



# SIBRE Siegerland Bremsen GmbH

THE WORLD OF ADVANCED BRAKE TECHNOLOGY

*Increasing Operational Efficiency and Equipment Health Through Brake Technology  
and Monitoring*

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# Global Sea Freight Market - 2024



US\$ 9.5 Billion market



4.3% year on year growth rate



22.2 million TEU handled by top 10 shipping operators



90% of global supply chain.



70% through containerized cargo.



# Pertinent Objectives



Continuity of supply chain.



Safe and smooth container handling operations.



Reduced downtime



Increased lifetime of operating equipment.



# SIBRE Germany – About Us

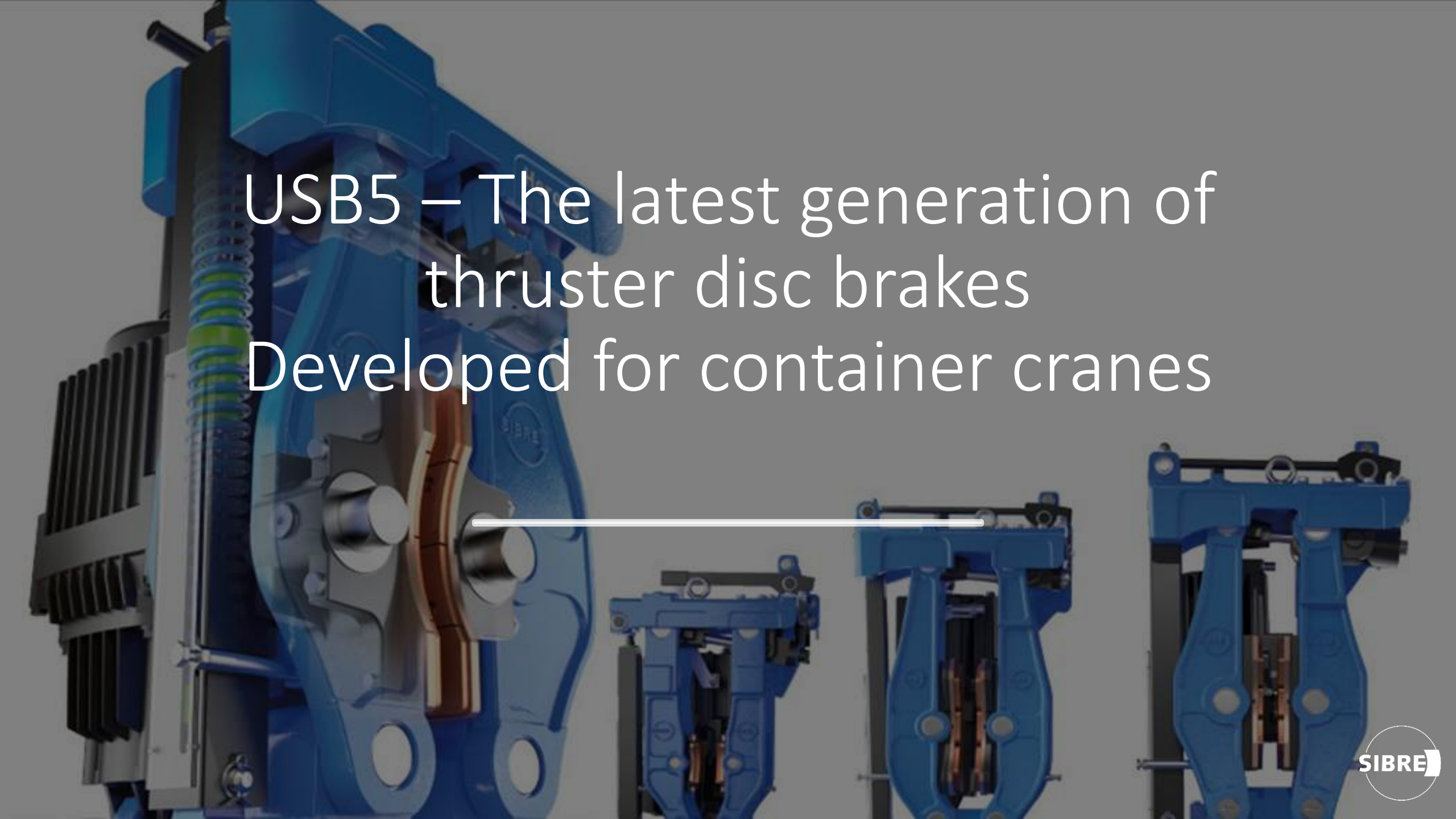
- Private owned
- Founded in 1958
- Headquarter in Haiger
- Assembly plant in ESCHENBURG
- Total production area 17.500 m<sup>2</sup>





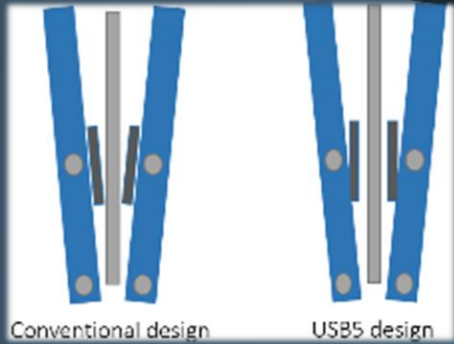
- Almost 300 employees
- 13 SIBRE subsidiaries
- More than 50 partners / agents



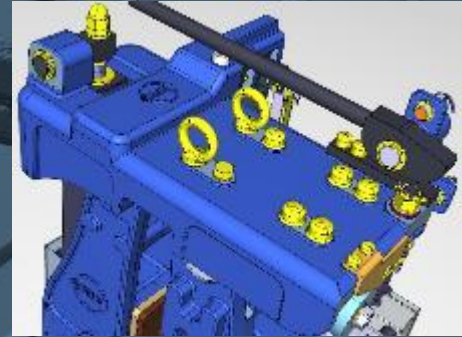


# USB5 – The latest generation of thruster disc brakes Developed for container cranes

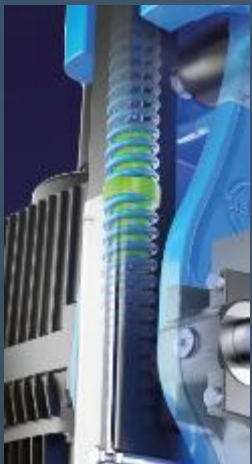
# Improved Features – USB5



Parallel opening of brake shoes



Enhanced corrosion protection



Optimized spring unit.



Upgraded manual release system



AS A ONE STOP SUPPLIER,  
SIBRE DELIVERS COMPREHENSIVE  
SOLUTIONS FOR ALL DRIVES IN CRANES.

SERVICE-BRAKES



SAFETY-BRAKES



SNAG LOAD PROTECTION



STORM-BRAKES



WHEELS & SHEAVES



COUPLINGS





# USB5 - Designed for all applications in a crane

Identical conditions in regard to installation, adjustment and maintenance

boom hoist  
USB5-II or USB5-III



main hoist  
USB5-V



trolley travelling  
USB5-I or USB5-II



gantry travelling  
USB5-05

SIBRE

# USB5 - Designed for all applications in a crane

Identical conditions regarding installation, adjustment and maintenance



## USB5-05

brake torque:

100 - 690 Nm

centre height:

160 mm

weight:

46 kg



## USB5-I

brake torque:

550 – 5.500 Nm

centre height:

230 mm

weight:

85 kg



## USB5-II

brake torque:

1.300 - 9.800 Nm

centre height:

280 mm

weight:

175 kg



## USB5-III

brake torque:

3.500 - 26.000 Nm

centre height:

370 mm

weight:

250 kg



## USB5-V

Brake torque:

6.000 - 29.000 Nm

centre height:

280 mm

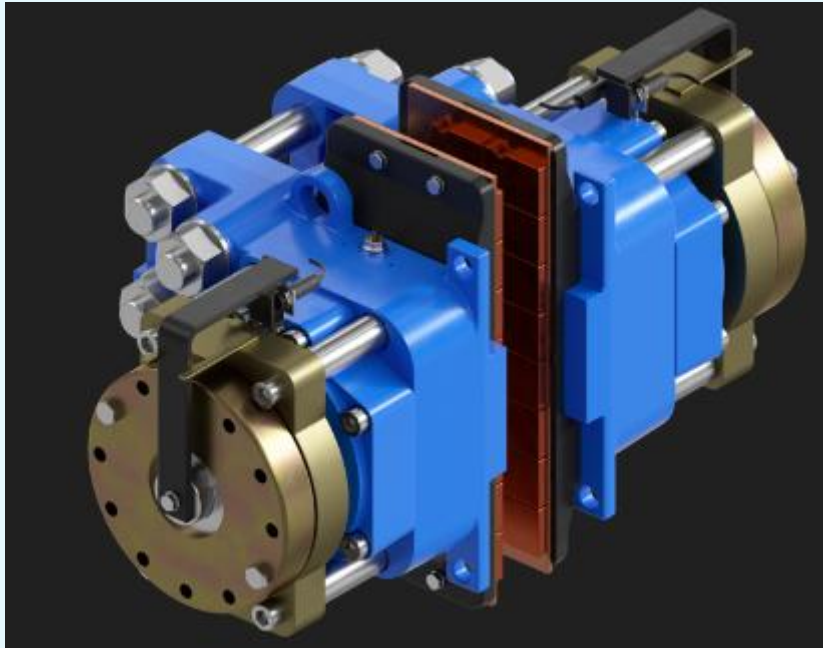
weight:

285 kg

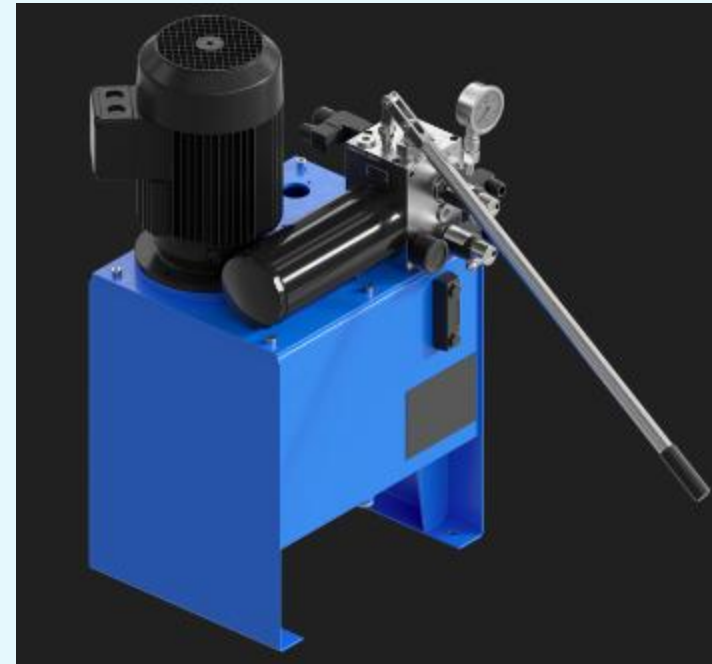


# Recommendations for Emergency applications

Brake model- SHI



Hydraulic Release Unit



# Technical details of Emergency brake

- Twin calipers brakes
- Flange/ console mounted
- Incl. Mounting bolts
- Sensors for 'brake open'
- Sensors for 'pad wear limit'

# Technical details of Hydraulic Power Unit

- Manual pump for emergency brake release
- Redundant valve block
- Terminal box incl wiring
- Local piping of brake and console



# References





# Maximize your operational efficacy caused by

- Increased operational safety
- Reduced maintenance requirements.
- Extended product life span.
- Better monitoring and control of equipment.





*Sure to be Safe*

Siegerland Bremsen

*from conception to performance*

**Questions?  
Visit us at booth 20!**

