

weima

SHREDDING + COMPRESSING



**PRECUT | POWERLINE | FINECUT
SINGLE-SHAFT SHREDDERS**

TECHNICAL HIGHLIGHTS



Flexible adjustment of cutting parameters with Siemens S7 PLC control

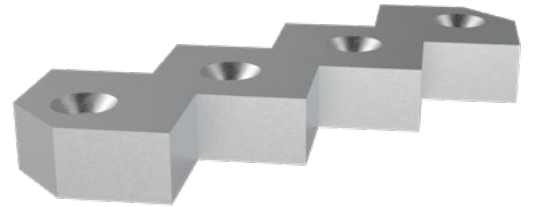
We manufacture our control cabinets ourselves in our German factories, using only brand-name components. With the large touch display, you have all important data and settings at your fingertips. The flexible adjustment of parameters such as the rotor speed or the ram movement is thus easily possible. For challenging conditions, we recommend optional control cabinet cooling.

FineCut rotor

developed for secondary shredding



With the characteristically designed FineCut rotor made of solid material, you can achieve particle sizes of up to 15 mm at high speeds of 160 to 380 rpm. The cutting blades can be turned several times. The rotor has up to seven rows of knives, allowing very high throughputs to be achieved. Here, too, a Vautid guard comes standard. A splined shaft journal is installed on the drive side for an optimum fit. The compact installation also provides plenty of lateral expansion space for the material.



Consistently high-quality cuts with SuperCut cutting gap adjustment

The counter knives are user-friendly, adjustable from the outside via a screw system, and can be easily reversed when worn. In addition, they are protected by cover plates and positioned at an angle for an even more aggressive cut.

PowerLine rotor

for universal use with waste of all kinds

Due to its high solid dead weight, the PowerLine Rotor requires less torque for shredding. Vautid protection against increased wear is available as a full shell or in the form of welded seams.

Side-mounted rotor face plates made of Creusabro® also protect against abrasive material flows. The shaft journals are bolted on both sides. Cutting blades in sizes 60, 80 and 100 mm can be flexibly selected.



LOAD-DEPENDENT FEEDING FOR MAXIMUM THROUGHPUT

with swing ram

Material is fed to the rotor with a swing ram. The swing attachment, which is located on the outside of the pre-shredder, ensures maximum cutting chamber size. The swing ram can optionally be equipped with an additional pressing feature to hold the material more firmly against the rotor. In addition, turbo hydraulics are used for faster swing arm movements and result in higher throughputs.

Plenty of space for maintenance work thanks to hydraulic inspection flap

The shredders can be opened outward on both sides via a flap or door - at the front for work on the screen and at the rear for direct rotor access. This facilitates routine maintenance, such as knife rotation, or optimization of the cutting gap. Foreign materials can also be easily removed manually. Down times are reduced to a minimum.



PreCut rotor

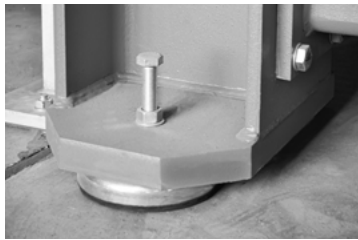
developed for pre-shredding

The massive PreCut rotor is ready for anything. It has Vautid wear protection as standard, which makes it particularly resistant to foreign matter. The screwed-on octagonal cutting blades have an edge length of 100 or 130 mm - the largest in the entire WEIMA portfolio. Due to the good accessibility, the rotor can still be maintained comfortably. Speeds are adjustable from 5 - 120 rpm.

TECHNICAL HIGHLIGHTS

Secure footing on any terrain
with level, heavy duty feet

Even if your production surfaces are not one hundred percent level: Thanks to our standard, adjustable heavy duty feet, the machine is guaranteed to have a firm hold.



Always lubricated bearings

thanks to automatic central lubrication

The central lubrication system mounted on the side of the machine frame ensures that rotor bearings, swingarm bearings, screen bearings and inspection flap bearings are always optimally lubricated. This eliminates the need for manual lubrication by hand pump.

Easy integration into production lines

or as a stand-alone solution

Optimally connected: WEIMA shredders have all common interfaces to ensure fast integration into existing production lines. Thousands of system solutions in cooperation with plant engineering partners worldwide speak for themselves. The elevated base frame offers plenty of space for all common conveyor belts - perfect for transporting shredded material away.



THE RIGHT DRIVE MAKES THE DIFFERENCE

Hydraulic, high-torque or electromechanical?

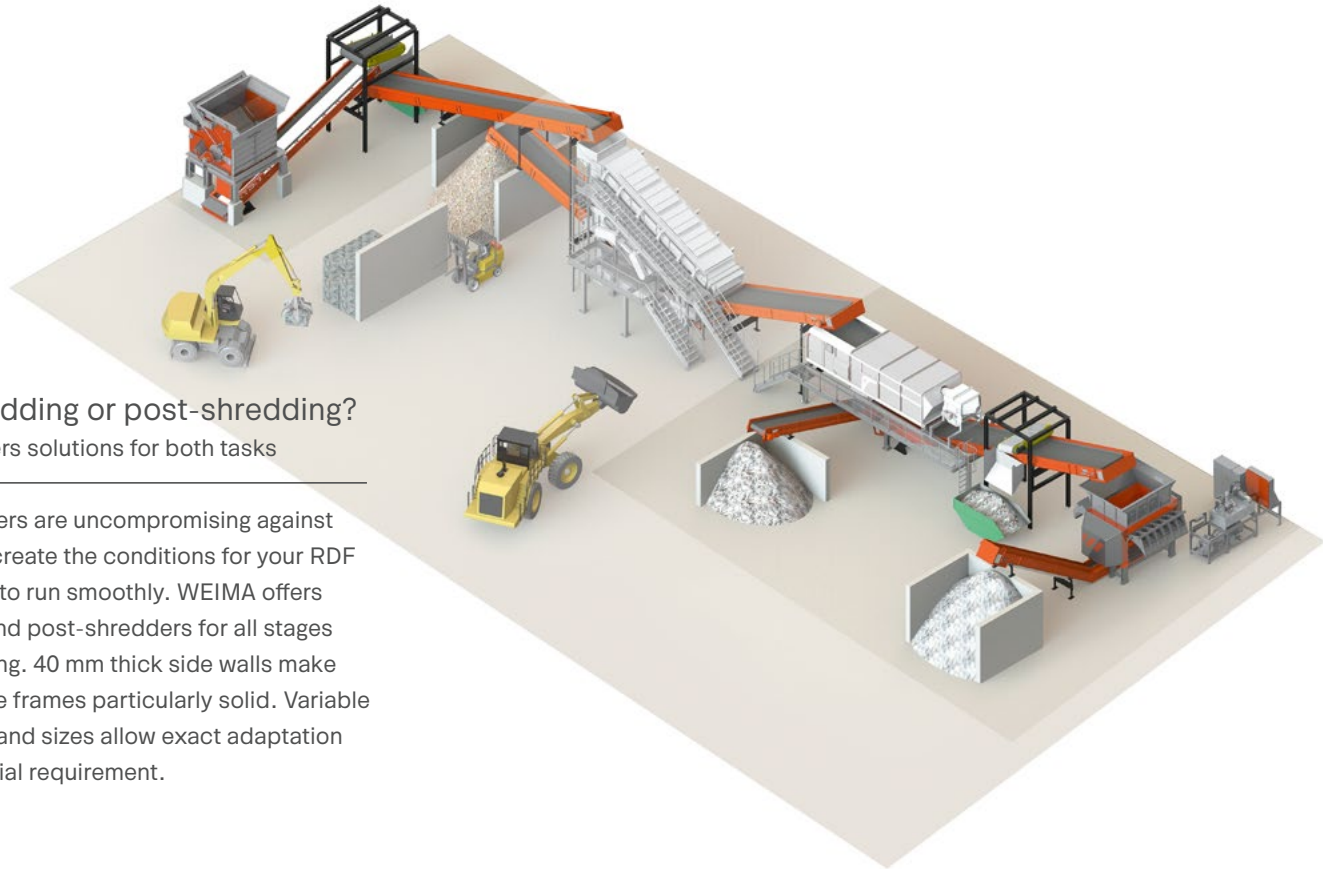
You have the choice: While our primary shredders are exclusively equipped with large Häggglunds hydraulic drives, high-torque drives from Baumüller and conventional electromechanical drives are also available for all other machines for universal and secondary shredding. Your individual application always decides which one is the right one.

Flexible screen change for changing material flows

thanks to hydraulically swiveling screen basket

Pre-shredders have a firmly bolted screen basket with replaceable rungs (see picture). This results in extreme stability and sturdiness. All other machines have a screen basket that can be swung upwards, on which the screen segments are screwed. They can be changed quickly and are protected against wear. With secondary shredders, a particle size of 15 - 150 mm can be achieved - with primary shredders up to 400 mm.





Pre-shredding or post-shredding?
 WEIMA offers solutions for both tasks

Our shredders are uncompromising against waste and create the conditions for your RDF production to run smoothly. WEIMA offers both pre- and post-shredders for all stages of processing. 40 mm thick side walls make our machine frames particularly solid. Variable equipment and sizes allow exact adaptation to any special requirement.

SINGLE-SHAFT SHREDDERS IN ACTION



*2x FineCut 3000
 Waste processing for
 cement production*



*PowerLine 2500
 Waste containers and
 plastic pipes by wheel loader*



*FineCut 2500 und PowerLine 3000
 Industrial waste processing*



*PowerLine 3000
 with fire protection system*



*FineCut 2500
 Secondary shredding for
 high-quality substitute fuel*



*PowerLine 1500
 Commercial waste*



*PowerLine 2500 und PowerLine 3000
 for maximum throughput*



*PowerLine 3000
 Direct filling by crane*



*PreCut 3000
 Outdoor pre-shredding*



TECHNICAL DATA AND MACHINE CONFIGURATION

Technical data single-shaft shredder

	PreCut 2000	PreCut 2500	PreCut 3000	PowerLine 1500	PowerLine 2000	PowerLine 2500	PowerLine 3000	FineCut 1500	FineCut 2000	FineCut 2500	FineCut 3000
Rotor diameter [mm] ¹⁾	800	800	800	800	800	800	800	800	800	800	800
Rotor length [mm]	2,000	2,500	3,000	1,500	2,000	2,500	3,000	1,500	2,000	2,500	3,000
Rotor speed [rpm] ²⁾	5 - 120	5 - 120	5 - 120	80 - 200	80 - 200	80 - 200	80 - 200	160 - 380	160 - 380	160 - 380	160 - 380
Drive power [kW] ³⁾	160 - 350	160 - 350	160 - 350	160 - 350	160 - 350	160 - 350	160 - 350	160 - 350	160 - 350	160 - 350	160 - 350
Max. number of knives [pcs] ⁴⁾	76	92	116	68	92	116	144	56	77	98	119
Available knife sizes [mm]	100 130	100 130	100 130	80 100	80 100	80 100	80 100	172 × 57 × 28	172 × 57 × 28	172 × 57 × 28	172 × 57 × 28
Particle size [mm]	150 - 400	150 - 400	150 - 400	30 - 150	30 - 150	30 - 150	30 - 150	15 - 80	15 - 80	15 - 80	15 - 80
Hopper opening [mm]	2,000 x 2,200	2,500 x 2,000	3,000 x 2,200	1,800 x 1,500	1,800 x 2,000	1,800 x 2,500	1,800 x 3,000	1,260 x 1,500	1,260 x 2,000	1,260 x 2,500	1,600 x 3,000
Length [mm]	3,500	3,500	3,500	3,190	3,190	3,190	3,190	3,000	3,000	3,000	3,000
Width [mm] ⁵⁾	3,480	3,980	4,370	4,260	4,760	5,260	5,760	4,490	4,490	5,500	7,440
Height [mm]	4,560	4,397	4,560	4,770	4,770	4,770	4,770	4,770	4,770	3,700	4,720
Weight [approx. kg]	32,000	35,000	38,000	25,500	28,500	31,500	34,500	24,500	28,500	32,500	36,500
Wall thickness [mm]	40	40	40	40	40	40	40	40	40	40	40

1) dependent on cutting circle

2) dependent on specific drive configuration

3) dependent on drive technology

4) dependent on machine configuration

5) in standard configuration

Machine configuration single-shaft shredders

● Standard ○ Optional — Not available

	PreCut 2000	PreCut 2500	PreCut 3000	PowerLine 1500	PowerLine 2000	PowerLine 2500	PowerLine 3000	FineCut 1500	FineCut 2000	FineCut 2500	FineCut 3000
Control cabinet with PLC control	●	●	●	●	●	●	●	●	●	●	●
MATERIAL FEED											
Horizontal ram	●	●	●	●	●	●	●	●	●	●	●
Turbo hydraulics	●	●	●	●	●	●	●	●	●	●	●
DRIVE											
Electromechanical drive	—	—	—	—	—	—	—	●	●	●	●
Hydraulic drive	○	○	○	○	○	○	○	○	○	○	○
High-torque drive	○	○	○	○	○	○	○	○	○	○	○
Hydraulic oil cooling	●	●	●	●	●	●	●	●	●	●	●
CUTTING GEOMETRY											
V rotor	—	—	—	○	○	○	○	—	—	—	—
F rotor	●	●	●	●	●	●	●	—	—	—	—
FineCut rotor	—	—	—	—	—	—	—	●	●	●	●
Additional rotor knife row	○	○	○	○	○	○	○	○	○	○	○
Adjustable counter knife	●	●	●	●	●	●	●	●	●	●	●
Vautid rotor wear protection	○	○	○	○	○	○	○	○	○	○	○
Detached bearing	●	●	●	●	●	●	●	●	●	●	●
MATERIAL DISCHARGE											
Heavy duty screen inserts	●	●	●	—	—	—	—	—	—	—	—
Swing up screen	●	●	●	●	●	●	●	●	●	●	●
Conveyor belt cutout	●	●	●	●	●	●	●	●	●	●	●
MAINTENANCE											
Inspection flap	●	●	●	●	●	●	●	●	●	●	●
Central lubrication	○	○	○	○	○	○	○	○	○	○	○
Vibration damping machine feet	●	●	●	●	●	●	●	●	●	●	●

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



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Subject to technical changes | 01082021