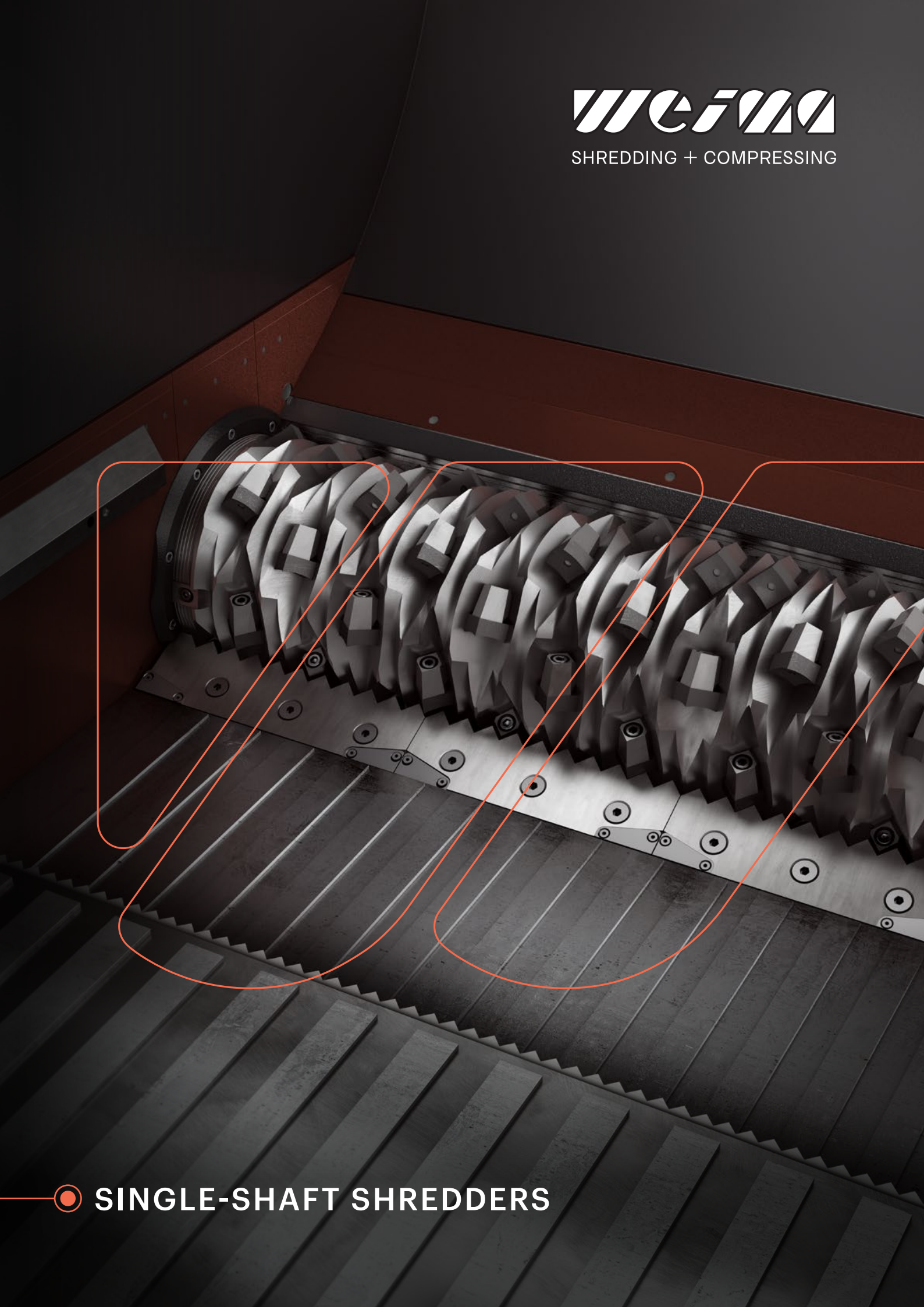




SHREDDING + COMPRESSING



● SINGLE-SHAFT SHREDDERS



weim

CON

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260 mm rotor diameter

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370 mm rotor diameter

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500 mm rotor diameter

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700 mm rotor diameter

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800 mm rotor diameter

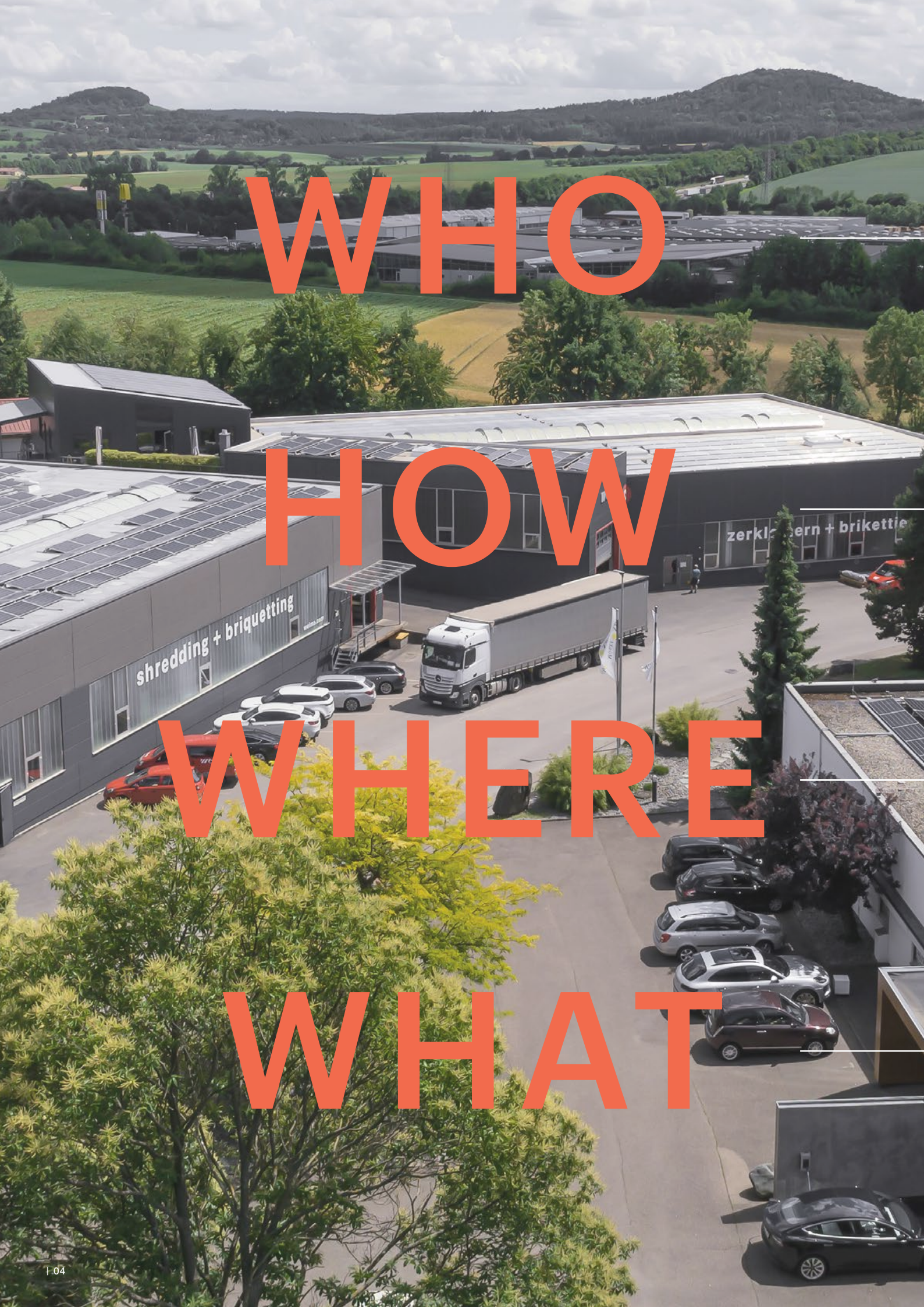
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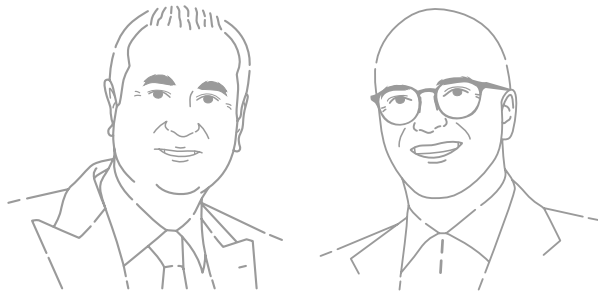


WHO

HOW

WHERE

WHAT



The family business.

The young entrepreneur and visionary, Peter Rössler, recognized the potential of waste recycling early on and founded Weinsberg Maschinenfabrik – or WEIMA for short – in 1980. After the turn of the millennium, Martin Friz succeeded in bringing about the generation shift and has now been running the business since 2003.

>300                 

       **65.000**

  **1.200**   

Global leader.

WEIMA produces more than 1,200 shredders, briquetters and drainage presses per year on a production area of approx. 65,000 sqm with more than 300 employees worldwide. Since its foundation, about 40,000 machines have been delivered worldwide.



Built in Germany, made for the world.

Thanks to the early international orientation, WEIMA is represented in all important markets. Sales and service locations are located in Europe, the USA, China and India.

1. Ilsfeld | HQ (DE)
2. Annaburg | Production (DE)
3. Abstatt | Production (DE)
4. Fort Mill | Sales & Service (US)
5. Yantai | Sales & Service (CN)
6. Ahmedabad | Sales & Service (IN)

From trash to treasure.

With WEIMA machines there are (almost) no limits. For over 40 years, we have been shredding and compressing production waste from a variety of industries, including plastics, wood, paper, metal, packaging, waste and biomass.





WE MAKE IT SMALL.



WEIMA SHREDDERS ENSURE THAT EVERYTHING THAT GOES IN COMES OUT IN SUCH
A WAY THAT YOU ACHIEVE THE MAXIMUM ECONOMIC BENEFIT, WHETHER FOR SORTING,
CLEANING, TRANSPORTING OR FURTHER PROCESSING.



REDUCE. REUSE. RECYCLE.

WEIMA stands for active environmental protection and for robust shredding technology that's "Made in Germany". Our machines lay the foundation for a resource-saving future and are at the beginning of many recycling processes.



AN APPRECIATION FOR WASTE MATERIALS

As a recycling specialist, we see it as our duty to contribute to a clean planet. WEIMA shredders, granulators, briquetting and drainage presses are thus becoming ever more sophisticated, productive, and above all – energy-efficient.



SUSTAINABLE FOR INDUSTRY AND TRADE

The wide selection of machines and options gives WEIMA a decisive advantage: instead of one-size-fits-all solutions, we work with our customers to develop the right machine or system solution for each waste task.



DID YOU KNOW?

The Destroy Responsibly™ program, active since 2009, makes trade shows and other events more environmentally friendly. A fully functional shredding line recycles waste where it is generated: directly on the event site.



[Learn more](#)

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APPLICATIONS SHREDDING



Plastics

With many thousands of plastic shredders delivered, there are hardly any applications that we have not already processed. These include classic items such as purge, crates, pallets, pipes, containers, molded parts, and post-consumer waste such as PET bottles or packaging. But also particularly tear-resistant materials such as rubber or films made of BOPP, as well as fabrics and fibers made of aramid, Kevlar or carbon.

“With the high volumes of plastic waste in the world, sustainable disposal concepts are particularly important, and shredding is the foundation for this.”

*Gunter Schippers,
Business Development | Plastics at WEIMA*



APPLICATIONS SHREDDING



Wood



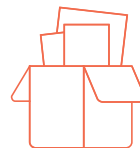
If you want to generate energy from your waste in an environmentally friendly way, you can't do without wood as a raw material. The wood waste, which is shredded into chips, can be used for direct heat generation in wood burning ovens or for the production of briquettes.

Typical applications are all kinds of hard and soft woods, old wood, OSB and MDF scraps, veneer, plywood, stairs, doors, and pallets. And don't worry. Their nails and screws are simply shredded as well. Later they can be conveniently separated by means of a magnet.



“The first WEIMA shredders of the 1980s were used for wood applications. Since then, a lot has happened in technical terms. We have now also become an expert for the corresponding conveying technology.”

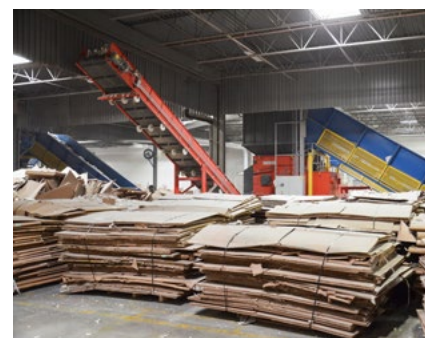
*Fred Haller,
Business Development | Wood at WEIMA*



Paper and cardboard



Alongside metal and plastic, pulp is a key pioneer of recycling – and it's more important than ever. In times of booming online trade, the sustainable disposal of corrugated cardboard is becoming more and more important. The most common applications include waste paper, documents, paper rolls, cardboard, filter paper, labels, books and packaging.



50 Tons

This is the throughput achieved by a WEIMA single-shaft shredder in the production of high-quality refuse-derived fuel.



Waste and substitute fuel

Whether as a stand-alone solution or firmly integrated into a production line - thanks to innovative drive concepts, WEIMA is a full-range supplier for the single-stage as well as multi-stage processing of all types of waste.

Robustly designed pre- and post-shredders effortlessly shred industrial and commercial waste, municipal waste as well as bulky and household waste. The output material is ideal for producing high-calorific refuse-derived fuel (RDF).



Metal

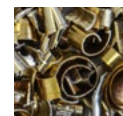
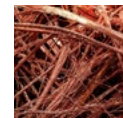
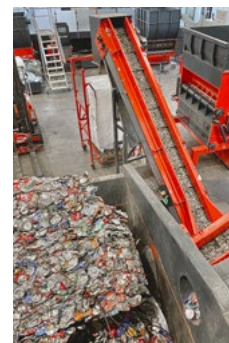


DID YOU KNOW?

In Germany, the recycling rate for aluminum beverage cans is a whopping 99%.

Before bulky metal chips, milling waste, foil, cans and punching waste can be processed further, they usually have to be shredded to a homogeneous material size.

This works best with light metals such as aluminum or magnesium, but also with copper, brass and even smaller saw or milling scraps from steel.



SHREDDING TECHNOLOGY MADE IN GERMANY

At WEIMA you get everything from a single source: planning, design, machine, control cabinet, control, software, conveyor technology, support, maintenance, wear parts and spare parts. We make all this and much more possible with

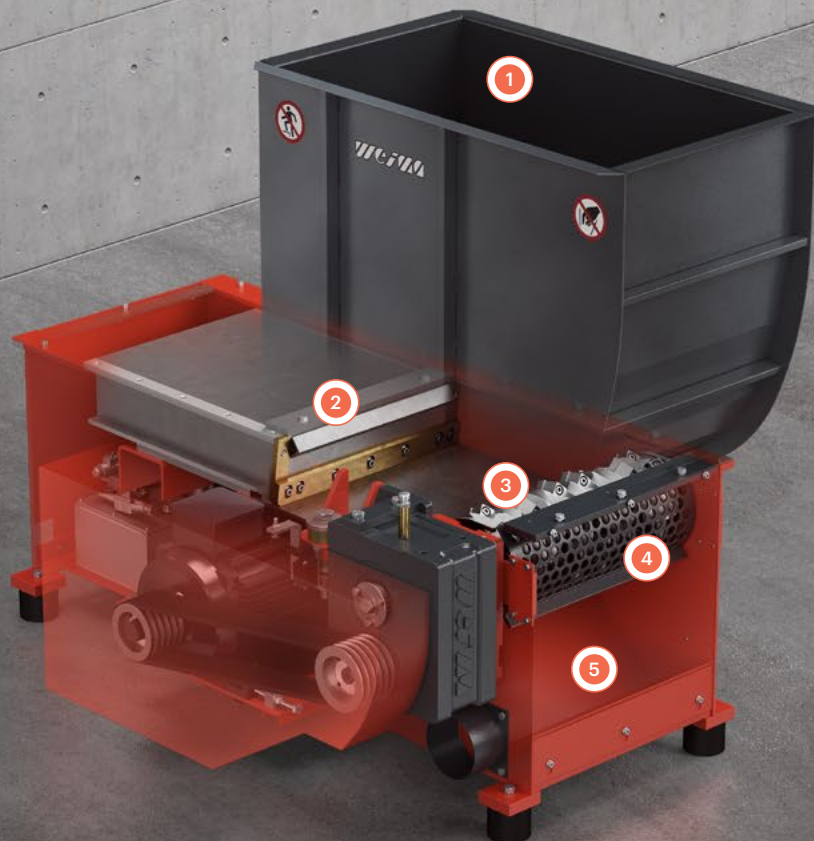
40 YEARS OF RECYCLING KNOW-HOW.





TECHNOLOGY SINGLE-SHAFT SHREDDERS

Maximum robustness and the highest precision – WEIMA shredders prove day in and day out to operators all over the world that this balancing act is possible. Whether compact machines that have been sold thousands of times over, such as the WL 4, or huge high-end shredders like the W5.18 – our shredders work according to the same principle.





- 1 Loading of material into the hopper
- 2 Feeding of material to the rotor with the ram
- 3 Size reduction with rotor and counter knives
- 4 Definition of particle size via screen
- 5 Discharge of the shredded material via suction, screw conveyor or conveyor belt

ROTOR AND CUTTING TECHNOLOGY

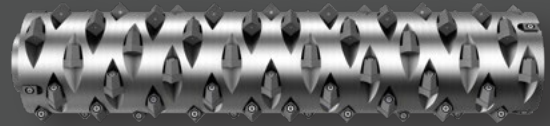
To achieve the desired result from a shredder, it's important to select the right combination of rotor, knives and counter knives. Selecting the right specifications for each material type requires a high degree of experience.

ROTOR

No two applications are alike. But one thing remains: the rotor is the heart of the shredder. It is fitted with cutting blades and, depending on the material and the machine, rotates between 30 and 400 revolutions per minute.

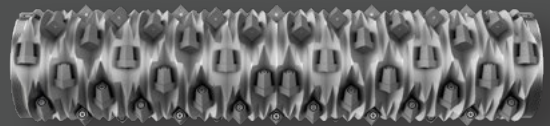
EXPERT TIP

For particularly abrasive materials, we recommend wear protection made of Vautid.



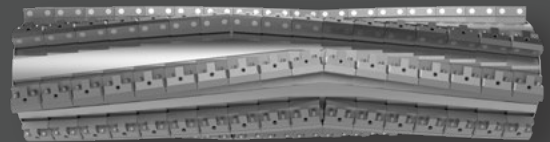
F rotor

Controlled feed behavior, ideal for flexible materials such as filaments, films or veneer



V rotor

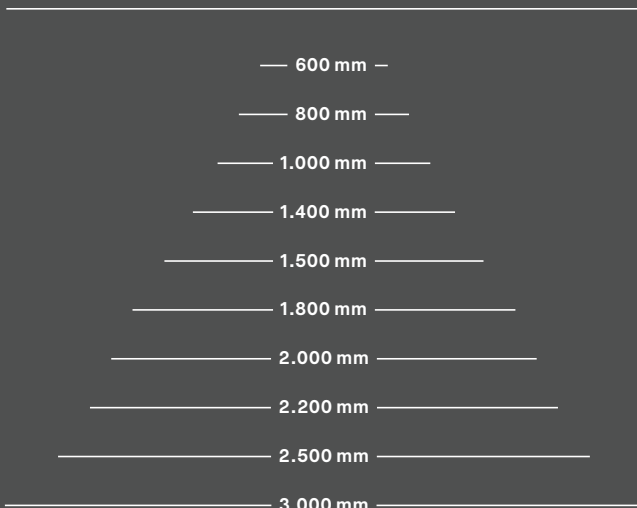
Universally applicable, resistant to foreign materials and low-wear



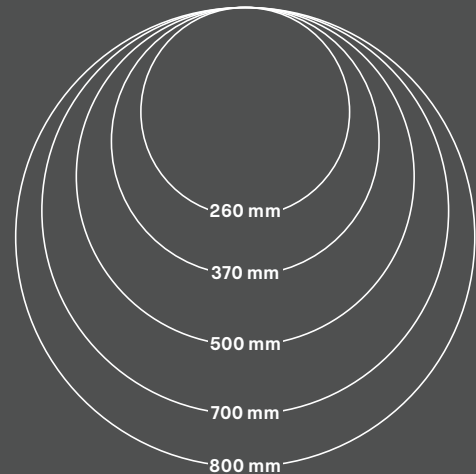
FineCut rotor

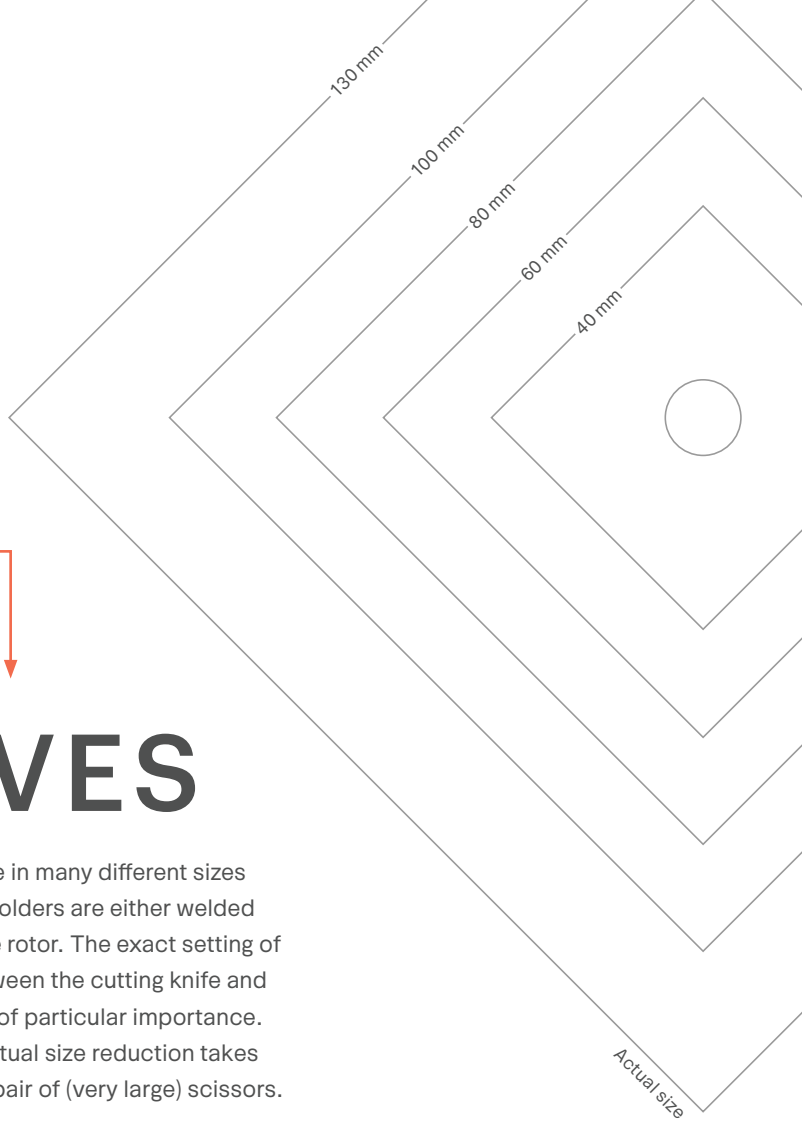
Specifically for secondary shredding, high speed, ideal for RDF or granulate production

Overview rotor lengths



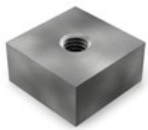
Overview rotor diameter (cutting circle)



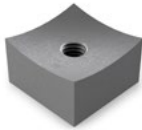


KNIVES

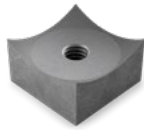
Cutting knives come in many different sizes and shapes. Knife holders are either welded or screwed onto the rotor. The exact setting of the cutting gap between the cutting knife and the counter knife is of particular importance. This is where the actual size reduction takes place - similar to a pair of (very large) scissors.



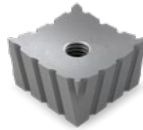
Flat
For applications free of foreign materials



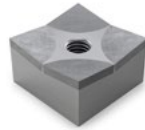
Concave
For better material feed



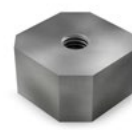
Extra concave
For flexible materials



CrossCut
For more cuts



Carbide
For significantly longer tool life



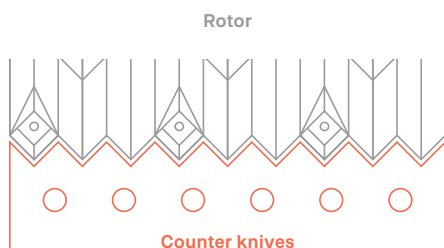
Trapezoid
For extreme applications



FineCut
For secondary shredding

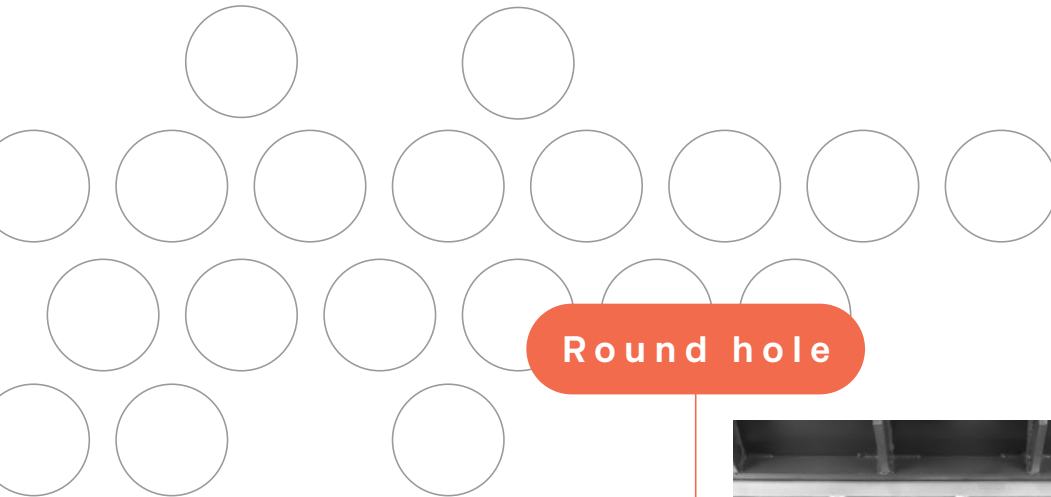
Counter knives

While the rotor cutting knives rotate, the counter knives in a shredder are firmly screwed into the cutting chamber floor. Many variations are reversible. Optionally, the cutting gap can be variably adjusted. This is ideal if readjustment is necessary due to wear. In this way, the throughput remains constantly high. The choice of the right counter knife type always depends on the material and the desired throughput.



SCREENS

The screen mounted below the rotor defines the material size (particle size) that will result from shredding. As a rule, the larger the holes, the coarser the shredded material.



Round hole



The classic standard screen is universally applicable for almost all types of material.

10-150 mm diameter

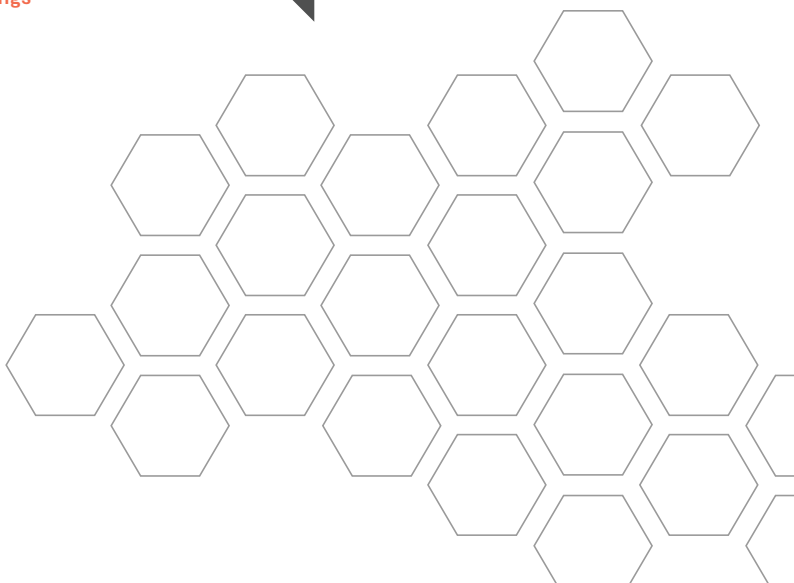


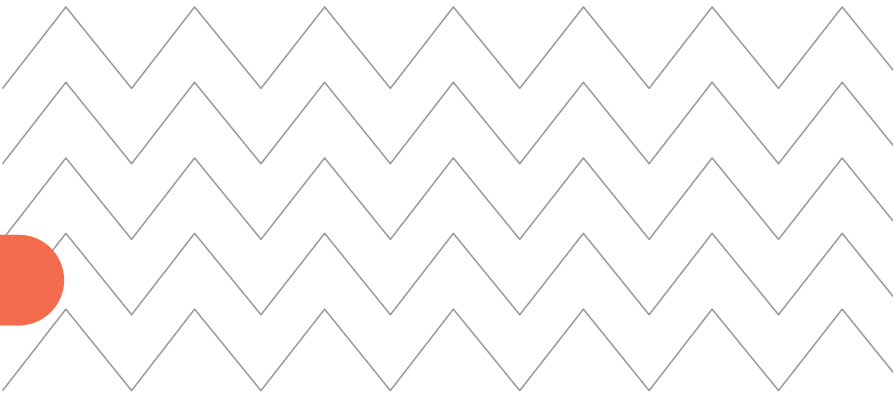
The extended hole area (more holes per m²) increases the throughput. Despite low web thickness, the structure is particularly stable.

20-150 mm wide openings

Honeycomb

DID YOU KNOW?
Modelled after nature - the bionic design of the honeycomb screen was inspired by dimensionally stable honeycombs.

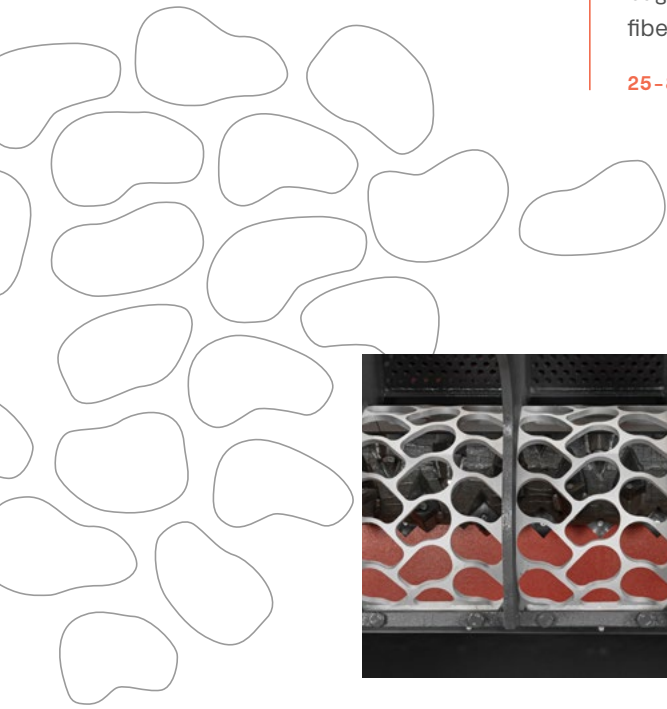
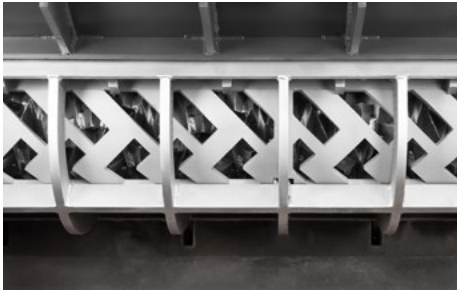




Zigzag

Designed for special applications in the plastics sector, the zigzag screen is ideal for shredding big bags or tear-resistant fibers.

25-80 mm web width



Kidney

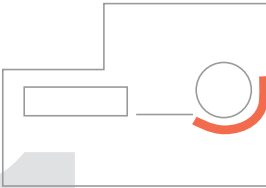
The characteristic kidney shape minimizes clogging in flat, 2D materials and is therefore widely used for shredding industrial waste.

50-250 mm diameter

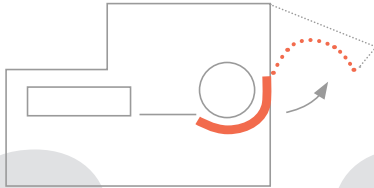


Screen basket designs

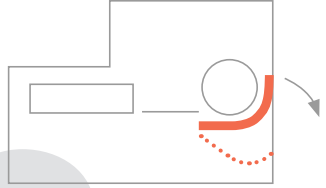
Whether a screen should be screwed tightly, or be able to swing open upwards or downwards, is closely linked to the maintenance of a machine. Here, there are individual advantages when changing screens and cutting knives, or for cleaning. As always, the respective application defines the equipment.



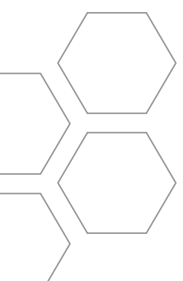
Bolted screen
Screen is firmly screwed to frame



Lift-up screen
Screen basket can be lifted upward hydraulically



Drop-down screen
Screen basket can be hydraulically lowered downwards



DRIVES

For a rotor to rotate, it must be driven by a power source. There are various ways of doing this. While a 170 kg rotor must be set in motion in the WL 4 shredder, a PreCut 3000 cutting shaft weighs a massive 7 tons - a real challenge for mechanics and electronics.

The proven standard drive

In most cases, single-shaft shredders and granulators are equipped with an electromechanical drive. The power is transmitted by means of a standard motor, a specially developed WEIMA WAP gearbox and a power belt. The speed is adjustable.

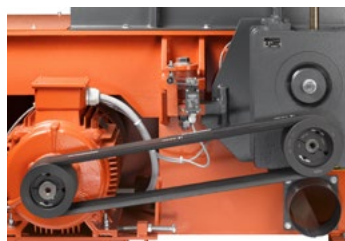
- **Robust**
- **Low wear**
- **Safety coupling protects against damage in case of interfering materials**
- **Proven and compact design**
- **Low investment and maintenance costs**
- **User-friendly maintenance**
- **WEIMA WAP gearboxes specially developed for size reduction**



WAP GEARBOX

Shredder gearboxes must withstand constantly fluctuating loads and impacts. This is why WEIMA has developed and designed the WAP gearbox specifically for use in shredders. This ensures maximum resistance to disturbances and optimum torque transmission. For even more robustness, we use a vibration damper to protect the gearbox from impacts. Wear is reduced to a minimum. It is manufactured exclusively by WEIMA in Ilsfeld, Germany. In addition, WAP gearboxes are extremely easy to maintain, wear-resistant and insensitive to interference.

Electromechanical drive with WEIMA WAP gearbox





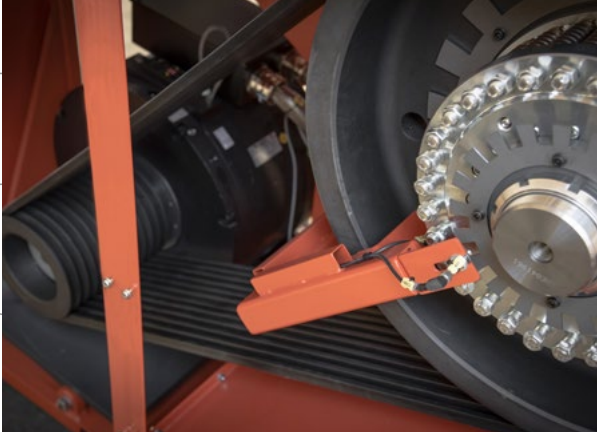
Electromechanical drive with belt

High speeds. Even higher throughputs.

The FineCut machines use a 6-pole asynchronous motor without gearbox. The speed is infinitely variable between 160 and 340 rpm via a frequency converter. Thanks to the high speed, extreme throughputs can be achieved. A slip clutch protects the drive train from damage by contaminants, thus ensuring long service life. The drive is extremely robust and low-maintenance and guarantees an electrical load-free start-up without current peaks.

- **Asynchronous motor with belt**
- **Gearless drive**
- **Insensitive to foreign materials**
- **Low maintenance and wear**
- **Energy efficient**
- **Protection of the drive train by coupling**
- **Speed infinitely variable via frequency converter**

DRIVES



High-torque drive


BAUMÜLLER

Electromechanical drive with belt and multi-pole synchronous torque motor

The high-torque, multi-pole synchronous motor from Baumüller is produced in Germany and is characterized by its insensitivity to foreign materials. Without gears, the drive withstands shocks and vibrations and thus has a particularly long service life – even when shredding challenging material streams.

- Belt drive without gearbox
- Torque and speed via frequency converter
- Frequency converter precisely adjustable
- Low noise emissions
- Low energy consumption
- High efficiency
- Insensitive to foreign materials
- Water-cooled synchronous motor
- Compact and robust design
- High torque and breakaway torque

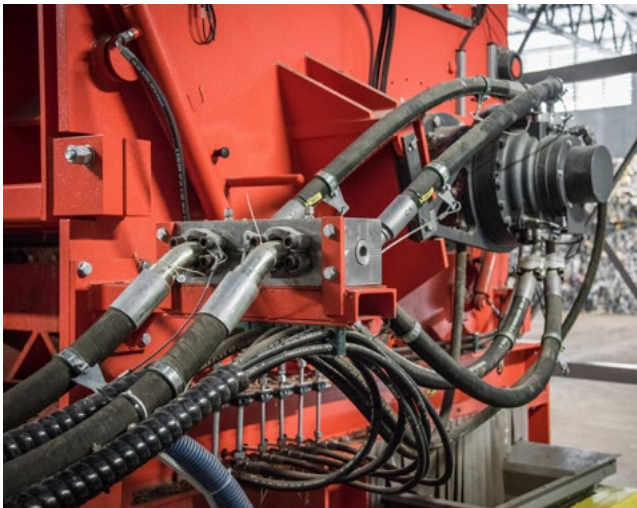


Power transmission without interruption

Hydraulic drives from Hägglunds / Bosch Rexroth have no gearbox and are therefore insensitive to many foreign materials. Speed and torque can be adjusted without causing current peaks. The robust drive provides high torque at low kW. The speed can be adjusted by means of a variable speed pump.

- **Powerful direct drive without gearbox - for full power transmission**
- **Especially insensitive to foreign materials and fast response**
- **Infinitely variable speed and torque adjustable by means of regulating pump**
- **Low connected load**
- **Low maintenance costs as no belt required**
- **Extremely high torque and breakaway torque**

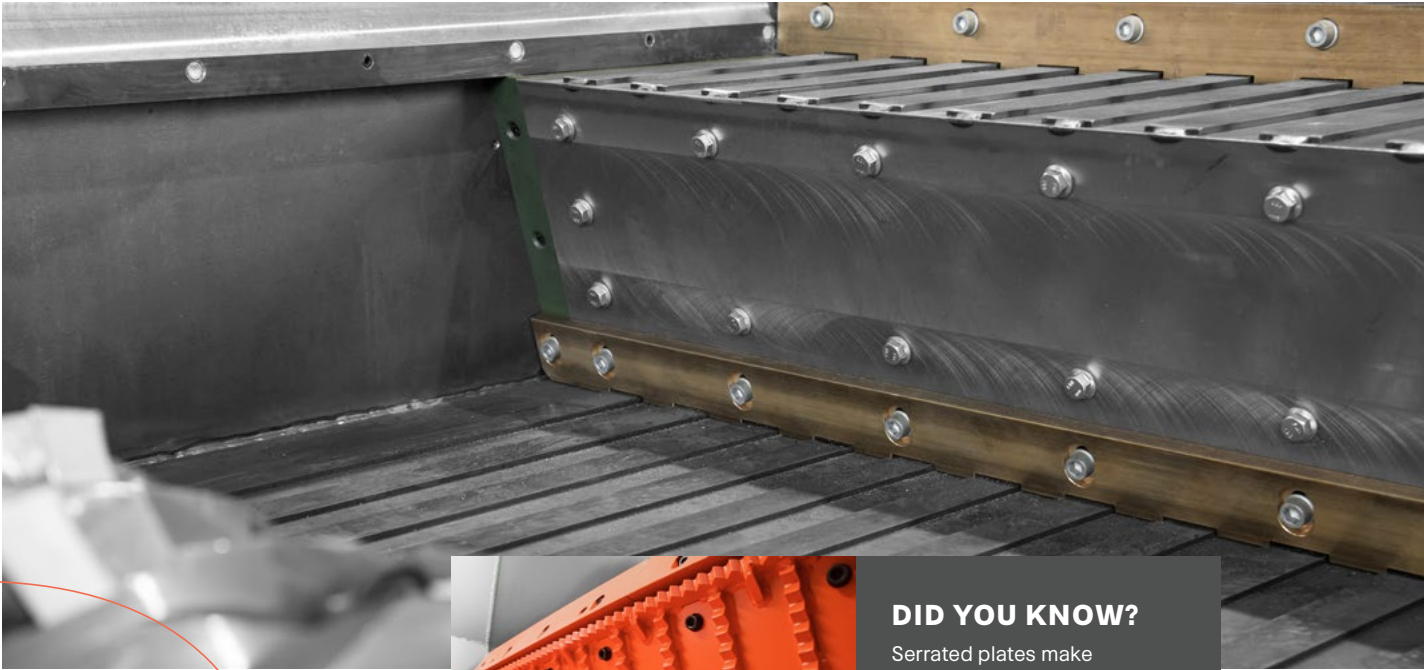
Direct drive with hydraulic motor



HÄGGLUNDS

RAM

What good is a razor-sharp rotor and many kW of drive power if the material to be shredded doesn't get to it in the first place? That's what the ram is for. Whether horizontal or curved - a perfectly adjusted ram significantly increases throughput.

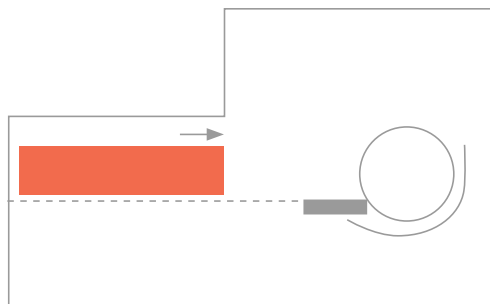


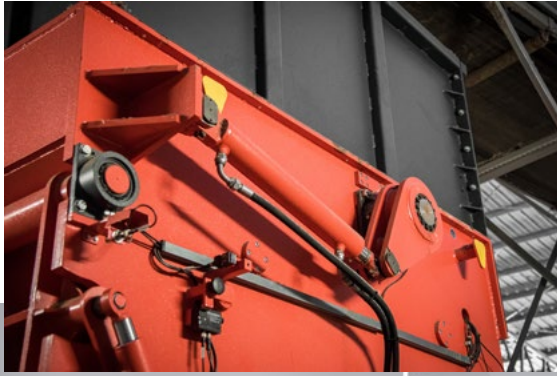
DID YOU KNOW?

Serrated plates make material feeding even more aggressive. They hold the material firmly so that the rotor can cut freely.

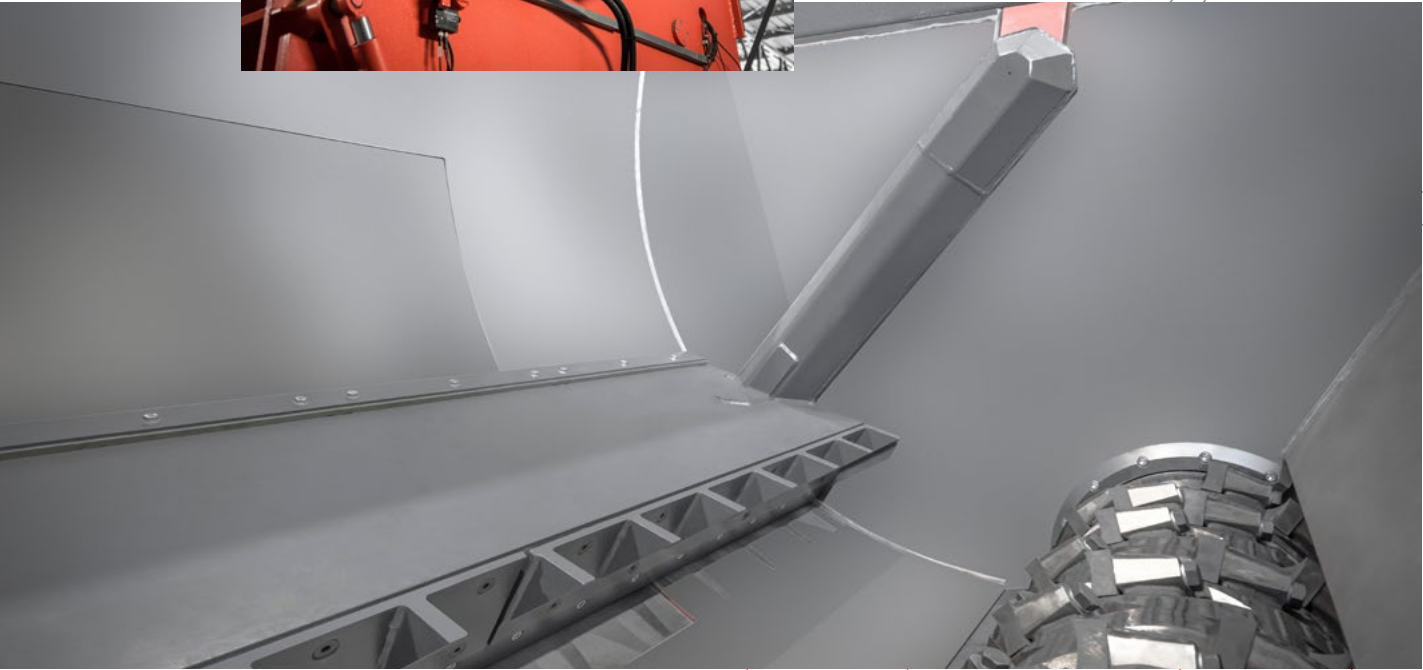
The ram uses hydraulic pressure to move horizontally forwards and backwards. The movements can be controlled automatically, cyclically, or manually. If required, this is load-dependent. It is precisely guided by brass guide rails or rollers so that it does not jam. A shock valve at the rear end of the slide also absorbs shocks, making the system even more robust.

Horizontal ram



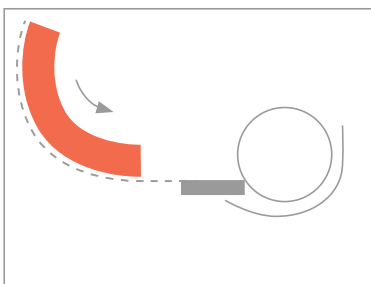


Hydraulically-moved swing ram with robust lever and swingarm bearing



The material feed by swing technology makes the shredder particularly compact, simplifies maintenance and allows a more aggressive material feed. Optionally, the swing arm can be equipped with an attachment, which further improves feeding.

Swing ram



MACHINE PORTFOLIO SHREDDERS

When it comes to diversity, no one can beat us. With approx. 1,200 machine solutions delivered per year, we rely on a comprehensive shredding portfolio consisting of single-shaft shredders, multi-shaft shredders, granulators and primary crushers. We always have one goal in mind: to build the right machine for our customer.



**ONE SIZE FITS ALL?
OFF-THE-SHELF MACHINES?
NOT AT WEIMA.**



SINGLE-SHAFT SHREDDERS

○ Economical compact machines with 260 mm rotor diameter



WL 4

260 mm
rotor diameter



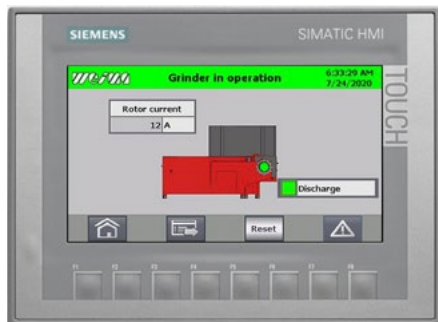
WLK 800

TECHNICAL HIGHLIGHTS

Intuitive operation

thanks to Siemens 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 Siemens or Rittal. Intuitive touch interfaces guarantee quick adjustments. Functions such as setting the ram cycle or stop ensure a high throughput. The built-in overload protection also prevents defects in the machine.

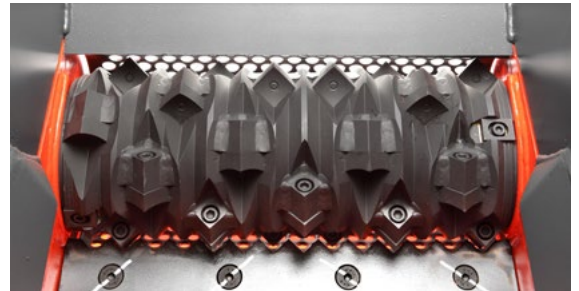


No material bridges

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 turned over 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 or veneer. 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. Cutting knives with 30 or 40 mm edge length are also reversible.

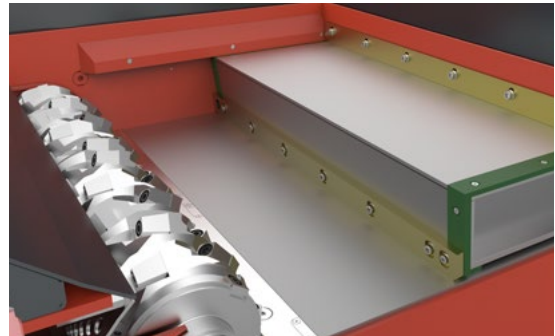




DURABLE ROTOR BEARINGS

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, of course, 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 shocks to the drawer, 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

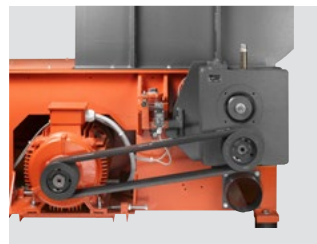
Vibration-damping machine feet ensure a secure footing and help to significantly reduce disruptive vibrations in the surrounding area. Since the machine does not have to be anchored to the ground first, installation is particularly flexible and convenient.



CLEAN DISCHARGE OF MATERIAL

by suction, screw or conveyor belt

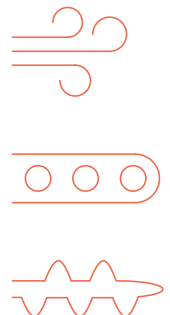
Depending on your needs and frame design (elevated machine with conveyor belt cutout or side spout), you have the option of discharging shredded material either by air suction, discharge screw or classic conveyor belt. With experience from many thousands of machines on the market, we are also experts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



WL 6 S
Integration in production line



WL 8
Wood shredding



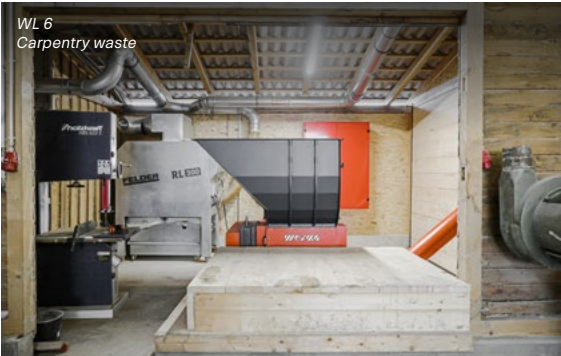
WL 4
Underfloor installation



WLK 800
With discharge conveyor belt



WL 6
Carpentry waste





TECHNICAL DATA AND MACHINE CONFIGURATION

● Technical data single-shaft shredder

	WL 600	WL 4	WLK 4	WL 6	WLK 800	WL 8
Rotor diameter [mm] ¹⁾	260	260	260	260	260	260
Rotor length [mm]	600	600	600	800	800	1,000
Rotor speed [rpm] ²⁾	80 - 125	80 - 125	80 - 125	80 - 125	80 - 125	80 - 125
Drive power [kW] ³⁾	15 - 18.5	11 - 18.5	18.5 - 22	15 - 22	22 - 37	22
Max. number of knives [pcs] ⁴⁾	14	28	28	42	42	54
Available knife sizes [mm]	40	40	40	40	40	40
Fraction size [mm]	10 - 40	10 - 40	15 - 40	10 - 40	15 - 80	10 - 40
Exhaust connection [mm]	160	160	-	200	-	200
Hopper opening [mm]	600 × 800	600 × 1,050	600 × 800	800 × 1,250	800 × 1,450	1,000 × 1,250
Length [mm]	1,805	2,045	2,045	2,045	2,590	2,045
Width [mm] ⁵⁾	1,118	1,190	1,313	1,540	1,745	1,740
Height [mm]	1,645	1,640	1,685	1,840	2,180	1,840
Weight [approx. kg]	1,100	1,300	1,700	1,700	2,800	2,200

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 shredder

● Standard ○ Optional – Not available

	WL 600	WL 4	WLK 4	WL 6	WLK 800	WL 8
Control cabinet with PLC control	●	●	●	●	●	●
MATERIAL FEED						
Horizontal ram	●	●	●	○	●	●
Segmented floor	–	○	○	○	●	○
Serrated ram	–	○	○	○	○ ¹⁾	○
Hold-down device	●	●	–	●	–	●
Fast hydraulics	–	○	○	○	●	○
Free-cutting hopper	–	○	○	○	●	○
DRIVE						
Electromechanical drive	●	●	●	●	●	●
WEIMA WAP gearbox	–	●	●	●	●	●
Transmission oil cooling	–	–	○	○	○	○
Hydraulic oil cooling	–	–	○	–	○	–
Hydrodynamic start-up clutch	–	–	–	–	●	–
CUTTING GEOMETRY						
V rotor	●	●	●	●	●	●
F rotor	–	–	○	–	○	–
Additional rotor knife row	–	○	○	○	○	○
Adjustable counter knife	–	–	●	–	●	–
Vautid rotor wear protection	–	–	○	–	○	–
Detached bearings	–	○	●	○	●	○
MATERIAL DISCHARGE						
Screw screen	●	●	●	●	–	●
Swivel down screen	–	–	–	–	●	–
Conveyor belt cutout	–	○	○	○	○	○
Exhaust connection	●	●	○	●	○	●
MAINTENANCE						
Vibration damping machine feet	●	●	●	●	●	●

1) Serrated plate

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

SINGLE-SHAFT SHREDDERS

Flexible machines with 370 mm rotor diameter



WLK6S

370 mm
rotor diameter



WLK 1500

TECHNICAL HIGHLIGHTS

Flexible control for changing material flows

WEIMA only requires one control panel to precisely control one or more machines including the conveyor system. The built-in Siemens PLC control is optimally adapted to the shredding process. Various slide controls and rotor settings can be conveniently adjusted to the desired application. All control cabinets are designed in-house and built in our German production facilities.



Perfect cutting gap thanks to adjustable counter knives

The interaction between the cutting knife and the counter knife has a significant influence on the material throughput and the shredding result. To maintain a perfect cutting gap even with natural wear, counter-knives of this series are manually adjustable as well as reversible. Optimum cutting geometry keeps shredding energy-efficient, minimizes wear costs, and significantly extends the service life of the knife.



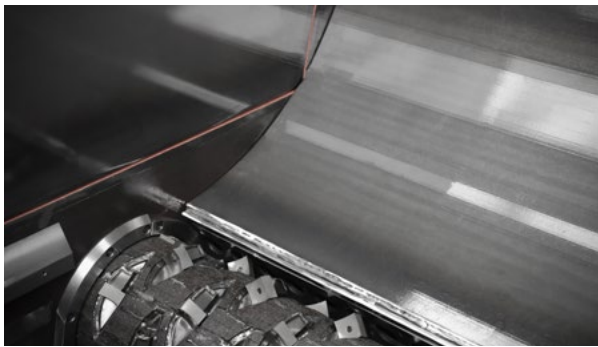
Precise cut with F rotor for flexible materials

The F rotor impresses with its controlled infeed behavior and its precise cutting geometry - especially with flexible materials such as films, filaments or veneer. It can be equipped with either bolted-on or welded knife holders. In addition, a robust wear protection made of Vautid is possible for more abrasive materials.



Universally applicable V rotor for demanding applications

Many of our customers describe the profiled V rotor as a best in class for shredding. The material intake is optimally designed with two rows of knives. The V rotor stands for high throughput rates, low energy consumption, reduced thermal stress and low wear costs.



Better material absorption for particularly large pieces

Instead of classic angled hoppers, WEIMA has relied on a design that is rounded along the front side for many years. This has two decisive advantages: the feed volume is increased. In addition, disruptive material bridges are effectively avoided - these occur especially with large material pieces. In this case, the shredder cuts itself free.



CONTROLLED MATERIAL FEEDING

by ram with serrated plate and
segmented floor

The ram feed can be controlled manually, cyclically, or load-dependently. Depending on the application, it makes sense to supplement the classic material ram with more technical options. To prevent possible jamming and improve its guidance, the ram can be guided on rollers. In addition, WEIMA recommends the use of a segmented floor - especially for very thin materials.



Offset rotor bearings

Protect against dust and foreign matter

The shredding of particularly resistant materials requires correspondingly robust bearings that are easy to maintain. WEIMA uses long-life, spherical roller bearings, whose stable design and offset mounting from the machine frame protects against impacts and uncontrolled power transmission. Their additional shaft seal ring effectively helps against the intrusion of contaminants or dust.

TECHNICAL HIGHLIGHTS



Three screen configurations for optimum accessibility

Single-shaft shredders come standard with a fixed screw screen. In addition, there are hydraulically downward-swiveling screens as well as upward-opening screen baskets. The ideal design depends on the application. In general, movable screens provide better access to the rotor and thus facilitate maintenance.

MORE SPACE FOR MATERIAL DISCHARGE

by raising the machine frame

If you need more space for discharge, we recommend the optional increase of the machine frame by up to 200 mm. This makes your production even more flexible.

Easy integration of conveyor technology thanks to generous belt cutout

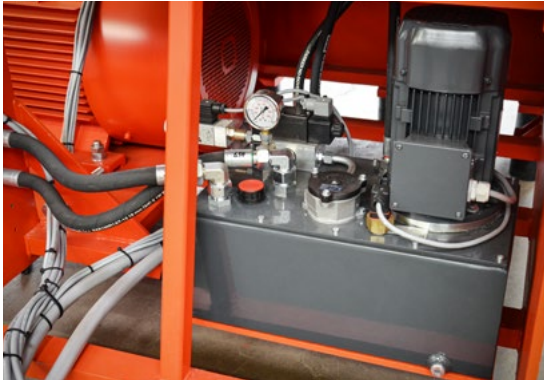
Machines with a conveyor belt cutout make material discharge clean and efficient – ideal for production lines. For example, conveyor belts up to 600 mm wide can be seamlessly integrated. Alternatively, material can be discharged via suction or screw conveyors.

Robust electromechanical drive

with in-house built WAP gearbox

For most applications, electromechanical drives are the classic choice because they are easy to maintain and robust. WEIMA's special feature: we manufacture our own gearboxes that are specially designed for shredding operations. Torque monitoring and shock-absorbing vibration dampers round off the package. A hydrodynamic start-up clutch is available as an option for further protection of the machine. For even higher requirements, we recommend the use of a hydraulic drive (WLK 1000, WLK 1500, WLK 2000).





**Even higher throughputs
with turbo hydraulics**

The ram of a shredder is moved back and forth hydraulically. With turbo hydraulics, this happens even faster. For continuous operation, additional oil cooling and a length measuring systems are available upon request.

**Vibration damping
machine feet
for less vibration in the building**

Thanks to compact feet made of hard rubber, there is no need to anchor the machine to the plant floor. The installation remains flexible. More importantly, disruptive vibrations that negatively affect the surrounding area are effectively avoided.

SINGLE-SHAFT SHREDDERS IN ACTION



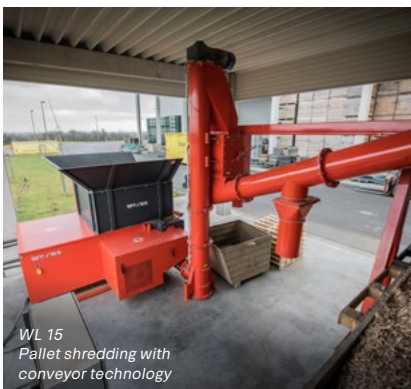
*WLK 15
Automotive Interior Recycling*



*WLK 6 S
Plastic waste*



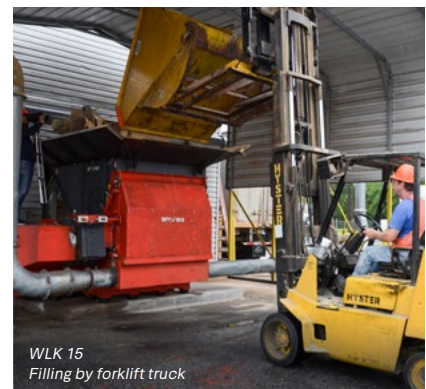
*WLK 10
Paper recycling*



*WL 15
Pallet shredding with
conveyor technology*



*WLK 1500
Two-stage shredding with granulator*



*WLK 15
Filling by forklift truck*



TECHNICAL DATA AND MACHINE CONFIGURATION

Technical data single-shaft shredder

	WL 6 S	WLK 6 S	WL 10	WLK 10	WLK 1000	WL 15	WLK 15	WLK 1500	WL 20	WLK 20	WLK 2000
Rotor diameter [mm] ¹⁾	370	370	370	370	370	370	370	370	370	370	370
Rotor length [mm]	800	800	1.000	1.000	1.000	1.500	1.500	1.500	2.000	2.000	2.000
Rotor speed [rpm] ²⁾	80 - 125	80 - 125	80 - 125	80 - 125	80 - 125	80 - 125	80 - 125	80 - 125	80 - 125	80 - 125	80 - 125
Drive power [kW] ³⁾	22 - 37	30 - 55	30 - 45	30 - 75	37 - 75	37 - 75	55 - 90	75 - 90	55 - 110	110	90 - 110
Max. number of knives [pcs] ⁴⁾	42	42	52	52	78	82	82	123	110	110	170
Available knife sizes [mm]	40	40 60	40 60	40 60	40 60	40 60	40 60	40 60	40 60	40 60	40 60
Particle size [mm]	15 - 100	15 - 100	15 - 100	15 - 100	15 - 100	15 - 100	15 - 100	15 - 100	15 - 100	15 - 100	15 - 100
Exhaust connection [mm]	200	-	200	-	-	250	-	-	250	-	-
Hopper opening [mm]	800 x 1.200	800 x 1.200	1.000 x 1.200	1.000 x 1.200	1.000 x 1.640	1.500 x 1.530	1.500 x 1.500	1.500 x 1.890	2.000 x 1.500	2.000 x 1.500	2.000 x 1.890
Length [mm]	2.100	2.680	2.100	2.535	2.905	2.700	3.290	3.400	2.700	3.250	4.350
Width [mm] ⁵⁾	1.700	1.750	1.890	2.185	2.200	2.420	2.645	2.800	3.100	3.290	3.335
Height [mm]	1.730	2.080	1.730	2.100	2.130	1.730	2.100	2.130	1.930	2.080	2.130
Weight [approx. kg]	2.600	2.800	3.000	4.100	3.800	4.800	6.800	6.400	5.800	9.000	9.000

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 shredder

● Standard ○ Optional – Not available

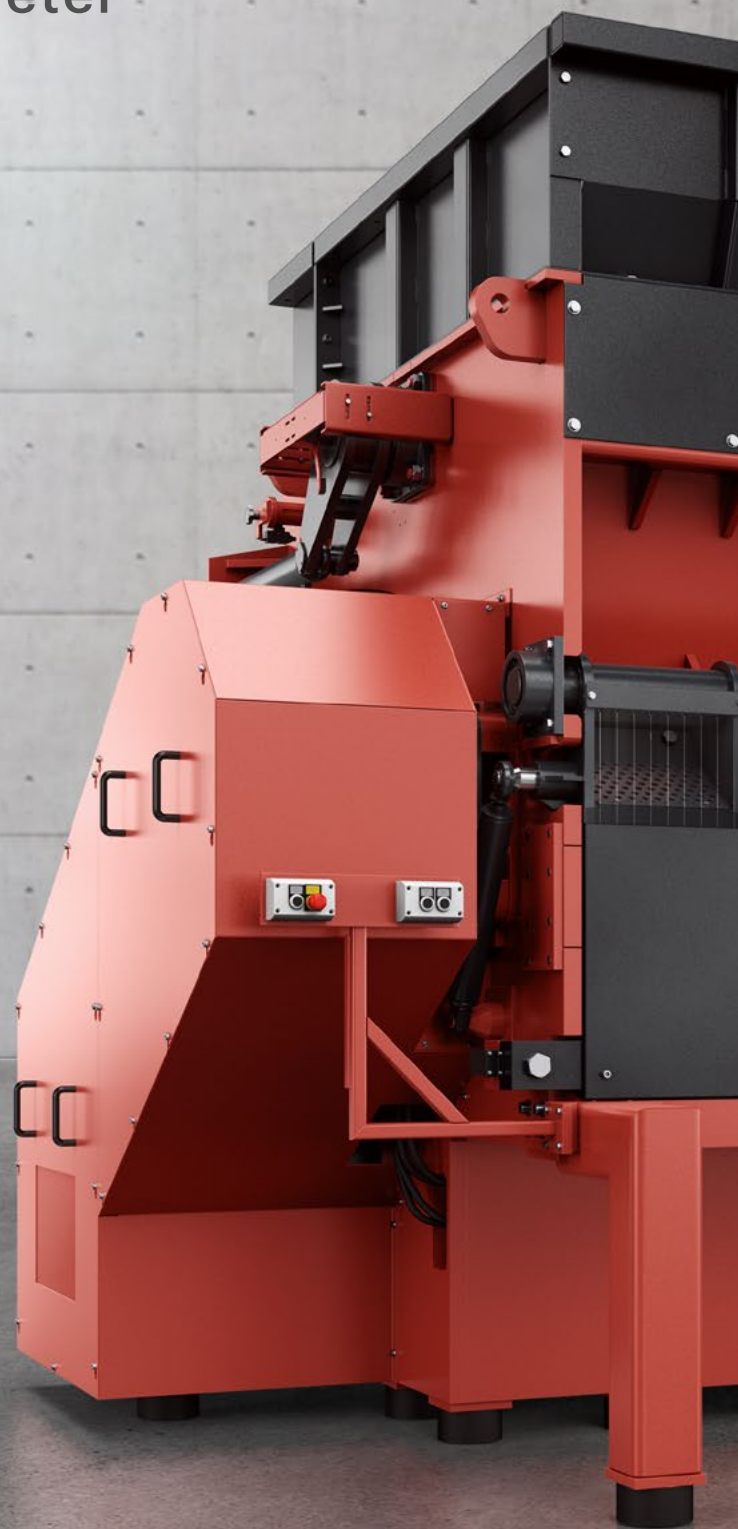
	WL6 S	WLK 6 S	WL 10	WLK 10	WLK 1000	WL 15	WLK 15	WLK 1500	WL 20	WLK 20	WLK 2000
Control cabinet with PLC control	●	●	●	●	●	●	●	●	●	●	●
MATERIAL FEED											
Horizontal ram	●	●	●	●	●	●	●	●	●	●	●
Segmented floor	○	○	○	○	●	○	○	●	○	○	●
Serrated ram	○	○ ¹⁾	○	○ ¹⁾	○ ¹⁾	○	○ ¹⁾	○ ¹⁾	○	○ ¹⁾	○ ¹⁾
Hold-down device	–	–	–	○	○	○	○	○	○	○	○
Ram extension	–	–	–	–	–	–	○	–	–	○	–
Fast hydraulics	○	●	○	●	●	○	●	●	○	●	●
Free-cutting hopper	–	–	–	○	●	–	○	●	–	○	●
DRIVE											
Electromechanical drive	●	●	●	●	●	●	●	●	●	●	●
Hydraulic drive	–	–	–	–	○	–	○	○	–	○	○
High-torque drive	–	–	–	–	–	–	–	○	○	–	○
WEIMA WAP gearbox	●	●	●	●	●	●	●	●	●	●	●
Transmission oil cooling	○	○	○	○	○	○	○	○	○	○	○
Hydraulic oil cooling	○	○	○	○	○	○	○	○	○	○	○
Hydrodynamic start-up clutch	●	●	●	●	●	●	●	●	●	●	●
CUTTING GEOMETRY											
V rotor	●	●	●	●	●	●	●	●	●	●	●
F rotor	–	○	–	○	○	–	○	○	–	–	○
Special rotor	–	–	–	–	○	–	–	○	–	–	○
Additional rotor knife row	○	○	○	○	○	○	○	○	○	○	○
Adjustable counter knife	–	●	–	●	●	–	●	●	–	●	●
Vautid rotor wear protection	–	○	–	○	○	–	○	○	–	○	○
Rotor cooling	–	○	–	○	○	○	○	–	○	○	–
Detached bearings	○	●	○	●	●	○	●	●	○	●	●
MATERIAL DISCHARGE											
Screw screen	●	–	●	–	–	●	–	–	●	–	–
Lift-up screen	–	●	–	●	–	–	●	–	–	●	–
Swivel down screen	–	–	–	–	●	–	–	●	–	–	●
Conveyor belt cutout	○	●	○	●	●	○	●	●	○	●	●
Exhaust connection	●	–	●	–	–	●	–	–	●	–	–
Vibration damping machine feet	●	●	●	●	●	●	●	●	●	●	●

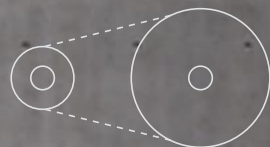
1) Serrated plate

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

W5 SERIES

- Maintenance-friendly all-rounders with 500 mm rotor diameter

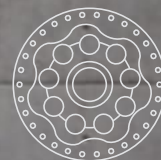




Electromechanical drive



High-torque drive



Direct drive with hydraulic motor



W5.18

TECHNICAL HIGHLIGHTS



Master the most difficult materials effortlessly
with the universal V rotor

Measuring 500 mm in diameter and up to 2,200 mm in length, the V rotor of the W5 series was designed for ambitious throughput targets with high flexibility. Thanks to its innovative design, even large start-up lumps, hollow bins and very voluminous parts pose no problem.



Controlled feed and precise cut
with proven F rotor

WEIMA is known for its precise cutting geometries.

The F rotor is a prime example. Its milling and special knife arrangement are ideal for shredding flexible materials such as fibers and films. For extreme applications and contaminated material streams, we recommend an additional Vautid wear guard to protect the rotor.



Easy machine operation
thanks to PLC control with large touch panel

WEIMA's latest shredder generation also uses only the latest technology in a compact space for the control cabinet. The shredder, as well as the peripherals – including conveyor belts, separation technology and secondary shredders – can be controlled centrally with the Siemens PLC control system. Material flows can thus be processed in an energy-efficient manner. WEIMA optionally offers a handy remote control for controlling the machine for added flexibility, especially during maintenance.

Optimum cutting geometry
thanks to adjustable counter blades

To ensure that the cutting gap is always perfect, even with wear, the counter knives of the W5 series can be quickly adjusted and turned from the outside. This leads to a constantly high throughput rate and increases the knife service life.





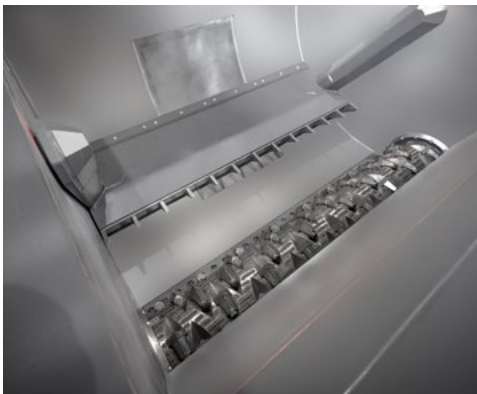
Convenient maintenance and optimum rotor access thanks to generously sized inspection flap

The most striking feature of the W5 machines is certainly the built-in inspection flap. As soon as the swing ram is secured in its upper starting position, the wide access from the rear can be opened hydraulically. You are now in the middle of the cutting chamber and have plenty of space to remove foreign matter from the rotor or to carry out maintenance work at a comfortable working height.

Optimized material feed through innovative swing ram

The W series from WEIMA is characterized by its distinctive swing ram and correspondingly high ram speed, which is integrated in the cutting chamber to save space and requires extremely low maintenance. Material already slides to the rotor by gravity and is then continuously or cyclically pressed against it by the hydraulically movable swing ram.

For even more aggressive feeding, the ram can optionally be equipped with an additional pressing feature.



LIFT-UP SCREEN BASKET for maintenance-friendly access

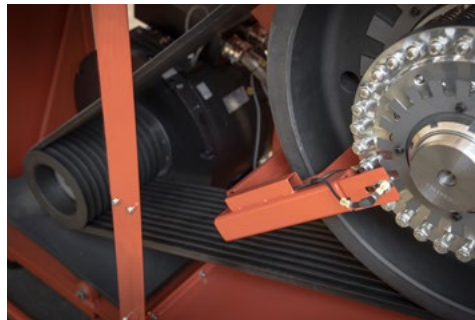
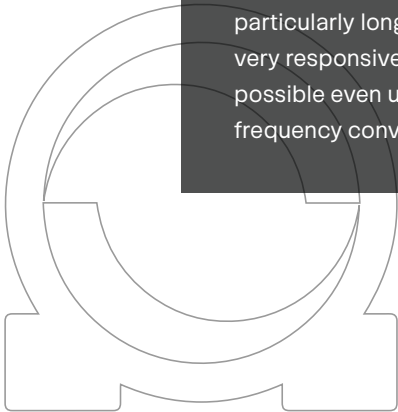
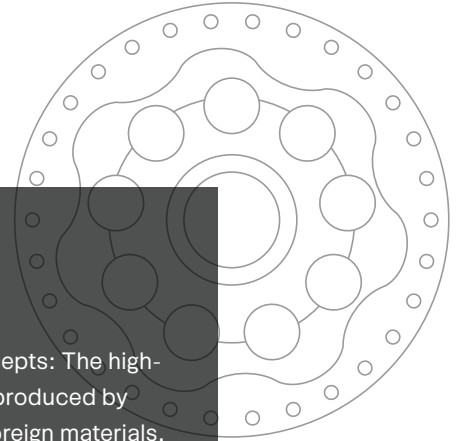
The choice of the appropriate screen is closely related to the desired shredding result. For maximum flexibility, the segments can therefore be exchanged individually. Different perforated screen diameters and screen variants such as the innovative kidney screen are possible. The entire screen basket can be opened hydraulically at the push of a button.

TECHNICAL HIGHLIGHTS

HIGH-TORQUE OR HYDRAULIC DRIVE?

You have the choice

Depending on the application, we offer two heavy duty drive concepts: The high-torque drive with a high-torque, multi-pole synchronous motor is produced by Baumüller in Germany and is distinguished by its insensitivity to foreign materials. Without a gearbox, the drive withstands shocks and vibrations and thus has a particularly long service life. The Häggglunds / Bosch Rexroth hydraulic actuator is very responsive – at a low connected load. Stopping, starting, and reversing is possible even under full load. Speed and torque are infinitely variable without a frequency converter.



Robust technology and machine frames

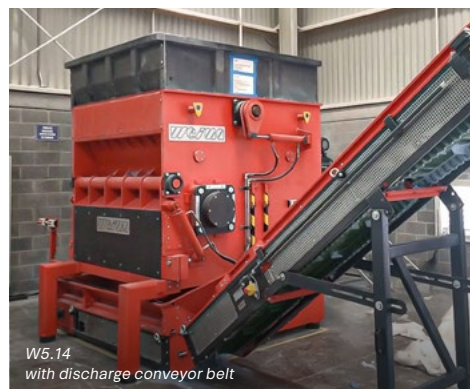
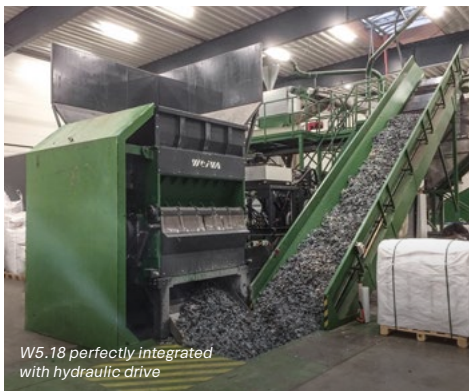
Made in Germany

To minimize vibration and wear, WEIMA relies on a machine wall thickness of 40 mm as part of an optimized frame design. It also depends on the large rotor diameter of 500 mm. Matching cutting blades are available in edge lengths of 40, 60 and 80 mm. Vibration-absorbing machine feet also come standard.

Ready for fast material transport thanks to simple integration of conveyor technology

The feed opening of the W5 machines has been designed to be particularly generous. The low loading edge is ideal for direct filling via forklift or wheel loader. Discharging material is also easy. The wide conveyor belt cutout allows for large quantities of shredded material to be transported quickly and cleanly.

W5 SERIES IN ACTION





TECHNICAL DATA AND MACHINE CONFIGURATION

Technical data W5 series

	W5,14	W5,18	W5,22
Rotor diameter [mm] ¹⁾	500	500	500
Rotor length [mm]	1,400	1,800	2,200
Rotor speed [rpm] ²⁾	50 - 200	50 - 200	50 - 200
Drive power [kW] ³⁾	90 - 280	90 - 280	90 - 280
Max. number of knives [pcs] ⁴⁾	148	188	218
Available knife sizes [mm]	40 60 80	40 60 80	40 60 80
Particle size [mm]	20 - 100	20 - 100	20 - 100
Hopper opening [mm]	1,400 × 2,000	1,800 × 2,000	2,200 × 2,000
Length [mm]	2,470	2,470	2,470
Width [mm] ⁵⁾	2,450	2,800	3,150
Height [mm]	3,000	3,000	3,000
Weight [approx. kg]	9,500	10,500	11,500
Wall thickness [mm]	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 shredder

● Standard ○ Optional — Not available

	W5.14	W5.18	W5.22
Control cabinet with PLC control	●	●	●
MATERIAL FEED			
Swing ram	●	●	●
Segmented edge swing ram	○	○	○
Turbo hydraulics	●	●	●
DRIVE			
Electromechanical drive	●	●	●
Hydraulic drive	○	○	○
High-torque drive	○	○	○
WEIMA WAP gearbox	●	●	●
Transmission oil cooling	○	○	○
Hydraulic oil cooling	○	○	○
Hydrodynamic start-up clutch	●	●	●
CUTTING GEOMETRY			
V rotor	●	●	●
F rotor	○	○	○
Special rotor	○	○	○
Adjustable counter knife	●	●	●
Vautid rotor wear protection	○	○	○
Rotor cooling	○	○	○
Detached bearings	●	●	●
MATERIAL DISCHARGE			
Lift-up screen	●	●	●
Conveyor belt cutout	●	●	●
MAINTENANCE			
Inspection flap	●	●	●
Vibration damping machine feet	●	●	●

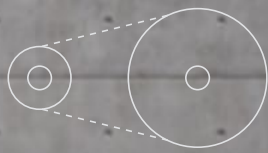
Other variations, special equipment, and technical modifications are available on request.

S5 AND S7 SERIES

- For demanding throughput rates with 500 or 700 mm rotor diameter



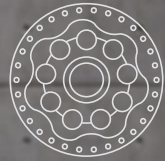
S5.20 lift-up



Electromechanical drive



High-torque drive



Direct drive with hydraulic motor



S7.25 lift-up

TECHNICAL HIGHLIGHTS

Trouble-free shredding thanks to PLC control with automatic reversing system

With just one central, high-quality Siemens PLC control cabinet, you control not only the shredder but also the entire conveyor system. If required, you can also control downstream secondary shredders within the production line. Large touch displays facilitate operation. An automatic reversing system ensures a trouble-free shredding process.



Safe shredding of large-volume parts with extended hopper attachment

Individual hopper extensions and enclosures with plastic curtains are available to prevent materials from being thrown from the hopper. In the heavy duty version, the feed hopper is double-walled and thus effectively contributes to sound insulation.



Achieve demanding throughput targets with Heavy Duty V rotor

While the profiled V rotors of the S5 series have a diameter of 500 mm, those of the S7 series even reach 700 mm with up to three rows of knives. All sizes are universally applicable and guarantee maximum throughput rates at low wear costs. The cutting knives can be reversed several times and are available in sizes of 40, 60, 80 and 100 mm.

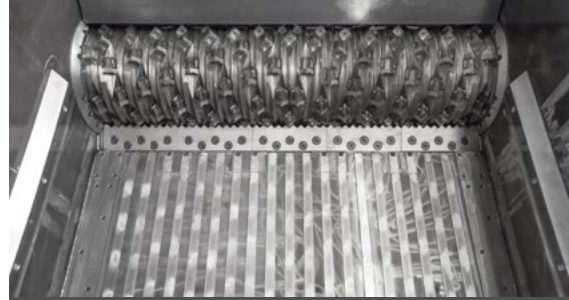


Sharp cuts guaranteed thanks to adjustable counter knives

A perfect cutting gap with sharp knives keeps the material throughput at a constantly high level. For this reason, WEIMA rotor and counter knives can not only be turned - the counter knives are also manually adjustable.

Highest precision with flexible materials
with F rotor including Vautid wear protection

The F rotors of the S5 and S7 series were designed for extreme demands. An optional protective layer of Vautid counteracts increased wear. Optional rotor cooling is available for particularly temperature-sensitive materials.



PRECISE MATERIAL FEEDING

due to segmented floor

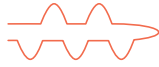
Particularly when shredding very thin materials such as films or fibers, it is recommended to use a segmented floor, which guides the ram even more precisely and prevents jamming. The shock valve at the end of the hydraulic ram also absorbs shocks to the ram, thus reducing wear.

Protected rotor bearings thanks to offset mounting from the frame

WEIMA shredders are known for their durability. This is also due to the spherical roller bearings used for our rotors. The bearings are mounted at a distance from the machine and protect against contaminants and uncontrolled forces acting on the rotor. It also facilitates regular maintenance.



TECHNICAL HIGHLIGHTS



Fast material discharge with screw conveyor or conveyor belt

With such high throughput rates, the removal of shredded material must also be ensured. For this reason, the machines of both series have a 600 mm wide conveyor belt cutout.

Powerful drive options Hydraulic drive or electromechanical drive

Hydraulic drives from Hägglunds / Bosch Rexroth are insensitive to foreign material and are therefore extremely robust. Speed and torque can be adjusted without causing current peaks. In this way, high torques are achieved at low kW output. The speed can be adjusted by means of a variable displacement pump. Alternatively, a conventional electromechanical drive with WEIMA WAP gearbox can be installed.



MAINTENANCE-FRIENDLY ROTOR ACCESS

thanks to upward-swiveling screen basket

The screen baskets of the S5 and S7 series can be swung upwards. This allows free access to the rotor for convenient maintenance without components getting in the way. Screens can be changed just as easily. The screen basket can be equipped with round hole screens in various diameters, zigzag, honeycomb, and kidney screens – depending on the desired shredding result.

Less vibration with flexible set up

with hard rubber feet

Despite their many tons of weight, shredders in these series feature practical machine feet made of hard rubber. They have a vibration-dampening effect and reduce vibrations in the immediate vicinity.



Stronger. Wider. Tougher.
with Heavy Duty options

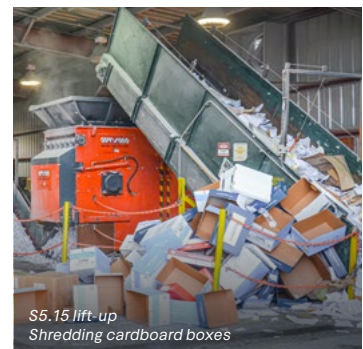
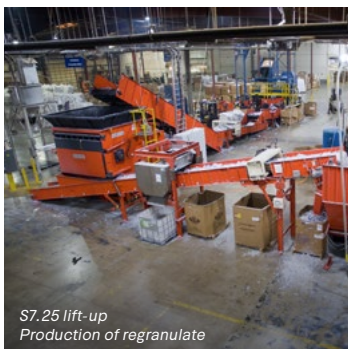
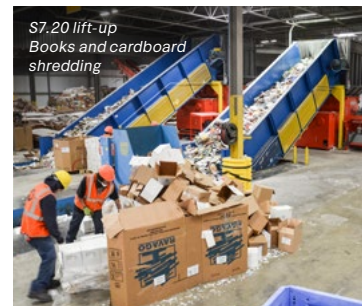
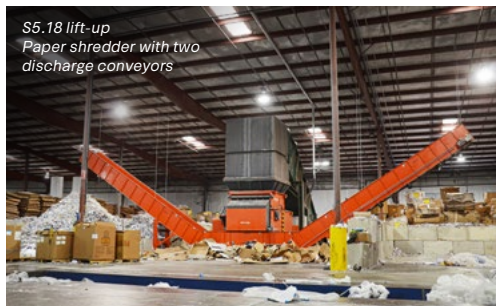
The higher the requirements, the more robustly a shredder must be built. For this reason, we use high-quality steel sidewalls with 40 mm wall thickness for the S5, W5 and S7 series. Together with the extra large rotors as well as suitable drives, WEIMA machines are ready for anything.

Faster ram movements for higher throughputs

With the help of turbo hydraulics, the ram feeds the material to be shredded to the rotor much faster. This increases the throughput of your machine.



S5 SERIES AND S7 SERIES IN ACTION





TECHNICAL DATA AND MACHINE CONFIGURATION

Technical data S5 series and S7 series

	S5.15 lift-up	S5.20 lift-up	S5.25 lift-up	S7.15 lift-up	S7.20 lift-up	S7.25 lift-up	S7.30 lift-up
Rotor diameter [mm] ¹⁾	500	500	500	700	700	700	700
Rotor length [mm]	1,500	2,000	2,500	1,500	2,000	2,500	3,000
Rotor speed [rpm] ²⁾	80 - 120	80 - 120	80 - 120	80 - 120	80 - 120	80 - 120	80 - 120
Drive power [kW] ³⁾	75 - 200	90 - 200	110 - 200	75 - 250	90 - 250	110 - 250	110 - 250
Max. number of knives [pcs] ⁴⁾	164	223	280	164	220	246	330
Available knife sizes [mm]	40 60	40 60	40 60	40 60 80 100	40 60 80 100	40 60 80 100	40 60 80 100
Particle size [mm]	15 - 100	15 - 100	15 - 100	15 - 100	15 - 100	15 - 100	15 - 100
Hopper opening [mm]	1,500 × 1,880	2,000 × 1,880	2,500 × 1,880	1,500 × 1,930	2,000 × 1,930	2,500 × 1,930	3,000 × 1,930
Length [mm]	3,800	3,800	4,130	3,750	4,230	3,865	3,981
Width [mm] ⁵⁾	3,050	3,500	3,745	3,000	3,750	3,750	4,285
Height [mm]	2,815	2,815	2,815	2,915	2,950	2,950	3,015
Weight [approx. kg]	15,000	18,500	24,500	17,500	21,000	30,000	34,000
Wall thickness [mm]	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 S5 series and S7 series

● Standard ○ Optional – Not available

	S5.15 lift-up	S5.20 lift-up	S5.25 lift-up	S7.15 lift-up	S7.20 lift-up	S7.25 lift-up	S7.30 lift-up
Control cabinet with PLC control	●	●	●	●	●	●	●
MATERIAL FEED							
Horizontal ram	●	●	●	●	●	●	●
Segmented floor	○	○	○	○	○	○	○
Serrated edge ram	○ ¹⁾	○ ¹⁾	○ ¹⁾	○ ¹⁾	○ ¹⁾	○ ¹⁾	○ ¹⁾
Ram on rollers	○	○	○	○	○	○	○
Ram extension	○	○	○	○	○	○	○
Turbo hydraulics	●	●	●	●	●	●	●
Free cutting hopper	○	○	○	○	○	○	○
DRIVE							
Electromechanical drive	●	●	●	●	●	●	●
Hydraulic drive	○	○	○	○	○	○	○
High-torque drive	○	○	○	○	○	○	○
WEIMA WAP gearbox	●	●	●	●	●	●	●
Transmission oil cooling	○	○	○	○	○	○	○
Hydraulic oil cooling	●	●	●	●	●	●	●
Hydrodynamic start-up clutch	●	●	●	●	●	●	●
CUTTING GEOMETRY							
V rotor	●	●	●	●	●	●	●
F rotor	○	○	○	○	○	○	○
Special rotor	○	○	○	–	–	–	–
Additional rotor knife row	○	○	○	○	○	○	○
Adjustable counter knife	●	●	●	●	●	●	●
Vautid rotor wear protection	○	○	○	○	○	○	○
Rotor cooling	○	○	○	○	○	○	○
Detached bearings	●	●	●	●	●	●	●
MATERIAL DISCHARGE							
Lift-up screen	●	●	●	●	●	●	●
Conveyor belt cutout	●	●	●	●	●	●	●
Vibration damping machine feet	●	●	●	●	●	●	●

1) Serrated plate

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

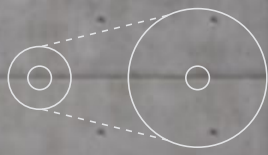
SINGLE-SHAFT SHREDDERS

- High-end production machines with 800 mm rotor diameter



PreCut 3000





Electromechanical drive



High-torque drive



Direct drive with hydraulic motor



PowerLine 3000



FineCut 3000

TECHNICAL HIGHLIGHTS



Flexible adjustment of cutting parameters with Siemens S7 PLC control

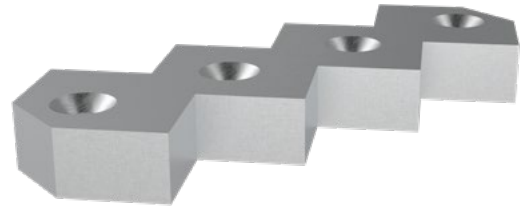
We manufacture our control cabinets ourselves in our German factories, using only brand-name components. With the large touch display, you have all important data and settings at your fingertips. The flexible adjustment of parameters such as the rotor speed or the ram movement is thus easily possible.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

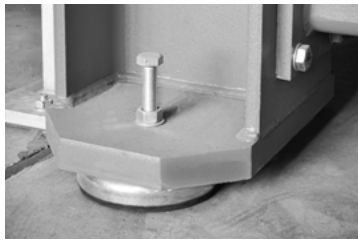
developed for pre-shredding

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?

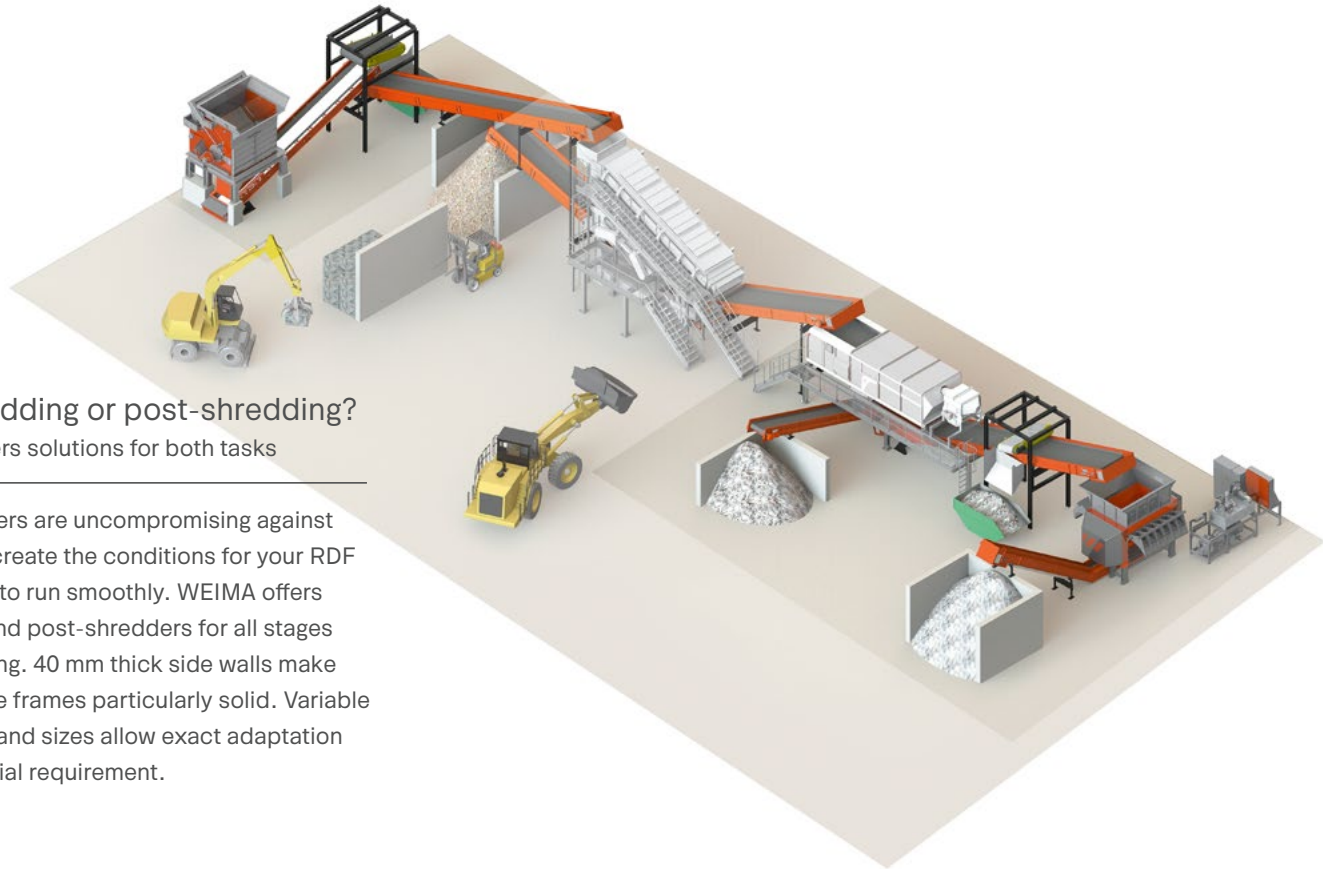
You have the choice: While our primary shredders are exclusively equipped with large Häggglunds hydraulic drives, high-torque drives from Baumüller and conventional electromechanical drives are also available for all other machines for universal and secondary shredding. Your individual application always 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 × 2,200	2,500 × 2,000	3,000 × 2,200	1,800 × 1,500	1,800 × 2,000	1,800 × 2,500	1,800 × 3,000	1,260 × 1,500	1,260 × 2,000	1,260 × 2,500	1,600 × 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.

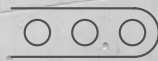
CONNECTIVITY

The demands on modern shredding plants are continuously increasing. Industrial shredders play a central role in the disposal and recycling process. They are the link between sorting and further material processing. These shredders are inconspicuous on the outside and, above all, robustly built. On the inside there are high-tech electronic controls that are managed by the advanced control panel.

Material feed >



Forklift | wheel loader



Conveyor belt



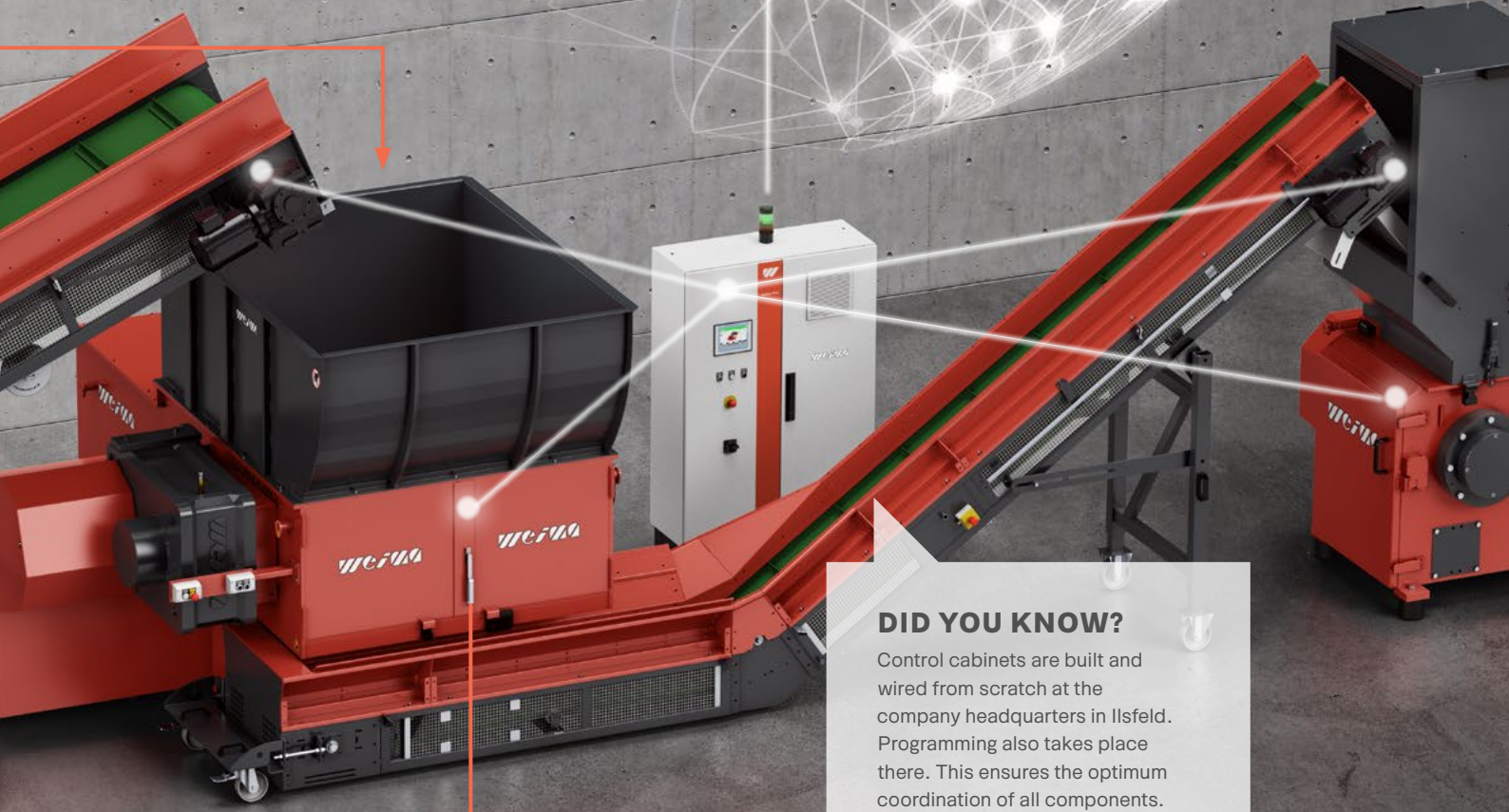
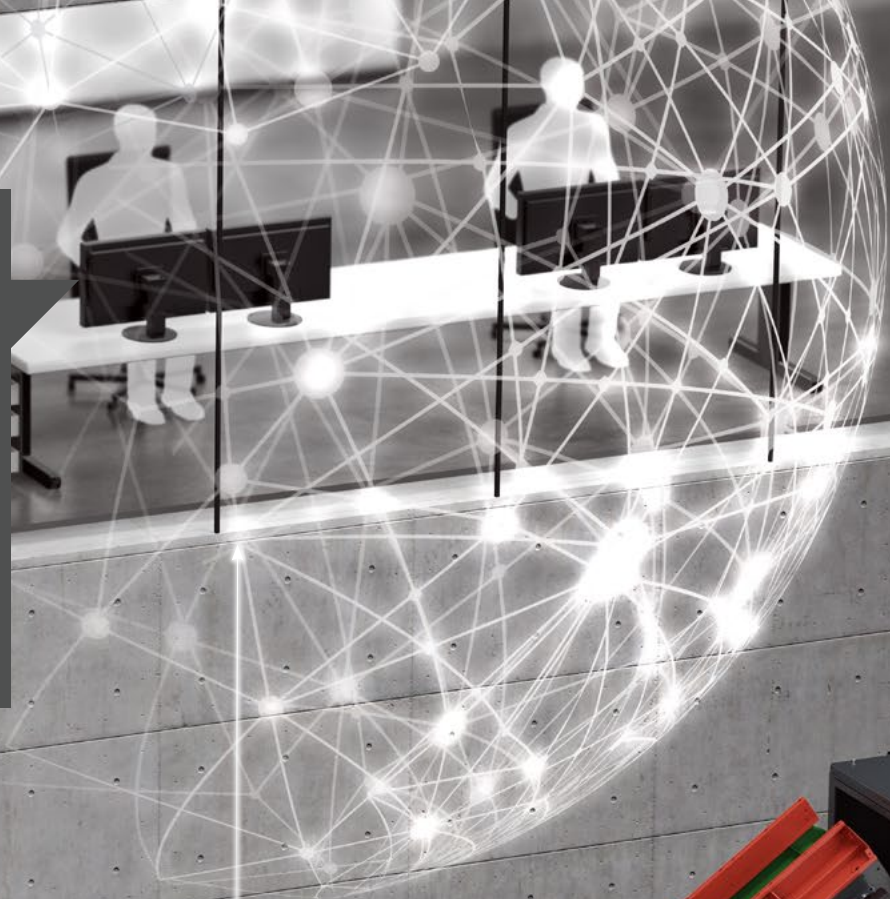
Manual



Customized conveying technology

To make the material flow as efficient and convenient as possible, we have been working with our partners to develop the optimum conveying solution for every application. In doing so, we can draw on a wide range of technologies and plenty of practical experience. WEIMA shredders are capable of load-dependent control of drive power, speed, or slide speed. When incoming material flows pause, the shredder also automatically switches to standby mode.

All information of a plant is collected centrally and can be monitored digitally. The integrated control system regulates not only the performance of the shredder, but also the peripherals. This includes extraction, metal detectors and secondary shredders for subsequent production steps. All process data is available for evaluation during the next maintenance.



DID YOU KNOW?

Control cabinets are built and wired from scratch at the company headquarters in Ilsfeld. Programming also takes place there. This ensures the optimum coordination of all components.

Material discharge >



Suction



Conveyor belt



Screw conveyor



YOU CAN RELY ON US

“Wherever your production takes place – highly qualified service technicians from WEIMA are always there for you. We offer on site visits, an over-the-phone service hotline, or e-mail support. You can count on competent support – from installation, inspection and maintenance, to repair of your equipment.”

*Davor Rebic,
Field Technician at WEIMA*

WEIMA CUSTOMER SUPPORT AND SERVICES

Customer proximity is the decisive factor for successful cooperation. For this reason, WEIMA invests in regional service centers. Just recently, two new locations were opened in India and China.

DID YOU KNOW?

More than **70 employees** worldwide take care of service matters. Of these, over 25 technicians are constantly on the road to commission or service the next machine.



Trainings

When you're well trained, you can maximize the full potential of your machine. Our service technicians usually accompany many projects during the development phase, which means they are immediately familiar with your application. We would like to pass on this combined knowledge to you and your employees. We set up the machine and commission the system together.

Our wide range of training courses is aimed at both beginners and experts. WEIMA is able to impart product know-how in a sustainable and professional manner thanks to experienced instructors, optimally equipped conference rooms, and hands-on training directly at the shredding or compacting plant.

WEIMA's training centers at the main location in Ilsfeld, and at our subsidiary WEIMA America in the USA, allow you to get to know your machine under optimal conditions and to further supplement your expertise.



We've got your back.

FIRST-CLASS QUALITY FROM SECOND-HAND MACHINERY



With used shredders, briquette presses, and drainage presses from WEIMA, you play it safe. Second-hand machinery is refurbished and comes with original WEIMA parts. The special thing about it: As with the purchase of a new machine, the extensive range of training courses, function upgrades and services is available to you. You can also rely on our team of experts to answer all your questions when selling your used WEIMA.

 **SERVICE** WE'VE GOT YOUR BACK



MAINTENANCE AND REPAIR



There's no such thing as can't. WEIMA service technicians are guaranteed to get everything running again professionally. They know WEIMA machines like no one else. Due to low turnover and their tenure with the company, they have an irreplaceable wealth of experience and expertise. Regular maintenance ensures safe and reliable production, saving time and money. Documenting maintenance according to manufacturer specifications also increases the resale value and service life of your plant. You can also plan your expenses and save operating costs thanks to optimally adjusted components.



ORIGINAL PARTS PAY OFF TWICE!

Your investment in a machine from us should also pay off in the long term. Original parts from WEIMA help you to achieve this. With parts tailored to your product, you can shred or compress safely, reliably, and efficiently. You can rely on our worldwide logistics network – and above all on the guaranteed quality of the mechanical spare parts from German production.

We make no compromises when it comes to hydraulic and electrical components. For this reason, we only use well-known manufacturers such as Bosch Rexroth, Siemens, or Eaton Möller. Since we also produce our robust control cabinets ourselves, you benefit from particularly fast availability of electronic components.

DID YOU KNOW?

If you register your machine, you can secure a 100 € bonus and receive

100 € DISCOUNT*

on your next order of wear parts!

*The offer is valid upon successful registration, at the latest two weeks after commissioning of your machine. You can redeem the 100,- EURO within 12 months after purchasing your machine.



WEIMA Maschinenbau GmbH | weima.com

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Subject to technical changes | 01082021