Heroes.

by SIBRE

the new **USB 5** series

Who performs a special, extraordinary service,

is a hero.

Who has special abilities like extraordinary strength, speed or endurance,

is a hero.

SIBRE

Sure to be Safe

The world of industrial brakes

The SIBRE Siegerland Bremsen GmbH is a worldwide operating, medium-sized company of traditions with meanwhile over 60 years of company history.
From the very first the company engages in the development and production of brake systems for the industry. Right from the start value was set on technical innovation, the most modern manufacturing technology and high customer use. Production procedures are continuously supervised by a quality management system. The aim of the product development is an optimum combination of a top-quality product, the easiest use and market-driven price both for plant engineers and plant operators.

We have upgraded the well proven design of our USB thruster disc brakes, the new generation is even more reliable and efficient and comes with several new design features.


Heroes
by SIBRE
SIBRE
SIBRE

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Standardized functional principle, available in 5 different sizes
Designed for all applications in a crane (gantry, boom, slewing, hoist)
Identical conditions in regards to installation, adjustment and maintenance

Improved brake linings
More stable friction coefficient and brake torque
Extended lifetime

Parallel opening of brake shoes
Simplified alignment of the brake system
Minimized risk of sliding between disc and linings

Optimized spring guiding unit
Reduced noise emission
Extended lifetime of brake spring

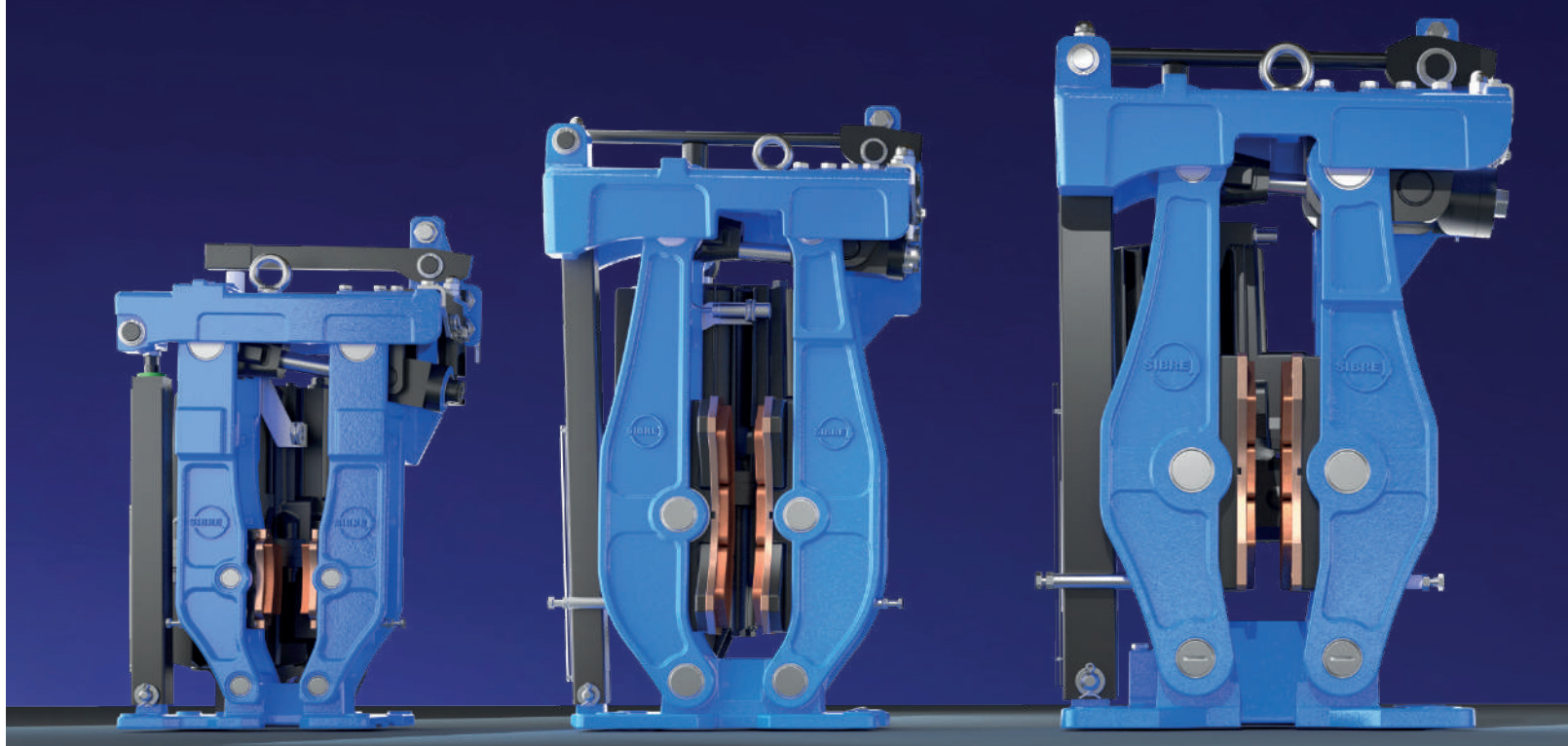
Upgraded manual release system
Increased operational safety for manual load lowering

Enhanced corrosion protection
By design features and improved coating

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

Heroes.
by SIBRE

five dimensions –



USB 5 05

Braking torque:
100 - 690 Nm

Centre height:
160 mm

Weight:
46 kg

USB 5 I

Braking torque:
550 - 5.500 Nm

Centre height:
230 mm

Weight:
85 kg

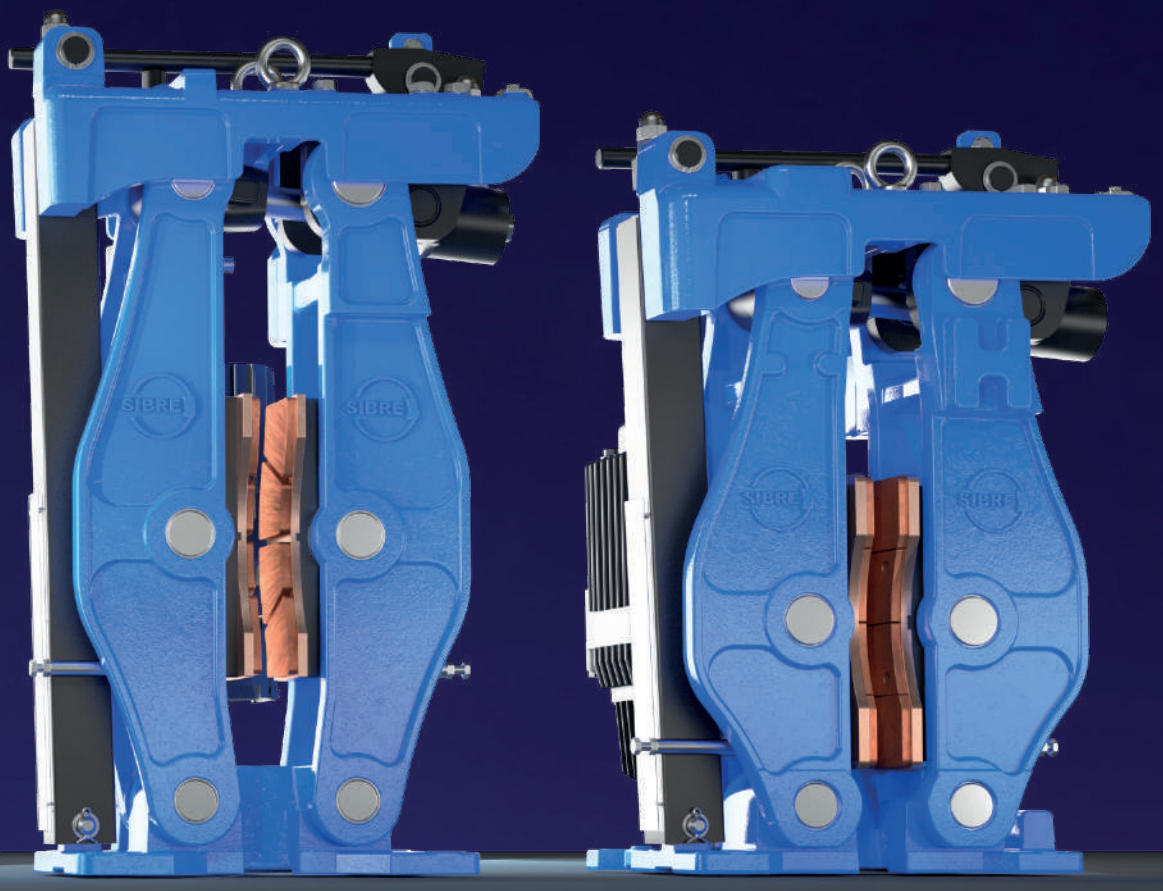
USB 5 II

Braking torque:
1.300 - 9.800 Nm

Centre height:
280 mm

Weight:
175 kg

– one concept



USB 5 III

Braking torque:
3.500 - 26.000 Nm

Centre height:
370 mm

Weight:
250 kg

USB 5 V

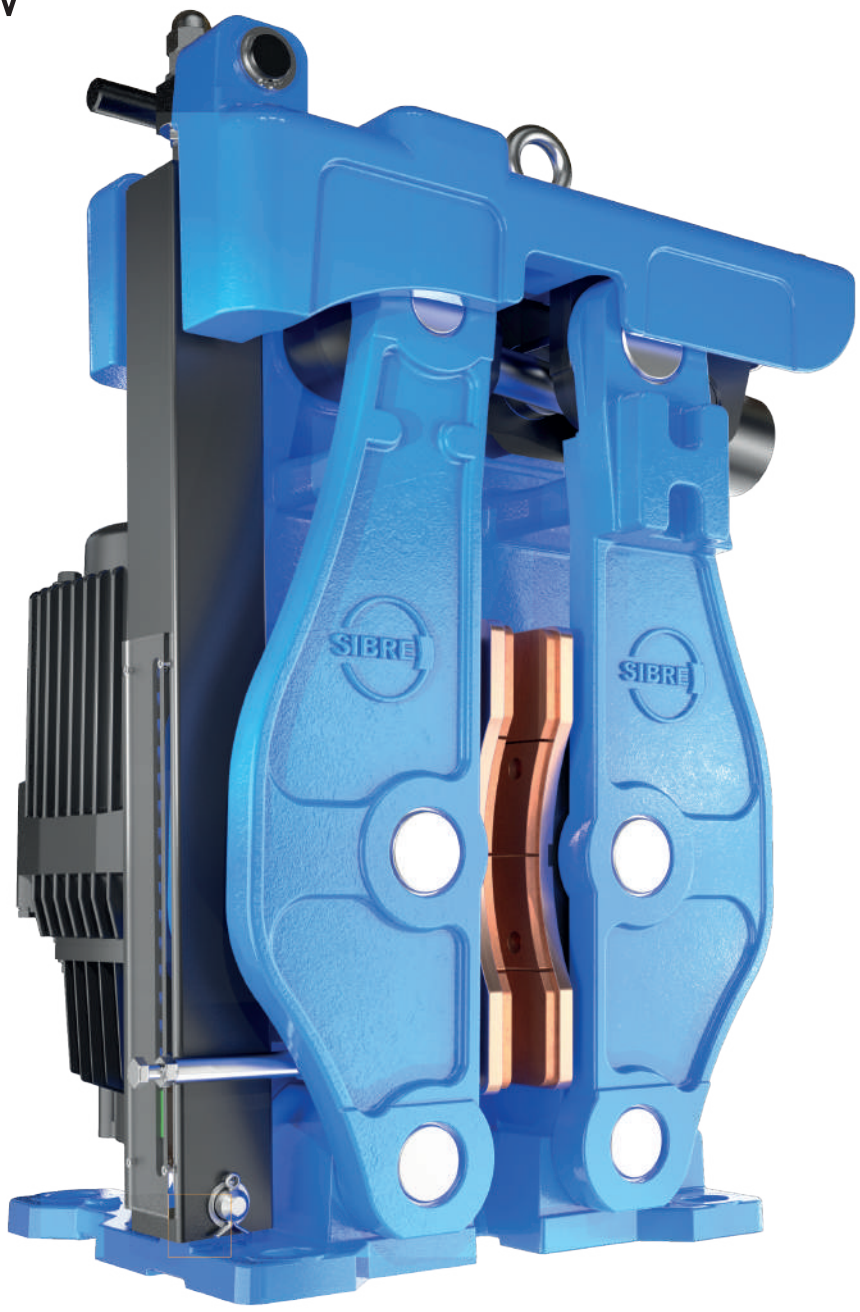
Braking torque:
6.000 - 29.000 Nm

Centre height:
280 mm

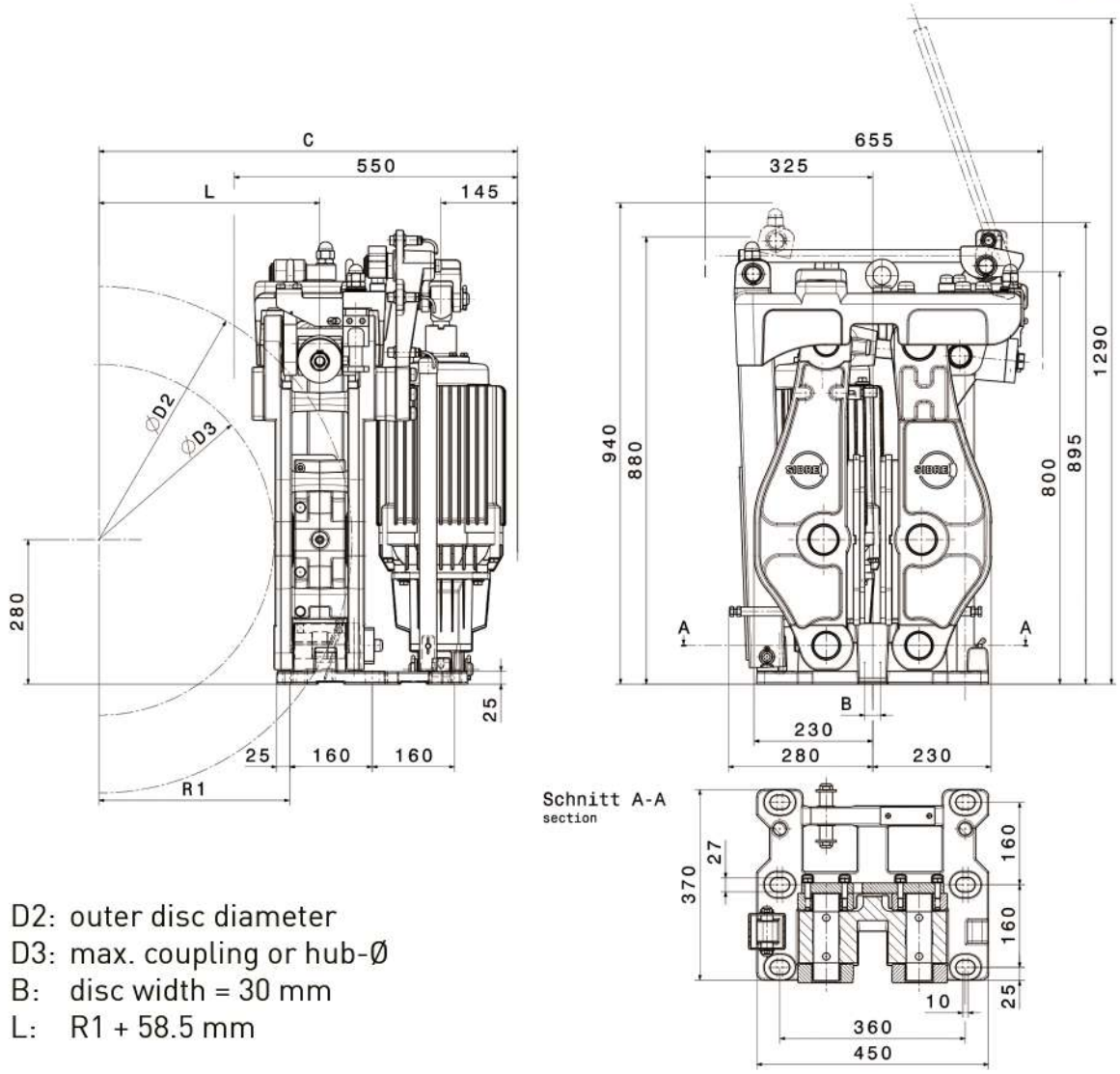
Weight:
285 kg

disc brake

USB 5 V



- Brake linings of sintered material with standard brake disc material S355J2G3
- The specified braking torques are based on an average friction coefficient μm = 0,4 with grinded and optimum conditioned brake linings up to a sliding speed of 60 m/s. Deviating parameters can reduce the friction-coefficient
- Please contact us when using thrusters with lifting- and/ or lowering valves
- Weight without thruster: 285 kg
- Thruster position: For 500/8 as shown, all others turned by 180°
- Available options:
  - Special executions for low and high ambient temperature
  - Manual release
  - Inductive sensors for indication “brake open”, “brake closed” and/ or “pad wear”
  - Temperature sensor for brake linings
  - Load cell for monitoring of clamping force



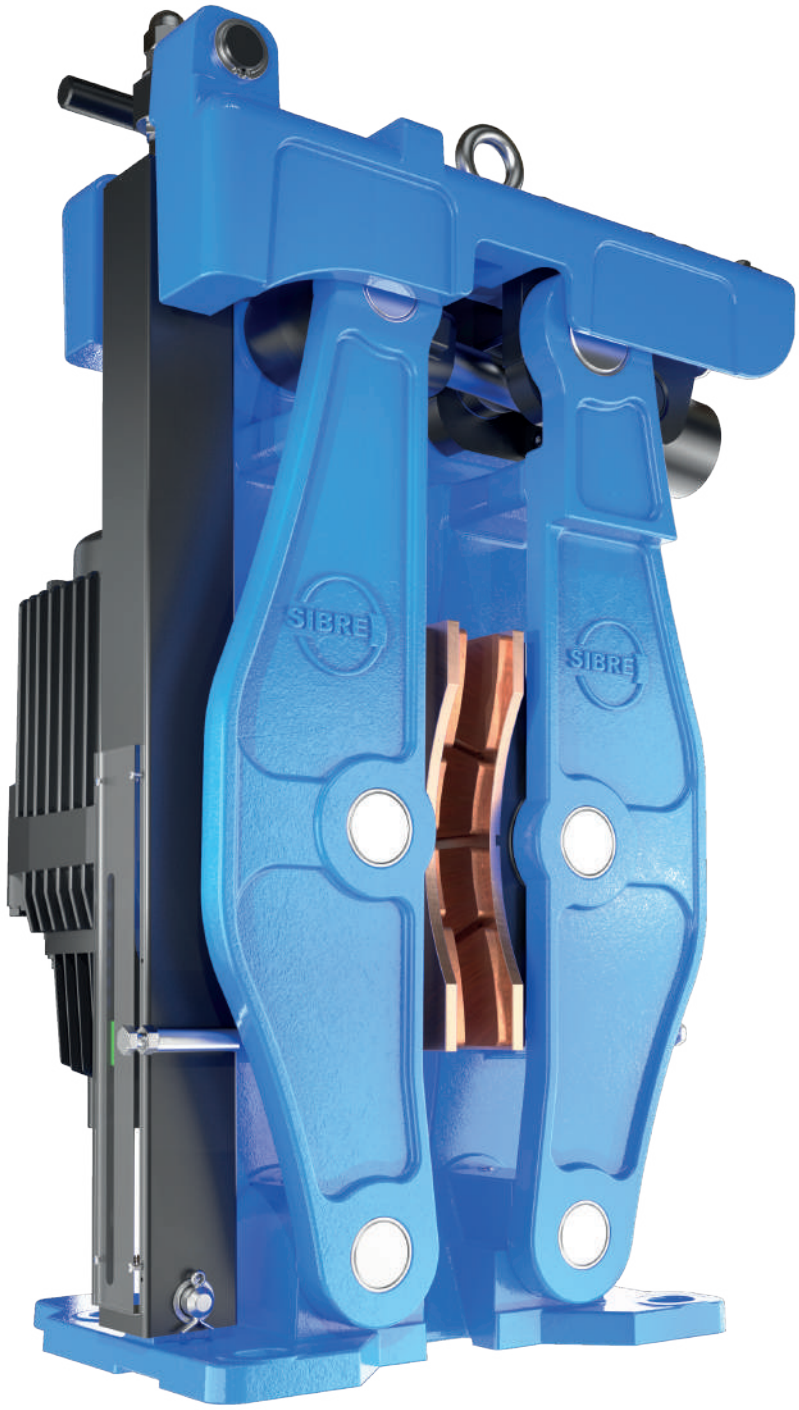
D2: outer disc diameter
D3: max. coupling or hub-Ø
B: disc width = 30 mm
L: R1 + 58.5 mm

Thruster type				201/12		301/12		400/8		500/8	
Dimensions in mm				Braking torque M in Nm							
D2	D3	R1	C	Mmin	Mmax	Mmin	Mmax	Mmin	Mmax	Mmin	Mmax
630	310	185	620	6000	9000	8000	12500	8000	15500	7000	16500
710	390	225	660	7500	10500	9000	14500	9000	18000	8500	19500
800	480	270	705	8500	12000	10500	16500	10500	21000	10000	22500
900	580	320	755	9500	13500	12000	19000	12000	24000	11000	25500
1000	680	370	805	11000	15500	14000	21500	14000	27000	12500	29000

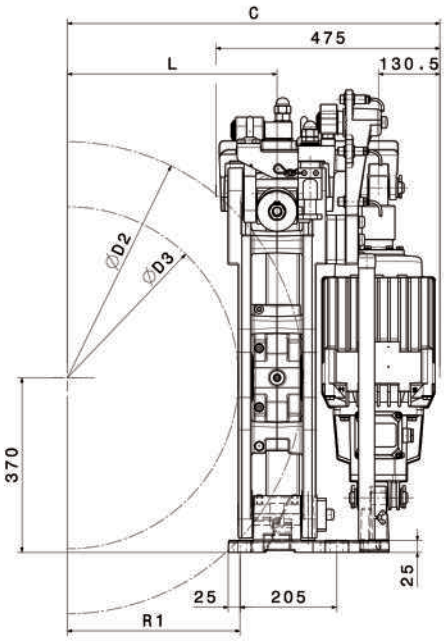
Thruster type				2000/120		3000/120		6300/120	
Dimensions in mm				Braking torque M in Nm					
D2	D3	R1	C	Mmin	Mmax	Mmin	Mmax	Mmin	Mmax
630	310	185	620	5500	8500	8000	12500	8000	15500
710	390	225	660	6500	10000	9000	14500	9000	18000
800	480	270	705	7500	11500	10500	16500	10500	21000
900	580	320	755	8500	13000	12000	19000	12000	24000
1000	680	370	805	9500	15000	14000	21500	13500	27500

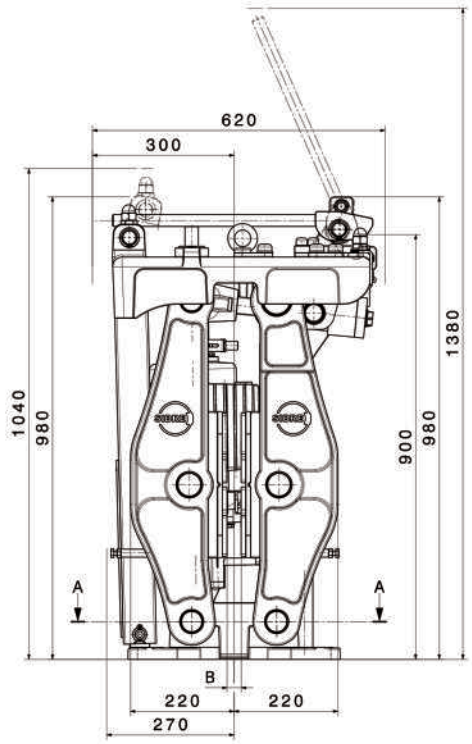
disc brake

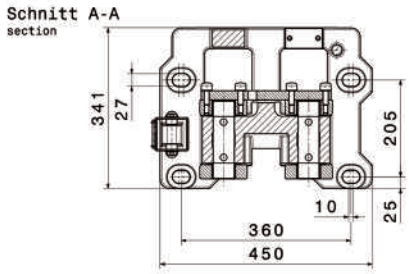
USB 5 III



- Brake linings of sintered material with standard brake disc material S355J2G3
- The specified braking torques are based on an average friction coefficient μm = 0,4 with grinded and optimum conditioned brake linings up to a sliding speed of 60 m/s. Deviating parameters can reduce the friction-coefficient
- Please contact us when using thrusters with lifting- and/ or lowering valves
- Weight without thruster: 250 kg
- Available options:
  - Special executions for low and high ambient temperature
  - Manual release
  - Inductive sensors for indication “brake open”, “brake closed” and/ or “pad wear”
  - Temperature sensor for brake linings
  - Load cell for monitoring of clamping force







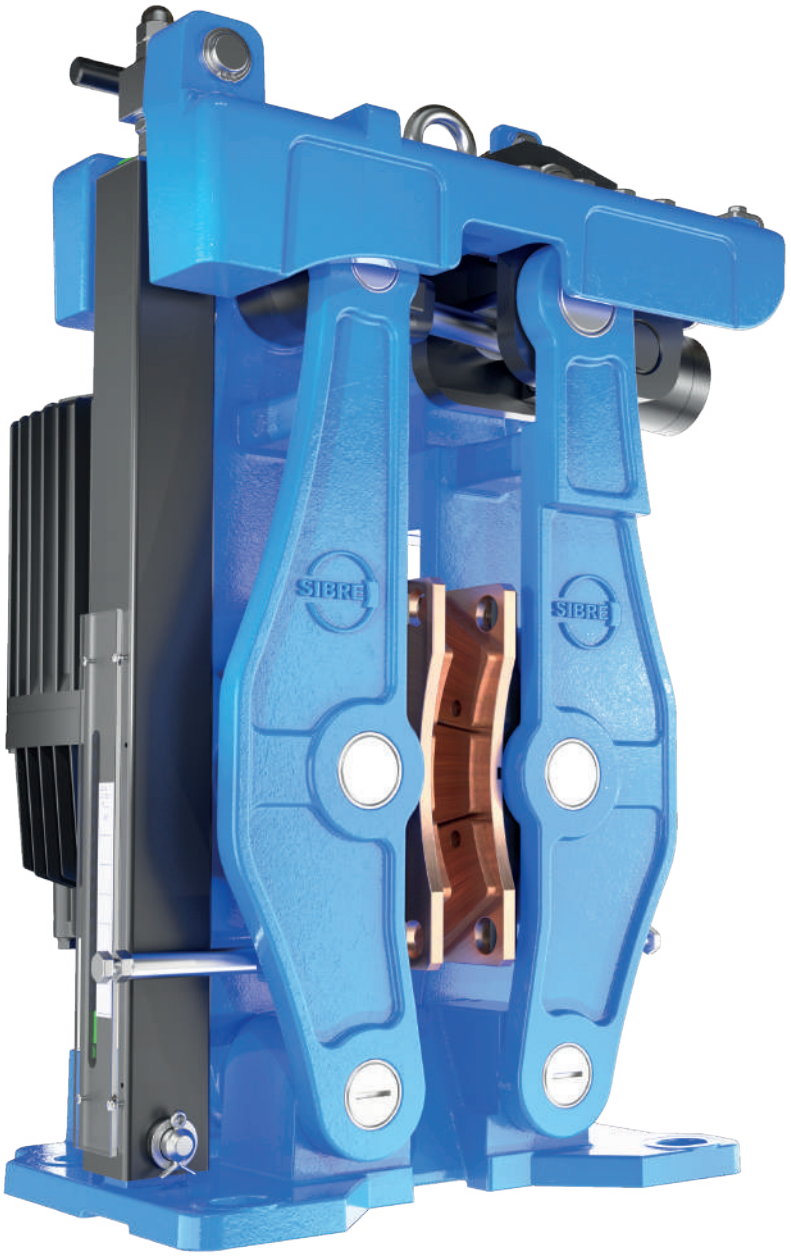
D2: outer disc diameter
D3: max. coupling or hub-Ø
B: disc width = 30 mm
L: R1 + 78.5 mm

Thruster type				121/6		201/6		301/6		400/6	
Dimensions in mm				Braking torque M in Nm							
D2	D3	R1	C	Mmin	Mmax	Mmin	Mmax	Mmin	Mmax	Mmin	Mmax
560	298	140	564	3500	4500	4000	7000	6000	10500	6500	13000
630	380	181	605	4000	5500	5000	8000	7000	12000	7500	15500
710	455	221	645	4500	6000	5500	9500	8500	14000	9000	17500
800	535	266	690	5000	7000	6500	11000	9500	16000	10000	20000
900	630	316	740	6000	8000	7500	12500	11000	18500	11500	23000
1000	725	366	790	6500	9000	8500	14000	12500	20500	13000	26000

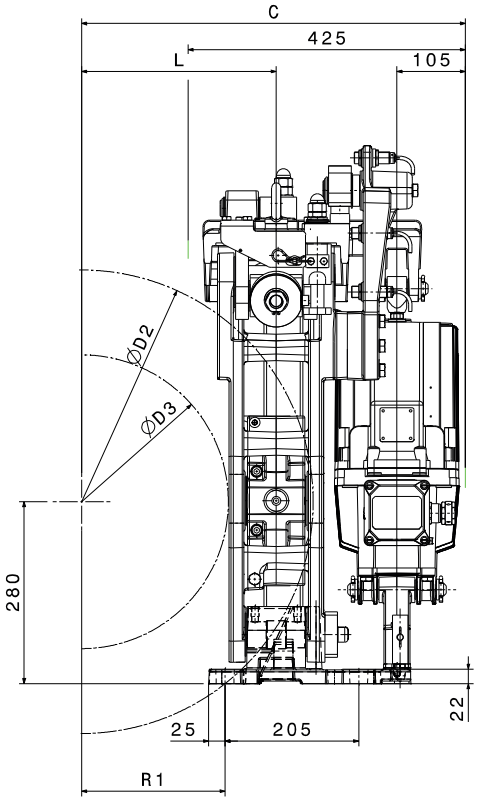
Thruster type				1250/60		2000/60		3000/60	
Dimensions in mm				Braking torque M in Nm					
D2	D3	R1	C	Mmin	Mmax	Mmin	Mmax	Mmin	Mmax
560	265	140	564	2500	4000	4000	7000	6000	10000
630	345	181	605	3000	4500	4500	8000	7000	11500
710	425	221	645	3500	5500	5000	9000	8000	13000
800	515	266	690	4000	6000	6000	10500	9000	15000
900	615	316	740	5000	7000	7000	12000	10500	17500
1000	715	366	790	5500	8000	7500	13500	11500	19500

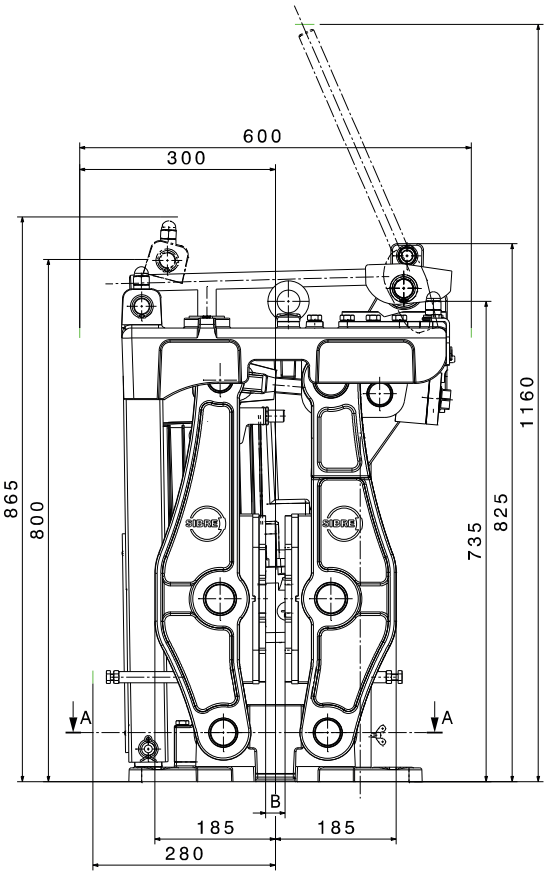
disc brake

USB 5 II



- Brake linings of sintered material with standard brake disc material S355J2G3
- The specified braking torques are based on an average friction coefficient μm = 0,4 with grinded and optimum conditioned brake linings up to a sliding speed of 60 m/s. Deviating parameters can reduce the friction-coefficient
- Please contact us when using thrusters with lifting- and/ or lowering valves
- Weight without thruster: 175 kg
- Available options:
  - Special executions for low and high ambient temperature
  - Manual release
  - Inductive sensors for indication “brake open”, “brake closed” and/ or “pad wear”
  - Temperature sensor for brake linings
  - Load cell for monitoring of clamping force





Schnitt A-A
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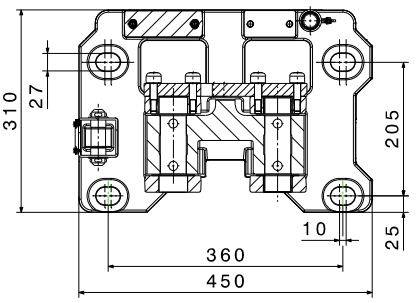


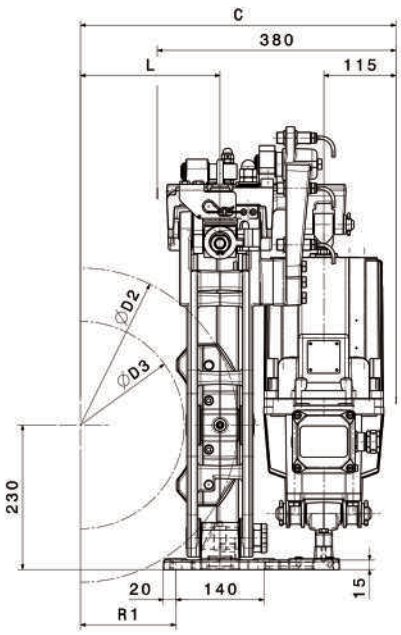
D2: outer disc diameter
D3: max. coupling or hub-Ø
B: disc width = 30 mm
L: R1 + 78,5 mm

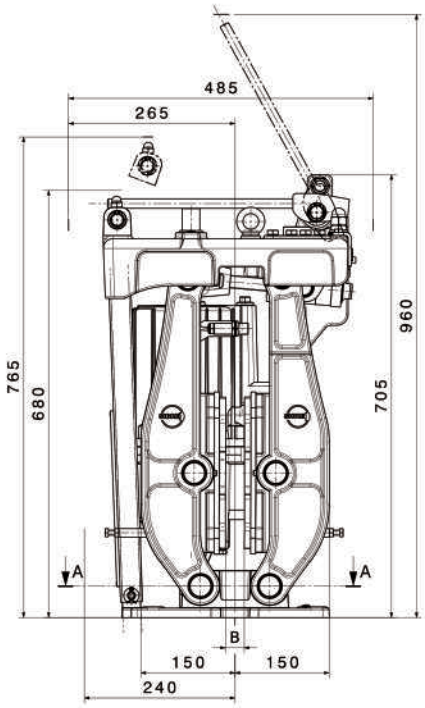
Thruster type				50/7		80/7		125/7	
Dimensions in mm				Braking torque M in Nm					
D2	D3	R1	C	Mmin	Mmax	Mmin	Mmax	Mmin	Mmax
450	190	95	465	1300	2000	1500	3200	1700	4900
500	240	120	490	1500	2300	1700	3600	1900	5600
560	300	150	520	1800	2700	2000	4200	2200	6400
630	370	185	555	2100	3100	2300	4800	2500	7400
710	450	225	595	2400	3600	2600	5600	2900	8500
800	530	270	640	2700	4100	3000	6400	3300	9800

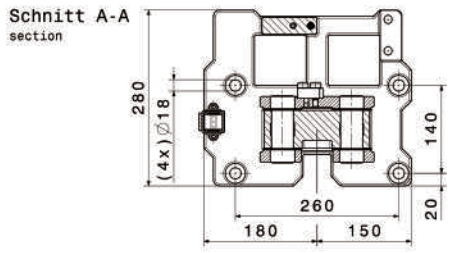
disc brake

USB 5 I

- Brake linings of sintered material with standard brake disc material S355J2G3
- The specified braking torques are based on an average friction coefficient μm = 0,4 with grinded and optimum conditioned brake linings up to a sliding speed of 60 m/s. Deviating parameters can reduce the friction-coefficient
- Please contact us when using thrusters with lifting- and/ or lowering valves
- Weight without thruster: 85 kg
- Available options:
  - Special executions for low and high ambient temperature
  - Manual release
  - Inductive sensors for indication “brake open”, “brake closed” and/ or “pad wear”
  - Temperature sensor for brake linings
  - Load cell for monitoring of clamping force







D2: outer disc diameter
D3: max. coupling or hub-Ø
B: disc width = 30 mm
L: R1 + 70 mm

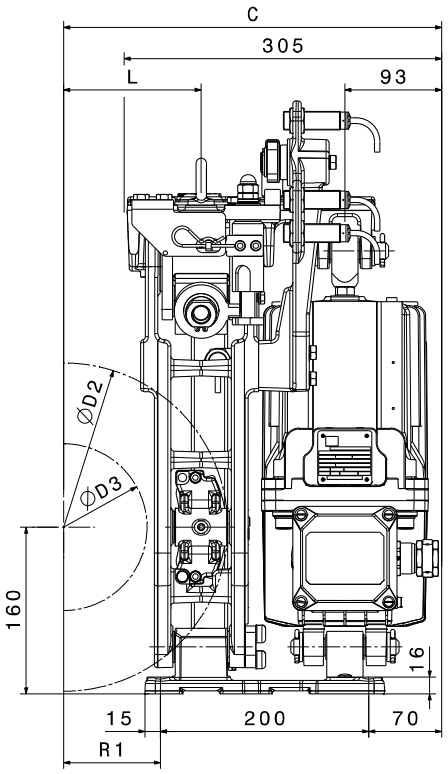
Thruster type				30/5		50/6		80/6	
Dimensions in mm				Braking torque M in Nm					
D2	D3	R1	C	Mmin	Mmax	Mmin	Mmax	Mmin	Mmax
355	180	75.5	425.5	550	850	950	1700	900	2200
400	230	102	452	650	950	1100	1900	1000	2600
450	280	127	477	750	1100	1200	2200	1200	3000
500	330	152	502	850	1200	1400	2500	1300	3400
560	390	182	532	1000	1400	1600	2900	1500	3900
630	450	217	567	1100	1600	1900	3300	1700	4400
710	530	257	607	1300	1900	2100	3800	2000	5100

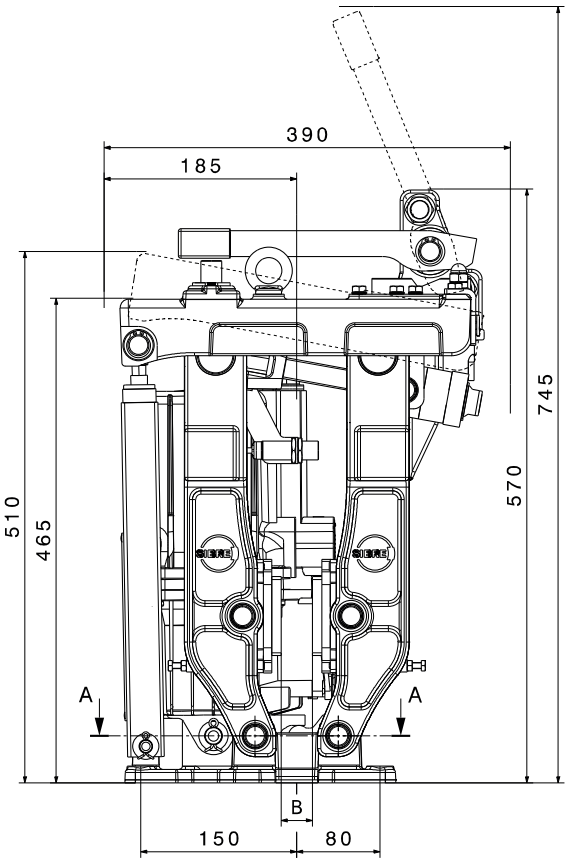
Thruster type				300/50		500/60		800/60	
Dimensions in mm				Braking torque M in Nm					
D2	D3	R1	C	Mmin	Mmax	Mmin	Mmax	Mmin	Mmax
355	180	75.5	425.5	550	850	650	1400	900	2200
400	230	102	452	650	950	750	1600	1000	2600
450	280	127	477	750	1100	900	1900	1200	3000
500	330	152	502	850	1200	1000	2100	1300	3400
560	390	182	532	1000	1400	1100	2400	1500	3900
630	450	217	567	1100	1600	1300	2800	1700	4400
710	530	257	607	1300	1900	1500	3200	2000	5100

disc brake

USB 5 05

- Brake linings of sintered material with standard brake disc material S355J2G3
- The specified braking torques are based on an average friction coefficient μm = 0,4 with grinded and optimum conditioned brake linings up to a sliding speed of 60 m/s. Deviating parameters can reduce the friction-coefficient
- Please contact us when using thrusters with lifting- and/ or lowering valves
- Weight without thruster: 46 kg
- Available options:
  - Special executions for low and high ambient temperature
  - Manual release
  - Inductive sensors for indication “brake open”, “brake closed” and/ or “pad wear”
  - Temperature sensor for brake linings
  - Load cell for monitoring of clamping force





Schnitt A-A
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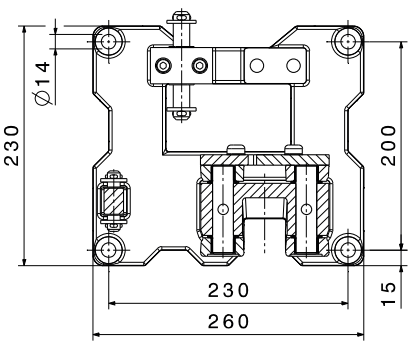

D2: outer disc diameter
D3: max. coupling or hub-Ø
B: disc width = 30 mm
L: R1 + 39 mm

Thruster type				23/5 220-50		30/5 300-50	
Dimensions in mm				Braking torque M in Nm			
D2	D3	R1	C	Mmin	Mmax	Mmin	Mmax
250	75	61	331	100	210	100	390
280	105	76	346	130	240	130	450
315	140	93	363	150	270	150	520
355	180	113	383	180	310	180	600
400	220	135	405	210	360	210	690

The SIBRE world of industrial brakes

GERMANY – HEADQUARTER
SIBRE – Siegerland Bremsen GmbH
Auf der Stücke 1-5
35708 Haiger
Phone: +49 2773 9400-0
Email: info@sibre.de

USA
SIBRE Brakes USA
P.O. Box 164
Cedarville NJ 08331
207 Bogden Blvd. Suite D
Millville NJ 08332
Phone: +1 856 367 73 54
Email: megan.watson@sibreusa.com

SPAIN
SIBRE Brakes Spain S.L.
Pol. Ind. Trevenez
C/Actriz Amelia de la Torre 3
E-29004 Malaga
Phone: +34 952 20 39 12
Email: jtoscano@sibre.es

ITALY
SIBRE Italia S.r.l.
Via Zanardelli 102
I-25089 – Villanuova sul Clisi, BS
Phone: +39 347 884 74 55
Email: sales@sibre.it

SWEDEN
SIBRE Brakes Scandinavia AB
Strandvägen 10
475 40 Hönö
Sweden
Phone: +46 31 96 21 90
Email: goran@sibre.se

SERBIA

SIBRE Fluidotehnic d.o.o.

Rudijinci 175 / A
36210 Vrnjacka Banja

Phone: +381 36 63 17 10
Email: office@fluidotehnic.com

INDIA

SIBRE Brakes (India) Pvt Ltd

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

Phone: +91 33 24 54 32 80
Email: info@sibre.in

MALAYSIA

SIBRE Brakes (S.E.A.) Pte. Ltd.

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

Phone: +65 6710 44 61
Email: info@sibre.com.sg

CHINA

SIBRE Brakes Tianjin Co. Ltd.

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

Phone: +86 22 59 81 31 00
Email: info@sibre.cn

Heroes.
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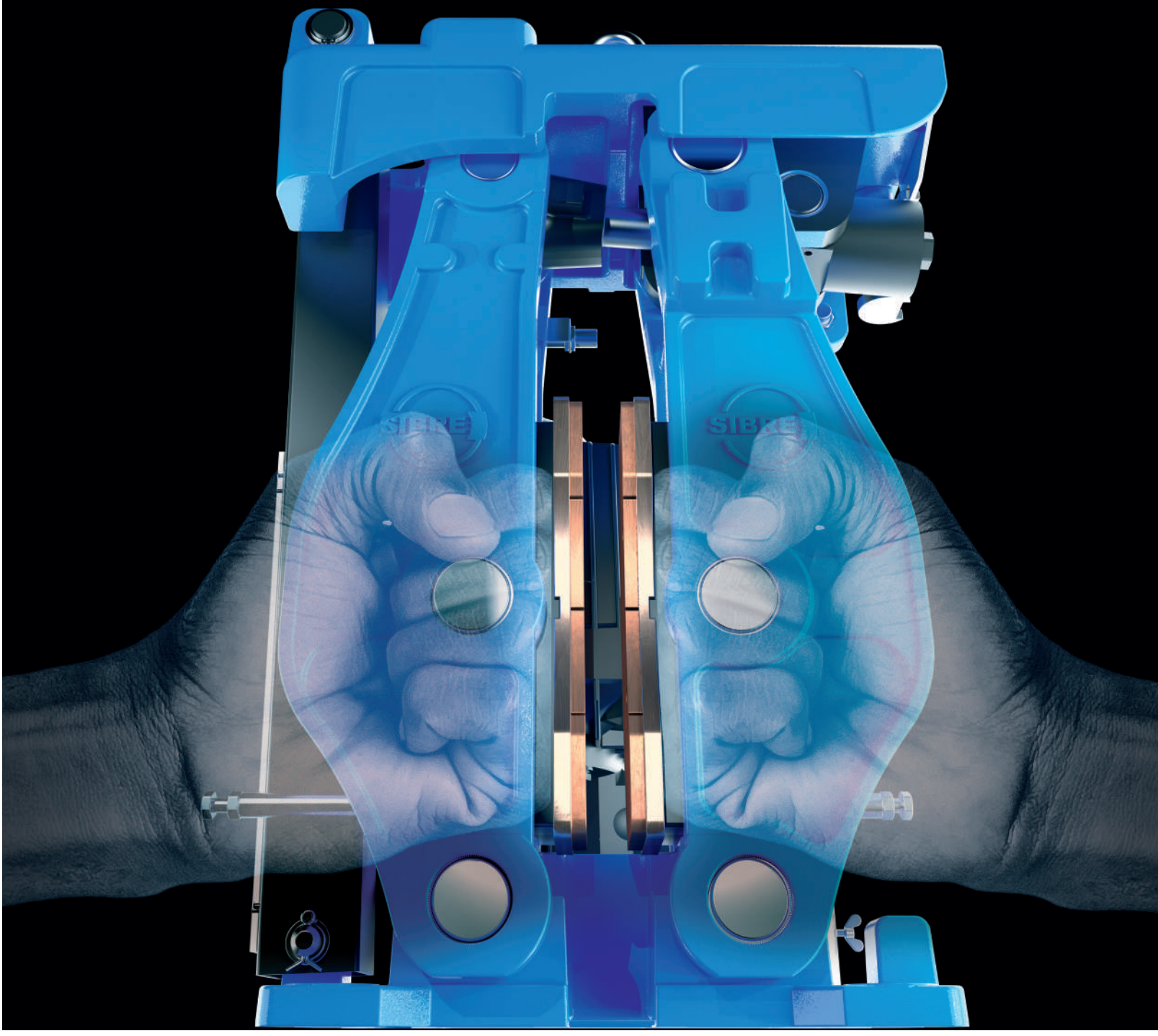

SIBRE

Sure to be Safe

SIBRE Siegerland Bremsen GmbH
Auf der Stücke 1 - 5
D-35708 Haiger - Rodenbach
Tel. +49 2773 9400-0

info@sibre.de | www.sibre.de