The Metso Way –
Making the big difference to our customers

Everything we do is based on deep industry knowledge and expertise that makes the big difference to our customers. Decades of close customer collaboration and adapting to our customers’ ever changing needs have transformed us into a knowledge company.

Through our knowledge and experience, we work with our recycling customers to create solutions that enable them to attain their objectives. We call this The Metso Way, which focuses on creating value to our customers. The Metso Way is built upon knowledge, people and solutions.
Choosing the right partner

At Metso, we understand the changing customer needs in the tough environment of metal and scrap recycling. With more than 100 years of experience, Metso has been around, present where our customers need us, overcoming challenges along the way and helping our customers reach their production goals.

Whether your business is big or small, Metso has been at the forefront of providing industry-leading technology and services for all your metal and scrap processing needs. As a true partner, we have worked with our customers around the world, continuously adding expanded value for their business, offering optimum solutions to achieve the highest availability and minimum downtime. With our team of dependable experts being wherever you need us, we ensure that you get more recycling out of your operations.

Our main product range includes automobile shredders and shredder plants, pre-shredders, shears, baling presses, briquetting presses and turnings and metal crushers. We also offer a large selection of advanced metal processing solutions for the fragmentation, compaction and separation of virtually every type of metal scrap.

Knowledge for metal recycling

Metso understands that metal recycling is the sensible choice for much of the world’s industry. Scrap materials do not only prove to be valuable commodities, they also provide a global service in reducing emissions and serving steel production much more efficiently than newly mined ore. Manufacturing steel from scrap uses as much as 74% less energy and around 80% less CO₂, saving on costs and providing a sustainable solution for the environment and industry worldwide.

But expertise does not come overnight, and Metso’s recycling is built over time, from unmatched experience and know-how, developed in close cooperation with the customer. Today, Metso is one of the world’s leading manufacturers of recycling machinery for processing metal scrap for a wide variety of industries, making sure there is a solution for every requirement.

Metso in recycling has benefited from the enduring legacy of technological and mechanical development from brands such as Lindemann™ and Texas Shredder™. These brand philosophies have combined seamlessly with Metso’s deep equipment and process understanding and willingness to grow with the recycling industry.
Proven solutions with expanded value

Metso recycling services, products and solutions are designed with actual customer needs and competitive goals in mind. We have experience in converting the complex requirements of different applications into plant concepts that ensure trouble-free production and help achieve the best possible results for our customers.

Lindemann™ Shears

Lindemann™ EtaCut II
Lindemann PowerCut™ is the new energy-efficient generation of heavy duty scrap shears.

- **Shear force**: 1000 to 1600 t
- **Blade width**: 1000 or 1500 mm / 8 to 10 m
- **Main drives**: 4 to 6 x 103 kw
- **Capacity**: up to 87 t/h

Lindemann™ Balers and presses

Lindemann™ EtaPress™
A triple acting bale processing all types of light scrap, designed for ease of maintenance and outstanding availability, making it an asset for scrap yards and industrial installations.

- **Bale dimensions**: 250 x 250 or 350 x 350 or 400 x 400 or 600 x 600
- **Main drives**: 2 x 90 kw
- **HPU power**: 180 to 390 kw
- **Capacity**: up to 59 t/h

Clamshell Shear/Baler/Logger (NCS)
A TRUE CLAMSHELL SHEAR, SELF CONTAINED ON COMMON FRAME. SUITABLE FOR ALL SCRAP TYPES. SEMI-MOBILE VERSIONS AVAILABLE FOR FAST RELOCATION.

- **Shear Force**: 615, 800, 1000 or 1250 t
- **Blade width**: 900, 1000 or 1100 mm
- **Feeding bed**: 6, 7.5 or 10 m
- **Main drives**: 1 x 55 kw to 3 x 90 kw
- **HPU power**: 45 to 180 kw
- **Capacity**: up to 50 t/h

N-Series shears

Inclined Shears (NIS)
Gravity load shear with fully automatic operation. Especially suited for oversized feed stock and processing wide bales.

- **Shear Force**: 615, 800, 1000 or 1250 t
- **Blade width**: 900, 1000 or 1100 mm
- **Feeding bed**: 6, 7.5 or 10 m
- **HPU power**: 130 to 300 kw
- **Capacity**: up to 55 t/h

N-Series balers and presses

Lindemann™ PowerCut
Lindemann PowerCut™ is a high performance for medium-heavy, bulky mixed scrap steel.

- **Shear Force**: 500 to 1000 t
- **Blade width/Feeding bed**: 800 to 1000 mm / 6 to 8 m
- **Main drives**: 3 or 4 x 500 kw
- **Capacity**: up to 48 t/h

Lindemann™ PowerCut Wing
The Lindemann™ PowerCut™ Wing serves the small scrap part on a stand-by.

- **Shear Force**: 300 or 500 t
- **Blade width/Feeding bed**: 800-1000 mm / 6 m
- **Main drives**: 2 or 3 x 500 kw
- **Capacity**: up to 25 t/h

Lid Baler (NLB)
Lid type baler with pre-feeding hopper. Excellent for processing general sheet scrap and clippings, suited for indoor and outdoor operation.

- **Bale dimensions**: 270 x 250, 350 x 350 or 400 x 400 or 600 x 600 mm
- **HPU power**: 37 to 270 kw
- **Capacity**: up to 30 t/h

Shredders

TexasShredder™ PS
Texas Shredder™ PS puts the power into shredding with a robust build capable of processing a wide variety of materials. Includes a cutting-edge autoplatform control system to maximise throughput.

- **Drive power**: 750 to 10000 hp
- **Capacity**: up to 30 t/h

Lindemann™ ZZ
Lindemann™ ZZ is a heavy-duty shredder suitable for light to medium heavy scrap with unique features ensuring highest uptime and throughout performance.

- **Drive power**: 680-10000 hp
- **Capacity**: up to 350 t/h

Crushers

Lindemann™ ZM
Lindemann™ ZM is an efficient, low-maintenance crusheer for processing aluminium scrap, electronic scrap and various types of steel scrap.

- **Drive power**: 75 to 270 kw
- **Capacity**: up to 12 t/h

Pre-shredders

Lindemann™ EtaRip
Lindemann EtaRip™ offers improvements in efficiency by pre-shredding small and ELV. Maximum production output and better triturating better quality scrap, and the significantly reduced risk for explosions make this a great asset for scrap yards.

- **Capacity**: up to 110 t/h
- **Capacity Bale density**: 0.8 t/m³
- **Capacity Bale density**: up to 50 t/h

Post-shredder technology

**Metso Balance Crane** helps you optimise your scrap and metal recycling operations with easy and efficient machine operation, low maintenance, rugged construction, and fast functionality.

- **Full range duty cycle lift**: 4.5 m
- **Limited range duty cycle lift**: 5.5 m
- **Reach**: Out: 29 m In: 7 m, Down: 12 m, Up: 3 m
- **Boom operating angles**: 18 to +90°
- **Stick operating angles**: +45 to +90°

Value adding, whatever your application

Metso serves a large range of industries, including scrap yards, steelworks, automotive, and aluminium industries, which all rely on tough, high-quality products and equipment for scrap and metal recycling requirements.

- Processing of heavy scrap with scrap shears and producing HMS I/II
- Baling automotive production scrap
- Improving steel works melting performance and scrap logistics
- High-quality ferrous or coolant scrap, further retrenching of NF and non-metal, and NF metal refining with post-shredder technology
- Options also offline for central processing from several yards
- Emission reduction with post-shredder and dedusting solutions
Customer Case: Pacific Steel and Recycling, USA

Pacific Steel and Recycling wanted to streamline operations and stay competitive in a difficult market. Processing some 500,000 tons of ferrous and non-ferrous scrap a year, it was clear that designing the ideal plant with the right equipment was the answer.

Challenge
• Streamline operations at the new plant in Montana
• Increase capacity and efficiency to stay competitive
• Save on costs

Solution
• Find the best equipment with a long-term view in mind
• TexasShredder™ PS 80/104 and Lindemann PowerCut™ 1025 stationary shear were chosen for the job

Results
• Enhanced efficiency
• Increased capacity
• Improved quality of bales
• Denser bales reduce transportation costs

Pacific Steel and Recycling was facing a challenge: to streamline operations and stay competitive in a difficult market. Processing some 500,000 tons of ferrous and non-ferrous scrap a year, the company realized that designing the ideal plant with the right equipment was the answer.

To meet this challenge, Pacific Steel and Recycling decided to find the best equipment with a long-term view in mind. Two options were chosen: the TexasShredder™ PS 80/104 and the Lindemann PowerCut™ 1025 stationary shear.

The results were significant:
• Enhanced efficiency
• Increased capacity
• Improved quality of bales
• Denser bales reduce transportation costs

By choosing the right equipment, Pacific Steel and Recycling was able to boost its efficiency and capacity, making it more competitive in the market.