAL DATA AND MACHINE CONFIGURATION

Technical data single-shaft shredder

	Woodchuck	WL 4	WMS 60	WL 6	WLK 800	WL 8
Rotor diameter [mm]	260	260	260	260	260	260
Rotor length [mm]	600	600	600	800	800	1,000
Rotor speed [rpm]	90 - 110	90 - 110	60 - 80	90 - 110	80 - 125	80 - 125
Drive power [kW]	18.5	22 - 26.5	22	22 - 26.5	37	26.5
Max. number of knives [pcs]	28	28	28	42	42	54
Available knife sizes [mm]	40	40	40	40	40	40
Screen size [mm]	12 - 50	12 - 50	15 - 50	12 - 50	15 - 80	12 - 50
Extraction connection [mm]	160	160	-	200	-	200
Hopper opening [mm]	600 × 1,050	600 × 1,050	600 × 1,440	800 × 1,250	800 × 1,800	1,000 × 1,250
Length [mm]	2,045	2,045	1,685	2,388	2,390	2,388
Width [mm]	1,163	1,163	1,238	1,438	1,745	1,638
Height [mm]	1,640	1,640	1,855	1,840	2,180	1,840
Weight [approx. kg]	1,400	1,400	1,700	1,900	2,800	2,200

Specifications based on standard configurations.

Machine configuration single-shaft shredder

● Standard ○ Optional – Not available

	Woodchuck	WL 4	WMS 60	WL 6	WLK 800	WL 8
Control cabinet with PLC control	●	●	●	●	●	●
MATERIAL FEED						
Horizontal ram	●	●	–	●	●	●
Sloped floor	–	–	●	–	–	–
Serrated ram	●	●	○	●	●	●
Fast hydraulics	○	●	●	●	●	●
DRIVE						
Electromechanical drive	●	●	●	●	●	●
WEIMA WAP gearbox	●	●	●	●	●	●
Gearbox oil cooling	–	–	–	–	○	–
Hydraulic oil cooling	○	○	○	○	○	○
Hydrodynamic start-up clutch	–	–	–	–	●	–
CUTTING GEOMETRY						
V rotor	●	●	●	●	○	●
F+ rotor	–	–	–	–	●	–
Adjustable counter knife	–	●	●	●	●	●
Vautid rotor wear protection	○	○	○	○	○	○
Offset bearings	–	●	●	●	●	●
MATERIAL DISCHARGE						
Bolt-on screen	●	●	●	●	–	●
Drop-down screen	–	–	–	–	●	–
Conveyor belt cutout	–	○	●	○	●	○
Extraction connection	●	●	○	●	○	●
MAINTENANCE						
Vibration damping machine feet	●	●	●	●	●	●

Other variations, special equipment, and technical modifications available on request.



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