

# **Husmann**

*Zerkleinerungstechnik*



SINGLE-SHAFT CRUSHER

TWIN-SHAFT CRUSHER

SHREDDER

FINE SHREDDER

WOOD CHIPPER

ENVIRONMENTAL TECHNOLOGY

QUALITY.  
INNOVATION.  
HUSMANN.

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**Efficient,  
powerful  
crushing  
always one  
step ahead  
ecologically and  
economically**

*Husmann* was originally founded in 1953 as a manufacturer of agricultural machinery. As early as in 1965, however, founder Gerhard Husmann recognised the signs of the times and chose to specialise in the production of systems and equipment for environmental technology. This turned *Husmann* into a pioneer in the waste management industry even before environmental protection grew particularly relevant. The experience used to tailor solutions for customers has confirmed the company's claim to a leading position in the crushing market through innovative technology.

**Powerful, with high throughputs, and economical at the same time – this is our goal**

Headquartered in Dörpen, the group combines expertise in all areas of waste treatment: Pressing technology, container construction, and crushing technology.

Lathen-based *Husmann Zerkleinerungstechnik* develops high-performance wood chippers and crusher systems with three main focuses on cutting, crushing, and breaking. "As experts in this field, we know the requirements from practical experience and have designed our systems for daily use under the most difficult of operating conditions."

The durable *Husmann* products are specifically designed for crushing of domestic and bulky waste as well as recyclable materials such as wood, roots, paper, or cardboard. The precisely coordinated operation of the crusher system ensures output of precisely the right material size, e.g., for incineration or composting of the input material.

*Husmann* crusher systems and wood chippers are designed robustly to withstand the toughest real-world operating conditions. Durability, ease of maintenance, and simple operability turn these systems into efficient and economic solutions.

***We are producing quality – and have been since 1953.***



The *Husmann Zerkleinerungstechnik* site in Lathen develops, designs, and manufactures all machine types of the product range.

The five manufacturing plants of Lathen, Dörpen, Crailsheim, Lübben, and Heiligengrabe employ more than 350 employees in total.

A covered area of more than 60,000 square meters is used to produce high-quality products for environmental technology.

The vast and versatile product range has proven its worth not only in Germany and Europe but around the entire world. Products from *Husmann* group come in where environmentally friendly and economical solutions are required.



Lathen



Crailsheim



Dörpen



Heiligengrabe



Lübben

### ***Husmann Crushing Technology***

Customer alignment and sustainability are just as important to us as a positive corporate culture. We take responsibility for the environment, for our five sites, and for our employees.



# THREE FACTORS FOR ASSURED QUALITY

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- **Qualified employees**
- **High-quality material**
- **State-of-the-art production facilities**

*Husmann* products stand out with their durability, reliability, and safety. The material is the basis for consistently high quality: Only high-quality steel and high-quality components are used. Suppliers are selected based on the strictest criteria. Special is the standard for us. Most of the products are applied with a 2K coating by default. Employee know-how is another factor in quality assurance.

**A well-coordinated team with plenty of grown experience.**

State-of-the-art production facilities, with maximum flexibility, also make (virtually) anything technically possible.

This leads to a comprehensive range of robust machines for each of your requirements. There is no such thing as standstill: *Husmann* keeps improving the function, efficiency, and performance of all products and develops individual solutions that prove their worth in daily use.



What does "MADE IN GERMANY" mean in the first place?

Of course, it means that *Husmann* and its suppliers develop, design, and produce in Germany. *Husmann* creates jobs and secures sites.

"We are committed to the region and to the people living there. It means a lot more to us, though. We are committed to the quality that has made the term "Made in Germany" a global success."



CNC flame cutting machine



Various laser cutting machines



High performance welding robots



State-of-the-art production facilities



Automatic continuous blasting machine



CNC round bending machine



CNC press brake



Paint shop



Electronic control setup



Final assembly



# SLOW-RUNNING CRUSHER SYSTEMS

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The **Husmann wood crusher and waste shredder of the "HL"** type are used in volume reduction at landfills or in pre-crushing for waste incineration.

The slow-running single- or twin-shaft machines process residual waste, industrial and commercial waste as well as mixed construction waste, domestic waste, or similar materials.

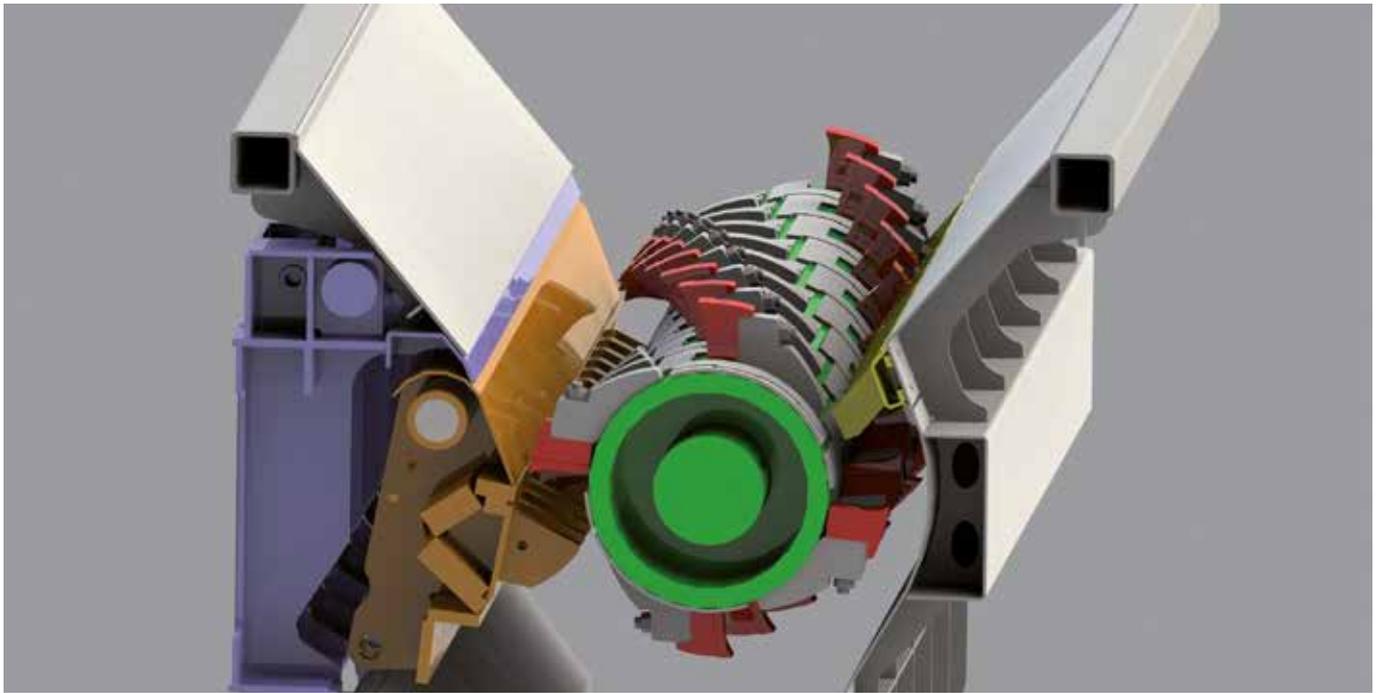
The special tools of these crusher systems that permit both synchronous and counter-rotating crushing based on model are screwed to the waste cutter shafts, permitting quick replacement at the site of use. Accessories include disturbance ejection flaps and crusher bars to determine the crushed size and throughput rate.

The *Husmann* wood breakers and waste crushers also offer powerful crushing of very difficult materials due to their

- effective force transmission through direct drive
- high mobility for fast, flexible use
- simple manual operation on the device or by radio remote control
- and quick readiness for operation due to the hydraulically folding discharge conveyor

The following machine types need to be distinguished here:

- HL I single-shaft crusher
- HL II twin-shaft crusher (asynchronous)
- HL UNI twin-shaft crusher (synchronous)



# SINGLE-SHAFT CRUSHER

## HL I

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The "HL I" designation refers to the single-shaft crusher. All crusher systems are offered on a welded steel profile structure with a hook mount. Stationary systems on steel supports and mobile ones with a trailer axle approved under the German road traffic ordinance or mounted on a crawler chassis are also available.

The HL I series with a crusher shaft stands out with quick-change, bolted blades, and a flexible, adjustable side comb. The system is protected against breakage in

combination with the automatic reversing system.

Single-shaft crushers differ in the length of their crushing shafts.

With a shaft length of 2,200 mm, the HL I 1222 is the smallest system among the single-shaft crushers, while the largest system is the HL I 1230 with a shaft length of 3,000 mm.

Drive units between 200 kW electric and 370 kW diesel can be selected depending on the operating conditions.



HL I 1222 Electro-stationary



HL I 1222 Hook lift



HL I 1225 Mobile



HL I 1230 Mobile

### Additional equipment:

- **Radio remote control**
- **Hopper elevation**
- **Disturbance ejection flaps**
- **Sprinkler system**
- **Magnetic separator**
- **Lift axle**
- **Exchangeable fans**
- **Central lubrication**



# TWIN-SHAFT CRUSHER HL II

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The designation "**HL II**" is used for the twin-shaft crusher.

The name refers to the size of the cutting unit opening.

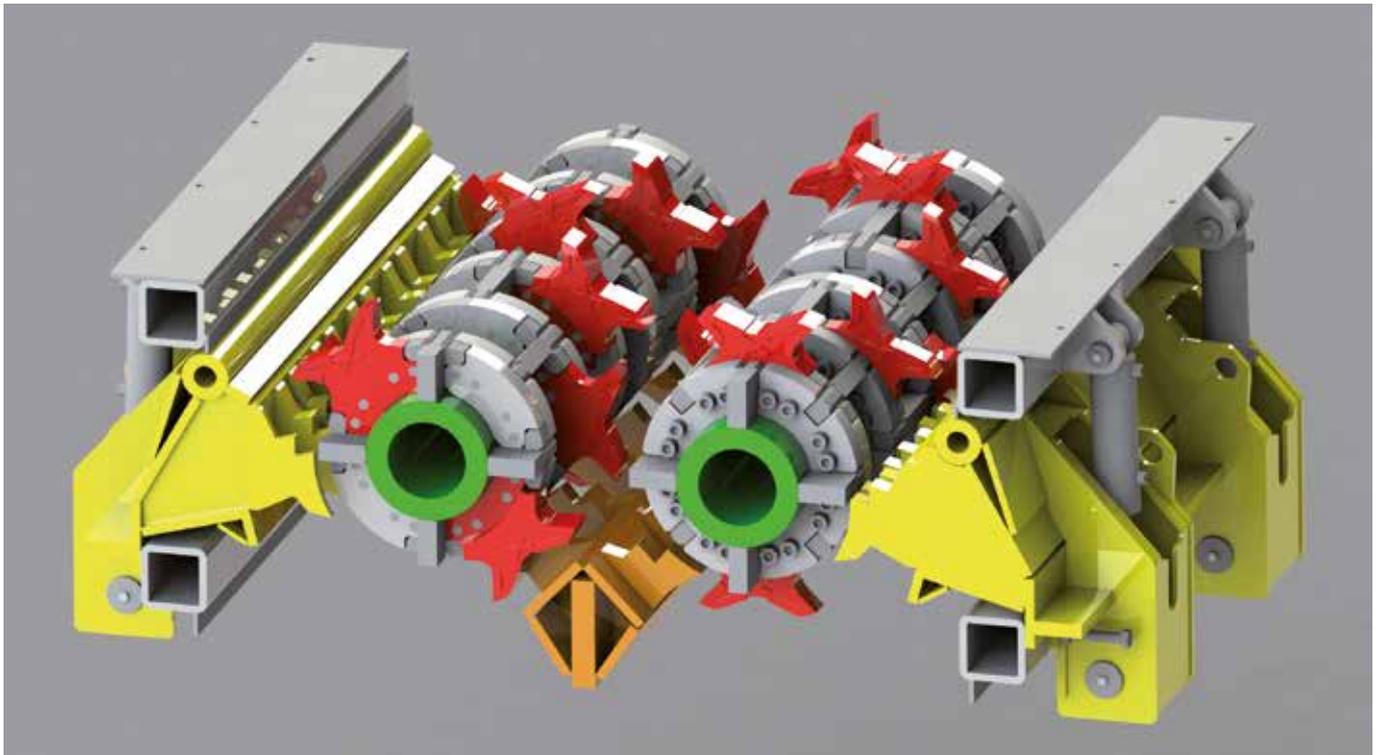
For example, the HL II 1622 has a cutting unit opening with a width of 1,600 mm and a length of 2,260 mm.

The twin-shaft crushers can be mounted on a welded steel profile structure with a hook mount. Stationary systems on steel supports or mobile ones with a trailer axle approved under the German road traffic ordinance or mounted on a crawler chassis are also available, just as for the single-shaft crushers.

The power rating of these machines ranges from 260 kW to 420 kW. An electric drive as well as a turbodiesel engine of the latest emission class can be chosen.

**Additional equipment:**

- **Radio remote control**
- **Hopper elevation**
- **Disturbance ejection flaps**
- **Sprinkler system**
- **Magnetic separator**
- **Lift axle**
- **Exchangeable fans**
- **Central lubrication**



**Twin-shaft crusher with the universal cutting unit.  
To be used for waste wood and for garbage, bulky waste & mixed construction site waste; always the right machine.**

**Crusher unit:**

The design of the crusher unit and the symmetrical tools used allow the system to rotate in either direction.

**Advantages:**

- Longer tool service life due to useful surface on both outer edges
- High material throughput since both directions of rotation are working directions
- Screwed-on tools made of highly wear-resistant material
- Welding on possible to increase service life
- Alternatively, other crusher units can be chosen depending on the place of application and the material to be processed



HL II 1617 Hook lift



HL II 1622 Mobile



HL II 1622 Electro-stationary



HL II 1622 Hook with electric motor

**Synchronous/  
asynchronous**

The drive technology permits **asynchronous operation** of the crusher shafts.

This means that the rotating direction and speed may have identical (synchronous) or different (asynchronous) values depending on work programme.



# TWIN-SHAFT CRUSHER

## HL UNI

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The *Husmann "HL UNI"* crusher system is designed specifically for demolition wood, waste wood, rootstocks, pallets, and green waste. However, it may also be used with any other materials if combined with an optional crusher unit.

The material to be crushed is fed in to the slowly rotating crusher shafts via a hopper chute. The crushers and shaft knives immediately pull in the material and crush it efficiently. There are various shaft configurations for the special requirements of the final grain. Grain sizes between approx. 100 mm and 200 mm are generally possible with a small proportion of outliers.

The twin-shaft crusher of type HL UNI is available in two machine sizes with capacities up to 370 kW.

Just like the other crusher systems, the HL UNI can be manufactured as a mobile, chain, electro-stationary, or hook lift machine.



HL UNI 7.5 Hook lift



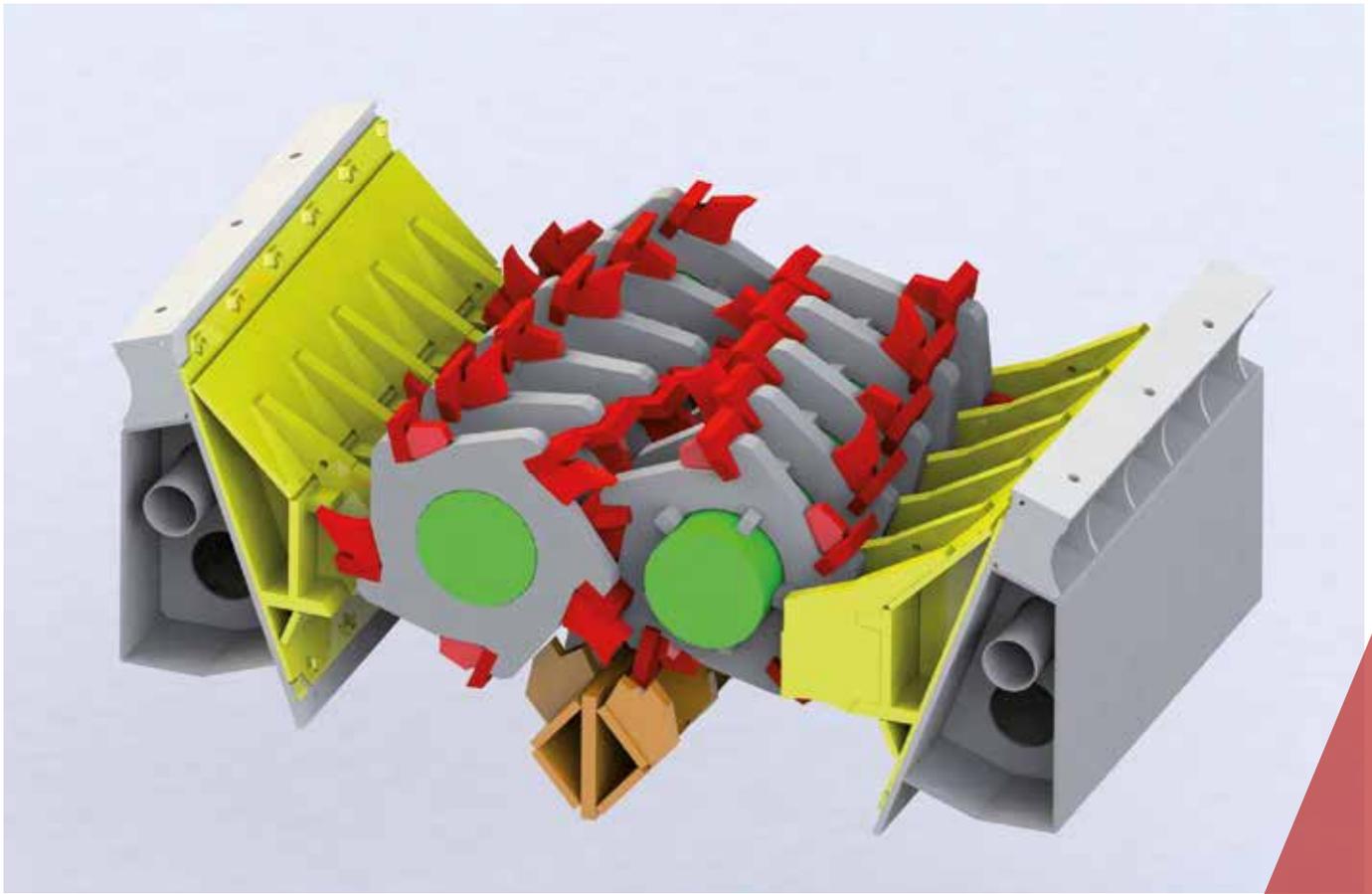
HL UNI 7.5 Electro-stationary



HL UNI 7.5 Pre-crushing



HL UNI 8.6 Hook lift



#### **Crusher unit:**

Combined with the strong synchronous gearbox, the specifically interlocking crusher shafts ensure very fine output grain sizes. A wide variety of crushing shafts can be used depending on the material and particle size. Waste wood, green waste, aluminium, or residual waste are just a few areas of application.

#### **Additional equipment:**

- **Radio remote control**
- **Hopper elevation**
- **Disturbance ejection flaps**
- **Sprinkler system**
- **Magnetic separator**
- **Lift axle**
- **Exchangeable fans**
- **Central lubrication**



Synchronous/  
asynchronous

**Synchronous operation**  
by separately powered  
drive units.

Symmetrically operated  
crusher shafts  
permit a close  
pitch of the  
tools with small  
clearances.  
This produces a  
fine output material.

# SHREDDER HFG

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These powerful *Husmann* units with the basic designation "HFG" produce a uniform, fine, and clean crushed material due to their special stroke technique and beater placement.

The material is fed in via mutually independent hydraulically operated steel plate bottoms and the infeed roller with infinitely variable drive.

The crusher has a rotor equipped with free-swinging hammers that strike the material to be crushed via a crushing edge. Optimal force

conversion permits high throughput rates and leads to homogeneous crushing of the infed material without the need for costly secondary crushing. The grain size of the material to be crushed can also be influenced by using a rake or a screen. They are specifically designed to customer requirements and can be bolted on behind the hammer mechanism or activated hydraulically at need.

The design of the flail hammers with screwed-on wear tip for individual replacement with low assembly

effort is just as comfortable for the user. Machine sizes with weights from 3.5 to 22 tons and drive motors from 55 to 478 kW are produced in this segment.

The flail shredder are made in different sizes, drive capacities, and designs to configure the system for any material.





HFG I Mobile



HFG II Mobile



HFG IV Mobile



HFG V Mobile



HFG VI Mobile



HFG V Hook with PTO drive

### Additional equipment:

- **Sprinkler system**
- **Hydr. traction drive**
- **Remote control**
- **Magnetic roller**
- **Exchangeable fans**
- **Hopper chute**
- **Screen basket**
- **Support feet**
- **Special coat of paint**



# FINE SHREDDER HFZ

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*Husmann* has developed a mobile or stationary system of the "HFZ" type in particular for fine crushing of wood waste. The HFZ thus is able to produce a very fine output material.

The machines can be manufactured individually based on customer requirements.

The pre-shredded and metal-free feed material is fed into the hopper and the rotor via a short infeed belt.

Then, the material is crushed by the high-speed rotor, with pendulum-mounted or fixed flail hammers and an adjustable counter blade.

The crushing size can be adjusted via screwed and quickly exchangeable screen inserts.

The finely crushed material is used for combustion, pellet forming, or briquetting.



HFZ V



HL II and HFZ V fine crushing



HFZ V fine crusher

# WOOD CHIPPER

## H5-H10

Wood chippers use cutting technology.

**"H5-H10"** Husmann chippers are produced in different sizes and with different drive types. Bush wood and logs that can be used for composting, or turned into grit for parks, or ideally into wood chips to supply heating systems can be shredded. The wood chippers are equipped with a knife disc and a hydraulic forced intake. Two infeed rollers, each powered by an oil motor, guarantee optimum handling during supply.

The wood chippers are designed for a material thickness from 160 to 270 mm.

The wood chippers are available as power take-off machine or with diesel drive on a trailer chassis.



H5Z



H7M



H8M



H10Z



# WE WILL GLADLY HELP YOU!

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**The comprehensive customer service network ensures quick service. Our experienced installer teams are at work around the world.**



Do you need any spare parts? *Husmann* promptly delivers precisely what you need – anywhere in the world. All components and wear parts are constantly available in the central spare parts

warehouse and will be shipped to you directly from there. This naturally includes genuine parts from system partners and leading suppliers.



From on-site consulting to project planning, design, and CAD drawing, to assembly and commissioning – we offer everything from a single source.



*Husmann* delivers with a dedicated truck fleet across Germany and beyond. We ensure that everything will arrive safely at your site.

- personal consultation on site
- dedicated customer service fleet at all production sites
- many service points around the world
- performance of maintenance and repair work as well as accident prevention inspections
- reliable spare parts service
- engineering and project planning
- reliable delivery thanks to dedicated logistics
- installer training at our factories
- financing, renting, leasing  
-It's your choice!

***Our service has a clear goal: Your satisfaction.***



# ENVIRONMENTAL TECHNOLOGY

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**Dedicated to  
the environment and  
the customers  
from the very first**

**Highest efficiency in material  
compaction**

Where large quantities of recyclable materials need to be stored in small spaces or transported as efficiently as possible, the affiliated company *Husmann Umwelt-Technik* can come in. *Husmann* press containers, waste compactors, transfer systems, stationary compactors, and roller compactors clear up more space.

Plenty of material can fit in the smallest of spaces.

Disposal runs are reduced, and costs are drastically lowered. This does not require individual standard procedures: The development department will adapt everything exactly to your individual requirements. *Husmann Umwelt-Technik* always offers ideal solutions for you.

# Husmann®

## Umwelt-Technik



Self-pressing containers



Stationary presses



Roller compactor



Skip containers, roll-off containers

## The right solution for every problem

From skip container to (cardboard) shredder: *Husmann Umwelt-Technik* offers the right solution for your daily work, whatever it may be. No matter whether you only have small quantities of material, very limited installa-

tion space, or material subject to special requirements – our range has been constantly developed based on suggestions from the field through the years.



# WE ARE WHERE YOU ARE!

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## Working for you in

- Europe
- Russia
- China
- USA
- Mexico
- Brazil
- Chile
- Middle East
- Thailand
- South Africa
- Australia

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***Husmann***  
***Zerkleinerungstechnik***

### **Crushing Technology**

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