



*Sure to be Safe*

Siegerland Bremsen

# SIBRE

## emergency and storm brakes

THE WORLD OF ADVANCED BRAKE TECHNOLOGY

# SIBRE Siegerland Bremsen GmbH

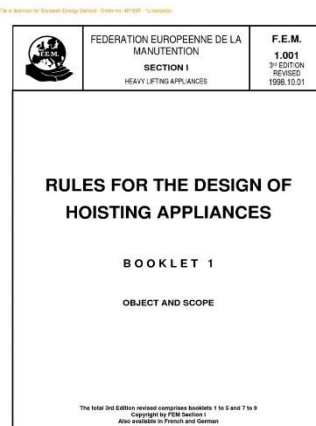
- Private owned Company
- Founded in 1958
- Headquarter in Haiger (Germany)
- Assembly plant in Eschenburg (Germany)
- Total production area approx. 17.500 m<sup>2</sup>
- Employees: approx. 250
- 15 International branches
- Over 50 representatives worldwide



# Crane Safety

## Effects

- Injuries and loss of lives
- Wastage of time
- Damages on infrastructure
- Loss of money and assets

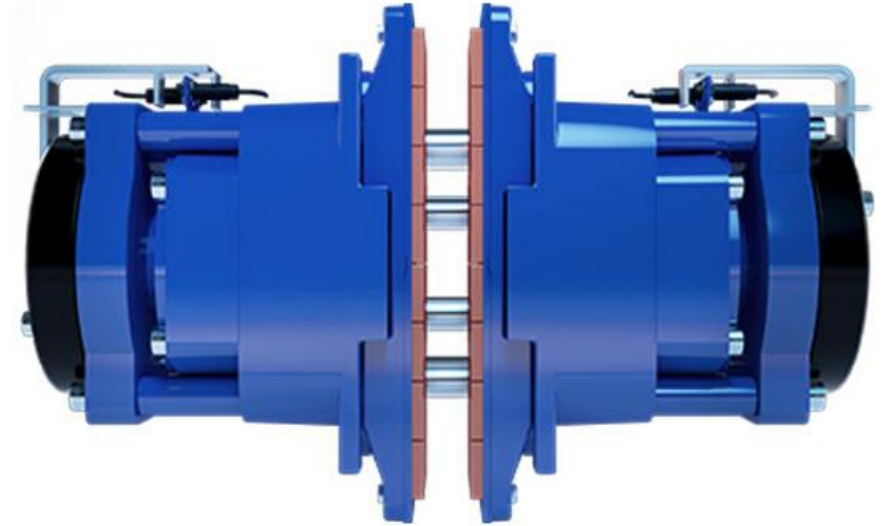
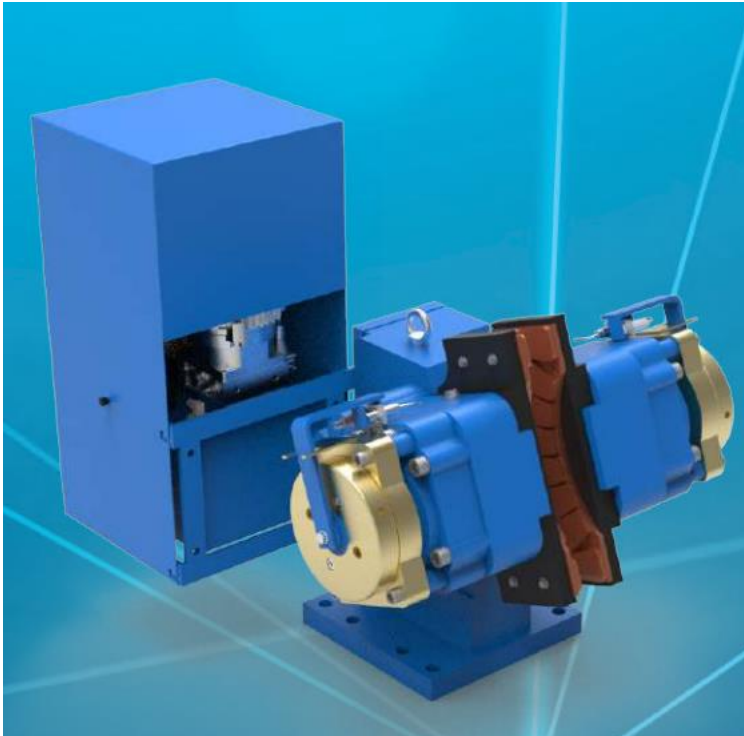


## Prevention measures

- Norms
- SIBRE products and technical assistance

# SHI emergency brake

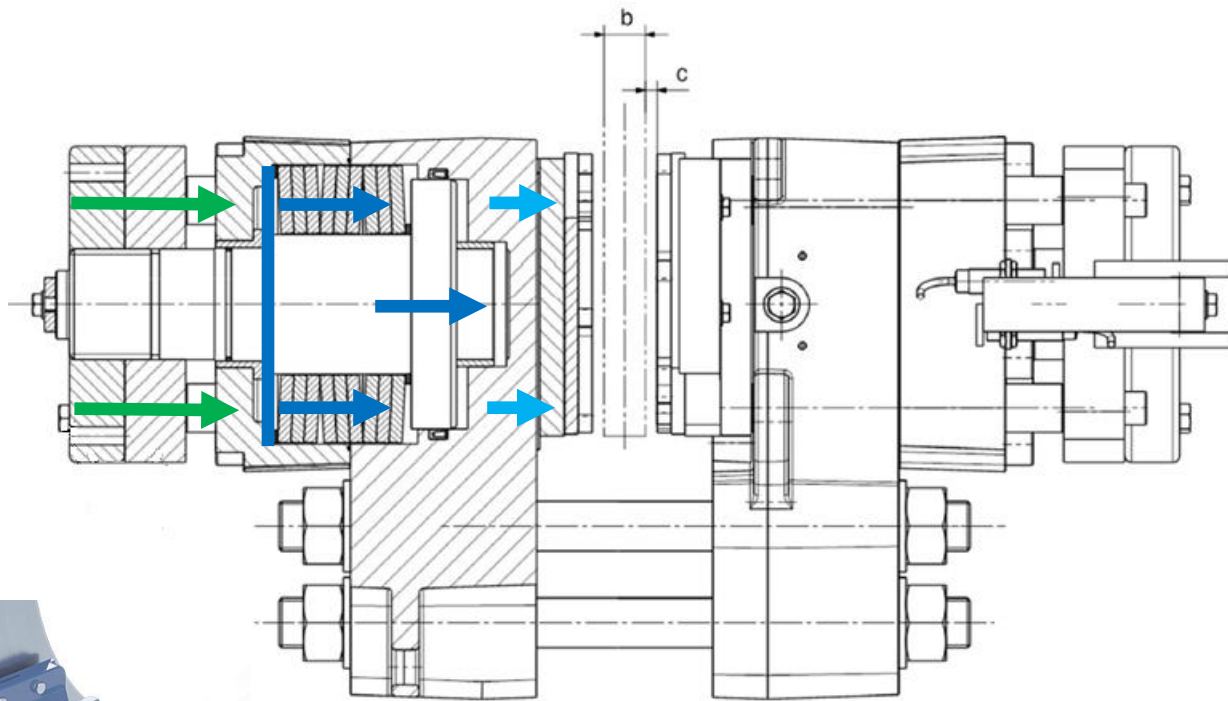
- Standardized functional principle, 7 different sizes
- clamping force range: 17kN - 555kN
- weight range: 80-900Kg



## Options

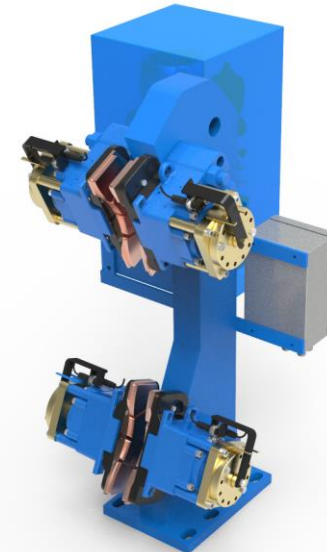
- sensor-technology
- extreme temperature application
- corrosion-protection C3-C5 (EN ISO 12944)
- Individual design of console/ brackets
- individual design of power packs (plug & play)

# SHI design benefits



- 1) extending cup-springs
- 2) transmission to piston
- 3) transmission to pressure pins
- 4) transmission to linings/disc

- + favorable force-transmission on disc  
*[maintenance/spares/ safety]*
- + no radial forces on piston/ sealings  
*[time, budget]*
- + simple & fast wear compensation & less leakage risks  
*[Safety]*
- + suitable for different disc-dimensions *[flexibility]*



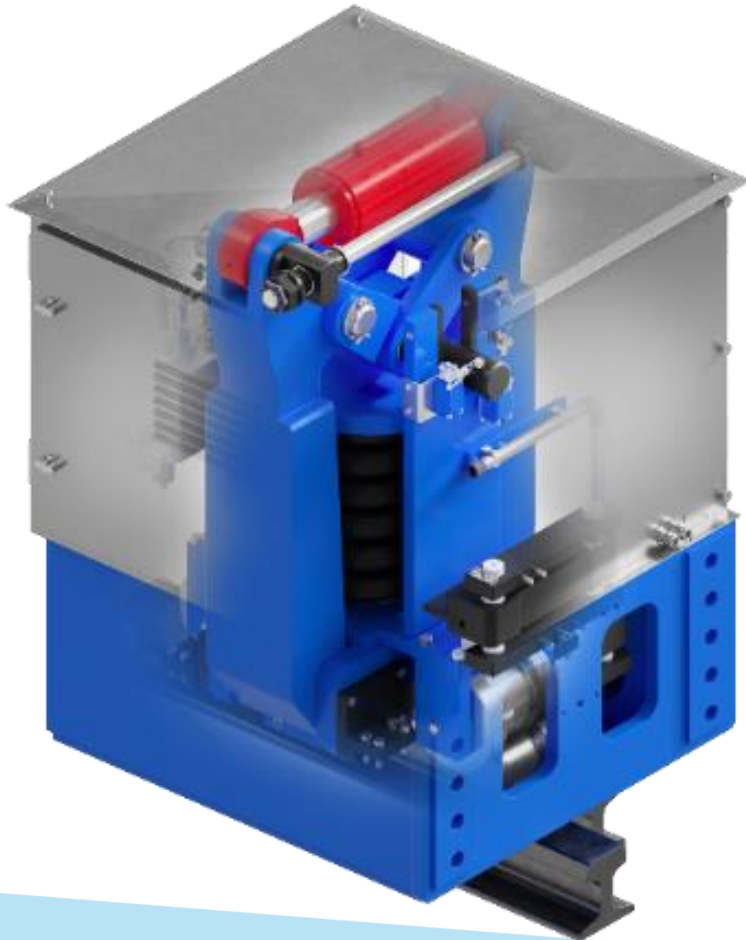
# hydraulic power packs

- compact design
- well proven (since 1998)
- more than 2000 pcs.in operation
- no external piping required
- cost effective
- low maintenance requirements & easily replaceable components
- wide range of options
- adaptable mounting positions



**PLUG & PLAY SOLUTION**  
FOR EMERGENCY BRAKES

# RB storm brake



- static rail clamp:
- spring applied, hydraulic released
- stainless steel housing with floating design
- vertical and horizontal tolerances
- lever design for steady clamping force
- hand pump for manual release
- release pressure: 150 bar
- ambient temperature: -20°C up to +40°C
- closing time: adjustable 5-20 sec, release time: 10-15 sec
- operating cycles: 10-20/day

# RPS storm brake



- static and acts bi-directionally
- spring applied / hydraulic released
- static friction coefficient of  $\mu = 0,5$
- field replaceable, hardened brake shoe
- nominal holding force range: 100-275kN
- improved life for spring package & shoes
- temperature range:  $-40^{\circ}$  up to  $+40^{\circ}\text{C}$
- no tangential forces on piston (leakage)



# RTCB storm brake



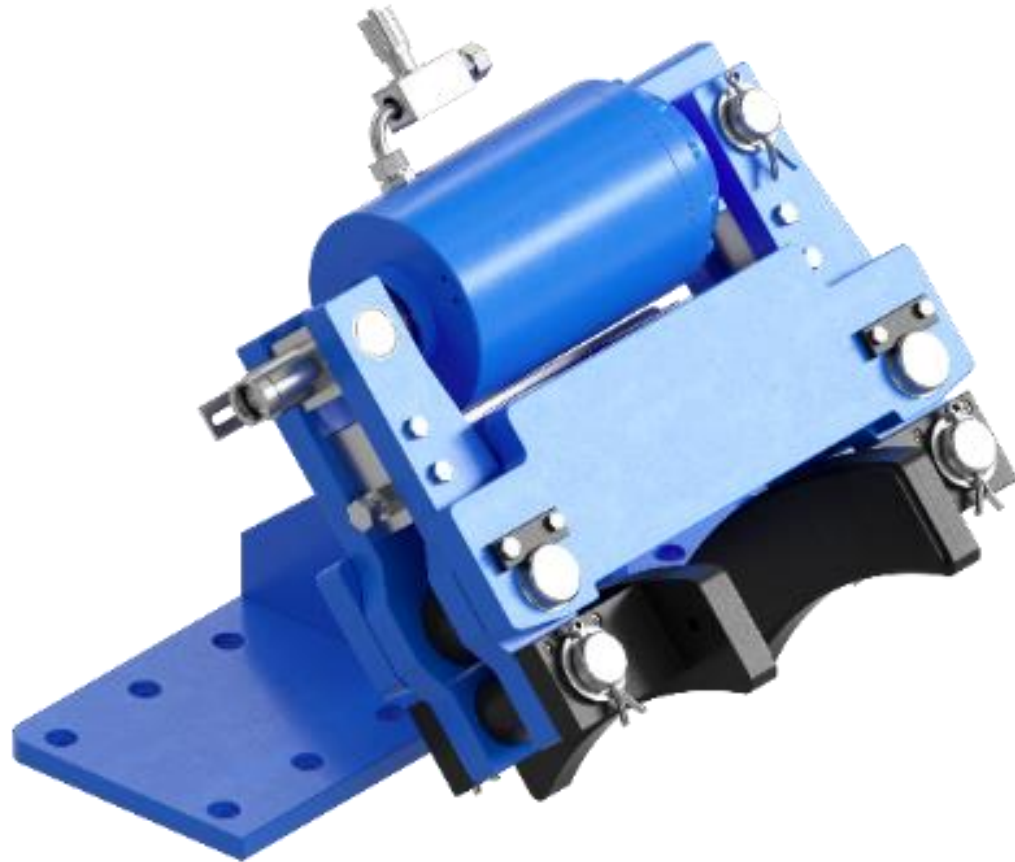
- static and acts bi-directionally
- gravity applied / thruster released
- Field replaceable, hardened brake shoe
- maximum rail tolerance:  $\pm 6\text{mm}$
- crane travel 50-100mm before brake is engaged
- max. holding force: 225kN
- available in stainless steel version

# RKB storm brake



- static storm brake
- gravity actuated, thruster released
- one directional acting
- size acc. customer requirements
- holding force depends on crane weight
- hardened brake shoe (geared)

# RHI storm brake



- dynamic brake
- bi-directionally acting
- cup spring applied, hydraulic released
- up to 2.000.000 brake cycles
- field replaceable brake shoes
- sensor indication (brake released)
- individual lowering time
- easy installation and maintenance
- floating design available

# Our applications



Plug & play solution



RPS storm brake application



2 sided application

***Our contacts: [sales@sibre.it](mailto:sales@sibre.it)***

Many thanks for your attention !

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