

SIBRE

The World of Industrial Brakes & Crane Components



As a One Stop Supplier, **SIBRE** Delivers Comprehensive Solutions For All Drives In **Cranes**.



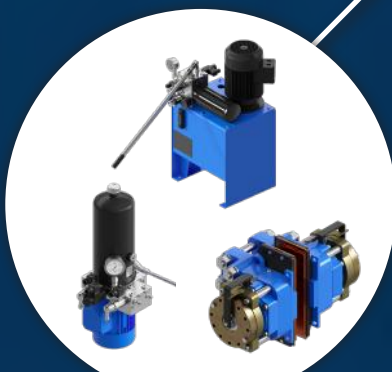
DISC AND DRUM BRAKES



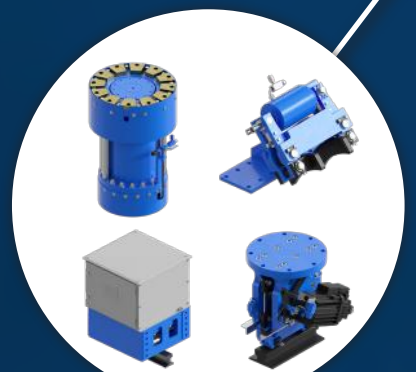
DRUM COUPLINGS, CARDAN SHAFTS,
GEAR COUPLINGS, THRUSTER



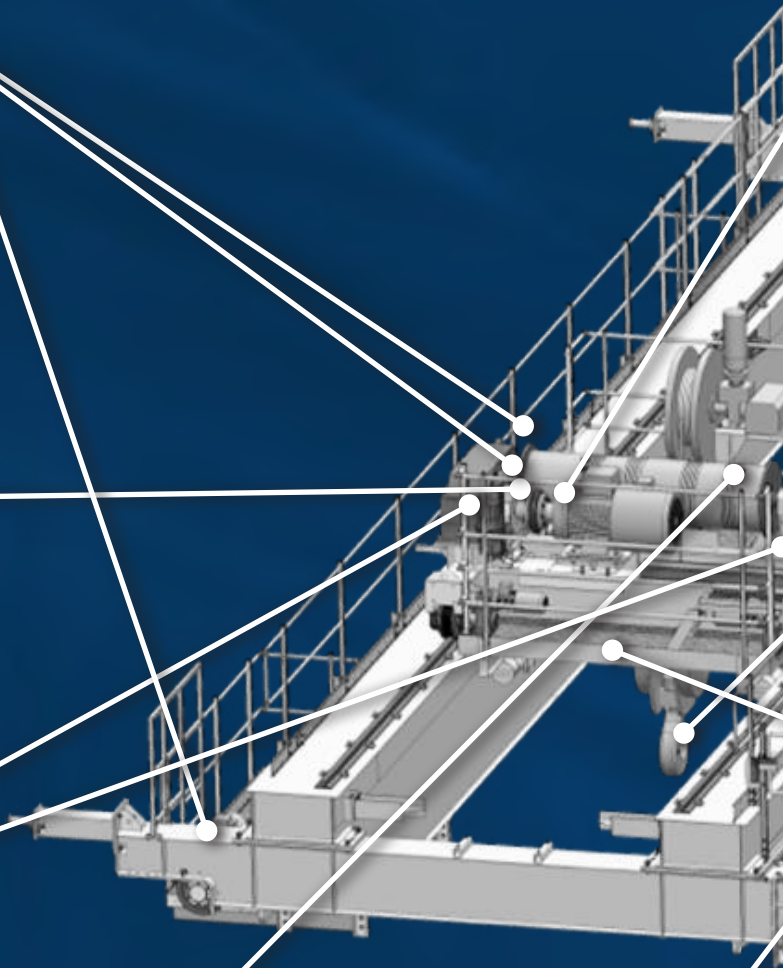
GEARBOXES, LIMIT SWITCHES
& WIRE ROPES



EMERGENCY BRAKES &
HYDRAULIC POWER UNITS



STORM BRAKES



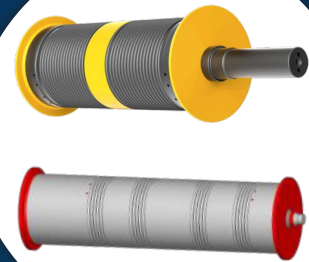
SIBRE



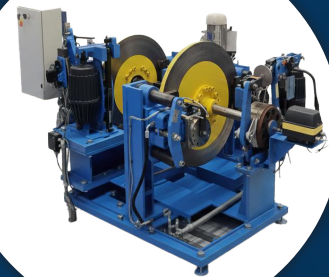
COUPLINGS WITH
DISC AND DRUM



ROPE SHEAVES, HOOKS
& BOTTOM BLOCKS



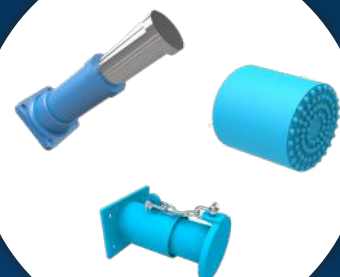
ROPE DRUMS



TRAINING CENTER &
SIMULATOR ROOM

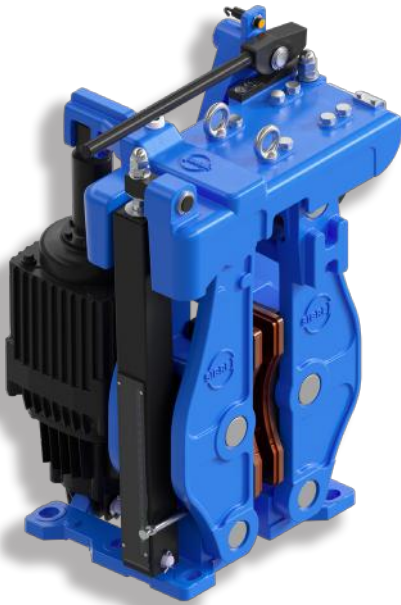


WHEELS, ROLLER GUIDES
& RAILS



BUFFERS

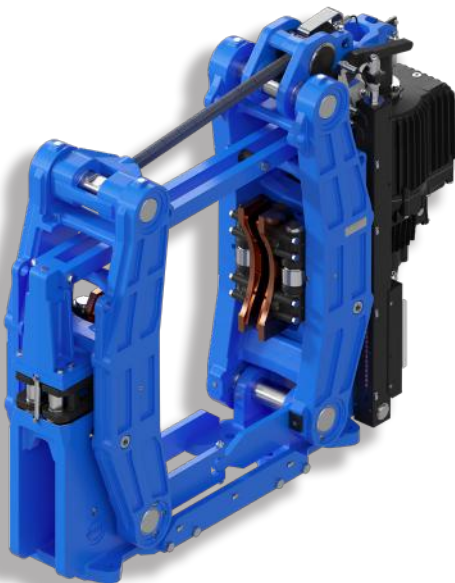
SERVICE BRAKES



DISC BRAKES TYPE **USB**

Standardized functional principle, available in 5 different sizes
Designed for all applications in a crane (gantry, boom, slewing, hoist)

- Improved brake linings
- Parallel opening of brake shoes
- Optimized spring guiding unit
- Upgraded manual release system
- Enhanced corrosion protection
- Additional options for status monitoring
 - Load cells for measuring the brake torque
 - PT100 temperature sensors for the brake linings
 - Linear position sensor for monitoring of thruster stroke
 - Linear position sensor for torque adjustment



DISC BRAKES TYPE **TEXU**

Service- or emergency stop brake for container cranes, conveyor belts, bucket wheel excavators etc.

- Reduced gear box costs due to reduced distance between input and output shaft
- Reduced costs for brake disc, electrical connection and PLC
- Reduced initial costs
- Higher friction coefficient = higher torque = increased safety even under emergency stop conditions
- Torque range 8000 - 30000 Nm on discs 500 - 900 mm
- Pins and rods made of stainless steel
- Pivot points with teflon-coated bushings
- Sinter-linings



SERVICE BRAKES & THRUSTERS

DISC BRAKES TYPE CB8

Calliper brakes e.g. for gantry travel drives

- Compact design
- Universal mounting position
- Completely closed housing
- Sinter linings for high rotation speed and temperature
- Switches for position control
- Release: Magnetic, Electrohydraulic, Hydraulic, Pneumatic

DRUM BRAKES TYPE TE

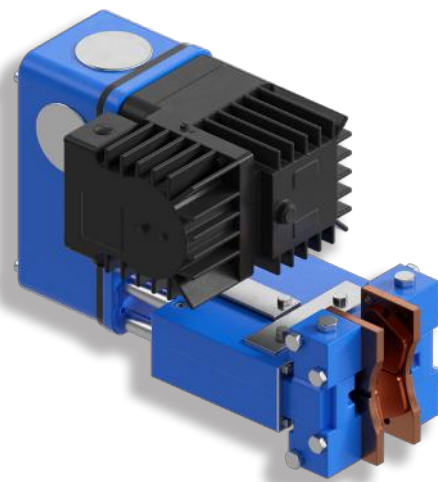
Versatile brake for general industrial applications, steel and material handling, cranes and conveyors

- Robust version: the „workinghorse“
- According DIN 15 435
- Pins & Rods made of stainless steel
- Lightweight Aluminium brake shoes
- Important bearings bushed with maintenance-free bushes
- Synchronisation linkage of brake shoe lever
- Options:
 - Wear compensator
 - Manual release level
 - limit switches
- Release: Magnetic, Electrohydraulic, Hydraulic, Pneumatic

THRUSTERS TYPE ELHY / ELDRO

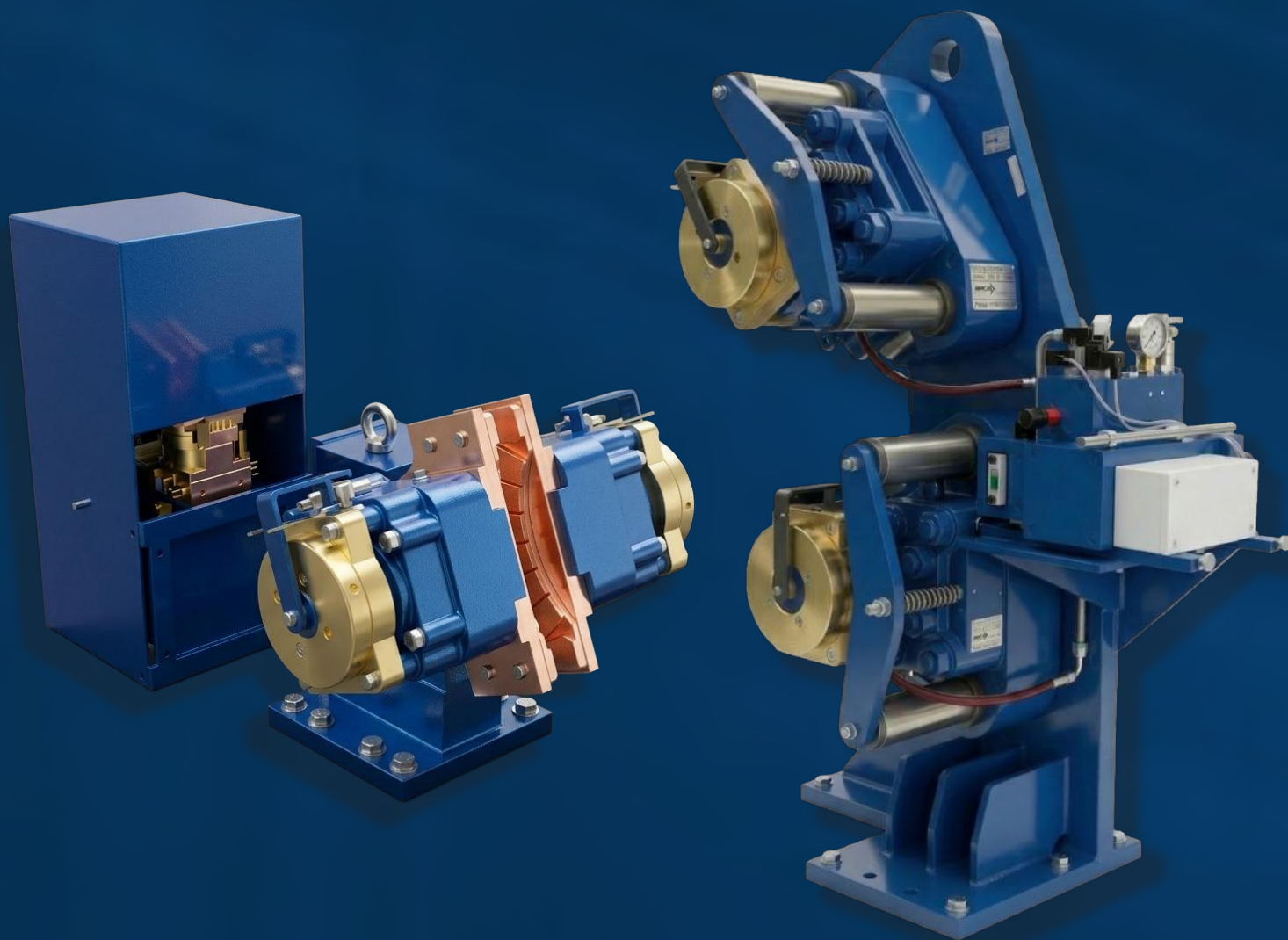
For opening of spring-applied brakes

- Electro-hydraulic by EMG®
- Ambient temperature range from -40°C up to + 80°C
- Explosion protection design (ATEX)



PLUG & PLAY

Emergency disc brakes with **HPU Plug & Play** solution



SAFETY BRAKES & HPU

DISC BRAKES TYPE SHI

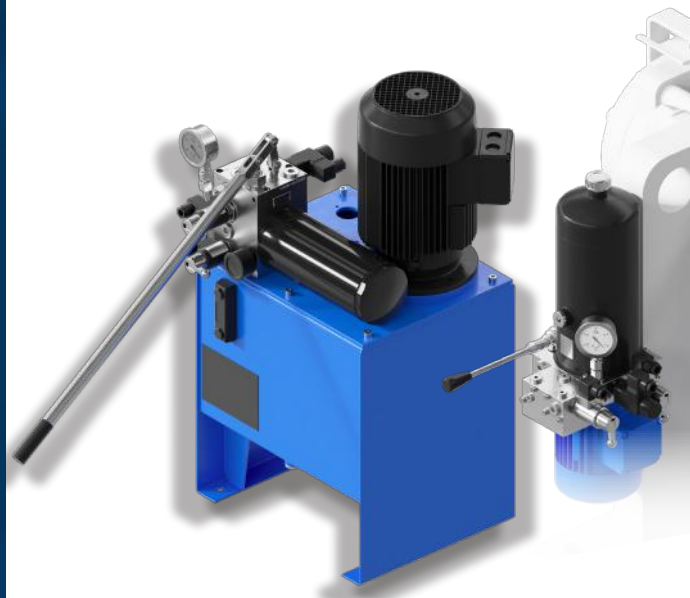
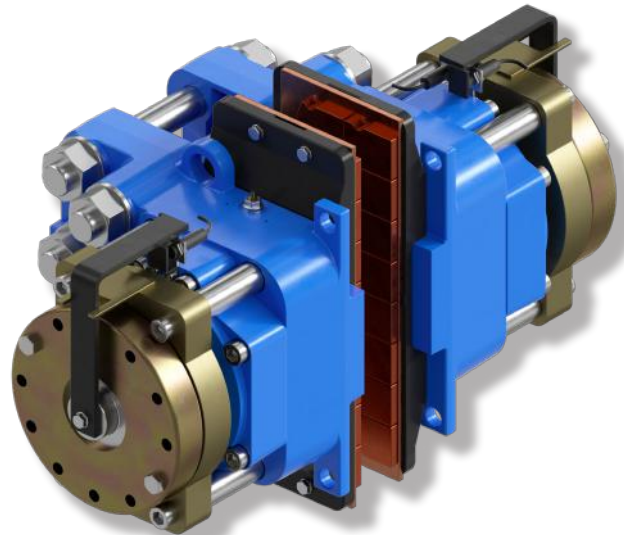
Emergency brakes for rope drums and conveyor belts, also available as floating calliper (SHI-FC)

- Fast response time for maximum safety
- Suitable for different disc thickness
- No tangential forces onto pistons and seals during dynamic braking
- Low spare parts and maintenance requirement due to only one dynamic seal per cylinder
- Simple and fast manual wear compensation
- Easy and quick replacement of brake pads
- High thermal capacity sinter-linings
- Clamping forces 4,3 - 555 kN

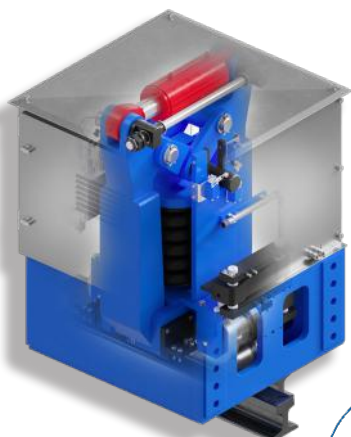
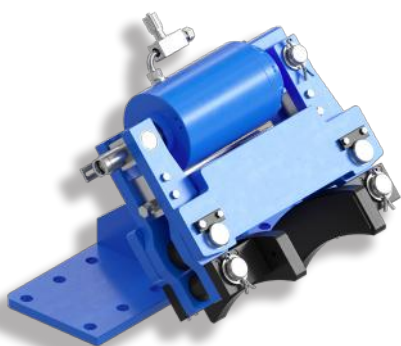
HPU TYPE SF / V / KA / H-SF

Brake component for the opening of spring-applied brakes and closing of active brakes

- Well-proven in the field
- Environmental temperature from -40°C up to +80°C
- Robust welded cover & housing
- Explosion protected design (optional)



STORM BRAKES



RAIL PUSHERS TYPE **RPS**

Static storm brake for railmounted cranes and machines to prevent runaway in a storm or in case of power failure

- Spring applied, release with hydraulic power unit
- Virtually maintenance-free
- With well proven advantages of the disc brake SHI

WHEEL BRAKES TYPE **RHI**

Storm wheel brake for railmounted cranes and machines to prevent runaway in a storm or in case of power failure

- Spring applied, release with hydraulic power unit
- Manual lining wear adjustment
- Floating calliper design available with up to +/- 10 mm axial float compensation

RAIL PUSHERS TYPE **RTCB**

Static storm brake for railmounted cranes and machines to prevent runaway in a storm or in case of power failure

- Self energizing device: Weight of crane ensures braking force reliably
- Twin chock working in both directions
- Integrated manual release
- Easy installation: No hydraulic power unit, no hydraulic field piping, no springs

RAIL CLAMPS TYPE **RB**

Static storm brake for rail mounted cranes and machines to prevent runaway in a storm or in case of power failure

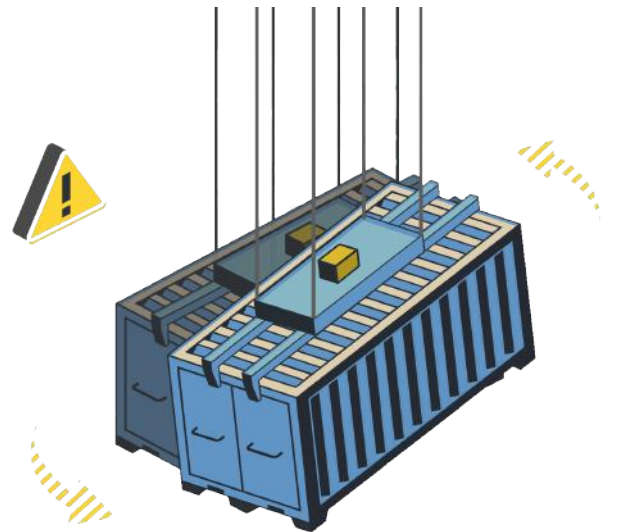
- Spring applied, released by internal HPU
- With hand pump for manual release
- Incl. stainless steel housing
- Suitable for compensation of high horizontal and vertical rail misalignments
- Constant clamping force due to solid arms and a knee lever system

SAFETY SYSTEMS

ANTI-SNAG SYSTEMS SLP

SLP's predictive functions are carried out once the crane is on the waterside and throughout the entire cargo handling process, with a comprehensive range of movements and speeds to ensure safety when loading, unloading and empty

- ANGULAR SPEED: Monitors angular displacement in all four corners
- ACCELERATION: Increase prediction response
- INCLINATION: assesses the post-braking situation.



SIBRE SYSTEMS MONITORING SSM

Brake operation cycle counter and operating hours counter

- Digital sensors connect directly to the PLC
- Indicates the brakes working status (i.e. Open/closed)
- One SSM can handle up to 4 brakes simultaneously
- Ambient temperature range -15°C - +70°C



FLEXIBLE COUPLINGS



ELASTIC COUPLINGS TYPE **ALC**

Brake discs, brake drums, couplings and hubs

- Three part version Elastic couplings with flexible insert
- Available in below versions:
 - standard hub (ALC-A)
 - integrated with brake discs (ALC-AS)
 - integrated with brake drums (ALC-AT)
- Designed for high functional reliability and durability through state-of-the-art engineering and manufacturing

ELASTIC COUPLINGS TYPE **AFC**

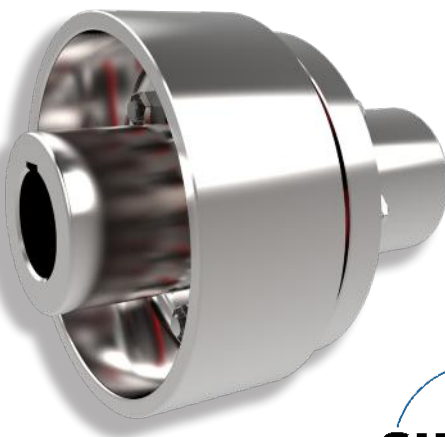
Brake discs, brake drums, couplings and hubs

- Five part version Elastic couplings with flexible insert
- Supports high-capacity requirements with nominal torques up to 19,200 Nm and maximum torques up to 38,400 Nm.
- Available in configurations with brake discs (AFC-AS), allowing for streamlined drive and braking systems

PIN COUPLINGS TYPE **APC**

Brake discs, brake drums, couplings and hubs

- Available in below versions:
 - standard pin couplings (APC-A)
 - with brake discs (APC-AS)
 - with brake drums (APC-AT, APC-BT, APC-AT-L)
- Designed to handle rotational speeds up to 4,800 rpm and nominal torques up to 6,500 Nm



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GEAR COUPLINGS

GEAR COUPLINGS WITH DISK TYPE ZKES

Coupling combination ZKES with brake disk offers following advantage

- Brake disc change possible without axial displacement of the motor.
- Compact design, high torque, simple assembly.
- Low-wear interlocking and small tooth clearance.
- High temperature resistance.

GEAR COUPLINGS WITH DRUM TYPE ZKET

Coupling combination ZKET with brake drum offers following advantages

- Brake drum change possible without axial displacement of the motor
- Compact design, high torque and simple assembly
- Low-wear interlocking and small tooth clearance
- High temperature resistance

GEAR COUPLINGS TYPE SZ / SZP

Rope drum couplings for crane hoists, stackers, ship unloaders, container cranes, and heavy smelting applications.

- Longer lifetime
- Higher load capacity
- Higher transmittable torque
- Designed according to customer's specification



DRUM COUPLINGS & CARDAN SHAFTS



BARREL DRUM COUPLINGS TYPE **ABC-V**

Rope drum couplings for crane hoists, stackers, ship unloaders, container cranes, and heavy smelting applications.

- Increased capacity due to optimized geometry of torque-transmitting components
- Torques of up to 1025 kNm and radial loads of up to 550 kN can be transferred with a maximum coupling diameter of 1025 mm
- High wear resistance due to quenched and tempered hub- and gear teeth
- Compatible fitting sizes
- Performed on the basis of the steel iron guidelines (Stahl Eisen Betriebsblatt) SEB 666 212



GEAR DRUM COUPLINGS TYPE **SDC**

Rope drum couplings for crane hoists, stackers, ship unloaders, container cranes, and heavy smelting applications.

- Increased capacity due to optimized geometry of torque-transmitting components
- Capable of transferring nominal torques up to 1200 kNm and maximum torques up to 1800 kNm.
- High wear resistance due to quenched and tempered hub- and gear teeth
- Compatible fitting sizes



CARDAN SHAFTS TYPE **SWC / SWF**

Separate wheels or complete assemblies
incl. shaft and bearings

- Greater angle and minimum torque under high loads
- High torque loads
- Built according to customer's specification
- Standard / customized

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BRAKE DISCS, BRAKE DRUMS & HUB

BRAKE DISCS TYPE BS

Standardized and custom disc solutions for high-performance industrial braking systems

- Standard diameters range from 200 mm to 1,100 mm available to meet specific braking requirements
- Flexible assembly
- Available in different materials and dimensions upon request to suit unique environmental or load conditions

BRAKE DRUMS TYPE DIN 15431

High-quality drums manufactured to international standards for reliable shoe brake performance

- Manufactured in accordance with DIN 15 431 standards, ensuring compatibility with industrial braking equipment
- Dynamically balanced for high-speed applications to prevent vibration and ensure smooth braking

HUB WITH BOLTED DISCS TYPE N

Heavy-duty hub assemblies designed for seamless integration with brake discs and drive shafts.

- Hubs are designed to handle maximum braking torques up to 39,000 Nm
- Individual balancing of components is available upon request to meet high-performance drive requirements
- The bolted design allows for the brake disc to be replaced without requiring axial displacement of the motor.



ROPE SHEAVES, BOTTOM BLOCKS & WIRE ROPES



ROPE SHEAVES

Rope sheaves made of steel, also available with bearings, bushes and covers

- For harsh environments
- DIN / customized
- Hot rolled, forged, welded or casted
- Diameter: 225 mm up to 2.000 mm
- High economic advantages with hot rolled and welded sheaves
- Special hardness by SIBRE®

BOTTOM BLOCKS

Customised solutions according to your specifications

- Light duty series
- Medium duty series
- Heavy duty series
- Drive Bottom Blocks
- Standard / customized

HOOKS

Customised solutions according to your specifications

- Laminated hooks
- Hook suspensions
- Eye hooks
- Single & Double models
- Standard / customized

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CRANE WHEELS & ROLLER GUIDES

CRANE WHEELS

Separate wheels or complete assemblies
incl. shaft and bearings

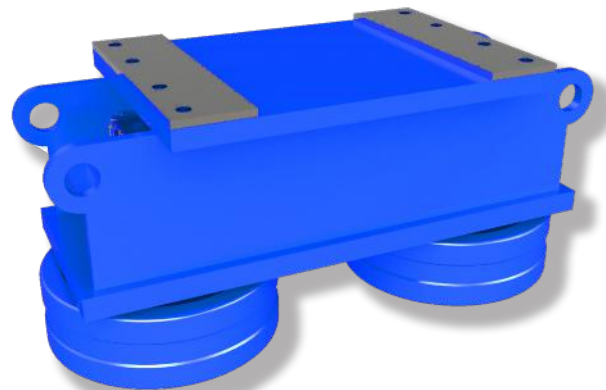
- According international standards, customer drawings or design drafts made by SIBRE®
- Quenched and tempered, pre-machined wheels on stock (open or close die forged)
- Seamless deep hardening of rolling surface for extension of life time
- Cost effective CNC machining with highest accuracy
- Latest measuring instruments (UT, HT, LP, DI, etc.)
- Special hardness by SIBRE®
- DIN / customized



ROLLER GUIDES

Grant the alignment of crane wheels without the need of the wheel flange

- High capacity of axial force
- High load rating
- According to customer's drawing or design draft by SIBRE®
- Customized



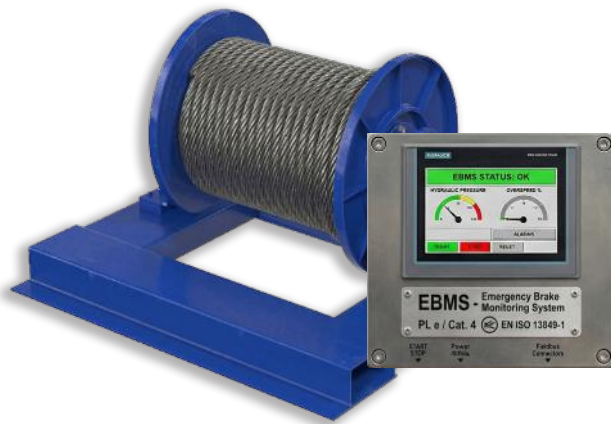
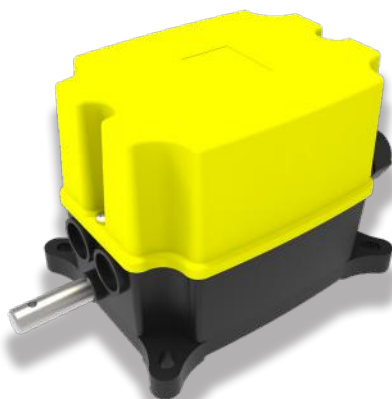
WIRE ROPES

according to the specific requests

- Assistance for the selection and design
- Higher max. breaking load and wear resistance



GEARBOXES, FRM LIMIT SWITCHES & EBMS



GEARBOXES / TEST BENCH

- According international standards, customer drawings or design drafts made by SIBRE®
- Gearbox Test Bench
- Standard / customized

GEARED CAMS LIMIT SWITCHES TYPE FRM

- No external power supply
- Fast response, precision, stability and reliability over time
- Positive opening contact (EN 60947-5-1)
- Multiple configurations and accessories (customized executions)

EMERGENCY BRAKE MONITORING SYSTEM EBMS

- A compact and intelligent solution designed to ensure maximum safety and reliability in the management of hydraulic emergency brake systems. Engineered for seamless integration with both PLC-based and standalone control systems, EBMS provides continuous monitoring of brake status, hydraulic parameters, and overspeed conditions
- Powered directly at 400 Vac and equipped with a certified safety controller up to PL e / Cat. 4 (EN ISO 13849-1), the system guarantees high functional safety while maintaining simple installation and standardized architecture. The integrated 4.3" HMI offers intuitive system supervision, alarm management, and configuration
- With support for major industrial communication protocols and an open, expandable design, EBMS delivers a reliable and future-ready platform for emergency braking control in cranes, hoisting equipment, and heavy-duty industrial applications.

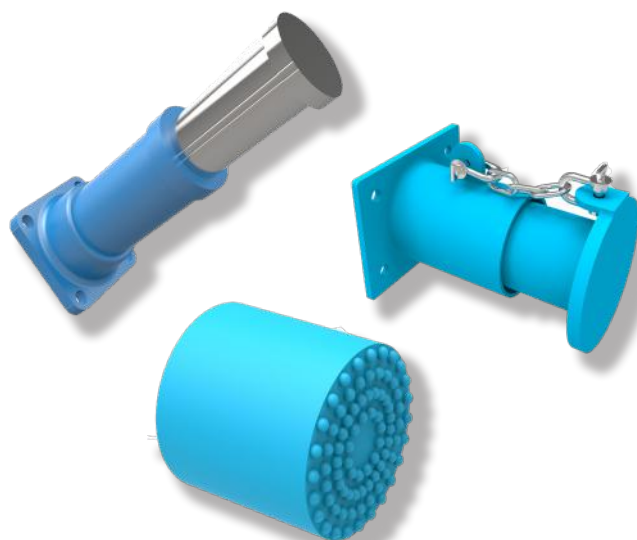


BUFFERS & ROPE DRUMS

BUFFERS TYPE HD / ZPP / ZPZ / K

To absorb impact energy in industrial applications

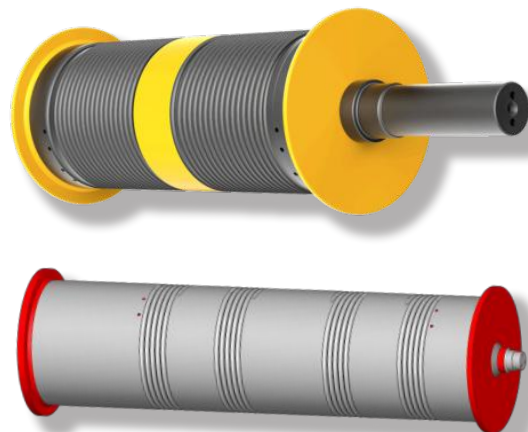
- Hydraulic - HD
- Micorcellular - ZPP/ZPZ
- Metallic (with single or double spring) - K



ROPE DRUMS

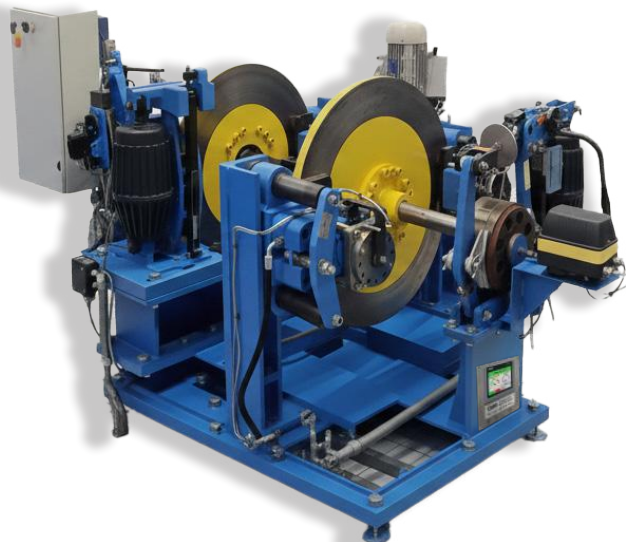
Crafted for strength and precision

- Designed to deliver reliable lifting performance, even under heavy load and continuous operation
- Each drum can be customized to perfectly fit your machinery and application





TRAINING CENTER & SIMULATOR ROOM



- A dedicated training center focused on industrial braking systems and brake technologies.
- Equipped with a wide range of real industrial brakes and components for practical demonstration.
- Designed to help customers understand brake operation, installation, adjustment, and maintenance.
- Includes a specialized brake simulator room that reproduces real operating conditions.
- Allows participants to practice procedures in a safe and controlled environment.
- Provides hands-on training to improve technical skills and operational confidence.
- Helps prevent unplanned equipment shutdowns by improving correct use and maintenance of braking systems.
- Supports extending machinery lifetime through proper operation and early fault detection.
- Training is offered to our customers and partners.
- Suitable for maintenance teams, engineers, and operators working with industrial braking systems
- Our simulator room contains:
 - 1 x Disc brake USB-5-I 800x30 - EB800/60
 - 1 x Emergency brake SHI 104
 - 1 x Disc brake CB8-E50 E-SF 100/30
 - 1 x Disc brake USB3-05 E100 400x20 - E-SF 100/30
 - 1 x Drum brake TE250 - EB300/50
 - 1 x Emergency brake SHI 75-5 Fc
 - 1 x Emergency brake SHI 104 Fc
 - 1 x Hydraulic power unit SF2.0-A
 - 1 x Hub with disc :N17000-800x30
 - 1 x Hub with disc : N24000-800x30
 - 1 x Elastic coupling: ALC-AS 65-400x20
 - 1 x Brake drum D250x95
 - 1 x Emergency brake monitoring system (EBMS)

CERTIFICATE



EMG Automation GmbH
herewith certifies that the
ELDRO®/ELHY® Workshop at



Sure to be Safe

with the following addresses:

SIBRE Italia s.r.l.
Via Zanardelli, 102
25089 Villanuova sul Clisi
Italia

are authorised to check and repair
the ELDRO®/ELHY® thrusters in the territory of Italy.

The staff from SIBRE BRAKES Italia were trained and by
using the ELDRO®/ELHY® test bench. They are in the position
to carry out a final inspection and testing of every
repaired ELDRO®/ELHY® thruster.



Wenden, 11 december 2019

Uwe Wurster
(Executive Director
Drive Systems)

Eduard Musall
(After Sales Manager)

The **SIBRE** World of Industrial Brakes and Crane Components

GERMANY – HEADQUARTER
SIBRE – SIEGERLAND BREMSSEN GMBH

AUF DER STÜCKE 1-5
35708 HAIGER

PHONE: +49 2773 9400-0
EMAIL: INFO@SIBRE.DE

ITALY

SIBRE Italia S.r.l.

Via Zanardelli 102, I-25089
Villanuova sul Clisi (BS)

Phone: +39 0365 63699
Email: sales@sibre.it

MEC-STEEL S.r.l.

Via Bolina 1/b
I-25085 - Gavardo (BS)

Phone: +39 0365 388098
Email: sales@mec-steel.it

MIDDLE EAST

SIBRE Middle East LLC

Abu Dhabi (UAE)

Phone: +971 5244 12520
Email: salesgroup@sibre.ae

SPAIN

SIBRE Brakes Spain S.L.

Pol. Ind. Trevenez
C/Actriz Amelia de la Torre 3
E-29004 Malaga

Phone: +34 952 203912
Email: jtoscano@sibre.es

INDIA

SIBRE Brakes India

"Sukh Sagar" 7th Floor,
7-A 2/5, Sarat Bose Road
Kolkata 700 020, India

Phone: +91 33 24543280
Email: info@sibre.in

CHINA

SIBRE Brakes Tianjin Co

No. 8, Haitong Street, TEDA,
CN-Tianjin 300457, P.R. China

Phone: +86 22 59813100
Email: info@sibre.cn

SWEDEN

SIBRE Brakes Scandinavia AB

Strandvägen 10
475 40 Hönö, Sweden

Phone: +46 31 962190
Email: goran@sibre.se



SINGAPORE

SIBRE Brakes (S.E.A.)

No.5, Soon Lee Street,
#02-38, Pioneer Point
Singapore 627607

Phone: +65 6710 4461
Email: info@sibre.com.sg

SERBIA

SIBRE Fluidotehnic

Rudijinci 175 / A
36210 Vrnjacka Banja

Phone: +381 36 631710
Email: office@fluidotehnic.com

USA

SIBRE Brakes USA

P.O. Box 164
Cedarville NJ 08331
207 Bogden Blvd. Suite D
Millville NJ 08332

Phone: +1 856 3677354
Email: dennis.schmidt@sibreusa.com

AUSTRALIA

SIBRE Australia PTY

12/21 Sabre Drive
Port Melbourne,
Vic 3207

Phone: +61 3 9446 6111
Email: sean@sibre.com.au

RUSSIA

SIBRE Rus

Pervomaiskaya Stra e 64
162605 Cherepovez,
Vologodskaya oblast

Phone: +61 3 9446 6111
Email: sergey.shukelovich@sibre.ru

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SIBRE Italia Srl

Via Zanardelli 102, I-25089
Villanuova sul Clisi (BS)

Phone: +39 0365 63699

SIBRE Middle East LLC

Abu Dhabi (UAE)

Phone: +971 5244 12520

www.sibre.it | Sales@sibre.it | Salesgroup@sibre.ae