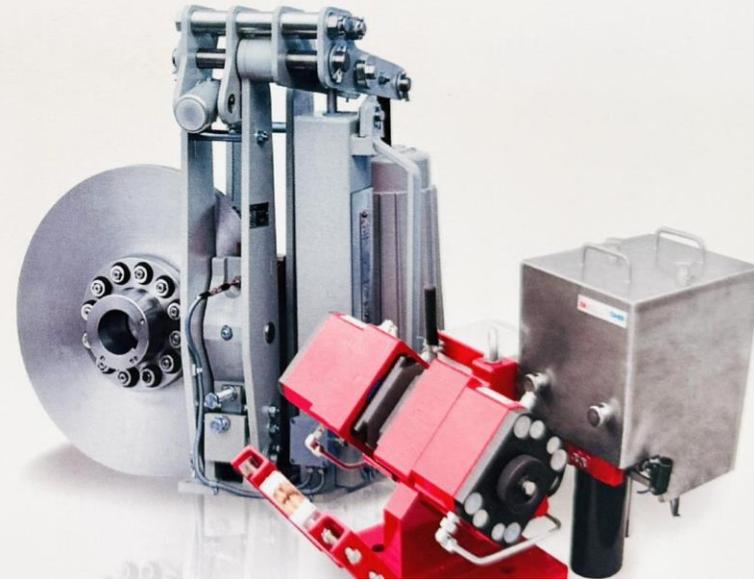


**MOTION  
MEETS  
SAFETY.**



**SHB<sup>®</sup>**

**BRAKES & COMPONENTS**



# Our company— High Performance Products



Our combination of modern mechanical engineering, innovative control technology and individual steel construction solutions sets standards in today's conveyor technology.



We design and engineer custom-made components for cranes, railway and conveyor technology.



Our first-class service guarantees high plant availability through constant availability and competent customer support!

# SHB HEBEZEUGBAU IN ZAHLEN

Established

**1948**

Production area

≈ **10.500 qm**

Employees

**81**

Annual turnover

≈ **12,0 Mio. €**



# SHB Saalfeld— in the centre of Germany



## Saalfeld – State Thuringia – in the middle of Germany

excellent logistical connections:

- North-South → Highway A9
- East-West → Highway A4
- modern connection for rail and bus traffic
- International Airport Frankfurt/Main

# Our Product Range

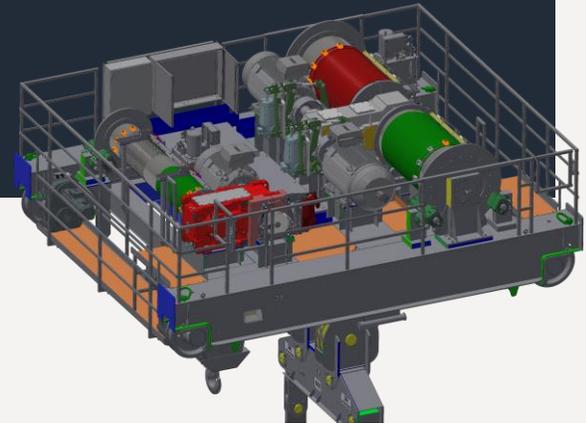
Railway  
technology



Conveyor  
technology



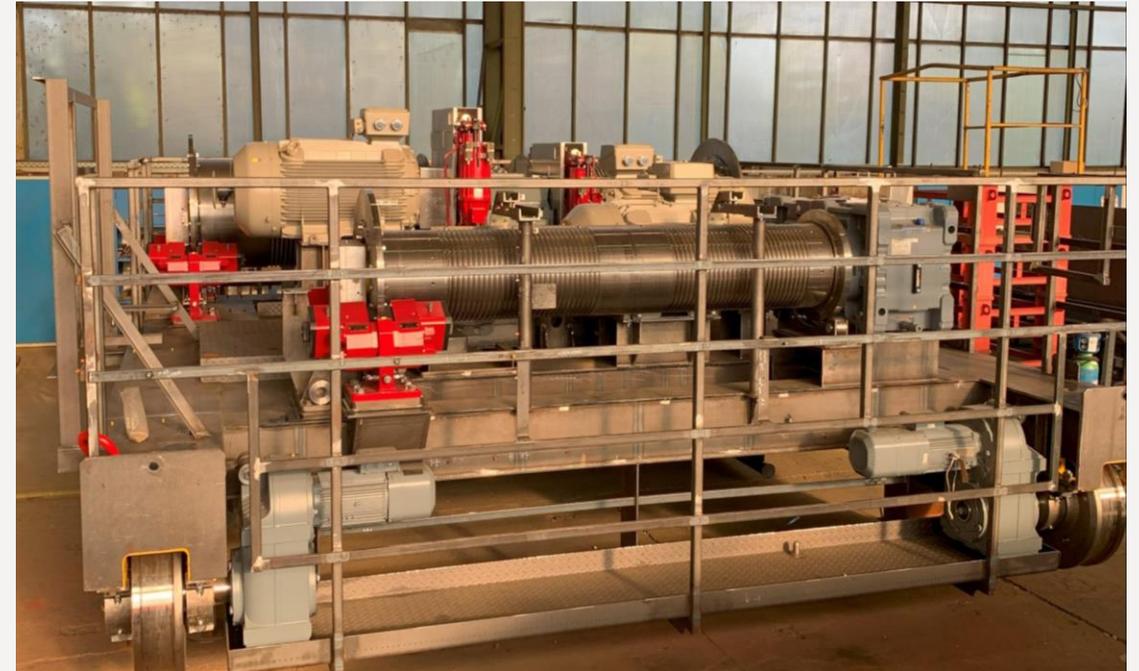
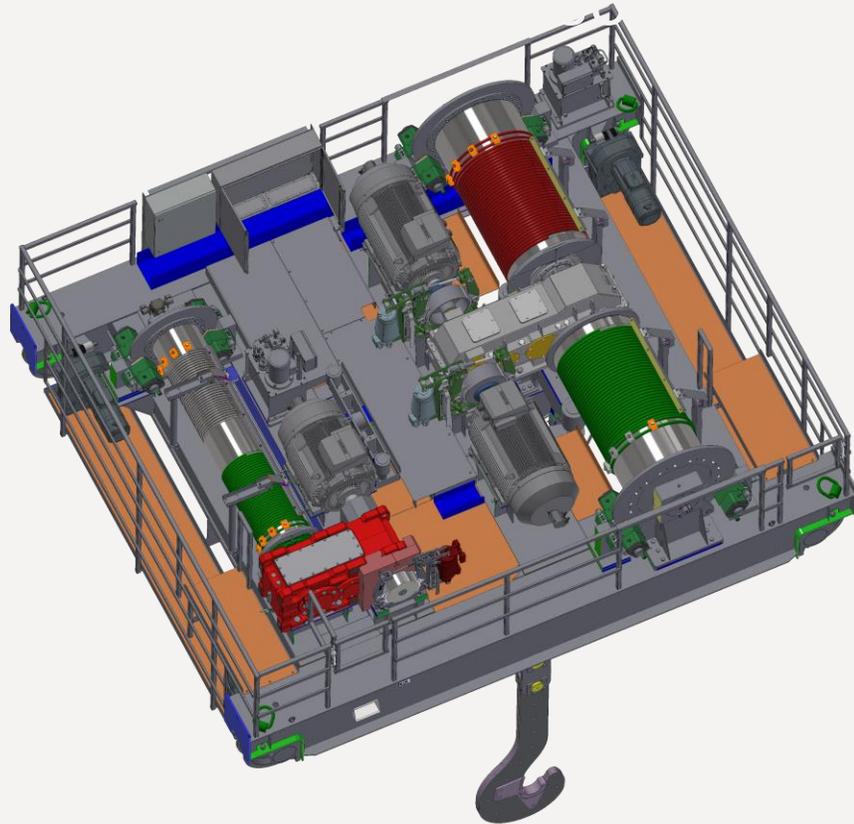
Crane trolley



 **Trolleys**

# Crane trolleys

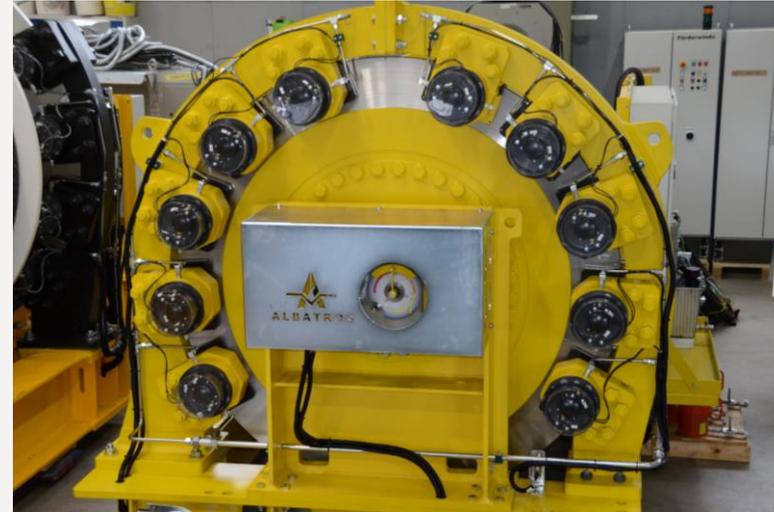
- Design, manufacturing, and assembly of special solutions around trolley construction, including overhaul!





**Conveyor technology**

# Components — Conveyor technology



# Product range

- Extensive product portfolio for components of crane, conveyor and drive technology.

## Drum brakes

acc to DIN 15435 or TGL 38302 and customrt solutions,  
Fail-safe principle, elektrohydraulically operated.

## Disc brakes

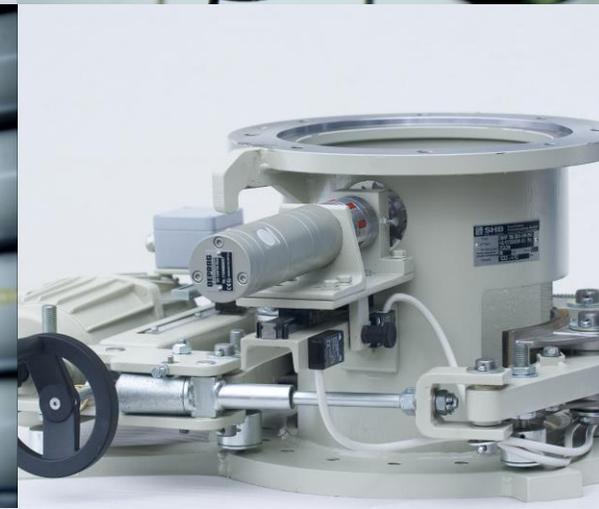
Fail-safe principle, electrohydraulically operated or as  
safety disc brakes for lifting and retracting devices for  
passenger transport

## Running wheels and wheel sets

## Hydraulic buffers

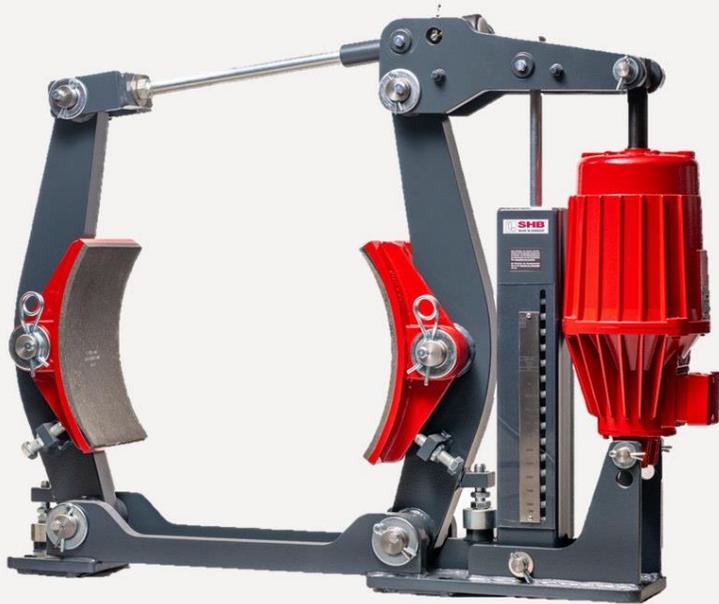
## Rope drums

**Shock absorber, couplers and draw gears** for  
railway technology



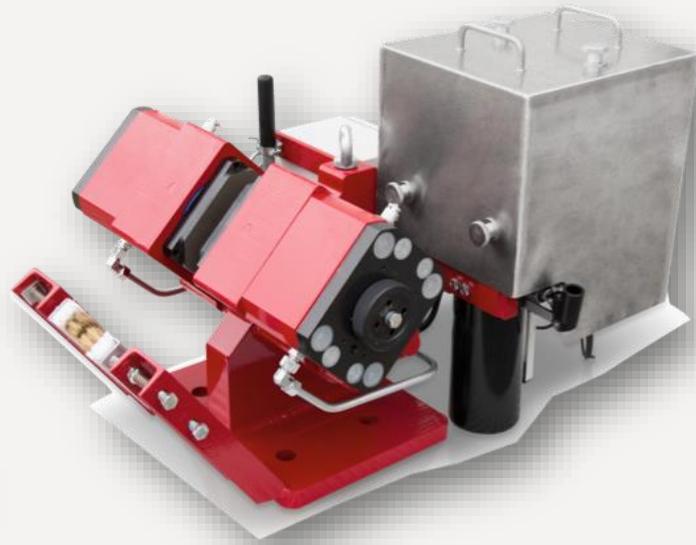
# Drum brakes

- In different model series with various requirements up to 800mm brake drum
- diameter and up to 20.000 Nm braking torque.



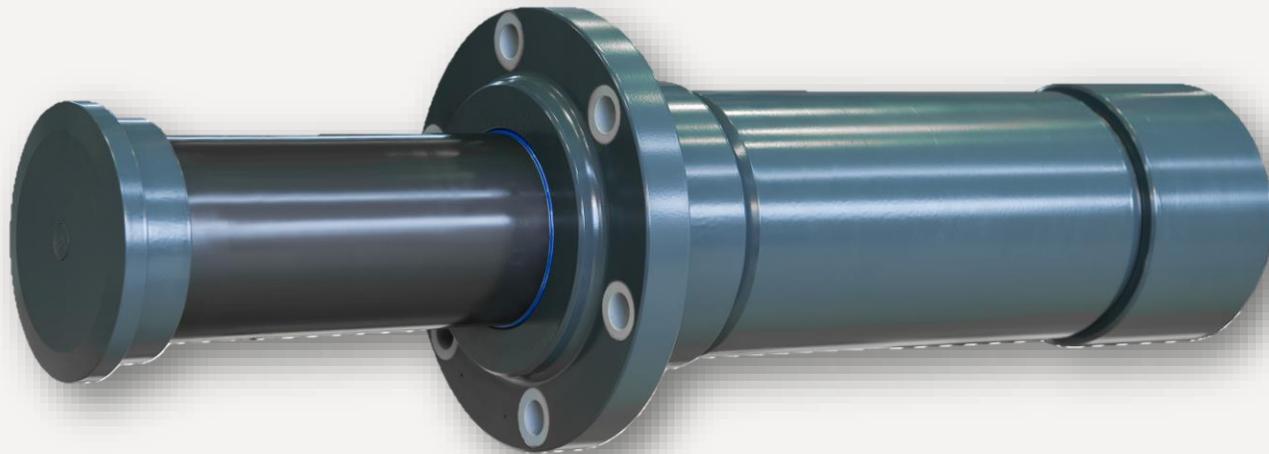
# Emergency disc brakes

- Emergency disc brakes up to an application force to 450 kN.



# HYDRAULIK Buffers

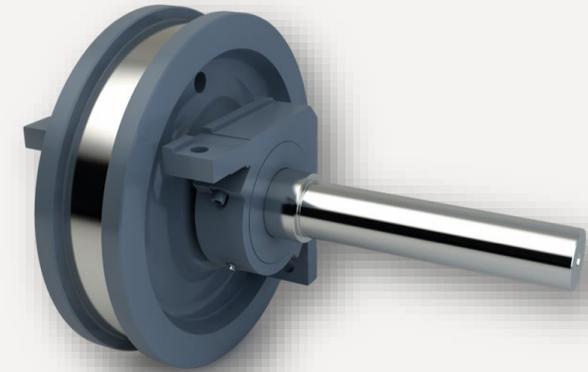
- Buffers for cranes and railway technology.
- Piston diameter from 50 mm to 160 mm
- Stroke lengths from 50mm to 1600 mm



# Running wheels and running wheel sets

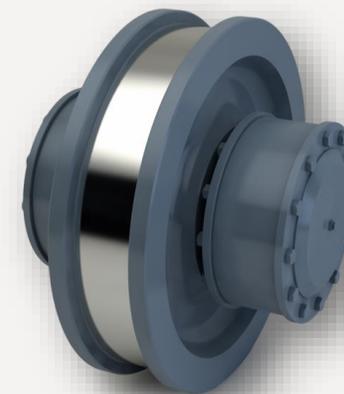
## Running wheel

- According to factory standard SHN 3302/03
- Interchangeable with TGL 34968
- Diameter: from 315 to 800 mm



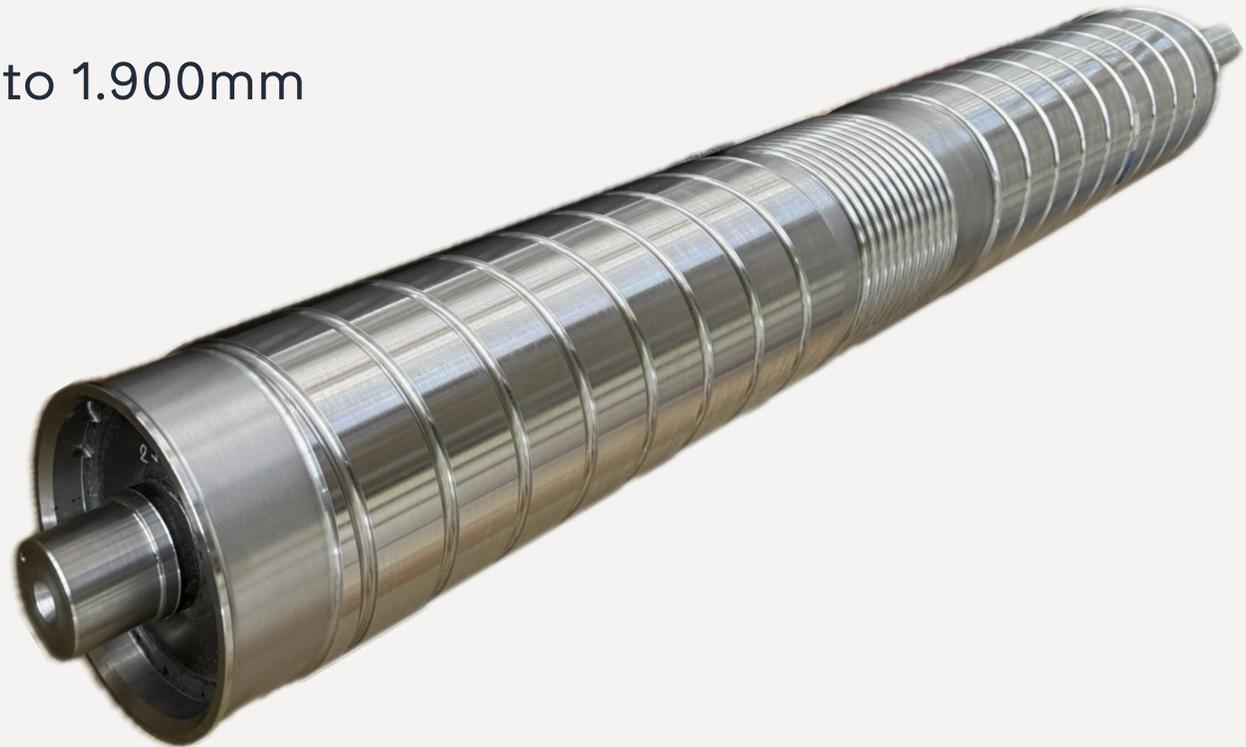
## Running wheel sets

- According to DIN 15090
- Diameter: from 315 to 800 mm



# Rope drums

- For crane technology – in standard and customized
  - Length up to 4.000mm, diameter up to 660mm
  - Pin diameter 240mm, Length up to 1.900mm
  - Board Disc up to 820mm



# Applications

Drum and disc brakes for hoists

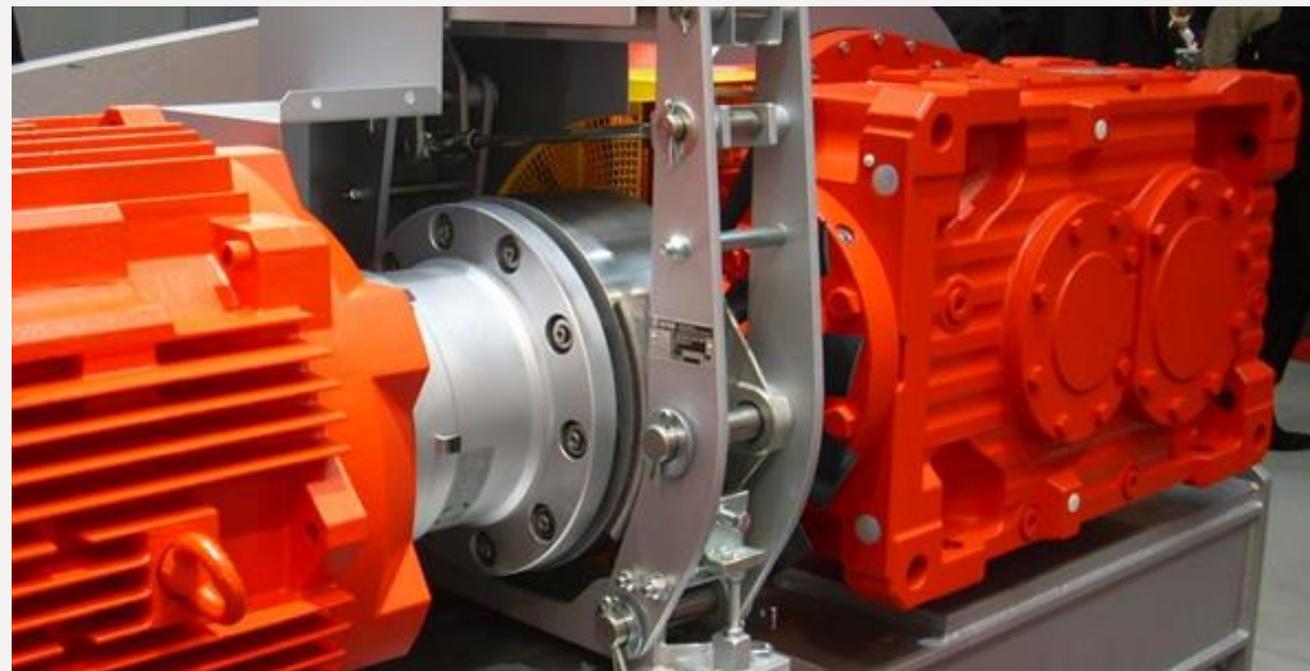
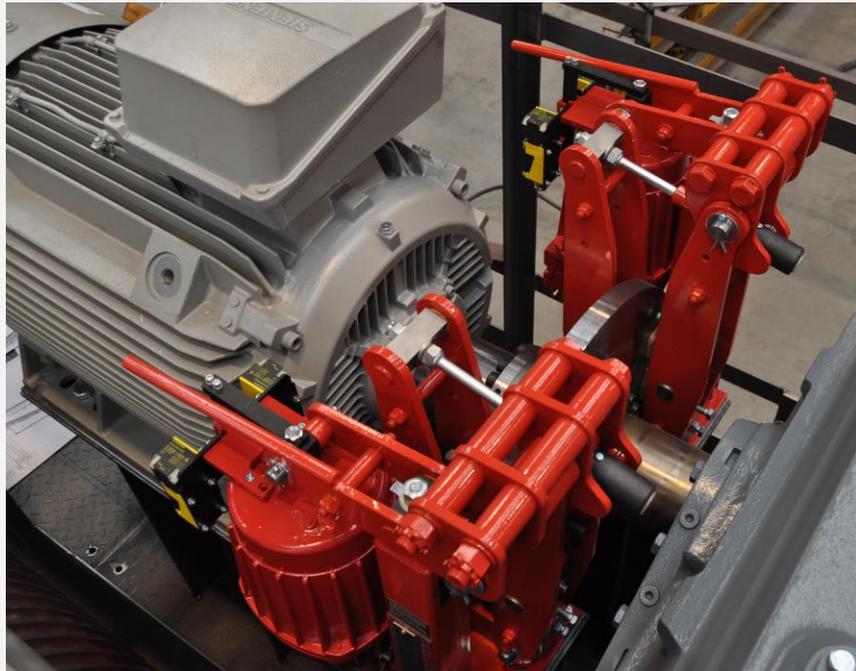


**ArcelorMittal,**

📍 **Krakow, Poland**

# Applications

Drum and disc brakes for hoist and driving unit or conveyor drive



# Applications

Cable cars for passenger and material transportation

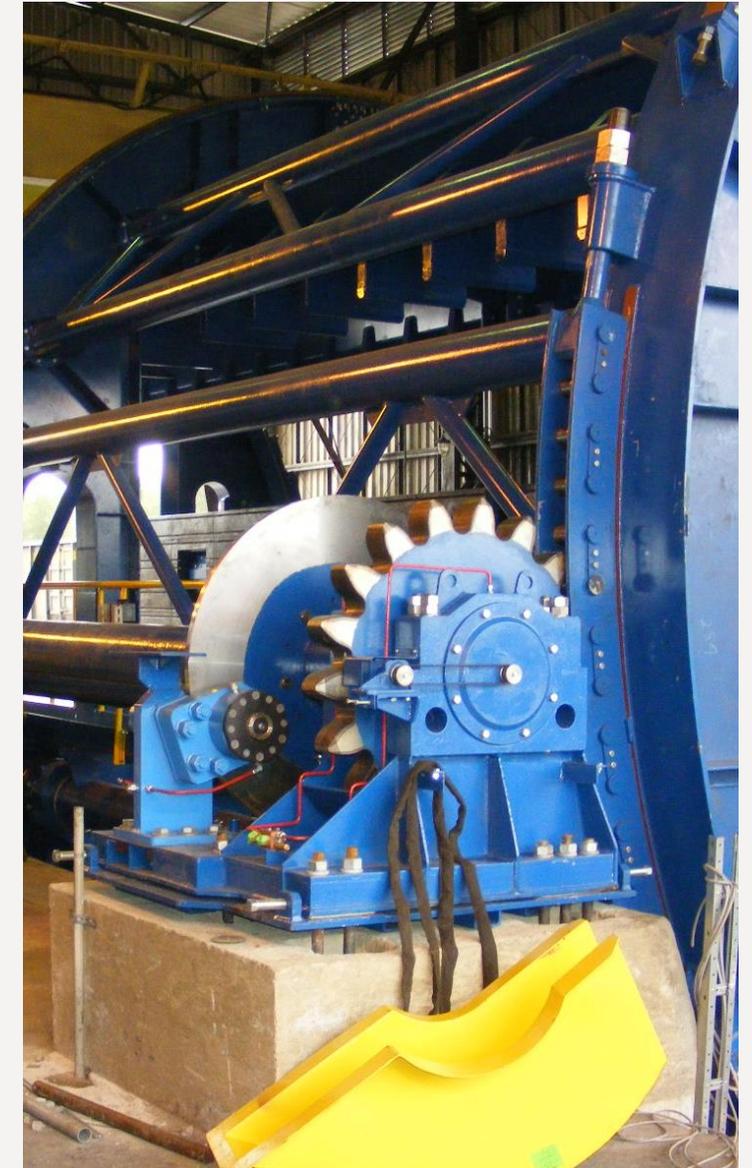


**Kandersteg,**

 Switzerland

# Applications

Emergency brakes for wagon tipping system for bulk material handling



Opole,  
Poland



**Railway Technology**

# Components — Railway Technology

Motion meets safety



HIGH QUALITY  
MADE IN GERMANY

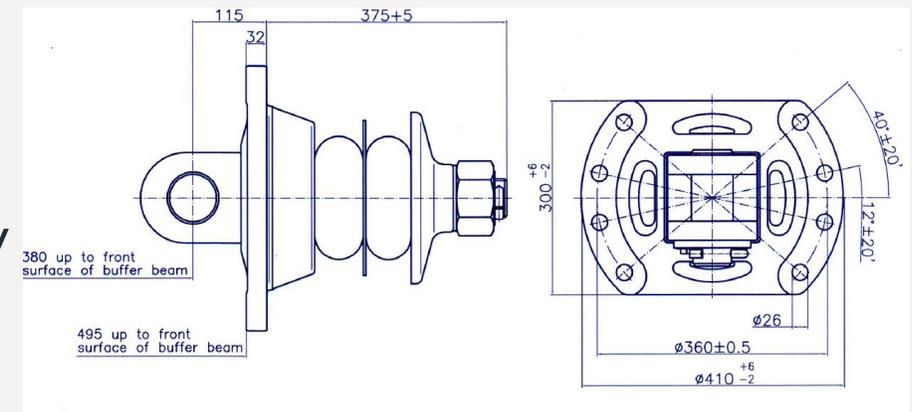
# Draw Gears

## Locomotive Draw Gears DZ 20L and DZ 20LS

- Used in locomotives of all types
- For a maximum breaking load of 1.0 MN and 1.5 MN
- Meets the requirements of EN 15566
- TSI- certificates and EC – declaration of conformity

## Passenger coach Draw Gears DZ 15 R und DZ 20 R

- For a maximum breaking load of 1.0 MN
- Meets the requirements of EN 15566
- TSI- certificates and EC – declaration of conformity





# Buffers

## Side buffers – Category L

- Used on special wagons and special vehicles
- Meets the requirements of EN 15551
- Buffer plate size 340x450mm
- TSI – certificates and EC declaration of conformity



## Center flange side buffers – Category C

- Used on locomotives
- Meets the requirements of EN 15551
- Buffer plate sizes 340x550mm and 340x600mm
- TSI – certificates and EC declaration of conformity



# Shock Absorbers

## Hydraulic Combination Shock Absorber EP 70D and EP 100D

- Used in side buffers and diagonal buffers of the categories C and L
- Meets the requirements of EN 15551
- TSI – certificates and EC declaration of conformity

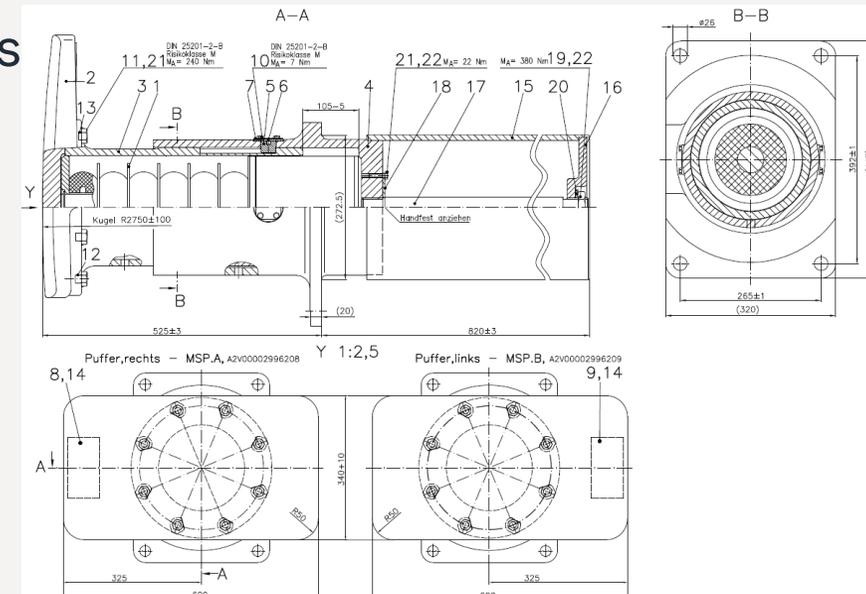
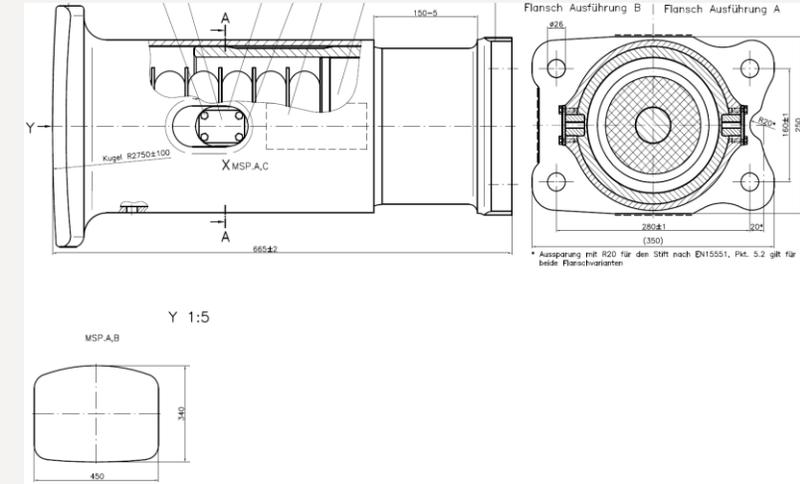


HIGH QUALITY



# Benefits of our Buffers

- Certified & standard-compliant to EN 15551 & UIC 526-1
- High dynamic absorption capacity: from 70 kJ to 100 kJ
- Fail-safe damping elements
- Maintenance-friendly & durable: low operating costs
- Excellent load protection due to low deceleration values
- Proven & international: references in EU projects



# REFERENCES



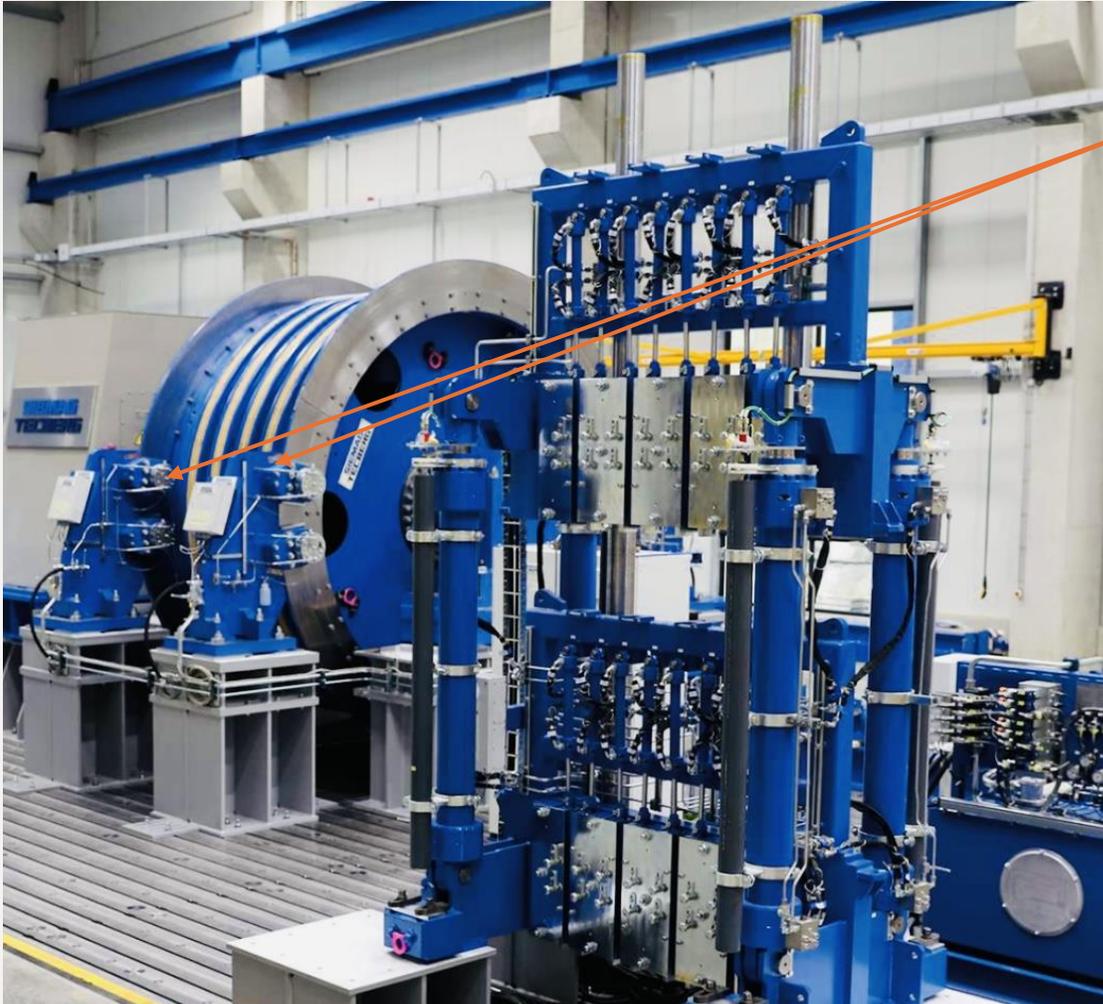
## **BURGBERGBAHN - Cableway** 📍 **BAD HARZBURG**

Replacement of the main and auxiliary drive;  
installation of the new drive train including brakes,  
proof of compliance with load calculations and  
calculation to braking moments acc. to current  
standards and regulations



## **PORCELLANMANUFACTURE** 📍 **MEISSEN**

Brakes according to TAS guidelines for a winch



## Minning

Safety brakes on the rope drum for the passenger lift basket

# SHB HEBEZEUGBAU GMBH



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