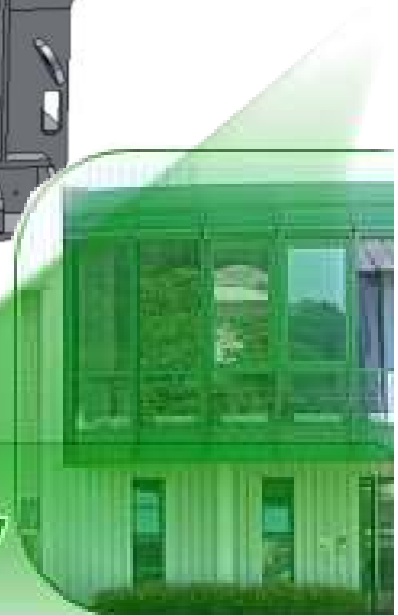
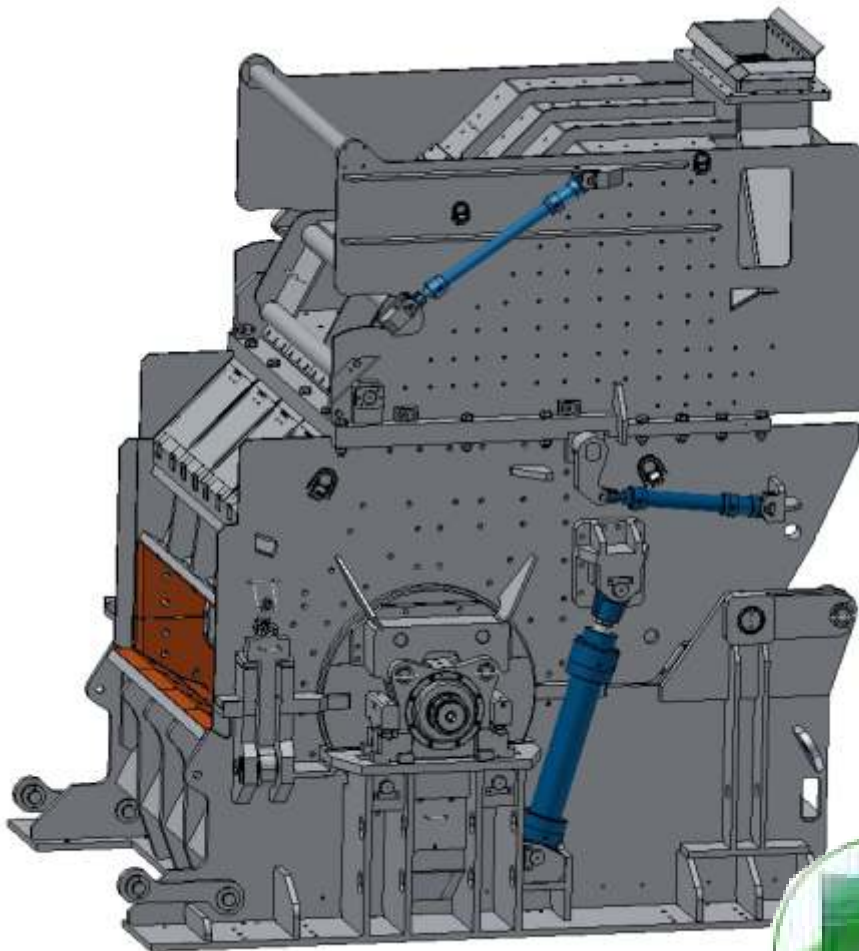


# COMES Environmental Engineering

Recycling in favour of the Environment



**Maschinen- und Apparatebau**

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## COMES Environmental Engineering

### Recycling in favour of the Environment

Comes Maschinen- und Apparatebau (Machine and Apparatus Construction) GmbH is an accredited and specialist firm in the welding of fine grain construction steels and offers an extensive product range which includes recycling machines of the best quality. All recycling machines are manufactured in accordance with the current safety regulations and quality assurance measures. Comes' recycling machines are identified by their high level of durability and applied load reserve. Recycling machines by Comes are easy to handle, totally stable and wear-resistant. Recycling machines from COMES - a product, which will convince you.



**COMES Environment Engineering designs and manufactures recycling machines and equipment based on the individual requirements of the customer.**

Our engineers have a solution for every situation. Custom-tailored and enhanced on a constant basis, our robust products have proven their value in the field.

The knowledge of the employees, together with the high standard of machinery, and the complimenting Business Park, is the company's base for innovation.

From shredders to media separation plants and de-dusting equipments to complex constructions, COMES offers, even to future clients, an individual tailor-made machine in accordance with today's standards.



## An Overview of the Products

- Schredders 400 - 6000hp
- Media separation plants
- Conveyor Belts
- Sieve Drums
- Rotary feeders
- Repairs, Upgrades and Rebuilding
- Spares and Replacement of wear and tear parts



With 'know how', experience, quality and reliability, Comes has grown in the last decades and will continue to meet the customers' stringent and high demands.



## Conveyor Belt for a 1200 tons Scrap Shearing Machine







## Manufacturers Qualifications

DIN 18800 Teil 7 Abs. 6.2

DIN 15018 „Krane“

DIN EN 13155 „Lose Lastaufnahmemittel“

DIN EN 3834 Teil 2

Recognised manufacturer certified in compliance with Pressure Equipment

Directive 97/23/EC, in conjunction with AD 2000-HP 0

Pressure Equipment Directive 97/23/EC in collaboration with GTÜ

Specialists for § 19 I WHG

## Procedure Test for:

S 690 QL Steel plate

S 890 QL Steel plate

S 960 QL steel plate

StE 770 Pipe

S 355 J2+N Steel Plate

S 355 J2H rigid frame slab DIN 18808

## Welders with welder qualifications in accordance with DIN EN - 287 -1 and machine operator qualifications in accordance with DIN EN 1418 for:

Welding process	135	fine grain structural steel
Welding process	135	normal and high grade construction steel
Welding process	111	normal and high grade construction steel
Welding process	141	high grade steel
Welding process	121	

## External Testing Companies

SGS TÜV GmbH

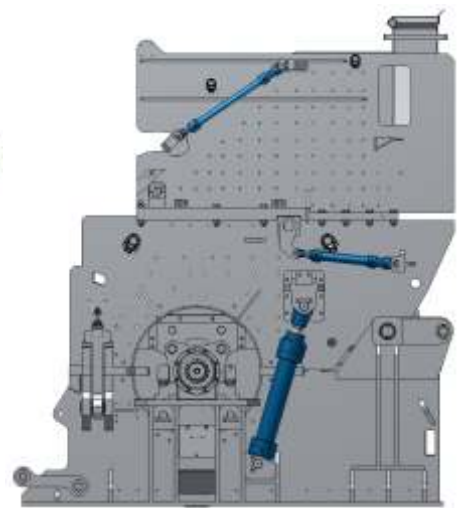
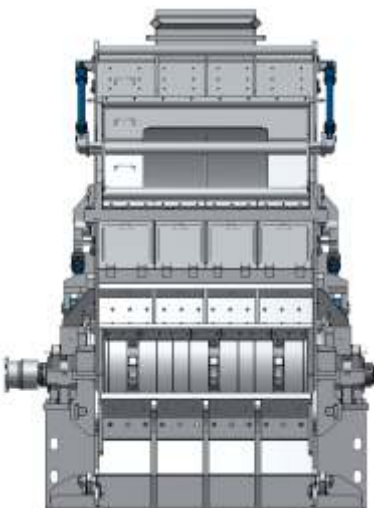
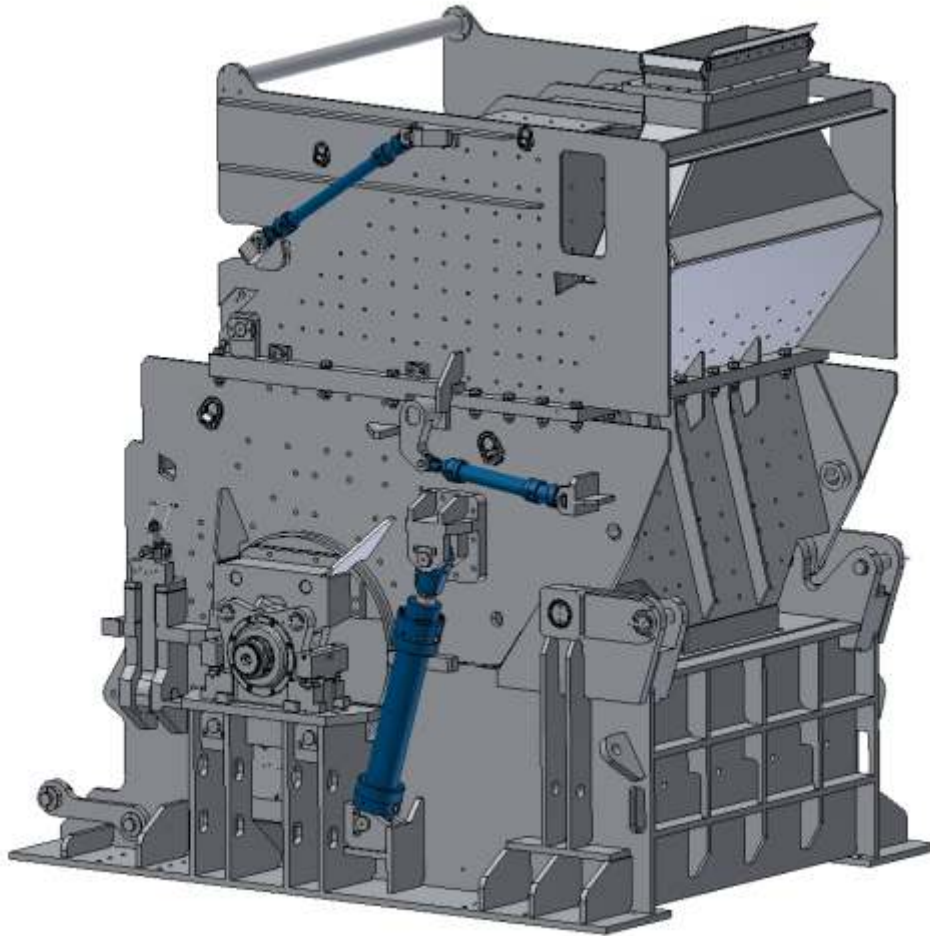
TÜV Rheinland Holding Aktiengesellschaft

GTÜ Gesellschaft für Technische Überwachung mbH

GSI Gesellschaft für Schweißtechnik International mbH

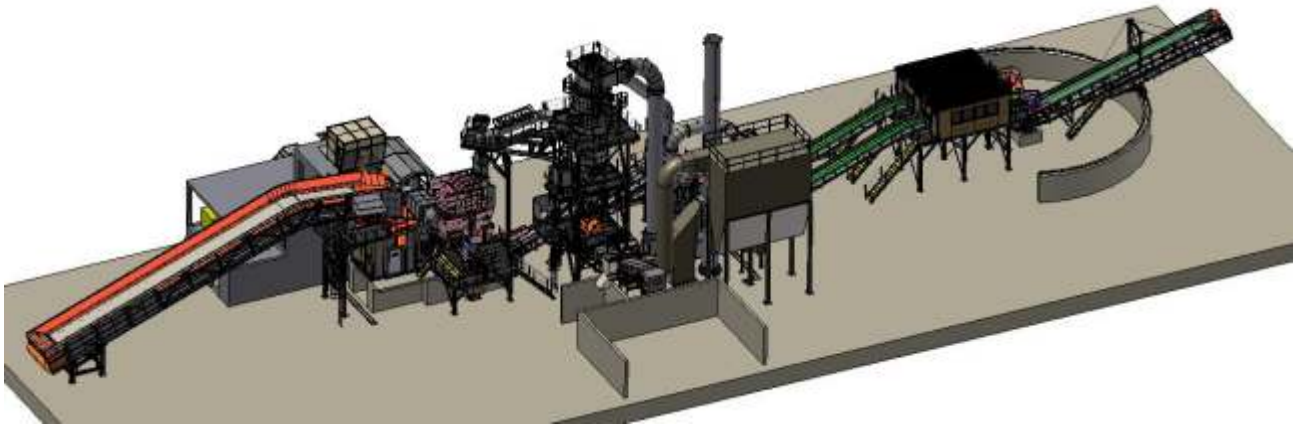
SLV Schweißtechnische Lehr- und Versuchsanstalt Saarbrücken

## Shredder with double output

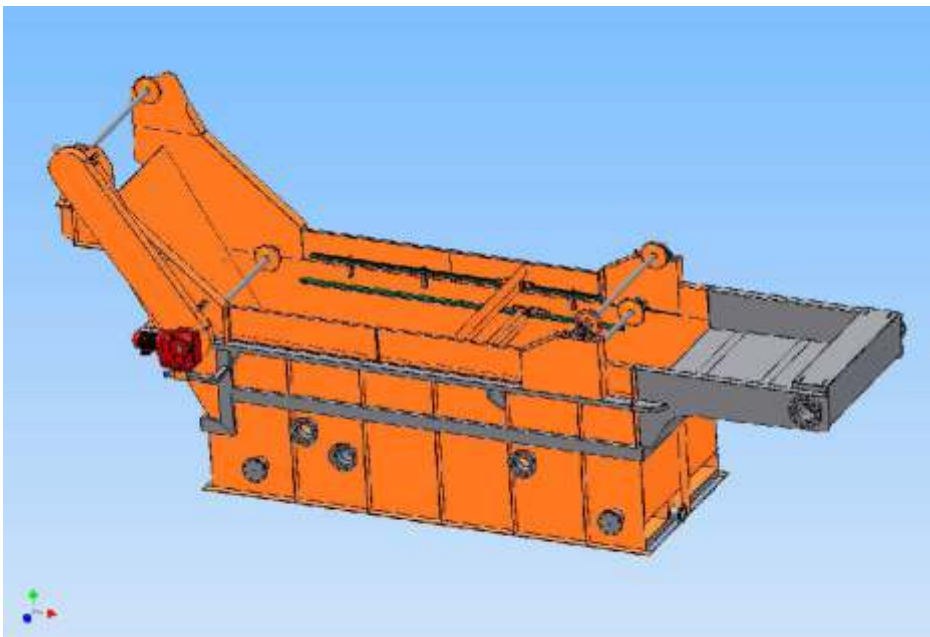


## Shredder device as complete plant

- Driving power up to 6000 PS (5917 hp) - based on customer requirements
- Shredder Devices with double output



## Mud Excavator for Wet De-Dusting (Venturi - Scrubber)





## Media Separation Plant – Working Drum



## Conveyor Belt for a Scrap Shearing Machine



Self weight 45 tons

## Repairs and Rebuilding of Rotors

- Newell
- Metso
- Hammermills
- Metpro
- Henschel
- Parfer
- Lynx
- Hoffmann



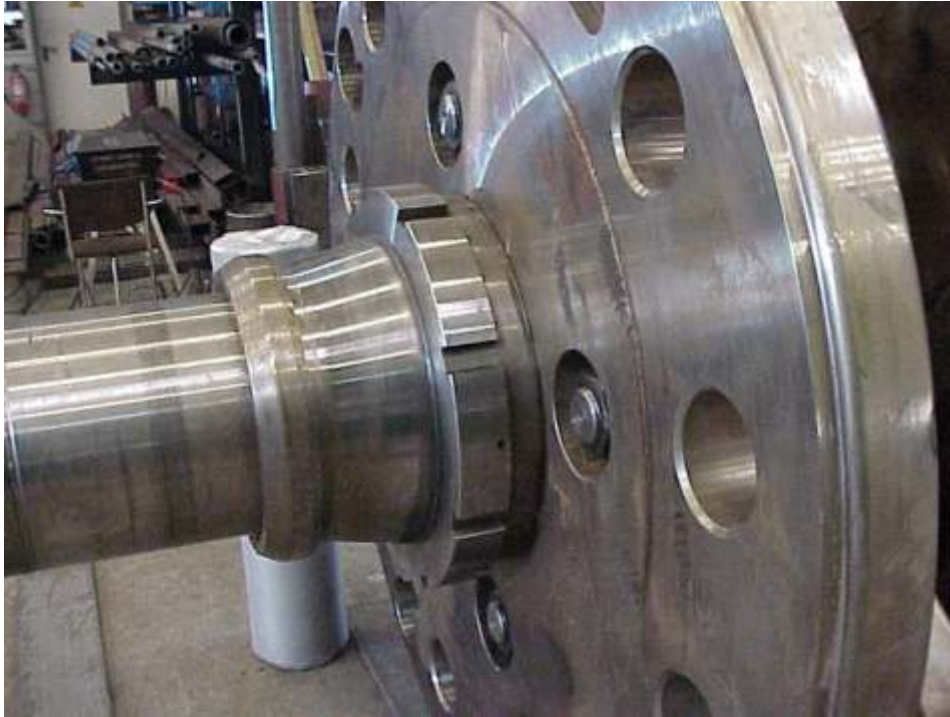
## Rotor 175 x 260 after rebuilding



**Assembly of Rotors with new protective Caps**

**Repair of rotors and bearing housings**

## Manufacturing, repairs and changes of rotors



**Rotor for assembling with protective caps  
Free surfaces protected by hard welding**





## **Manufacturing, repairs and changes of steel plate conveyor**



## Manufacturing of conveyor links and chain links



## Manufacturing of a steel plate conveyor (net weight 80 tons) with pin chain



## Housing of a screen drum

## Manufacturing of rotary feeders with one or two service doors



## Manufacturing of screen drums with 3 to 9 screen sections 1 screen section = 1340mm

The screen plates are screwed on and interchangeable.  
Design and manufacturing based on customer demand.



**Separation drum**

**screen drum with  
6 screen sections**

## Maintenance of common wear parts



We deliver protective caps for each type of rotor.

We deliver parts with hard welding based on customer demand. Our own warehouse ensures short response times.

As a result of our in house design department and our long standing experience our manufacturing is based on customers demand.



## A few examples of repairs and upgrades:

Repairs in the lower section of a Newell-shredder



**Before the repair**



**During the repair**



**During the repair**



**After the repair**

## Maintenance of scrap shears and scrap presses



**Shear bed**



**Slitter carriage after upgrade**



**Frame after repair**



**Tamper after repair**

Based on our qualified personnel we ensure a perfectly workmanship in all types of machines.



**Our personnel will be trained in safety and technology at regular intervals.**



**The necessary equipment for repairs will be available in maintenance containers.**



**Production Plant 1: Seiferstraße 16 • Trier - Ehrang - piece weight 50/80 Tons**  
**Production Plant 2: Montanstraße 12 • Trier - Hafen - piece weight up to 200 Tons**



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