

SIBRE Siegerland Bremsen GmbH

THE WORLD OF ADVANCED BRAKE TECHNOLOGY

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

Pramit Gangopadhyay
Technical Sales Engineer



Global Sea Freight Market - 2023



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 m²





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

SIBRE Brakes USA LLP
USA

SIBRE Brasilia
Brazil

SIBRE Brakes Spain SL
Spain

SIBRE Siegerland Bremsen
GmbH
Germany

SIBRE Scandinavia AB
Sweden

SIBRE Fluidotehnic
Serbia

SIBRE Brakes Italia s.r.l.
Italy

SIBRE Middle East
UAE

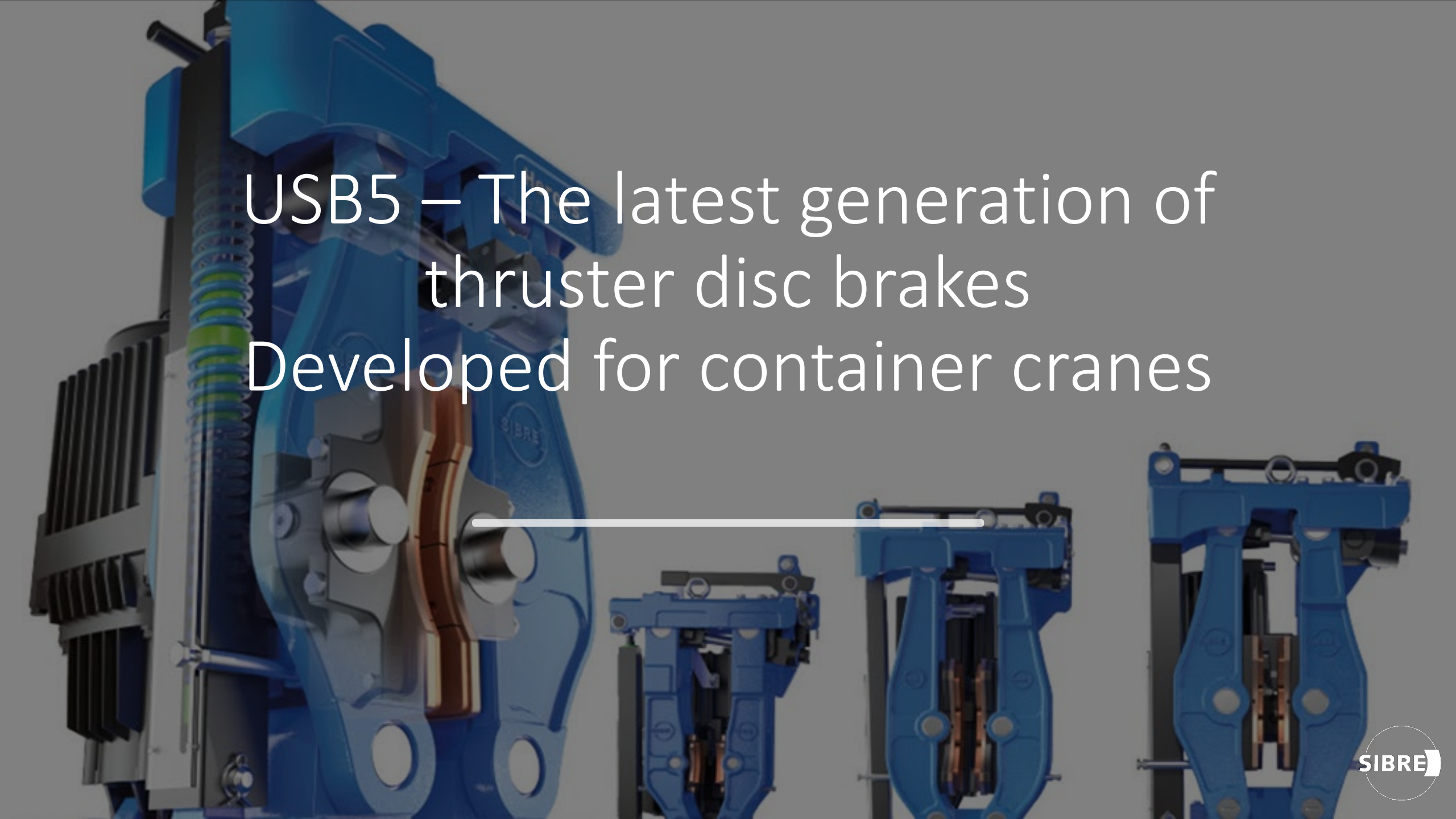
SIBRE Brakes (India) Pvt.
Ltd.
India

SIBRE Brakes S.E.A. Pte.
Ltd.
Singapore

SIBRE Brakes CO. LTD.
China

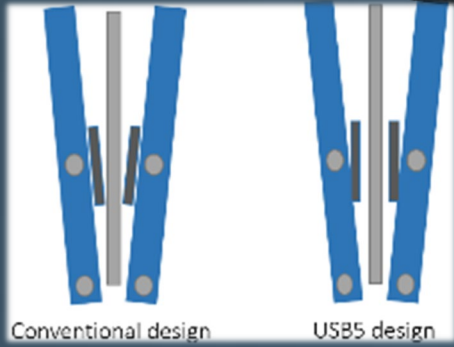
SIBRE Russia
Russia

SIBRE Australia
Australia

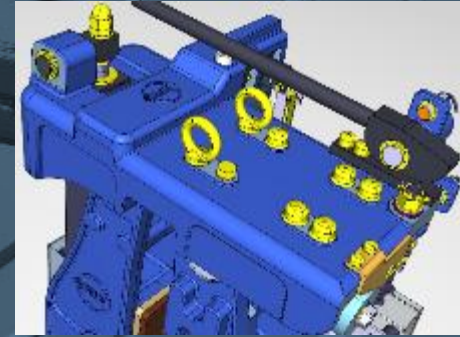


USB5 – The latest generation of
thruster disc brakes
Developed for container cranes

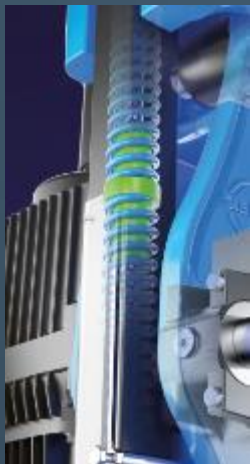
Improved Features – USB5



Parallel opening of brake shoes



Enhanced corrosion protection



Optimized spring unit.

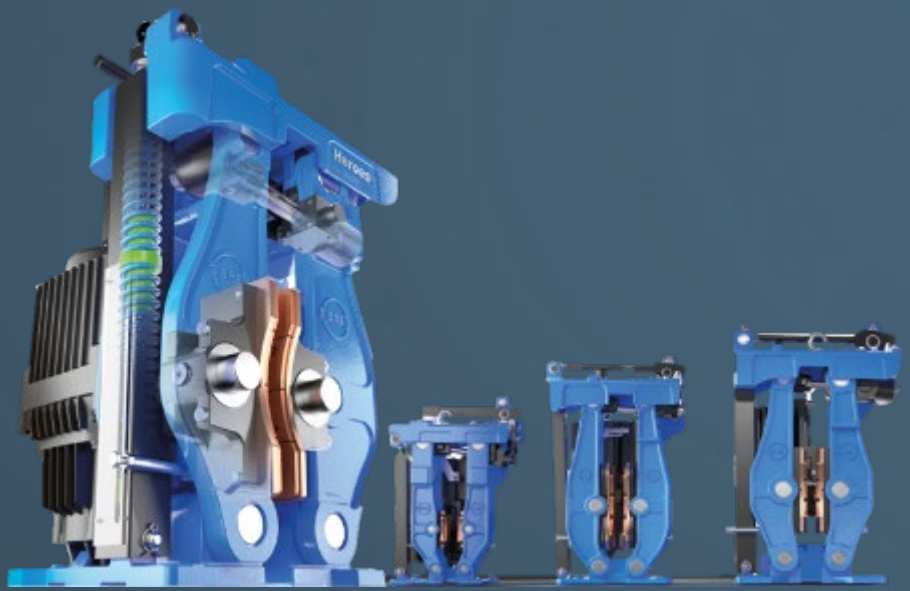


Upgraded manual release system

USB5 - Designed for all applications in a crane

Identical conditions in regards 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



Standardized functional principle, available in different sizes



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

Equipment Monitoring and Control

SIBRE Status Monitoring (SSM)



Crane Monitoring

- Brake status Monitoring
- Trouble Shooting
- Operational Manual and check List
- Tutorial Video

Remote Monitoring

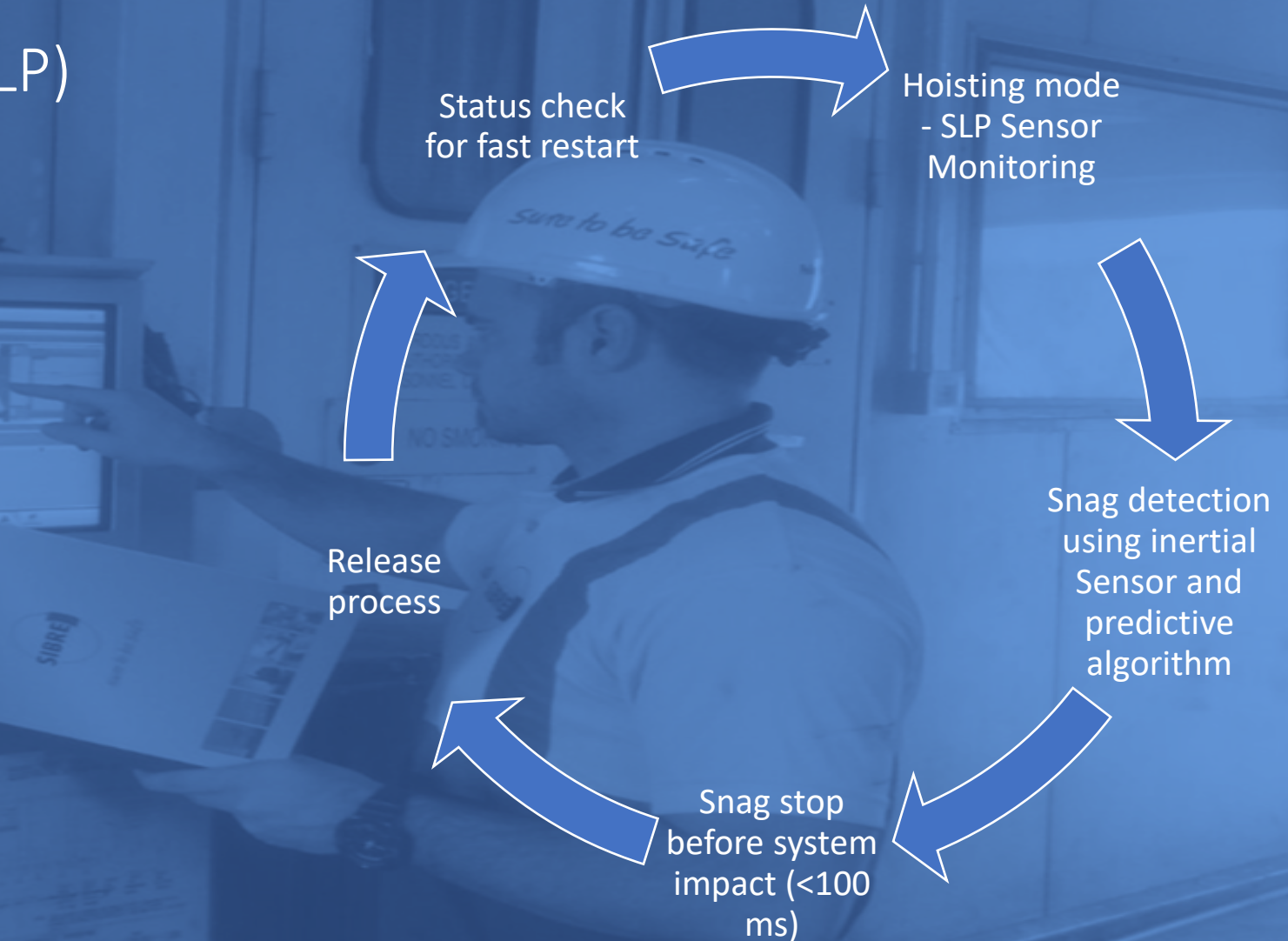
- From maintenance Room
- Preventive Actions through warnings and Alarms
- Reduced unplanned downtime
- Optimization of the maintenance Team.

Remote Service

- Data Storage to Cloud
- Remote Helpdesk
- Quick Action and Equipment Turnaround

Equipment Monitoring and Control

Snag Load Protection (SLP)



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

SERVICE-BRAKES



SAFETY-BRAKES



SNAG LOAD PROTECTION



STORM-BRAKES



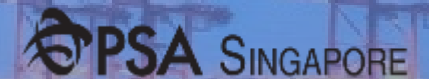
WHEELS & SHEAVES



COUPLINGS



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 6!

