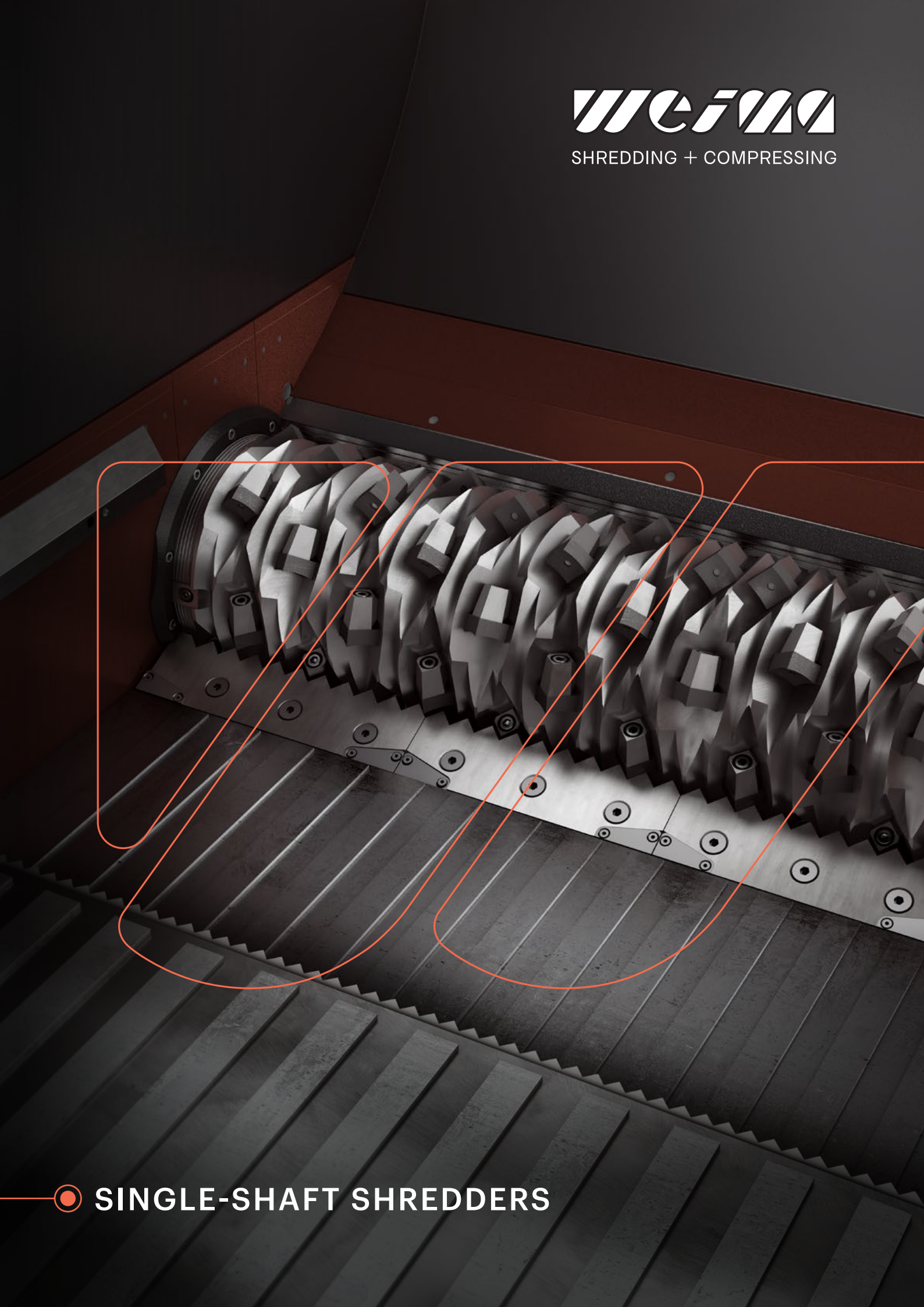




SHREDDING + COMPRESSING



● SINGLE-SHAFT SHREDDERS

The background is a solid red color with white line art. The line art consists of various geometric shapes, including rectangles, circles, and lines, arranged in a way that suggests a complex, three-dimensional structure. The lines are of varying thickness and are drawn in a way that creates a sense of depth and perspective. The overall effect is a modern, minimalist, and industrial aesthetic.

weim

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KEY FACTS

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CUTTING GEOMETRIES

SCREENS

DRIVES

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MACHINES

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260 mm rotor diameter

370 mm rotor diameter

500 mm rotor diameter

700 mm rotor diameter

800 mm rotor diameter

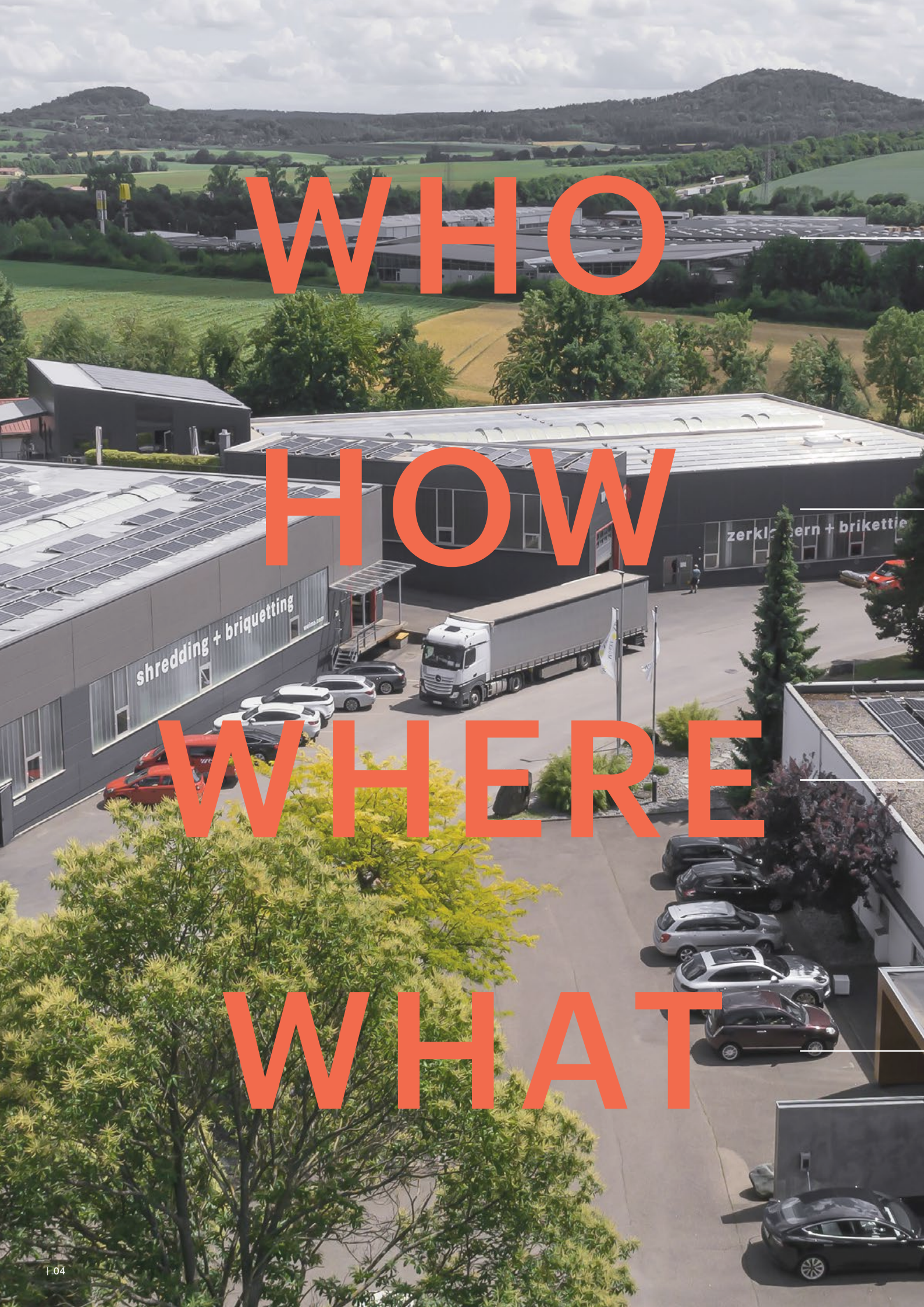
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CONNECTIVITY

SERVICE



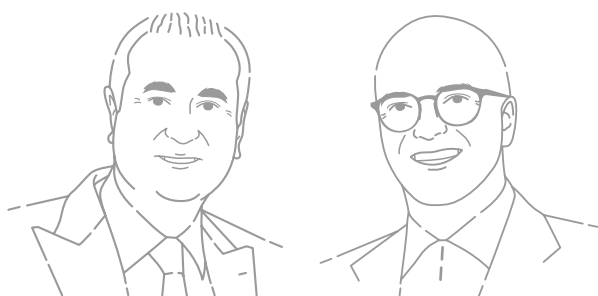


WHO

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)

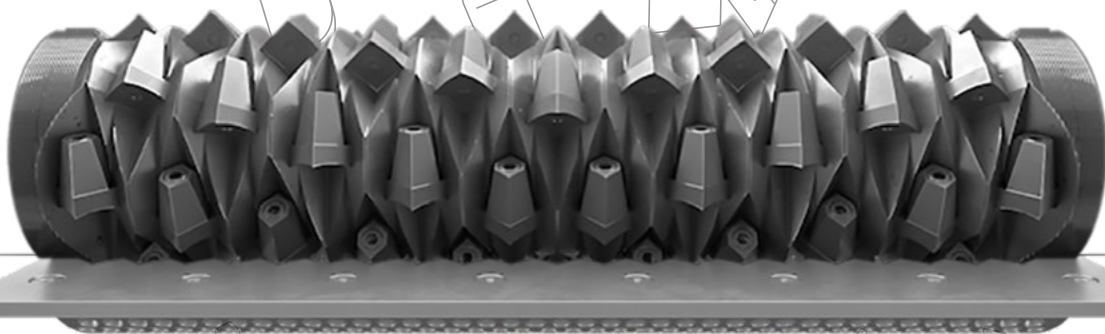
From trash to treasure.

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.

“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



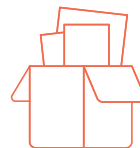
If you want to generate energy from your waste in an environmentally friendly way, utilize wood as a raw material. The wood waste, which is shredded into grindings, can be used for direct heat generation in wood burning oven or for the production of briquettes.

Typical applications include hard and soft scrap, old wood, OSB and MDF scrap, veneer, plywood, stairs, doors, and pallets. And don't worry, 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 become an expert for the associated conveying technology as well."

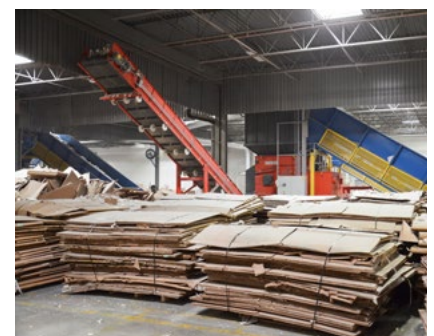
*Fred Haller,
Business Development | Wood at WEIMA*

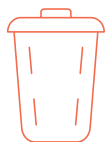
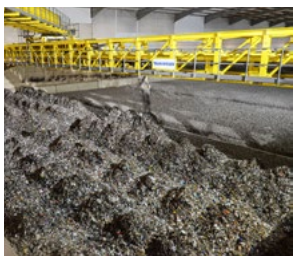


Paper and cardboard

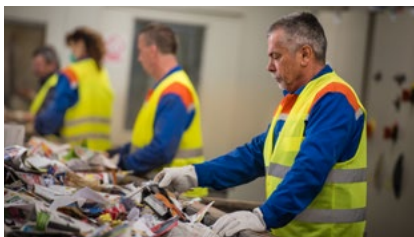


Alongside metal and plastic, pulp is a key pioneer of recycling – and it's more important than ever. In times of booming online trade, the sustainable disposal of corrugated cardboard is becoming more and more important. The most common applications include waste paper, documents, paper rolls, cardboard,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



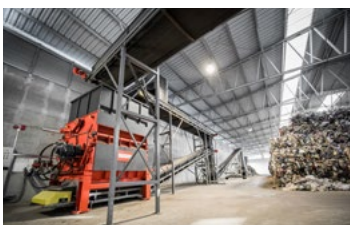


Waste and substitute fuel



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).



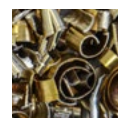
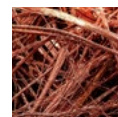
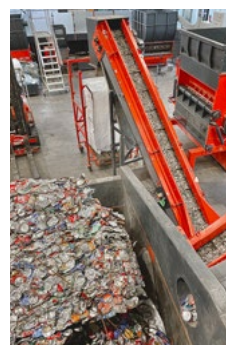
DID YOU KNOW?

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

Metal

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.

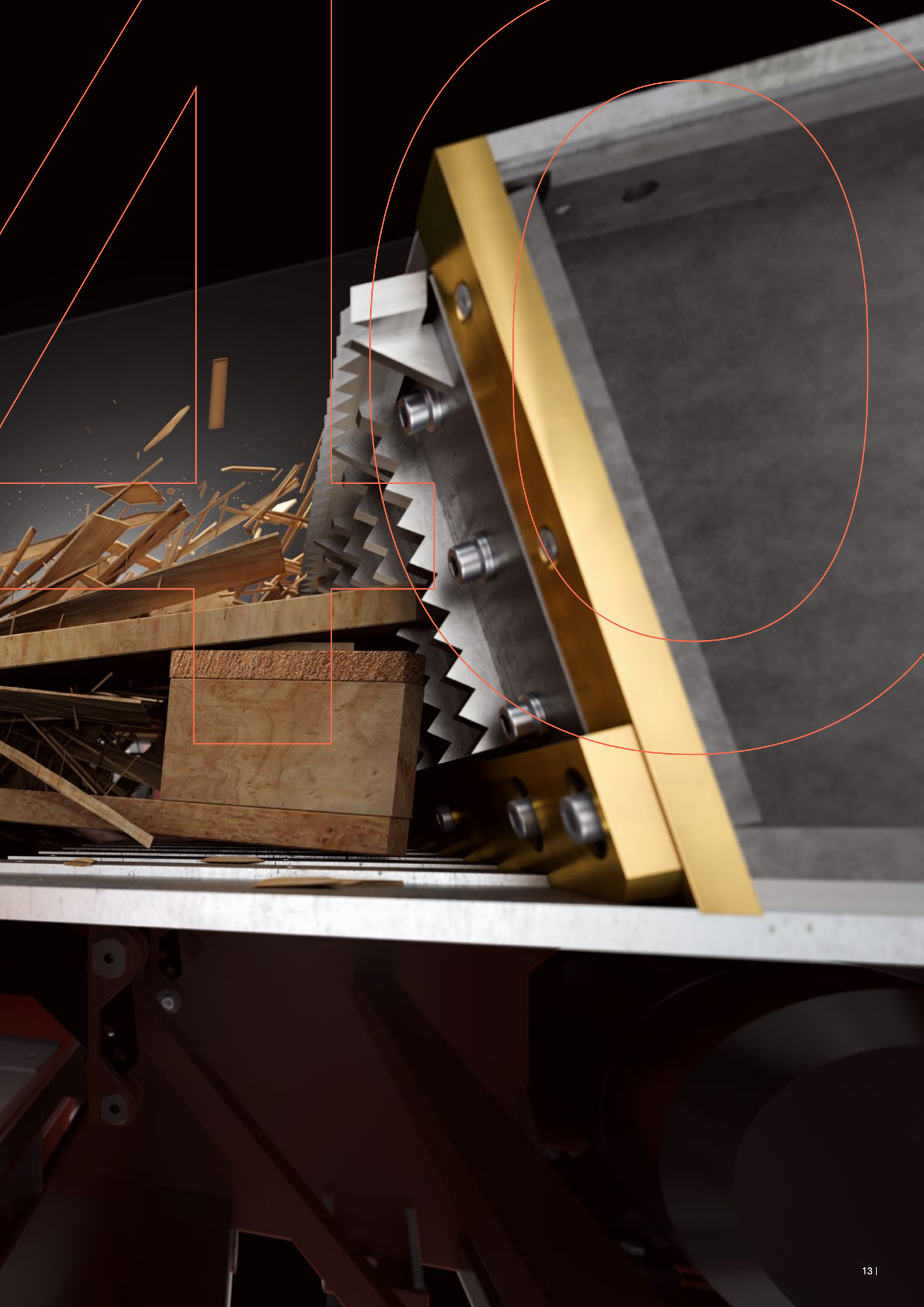


SHREDDING TECHNOLOGY MADE IN GERMANY

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

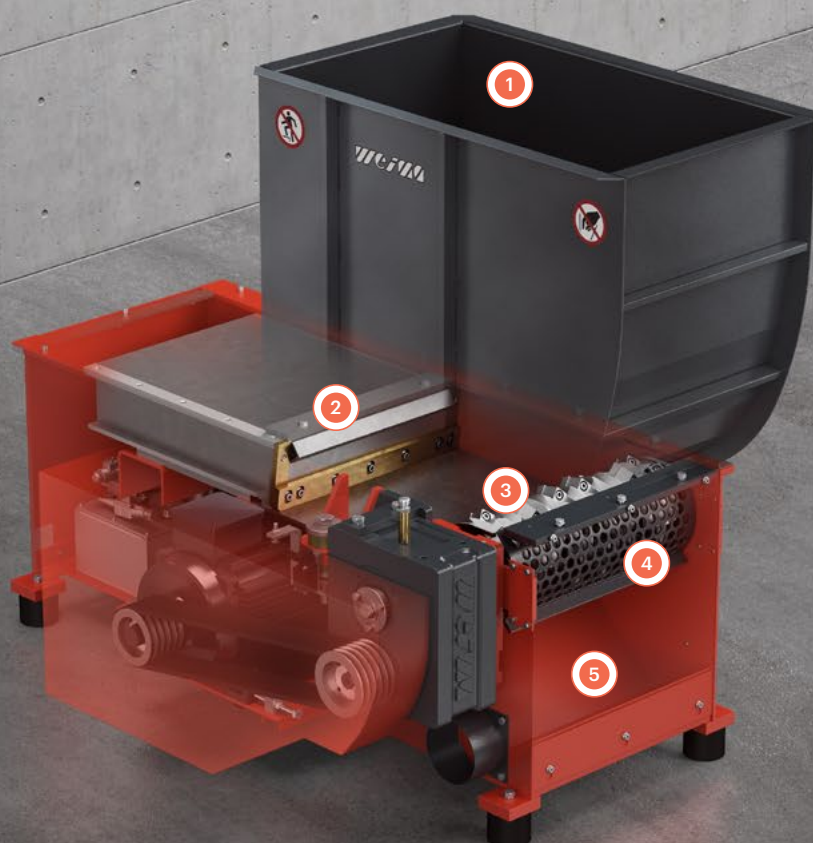
40 YEARS OF RECYCLING KNOW-HOW.





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 air extraction, screw conveyor or conveyor belt

ROTOR AND CUTTING TECHNOLOGY

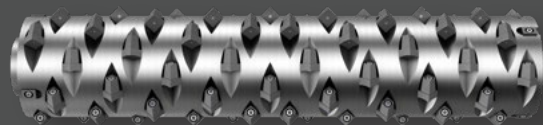
To achieve the desired result from a shredder, it's important to select the right combination of rotor, knives and counter knives. Selecting the right specifications for each material type requires a high degree of experience.

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.

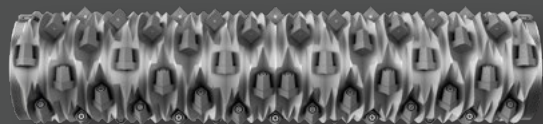
EXPERT TIP

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



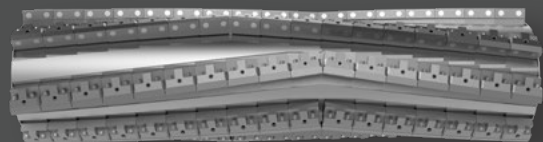
F rotor

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



V rotor

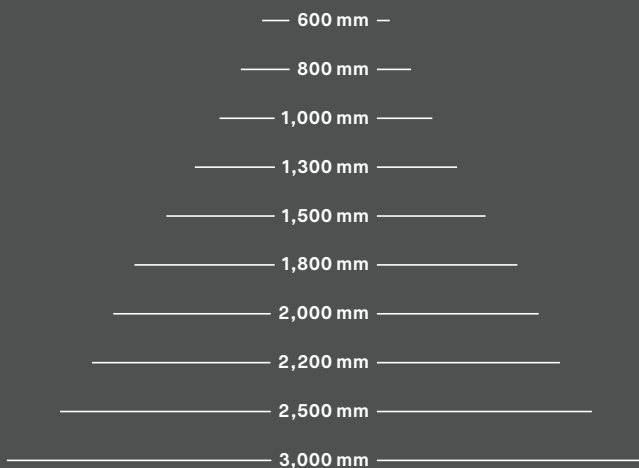
Universally applicable and resistant to foreign materials



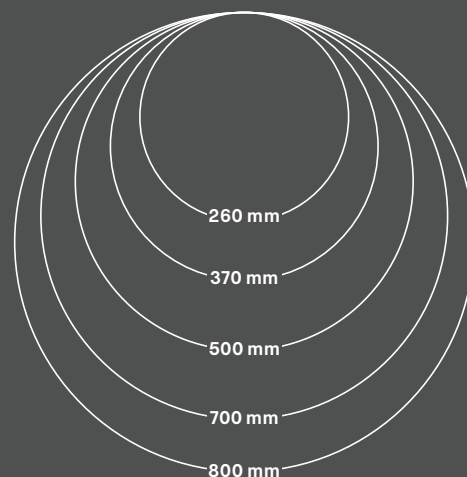
FineCut rotor

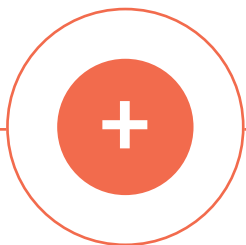
Specifically for secondary shredding, high speed, ideal for RDF

Overview rotor lengths



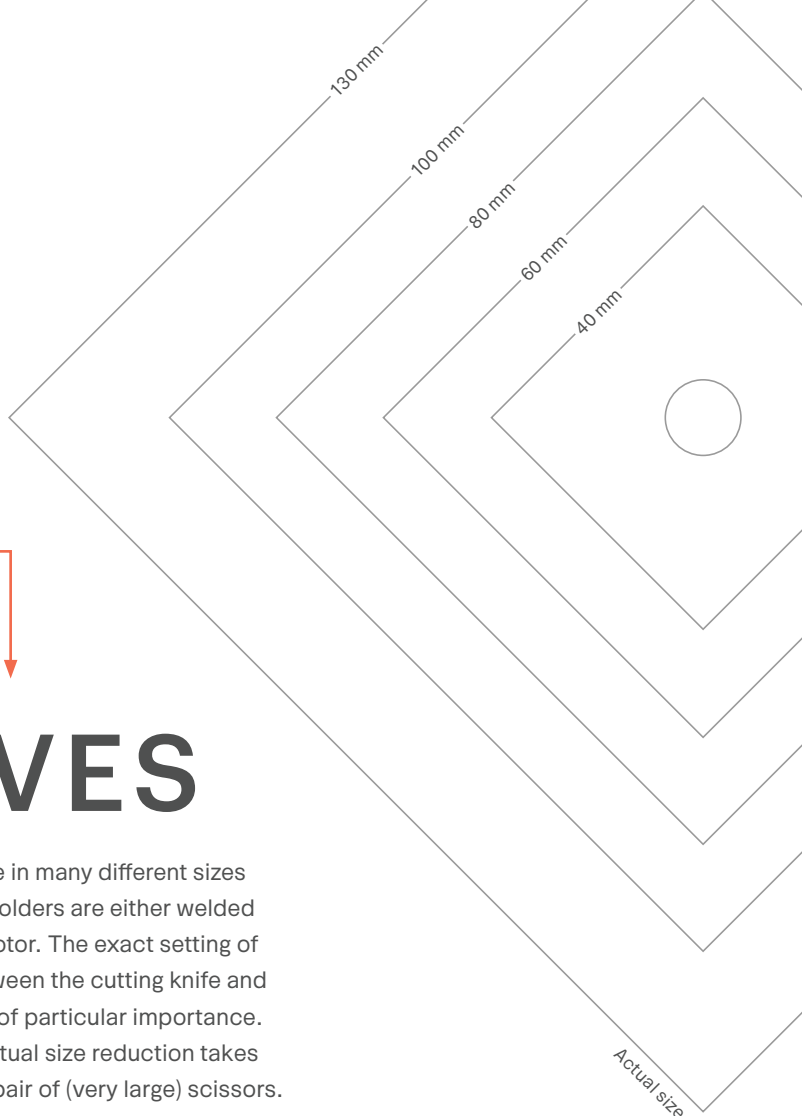
Overview rotor diameter (cutting circle)



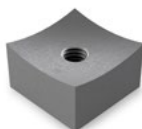


KNIVES

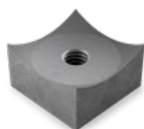
Cutting knives come in many different sizes and shapes. Knife holders are either welded or bolted onto the rotor. The exact setting of the cutting gap between the cutting knife and the counter knife is of particular importance. This is where the actual size reduction takes place – similar to a pair of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



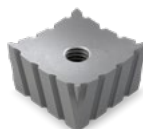
Flat
For material with
adhesives



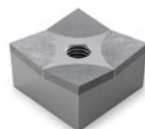
Concave
For standard
applications



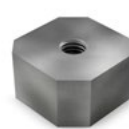
Extra concave
For blow-molded
materials



CrossCut
For a
finer cut



Carbide
For significantly
longer tool life



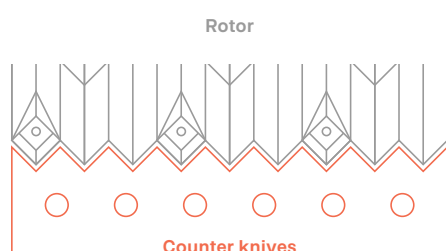
Trapezoid
For extreme
applications



FineCut
For secondary
shredding

Counter knives

While the rotor cutting knives rotate, the counter knives in a shredder are firmly bolted 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 while minimizing wear. Choosing the right counter knife design 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. The honeycomb screen structure is particularly stable.

20–150 mm wide openings

Honeycomb

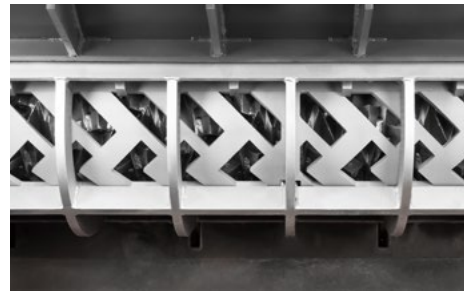
DID YOU KNOW?

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 film, big bags, and tear-resistant fibers.

25–80 mm web width



Kidney

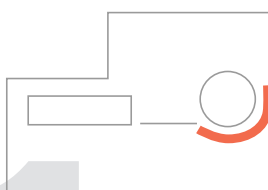
The characteristic kidney shape minimizes clogging in flat, 2D materials and is therefore widely used for shredding industrial waste.

50–250 mm diameter

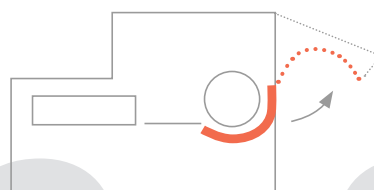


Screen mounting options

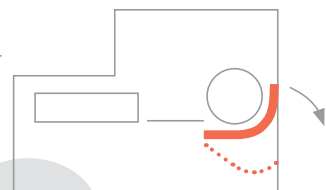
Whether a screen access should be bolted to the frame, swing upwards, or swing downwards, is closely linked to the maintenance of the machine. There are individual advantages when changing screens and cutting knives, or for cleaning. As always, the respective application defines the configuration.



Bolted screen
Screen is firmly bolted to frame



Lift-up screen
Screen basket can be lifted upward hydraulically



Drop-down screen
Screen basket can be hydraulically lowered

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 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.

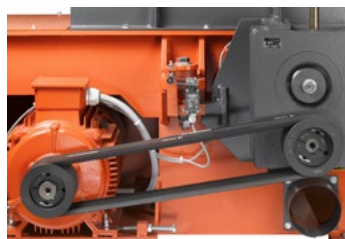
- **Robust**
- **Low wear**
- **Torque converter provides energy savings by limiting peak amp draw at start-up**
- **Proven and compact design**
- **Low investment and maintenance costs**
- **User-friendly maintenance**
- **WEIMA WAP gearboxes specially developed for size reduction**



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 design 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





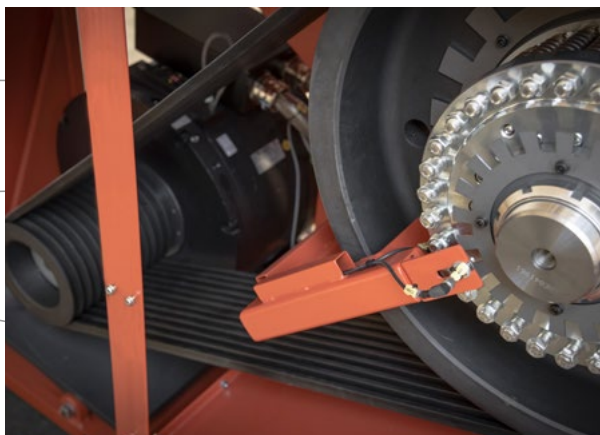
Electromechanical drive with belt

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

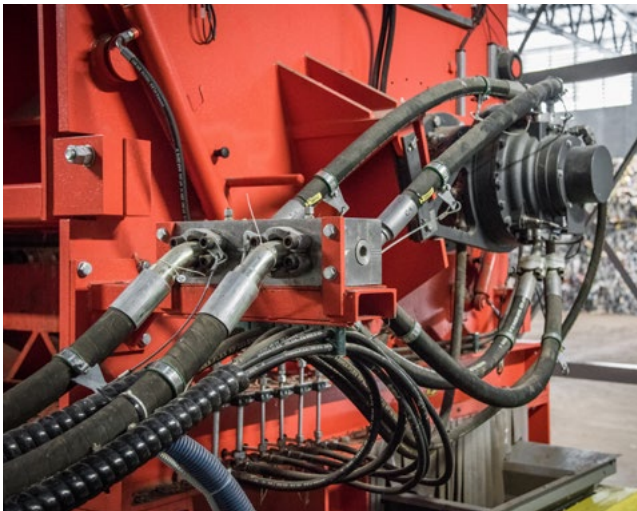


Power transmission without interruption

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.

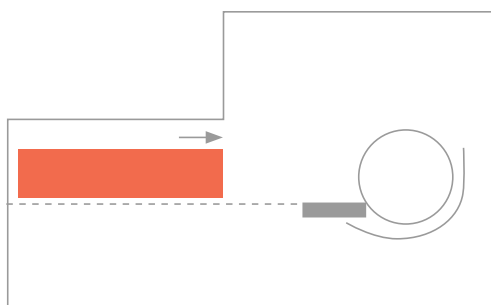


DID YOU KNOW?

In some applications, adding a jagged face to the ram makes material feeding more efficient. 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 impacts, making the system even more robust.

Horizontal ram



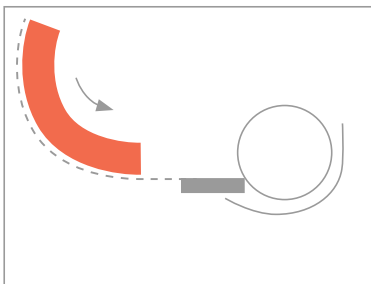


Hydraulic swing ram
with robust lever and
swingarm bearing



The hydraulic swing ram design makes the shredder particularly compact, simplifies maintenance and allows for 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 and granulators. We always have one goal in mind: to build the right machine for our customer.



**ONE SIZE FITS ALL?
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 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.

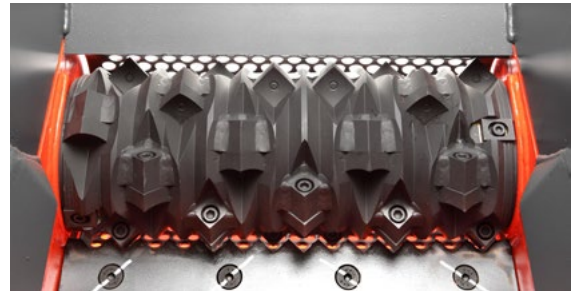
The built-in overload protection also prevents defects in the machine.

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.

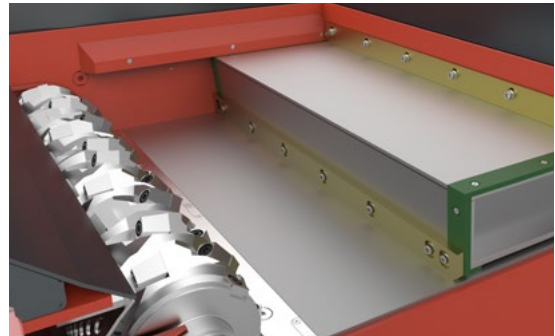




DURABLE ROTOR BEARINGS

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

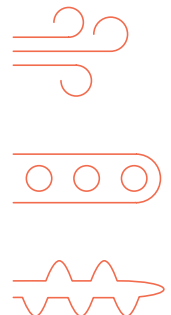
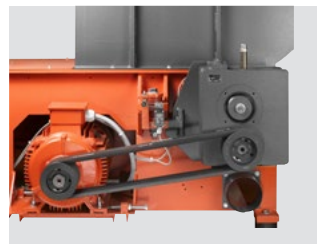
Vibration-damping machine feet ensure a secure footing and help to significantly reduce disruptive vibrations in the surrounding area. Since the machine does not have to be anchored to the ground first, installation is particularly flexible and convenient.



CLEAN DISCHARGE OF MATERIAL

by suction, screw or conveyor belt

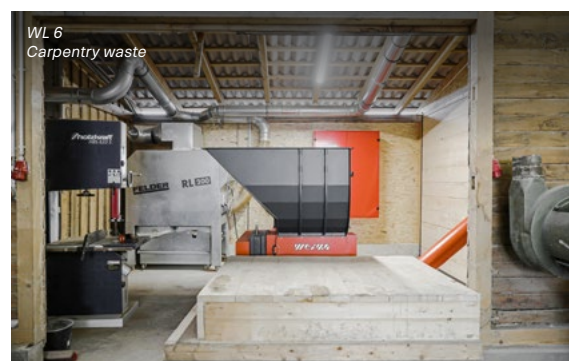
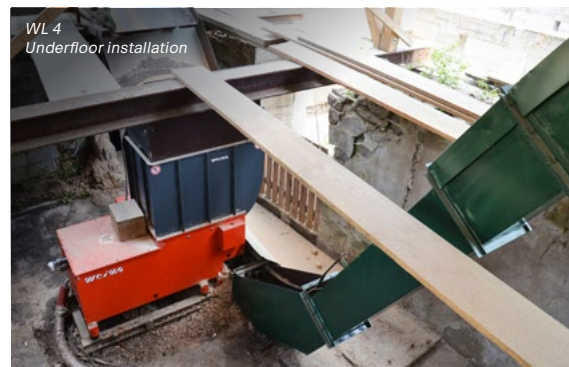
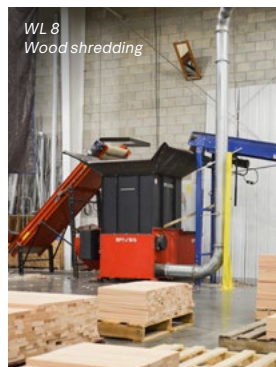
Depending on your needs and frame design (elevated machine with conveyor belt cutout or side spout), you have the option of discharging shredded material either by air extraction, discharge screw or classic conveyor belt. With experience from many thousands of machines on the market, we are also experts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





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

	Woodhuck	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.

SINGLE-SHAFT SHREDDERS

Flexible machines
with 370 mm rotor diameter



WLK 1000

370 mm
rotor diameter



WLK 15

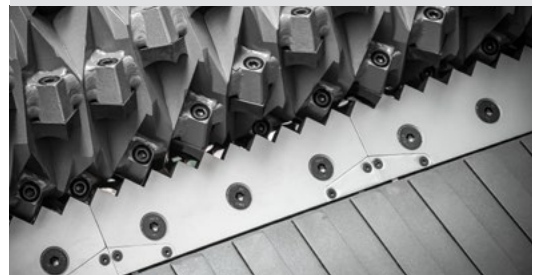
TECHNICAL HIGHLIGHTS

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 Allen Bradley 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. Optimum cutting geometry keeps shredding energy-efficient, minimizes wear costs, and significantly extends the service life of the knife.



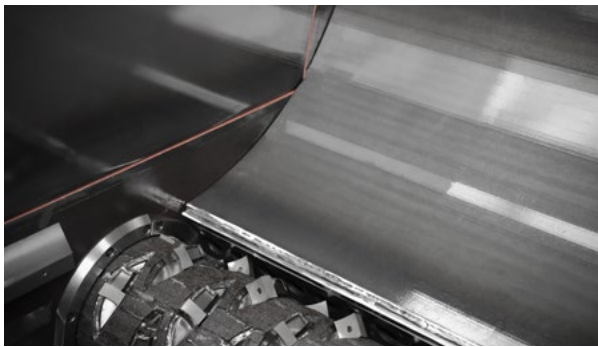
Precise cut with F rotor for flexible materials

The F rotor impresses with its controlled infeed behavior and its precise cutting geometry – especially with flexible materials such as films, filaments or fiber. 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 bolt-on screw screen. In addition, there are hydraulic drop-down screens as well as lift-up screen baskets. The ideal design depends on the application. In general, screen doors 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 an optional support stand. This makes your production even more flexible.

Easy integration of conveyor technology cutout for conveyor discharge

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 air extraction 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.





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



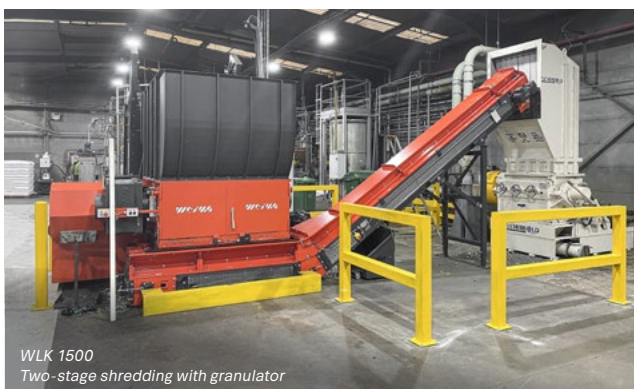
WLK 15
Automotive Interior Recycling



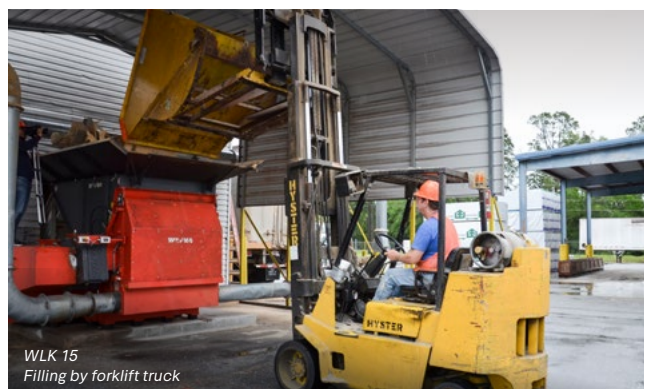
WLK 6 S
Plastic waste



WLK 10
Paper recycling



WLK 1500
Two-stage shredding with granulator



WLK 15
Filling by forklift truck



TECHNICAL DATA AND MACHINE CONFIGURATION

● Technical data single-shaft shredder

	WMS 600	WMS 800	WLK 6S	WLK 10	WLK 1000	WMS 1000	WLK 13	WLK 15	WLK 18	WLK 20
Rotor diameter [mm]	370	370	370	370	370	370	370	370	370	370
Rotor length [mm]	600	800	800	1,000	1,000	1,000	1,300	1,500	1,800	2,000
Rotor speed [rpm]	60 – 80	60 – 80	90 – 110	90 – 110	90 – 110	60 – 80	90 – 110	90 – 110	90 – 110	90 – 110
Drive power [kW]	26.5	36	36 – 45	45 – 55	45 – 55	55 HYD	55 – 90	66 – 110	90 – 133	90 – 133
Max. number of knives [pcs]	28	42	42	52	52	26	70	82	98	110
Available knife sizes [mm]	40	40	40 60	40 60	40 60	60	40 60	40 60	40 60	40 60
Screen size [mm]	15 – 100	15 – 100	15 – 100	15 – 100	15 – 100	15 – 100	15 – 100	15 – 100	15 – 100	15 – 100
Hopper opening [mm]	600 x 1,455	800 x 1,734	800 x 1,800	1,000 x 1,800	1,000 x 1,640	1,000 x 1,690	1,300 x 2,000	1,500 x 2,295	1,800 x 2,295	2,000 x 2,295
Length [mm]	2,629	2,655	2,534	2,534	2,903	2,656	2,728	3,290	3,290	3,290
Width [mm]	1,273	1,831	1,898	2,098	2,058	2,320	2,532	2,742	3,042	3,242
Height [mm]	2,000	2,000	2,100	2,100	2,130	2,130	2,100	2,100	2,100	2,100
Weight [approx. kg]	2,500	3,200	3,600	4,200	4,200	4,200	5,100	6,900	8,300	9,200

Specifications based on standard configurations.

Machine configuration single-shaft shredder

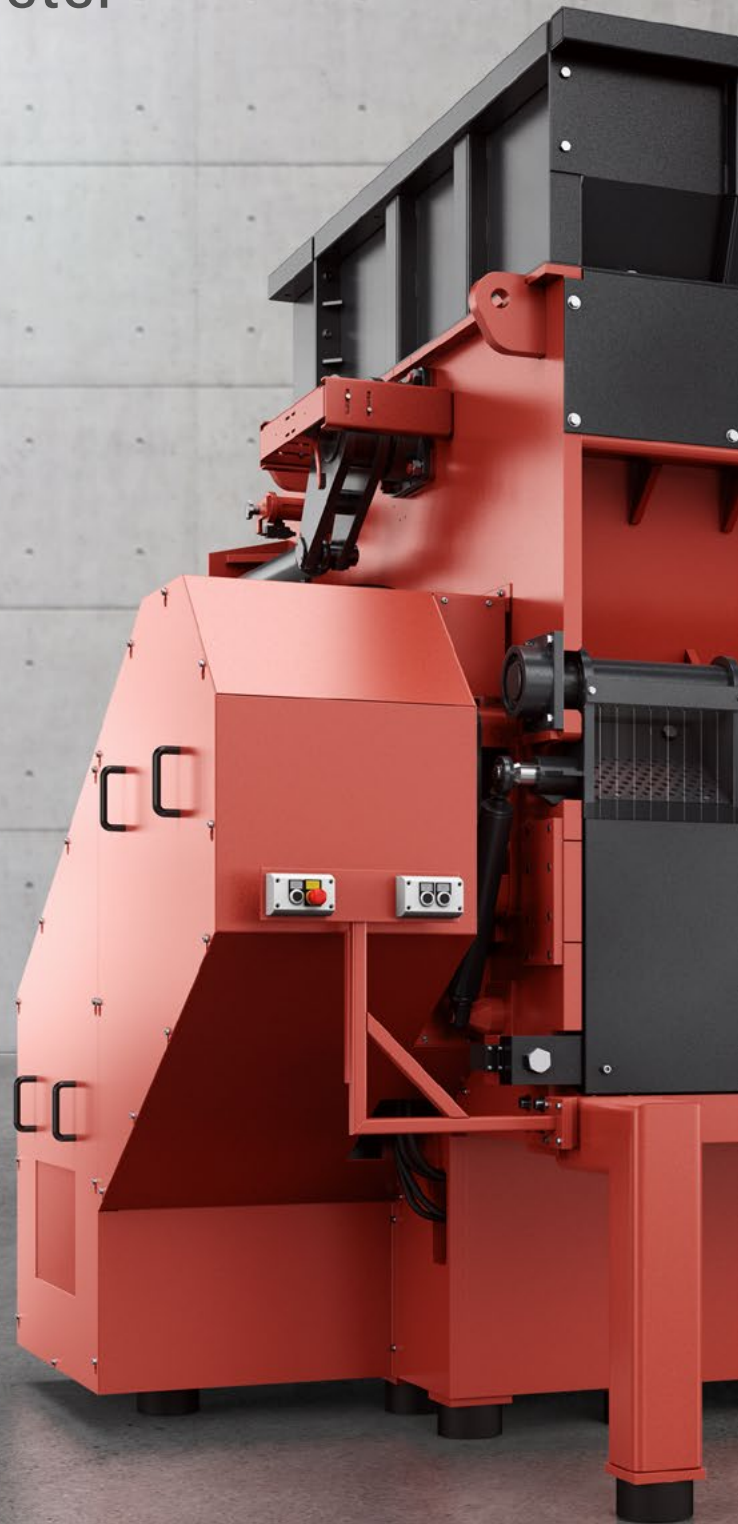
● Standard ○ Optional — Not available

	WMS 600	WMS 800	WLK 6S	WLK 10	WLK 1000	WMS 1000	WLK 13	WLK 15	WLK 18	WLK 20
Control cabinet with PLC control	●	●	●	●	●	●	●	●	●	●
MATERIAL FEED										
Horizontal ram	—	—	●	●	●	—	●	●	●	●
Sloped floor	●	●	—	—	—	●	—	—	—	—
Serrated ram	○	○	●	●	●	○	●	●	●	●
Extended ram bed	—	—	—	○	○	—	○	○	○	○
Fast hydraulics	●	●	●	●	●	●	●	●	●	●
DRIVE										
Electromechanical drive	●	●	●	●	●	●	●	●	●	●
Hydraulic drive	○	○	○	○	○	○	○	○	○	○
High-torque 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	○	○	○	○	○	○	○	○	○	○
Rotor cooling	—	—	○	○	○	—	—	○	○	○
Offset bearings	●	●	●	●	●	●	●	●	●	●
MATERIAL DISCHARGE										
Bolt-on screen	●	●	○	○	○	●	○	○	○	○
Lift-up screen	—	—	●	●	—	—	●	●	●	●
Drop-down screen	○	○	—	—	●	○	—	—	—	—
Conveyor belt cutout	●	●	●	●	●	●	●	●	●	●
Extraction connection	○	○	○	○	○	○	○	○	○	○
MAINTENANCE										
Vibration damping machine feet	●	●	●	●	●	●	●	●	●	●

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

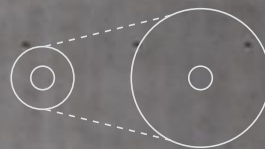
W5 SERIES

● Maintenance-friendly shredders
with 500 mm rotor diameter





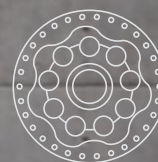
W5.18



Electromechanical
drive



High-torque
drive



Direct drive with
hydraulic motor



TECHNICAL HIGHLIGHTS



Master the most difficult materials effortlessly
with the universal V rotor

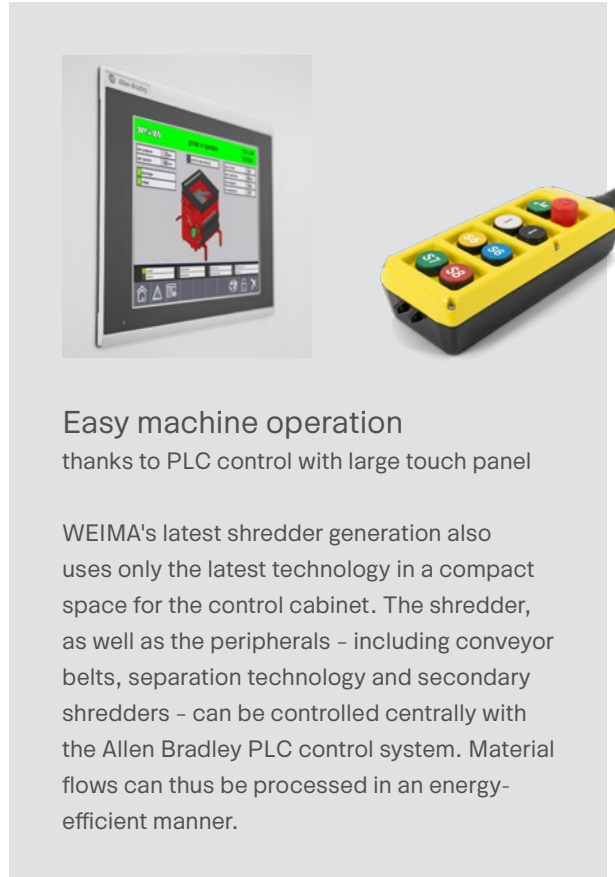
Measuring 500 mm in diameter and up to 2,200 mm in length, the V rotor of the W5 series was designed for ambitious throughput targets with high flexibility. Thanks to its innovative design, even large start-up lumps, hollow bins and very voluminous parts pose no problem.



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 Allen Bradley PLC control system. Material flows can thus be processed in an energy-efficient manner.

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

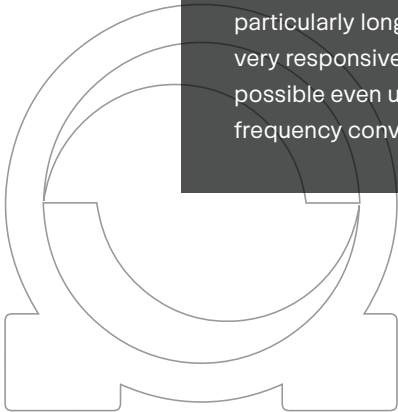
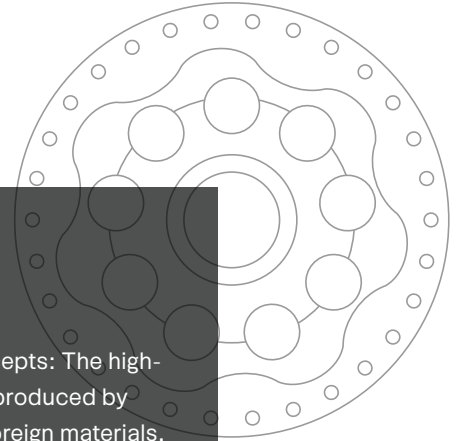
The choice of the appropriate screen is closely related to the desired shredding result. For maximum flexibility, the segments can therefore be exchanged individually. Different perforated screen diameters and screen variants such as the innovative kidney screen are possible. The entire screen basket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

TECHNICAL HIGHLIGHTS

HYDRAULIC OR HIGH-TORQUE 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

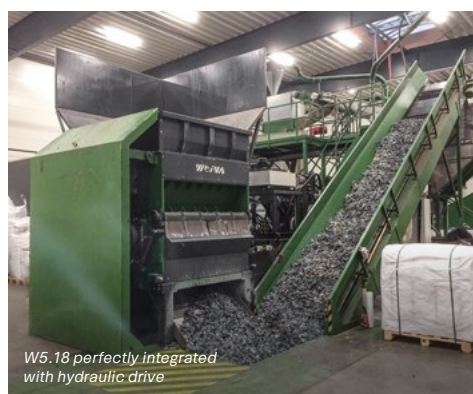
To minimize vibration and wear, WEIMA relies on a machine wall thickness of 40 mm as part of an optimized frame design. It also depends on the large rotor diameter of 500 mm. Matching cutting blades are available in edge lengths of 40, 60 and 80 mm. Vibration-absorbing machine feet also come standard.

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 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

	W5.18	W5.22
Rotor diameter [mm]	500	500
Rotor length [mm]	1,800	2,200
Rotor speed [rpm]	50 – 200	50 – 200
Drive power [kW]	108 – 192 HYD	132 – 192 HYD
Max. number of knives [pcs]	141 75 42	171 93 50
Available knife sizes [mm]	40 60 80	40 60 80
Screen size [mm]	15 – 100	15 – 100
Hopper opening [mm]	1,800 × 2,000	2,200 × 2,000
Length [mm]	2,470	2,470
Width [mm]	2,800	3,150
Height [mm]	3,000	3,000
Weight [approx. kg]	10,500	11,500

Specifications based on standard configurations.

● Machine configuration single-shaft shredder

● Standard ○ Optional — Not available

	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	●	●
Gearbox oil cooling	○	○
Hydraulic oil cooling	●	●
Hydrodynamic start-up clutch	●	●
CUTTING GEOMETRY		
V rotor	●	●
F rotor	○	○
Adjustable counter knife	●	●
Vautid rotor wear protection	○	○
Rotor cooling	○	○
Offset bearings	●	●
MATERIAL DISCHARGE		
Lift-up screen	●	●
Maintenance door	●	●
Conveyor belt cutout	●	●
Extraction connection	○	○
MAINTENANCE		
Vibration damping machine feet	●	●

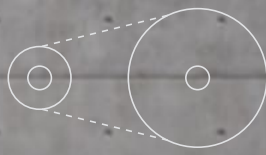
Other variations, special equipment, and technical modifications are available on request.

S5 AND S7 SERIES

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



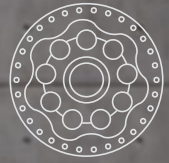
S5.20 lift-up



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 Allen Bradley 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 can be 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 mm.



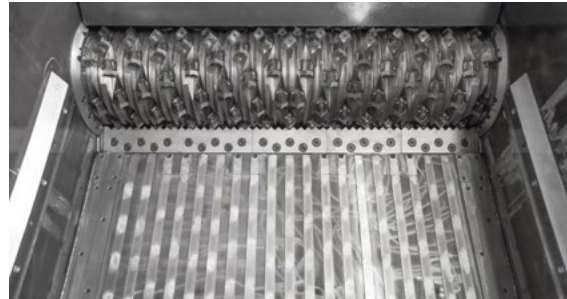
Sharp cuts guaranteed

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

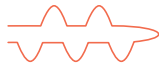
Particularly when shredding very thin materials such as films or fibers, it is recommended to use a segmented floor, which guides the ram even more precisely and prevents jamming. The shock valve at the end of the hydraulic ram also absorbs shocks to the ram, thus reducing wear.

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.

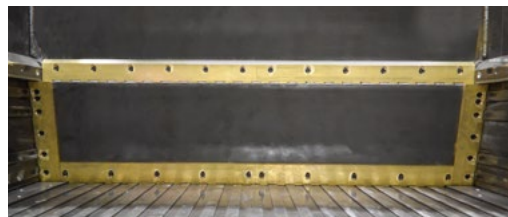


Stronger. Wider. Tougher.
with Heavy Duty options

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.



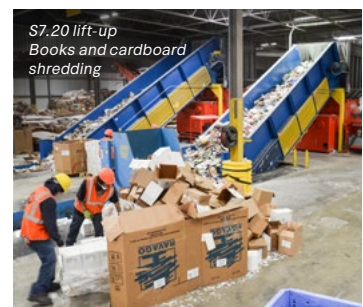
S5 SERIES AND S7 SERIES IN ACTION



*S7.30 lift-up
Pipeline sections*



*S5.18 lift-up
Paper shredder with two
discharge conveyors*



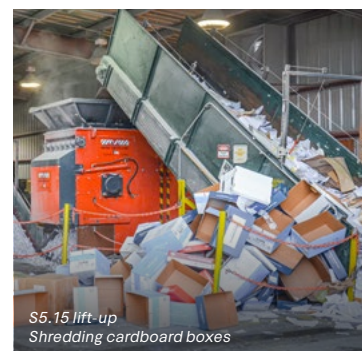
*S7.20 lift-up
Books and cardboard
shredding*



*S7.25 lift-up
Production of regranulate*



*S7.25 lift-up
Shredder and extruder*



*S5.15 lift-up
Shredding cardboard boxes*



TECHNICAL DATA AND MACHINE CONFIGURATION

● Technical data S5 series and S7 series

	S5.15 lift-up	S5.18 lift-up	S5.20 lift-up	S7.20 lift-up	S7.25 lift-up	S7.30 lift-up
Rotor diameter [mm]	500	500	500	700	700	700
Rotor length [mm]	1,500	1,800	2,000	2,000	2,500	3,000
Rotor speed [rpm]	80 - 100	80 - 100	80 - 100	80 - 100	80 - 100	80 - 100
Drive power [kW]	108 - 132	108 - 132	108 - 132	132 - 192 HYD	160 - 192 HYD	160 - 192 HYD
Max. number of knives [pcs]	123 66	147 75	165 87	165 87 60	207 111 75	249 135 93
Available knife sizes [mm]	40 60	40 60	40 60	40 60 80	40 60 80	40 60 80
Screen size [mm]	15 - 100	15 - 100	15 - 100	15 - 100	15 - 100	15 - 100
Hopper opening [mm]	2,340 × 1,960	2,340 × 2,320	2,340 × 2,460	2,395 × 2,460	2,395 × 2,960	2,395 × 3,460
Length [mm]	3,639	3,785	3,570	3,755	3,861	4,100
Width [mm]	2,461	2,756	3,394	3,460	4,050	4,550
Height [mm]	2,815	2,815	2,815	2,915	2,915	2,915
Weight [approx. kg]	15,000	17,000	18,500	21,000	30,000	34,000

Specifications based on standard configurations.

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
Control cabinet with PLC control	●	●	●	●	●	●
MATERIAL FEED						
Horizontal ram	●	●	●	●	●	●
Serrated ram	○	○	○	○	○	○
Ram extension	○	○	○	○	○	○
Fast hydraulics	○	○	○	○	○	○
DRIVE						
Electromechanical drive	●	●	●	●	●	●
Hydraulic drive	○	○	○	○	○	○
High-torque drive	○	○	○	○	○	○
WEIMA WAP gearbox	●	●	●	●	●	●
Gearbox 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	○	○	○	○	○	○
Rotor cooling	○	○	○	○	○	○
Offset bearings	●	●	●	●	●	●
MATERIAL DISCHARGE						
Lift-up screen	●	●	●	●	●	●
Conveyor belt cutout	●	●	●	●	●	●
Extraction connection	○	○	○	○	○	○
MAINTENANCE						
Vibration damping machine feet	●	●	●	●	●	●

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

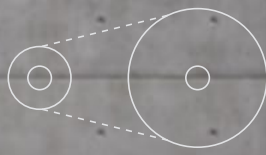
SINGLE-SHAFT SHREDDERS

- High-end production machines with 800 mm rotor diameter

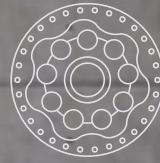


PreCut 3000





Electromechanical
drive



Direct drive with
hydraulic motor



High-torque
drive



PowerLine 3000



FineCut 3000

TECHNICAL HIGHLIGHTS



Flexible adjustment of cutting parameters with Allen Bradley 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 fine particle sizes using 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 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

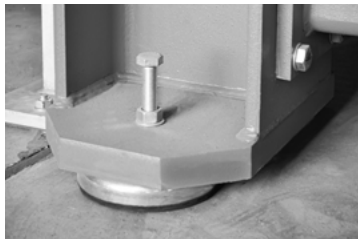
developed for pre-shredding

The massive PreCut rotor is ready for anything. It has Vautid wear protection as standard, which makes it particularly resistant to foreign matter. The bolted-on octagonal cutting blades have an edge length of 100 or 130 mm – the largest in the entire WEIMA portfolio. Due to the excellent 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, electromechanical,
or high-torque?

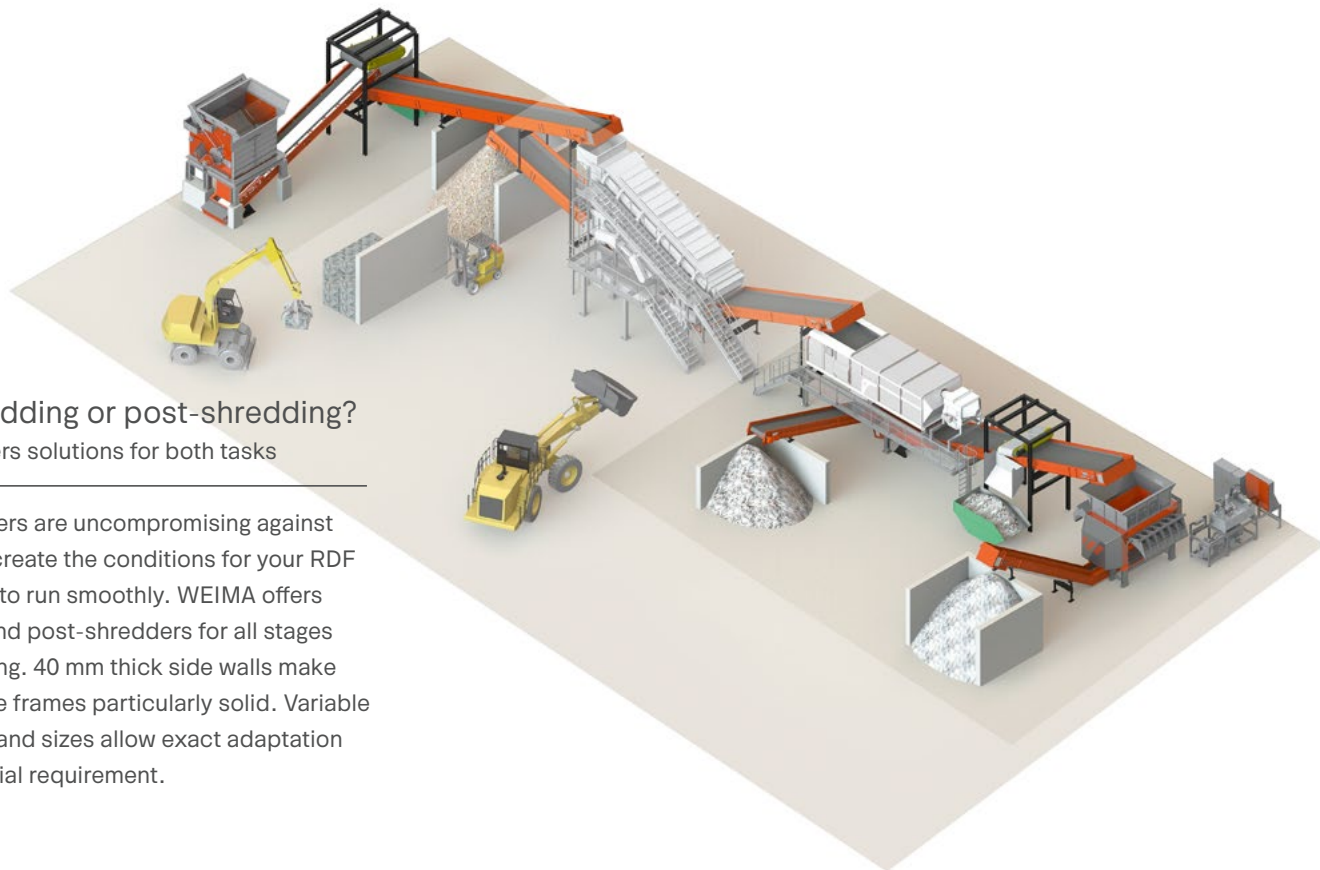
You have the choice: While our primary shredders are exclusively equipped with large Häggglunds hydraulic drives, high-torque drives from Baumüller and conventional electromechanical drives are also available for all other machines for universal and secondary shredding. Your individual application always 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 bolted. They can be changed quickly and are protected against wear. With secondary shredders, a particle size of 25 - 150 mm can be achieved – with primary shredders up to 400 mm.

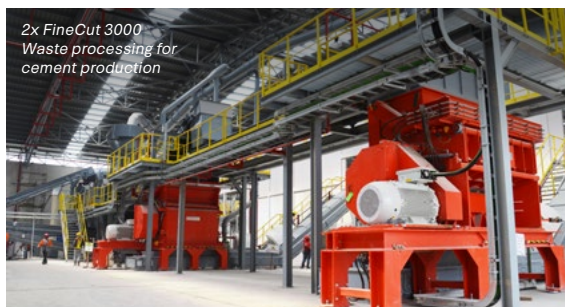




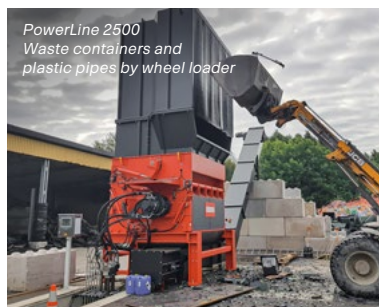
Pre-shredding or post-shredding? WEIMA offers solutions for both tasks

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 and 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 and 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 2000	PowerLine 2500	PowerLine 3000	FineCut 2000	FineCut 2500	FineCut 3000
Rotor diameter [mm]	800	800	800	800	800	800	800	800	800
Rotor length [mm]	2,000	2,500	3,000	2,000	2,500	3,000	2,000	2,500	3,000
Rotor speed [rpm]	5 – 120	5 – 120	5 – 120	80 – 200	80 – 200	80 – 200	160 – 380	160 – 380	160 – 380
Drive power [kW]	240	300	378	240	300	378	240	300	378
Max. number of knives [pcs]	76	92	116	92	116	144	77	98	119
Available knife sizes [mm]	100 130	100 130	100 130	80 100	80 100	80 100	172 × 57 × 28	172 × 57 × 28	172 × 57 × 28
Screen size [mm]	150 – 400	150 – 400	150 – 400	50 – 150	50 – 150	50 – 150	25 – 80	25 – 80	25 – 80
Hopper opening [mm]	2,000 × 2,200	2,500 × 2,000	3,000 × 2,200	1,800 × 2,000	1,800 × 2,500	1,800 × 3,000	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	3,000	3,000	3,000
Width [mm]	3,480	3,980	4,370	4,760	5,260	5,760	4,770	3,700	4,720
Height [mm]	4,560	4,397	4,560	4,770	4,770	4,770	4,770	3,700	4,720
Weight [approx. kg]	32,000	35,000	38,000	28,500	31,500	34,500	28,500	32,500	36,500
Wall thickness [mm]	40	40	40	40	40	40	40	40	40

Specifications based on standard configurations.

Machine configuration single-shaft shredders

● Standard ○ Optional — Not available

	PreCut 2000	PreCut 2500	PreCut 3000	PowerLine 2000	PowerLine 2500	PowerLine 3000	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	○	○	○	○	○	○	○	○	○
Offset bearings	●	●	●	●	●	●	●	●	●
MATERIAL DISCHARGE									
Heavy duty screen inserts	●	●	●	—	—	—	—	—	—
Lift-up screen	●	●	●	●	●	●	●	●	●
Maintenance door	●	●	●	●	●	●	●	●	●
MAINTENANCE									
Vibration damping machine feet	●	●	●	●	●	●	●	●	●
Central lubrication	○	○	○	○	○	○	○	○	○

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

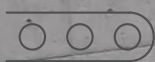
CONNECTIVITY

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, rotor speed, or ram speed. When incoming material flows pause, the shredder also automatically switches to standby mode.

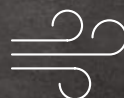


All information of a plant is collected centrally and can be monitored digitally. The integrated control system regulates not only the performance of the shredder, but also the peripherals. This includes extraction, metal detectors and secondary shredders for subsequent production steps. All process 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. We would like to pass on this 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.



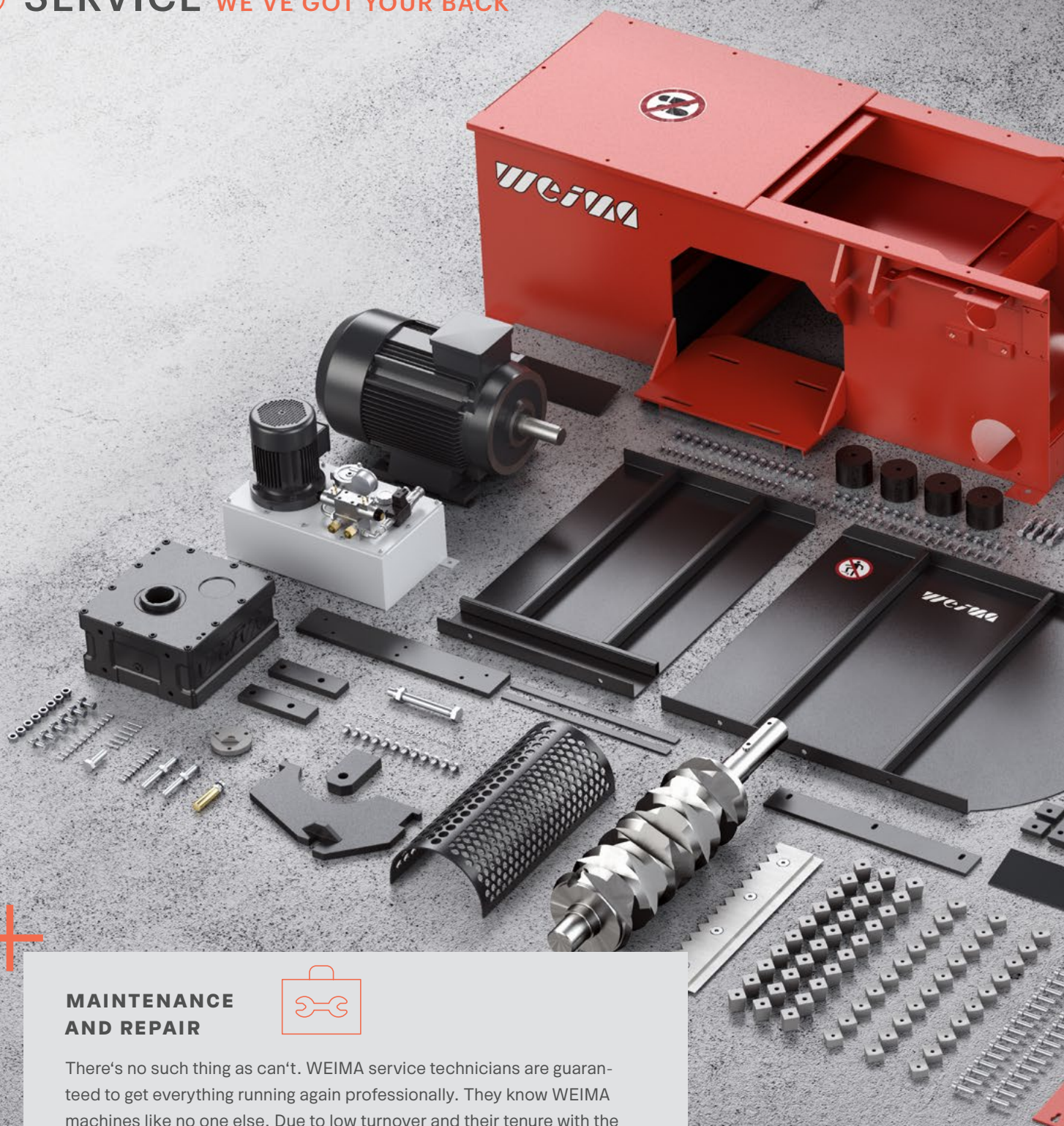
We've got your back.

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.



Service packages

With the WEIMA service packages you are well provided for. Choose the scope of services yourself: From inspection and maintenance, to detailed reports and electrical safety checks. You can also secure exclusive discounts on spare and wear parts. This way, you can avoid unexpected downtimes, prevent excessive wear, and guarantee production reliability.





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 Allen Bradley, Bosch Rexroth, Siemens, or Eaton Möller. Since we also produce our robust control cabinets ourselves, you benefit from particularly fast availability of electronic components.



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