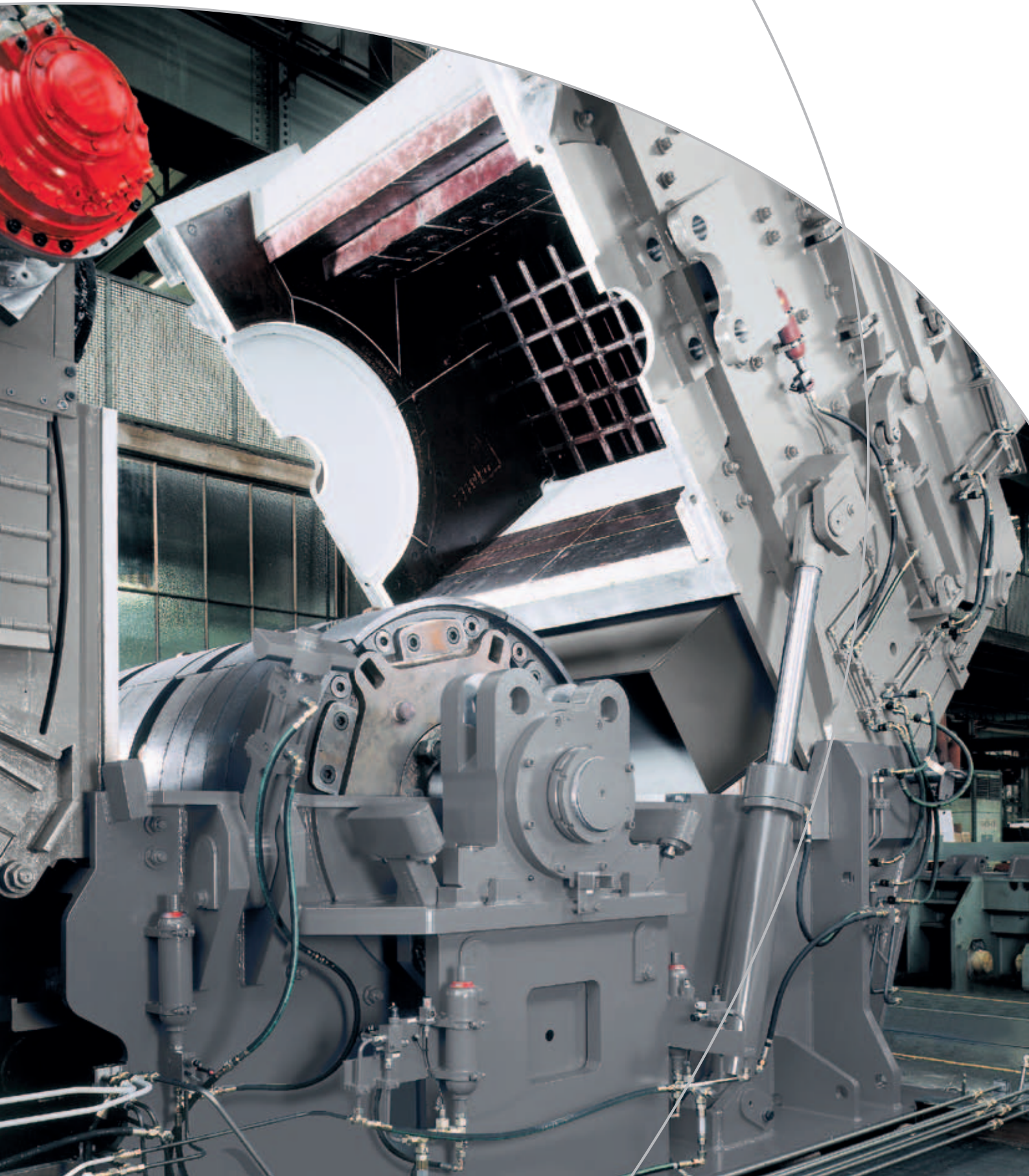
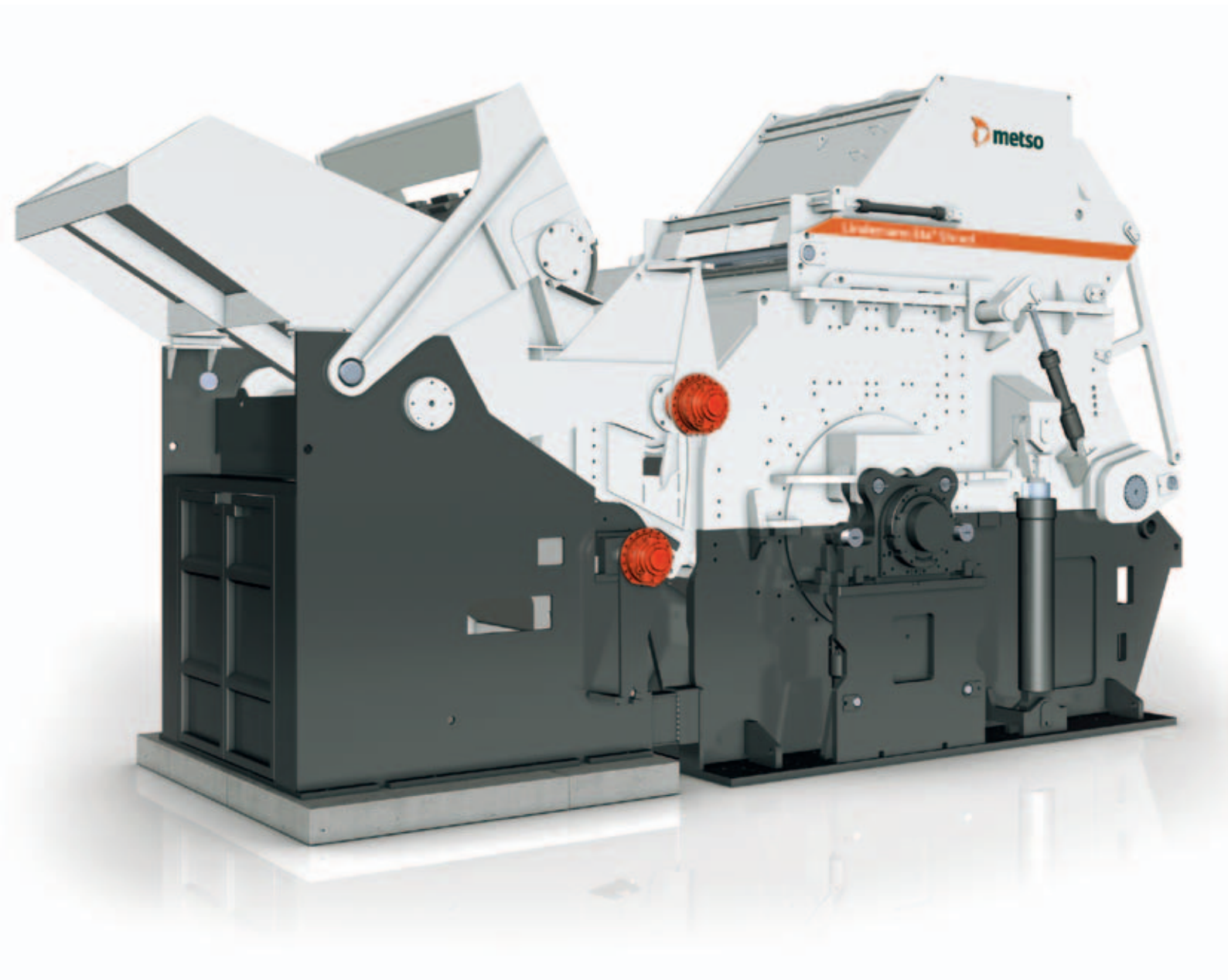


Shredders from Metso Recycling
Metso EtaShred®







Metso EtaShred® series

Solid and state-of-the-art shredder technology

Metso Recycling offers the Metso EtaShred® series for the cost-effective processing of light to medium-heavy mixed metal scrap, including bales. Metso Recycling has installed a large number of shredders around the world, and by choosing us you work with a supplier who knows exactly how a shredder must be designed and engineered for long-term economic operation.

Low specific energy requirements, high production figures, flexible operating capabilities, outstanding availability and a cost-saving maintenance and repair concept result in favorable operating costs for the Metso EtaShred® series. As production behavior such as particle size and scrap density is regulated by hydraulically operated devices, product quality demands can be set at the touch of a button.

Appropriate measures are taken to comply with the limits on dust, noise and vibrations specified by the national authorities. As far as special project requirements are concerned, we have developed processes which completely eliminate the need for shredder de-dusting.

Highest availability on the market

High operating reliability

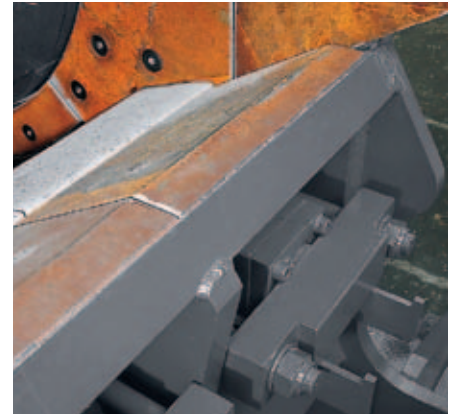
Several protective features increase availability and prevent or minimize the risk of damage due to overloading by the unavoidable unshreddable pieces of scrap.

Hydraulic locking of the rotor bearings enables the rotor to escape in the event of solid pieces between the rotor and the housing getting bottom. A hydraulically operated ejection door enables solid unshreddables to be removed during operation.

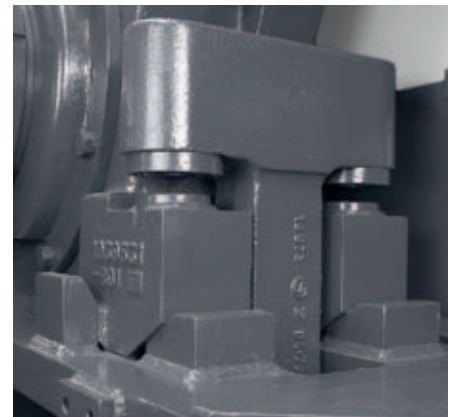
The hydraulic anvil clamping device eliminates the need for regular checking and tightening of anvil screws, which tend to loosen under continuous impact stress. Furthermore, the hydraulic device simplifies anvil changing. Our special Metso Recycling "long-life caps" protect the hammer pins as well as the rotor disks and increase the flywheel effect of the rotor, so that fewer energy peaks occur.



Long-life cap



Hydraulic anvil locking device



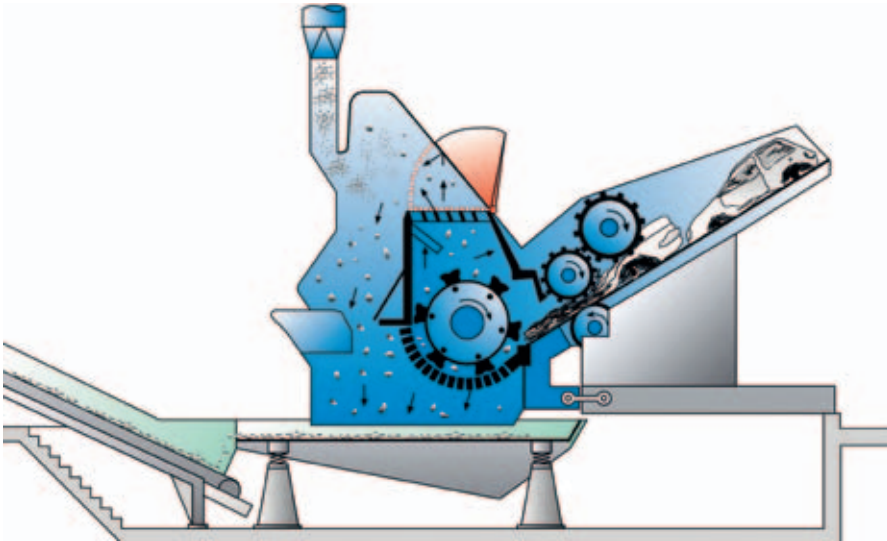
Hydraulic locking of rotor bearings



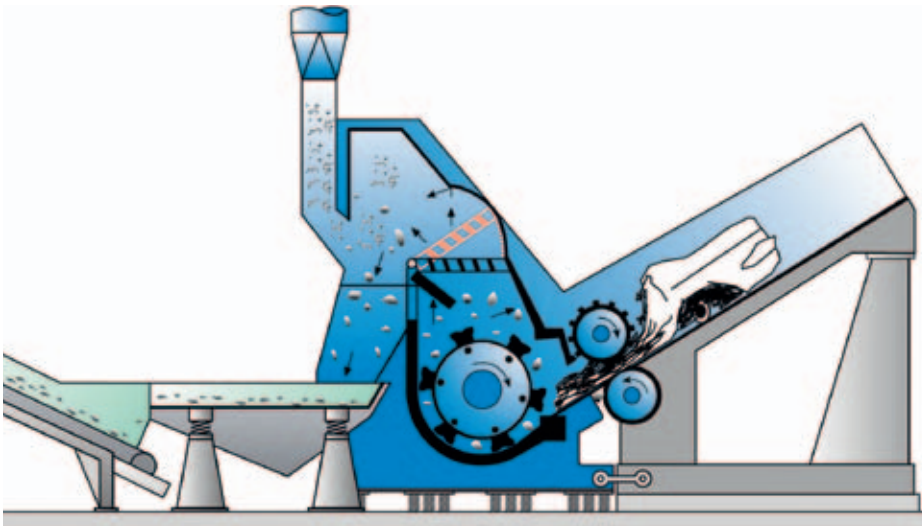
Rotor lifting device



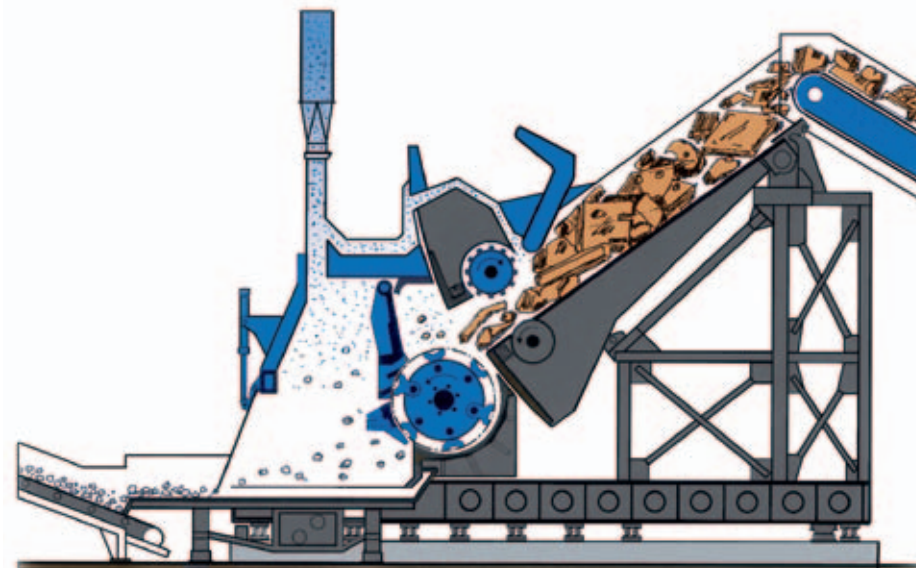
Hydraulic device for disassembly of hammer axes



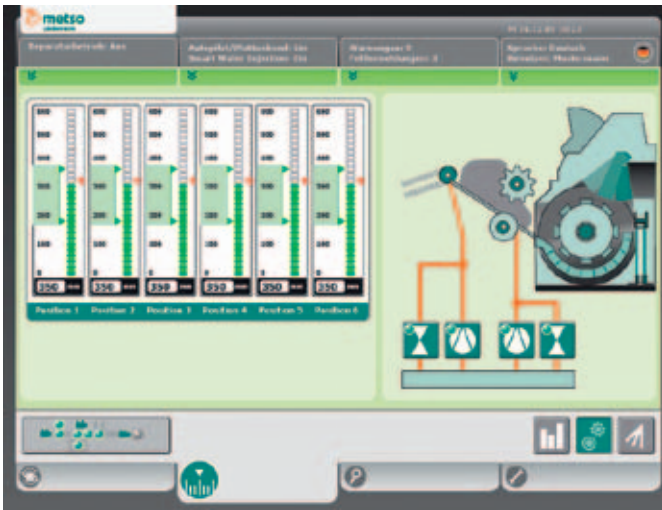
Top and bottom discharge shredder,
Metso EtaShred® Zerdirator



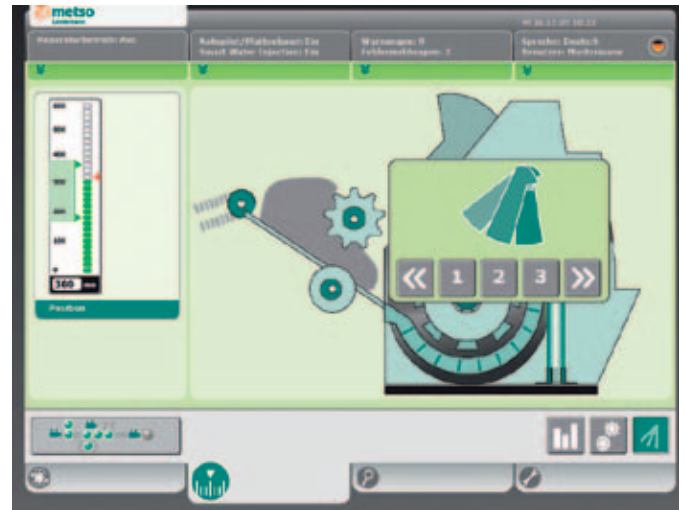
Top discharge shredder,
Metso EtaShred® Shredder



Side discharge shredder,
Metso EtaShred® Kondirator



Plant control system (PCS)



Controlling productivity

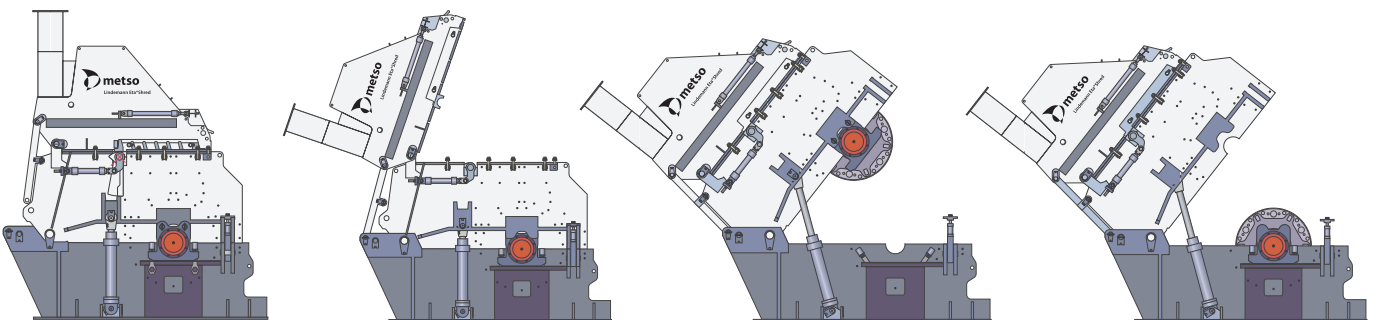
Plant control one of the best systems

Using our Metso Recycling Plant Control System (PCS) for process and cost supervision means a wide range of operational data can be visualized, enabling the plant management to evaluate current operation efficiency, see the reasons for downtimes over a given period, and learn the specific influence on wear and energy consumption of different input materials. Furthermore, PCS greatly simplifies maintenance planning.

Saving time and money

Quick and easy maintenance

Our design features help save time and money by facilitating inspection and maintenance work. The hydraulic housing locking makes it easy to lock and unlock the middle and lower housing sections. The hydraulic device for disassembling the hammer axles speeds up hammer exchange. Our rotor lifting device makes for easy access to lower parts of the machine. The PLC Telediagnosis via Teleservice, which is available as an optional extra, offers quick assistance with trouble shooting. Problems involving electronics and software can be solved without delay by our service engineer from his office. Moreover, the right expert and the necessary spare part can be identified in the event of mechanical problems.



Excellent accessibility for service and maintenance



Ready for every task

Range of application



Aluminum scrap



New sheet scrap



Mixed scrap

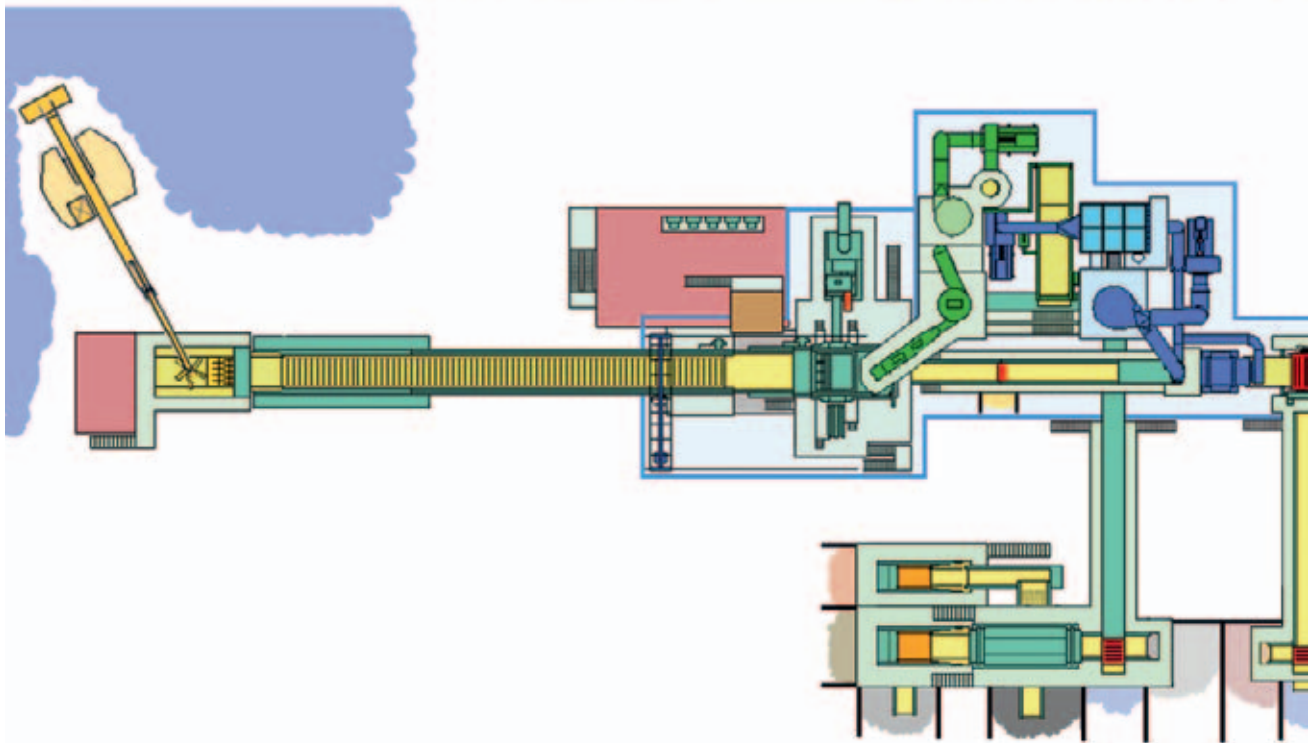
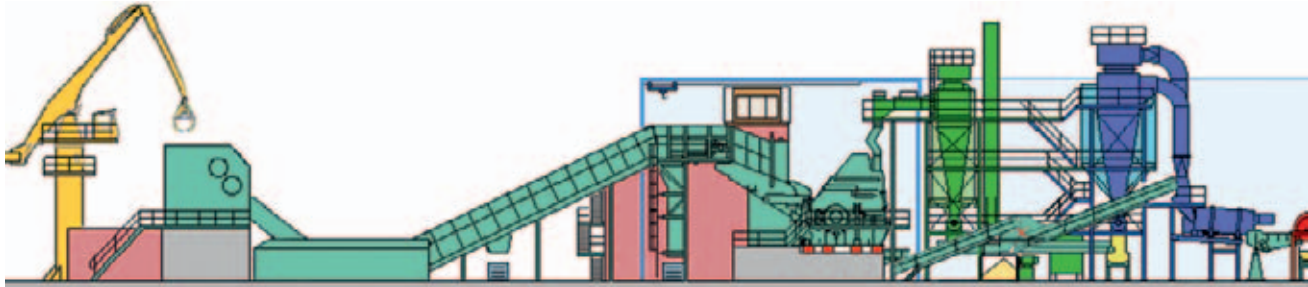


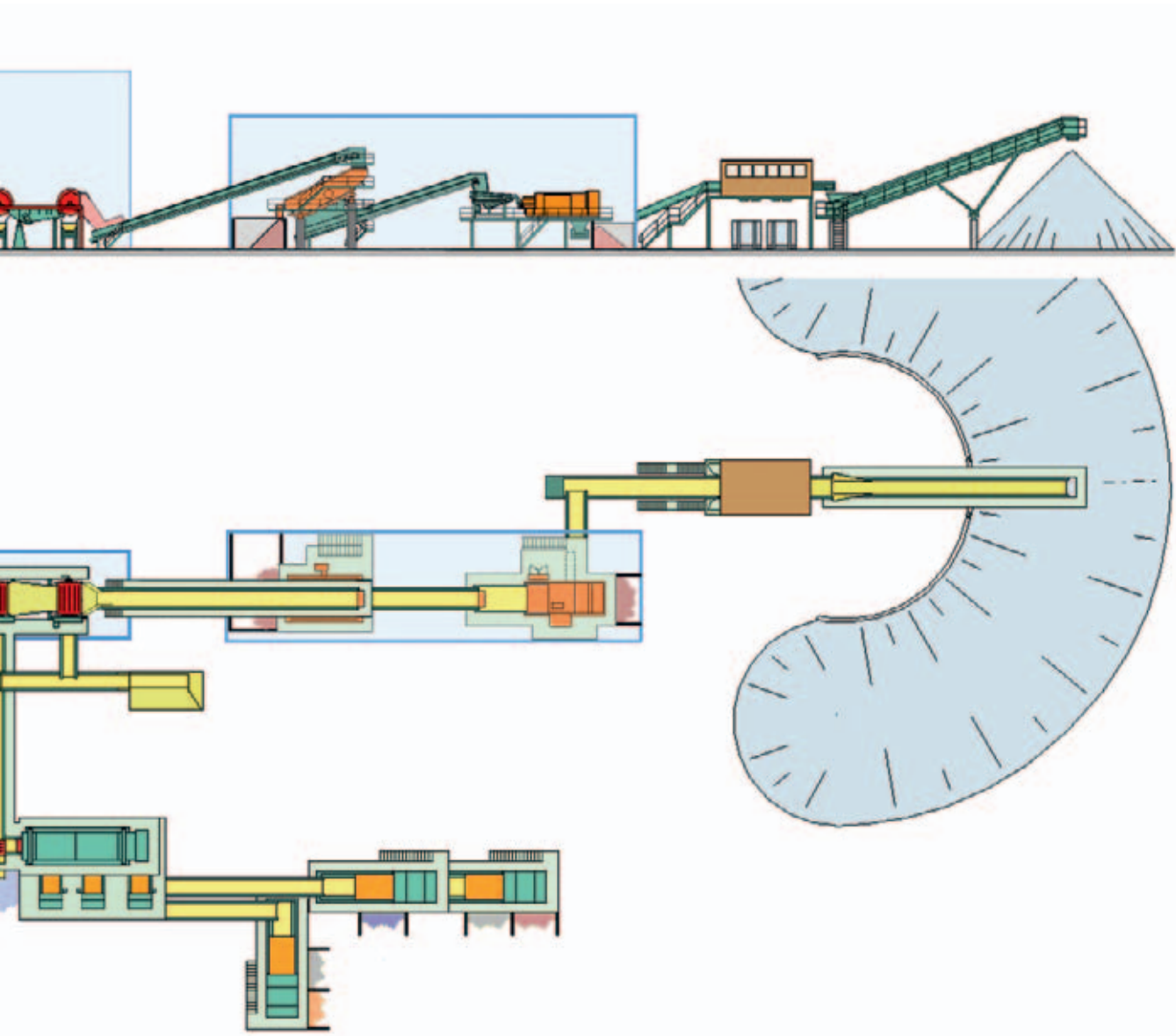
Car bodies



With the expertise of the market leader

Design of a Metso EtaShred[®] plant





Metso Recycling Equipment

Our range:

Pre-Shredders
Shredders
Shredder Plants
Metal Crushers

Scrap Shears
Turnings Crushers
Briquetting Presses
Double Screw Presses
Anode Crushers

Screen Drums
Scrap Baling Presses
Waste Fine Shredders
Waste Pre Shredders

Metso Recycling Services

Uptime Services

Inspection Services
Parts Services
Repair and Refurbishment
Troubleshooting Services

Performance Services

Process Monitoring Services
Optimization Services
Upgrade Services
Training Services

Project and Engineering Services

Start-up Services
Health, Safety and Environmental Services
Engineering Services
Plant Relocation Services

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www.metso.com/recycling

We reserve the right to make changes and improvements without notice, „Metso EtaShred®“, Metso Recycling, December 2013