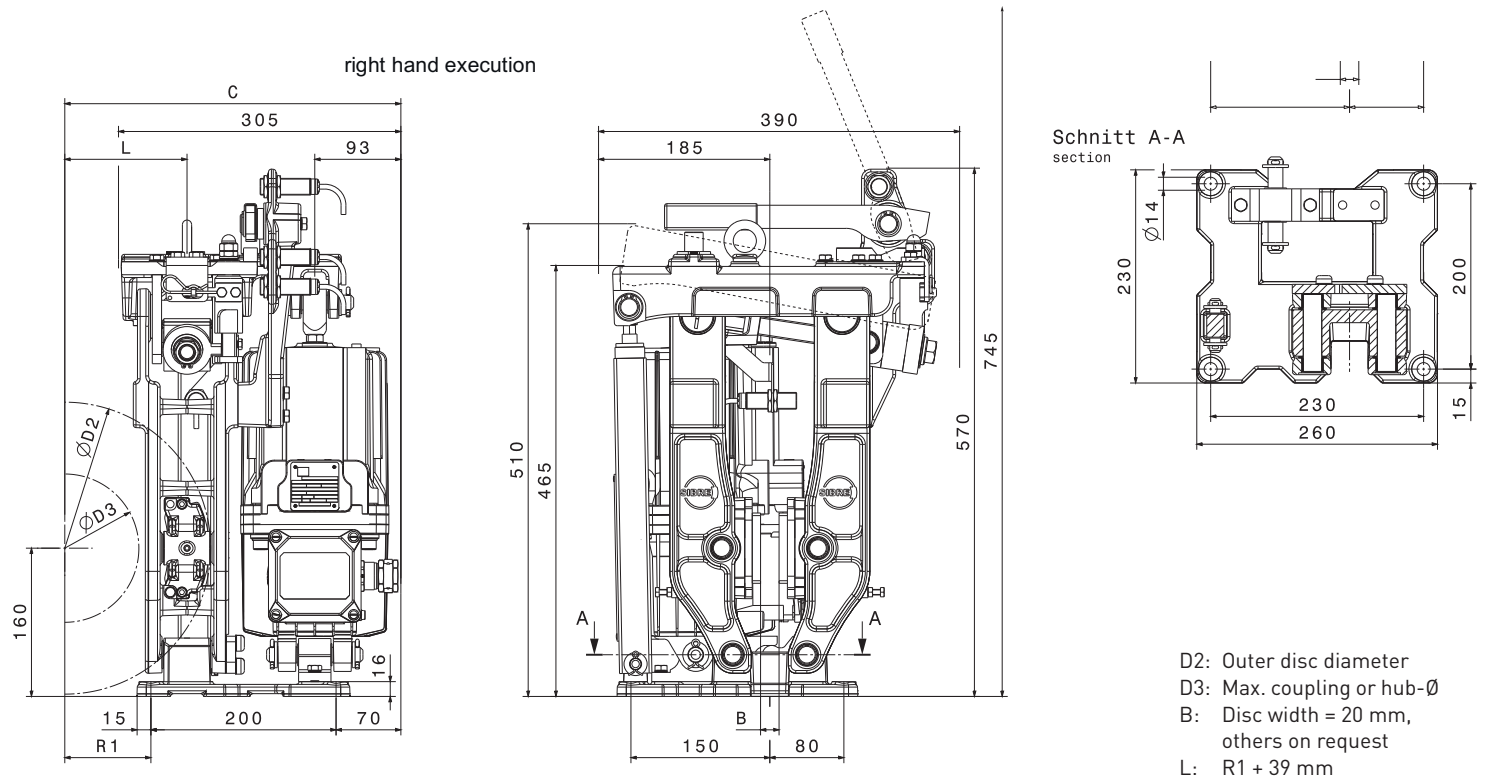




# DISC BRAKE USB5-05

M 1501 458 E-EN-2021-01



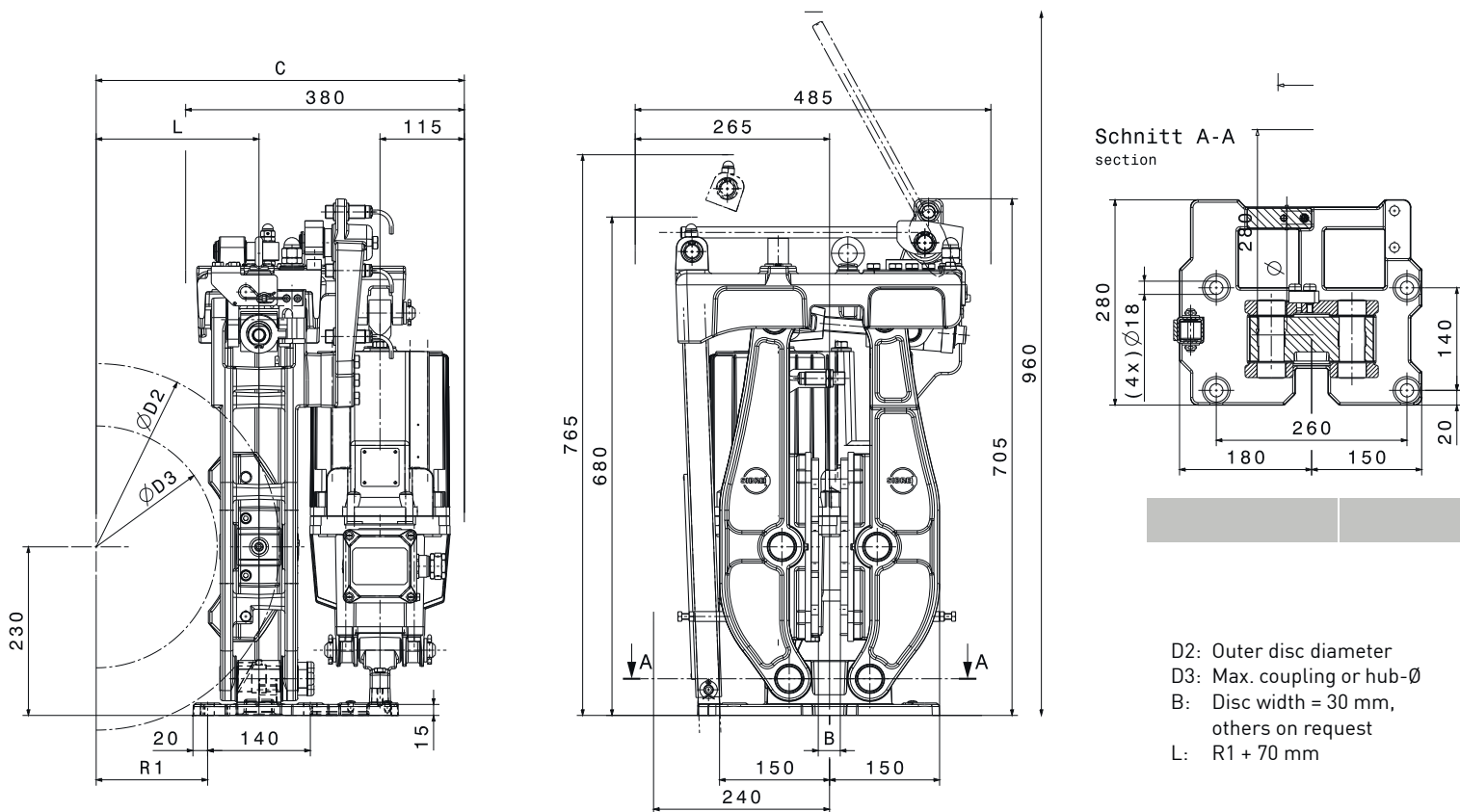
Thruster type				23/5 220-50		30/5 300-50		500-50	
Dimensions in mm				Braking torque M in Nm					
D2	D3	R1	C	Mmin	Mmax	Mmin	Mmax	Mmin	Mmax
250	96	61	331	110	210	195	390	270	630
280	126	76	346	115	240	225	450	320	730
315	160	93	363	135	280	260	520	360	830
355	200	113	383	155	320	300	600	410	950
400	244	135	405	175	370	345	690	480	1100
450	294	160	430	205	420	395	790	550	1250
500	344	185	455	230	480	445	890	620	1400

- Brake linings of sintered material with standard brake disc material S355J2G3
- The specified braking torques are based on an average friction coefficient  $\mu_m = 0,4$  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:**
  - Left hand execution, special execution for low and high ambient temperature
  - Manual release
  - Brake linings of organic material (please contact us for other operating conditions)
  - Inductive sensors for indication "brake open", "brake closed" and / or "pad wear"
  - Temperature sensor for brake linings
  - Load cell for monitoring of clamping force

# DISC BRAKE USB5-I



M 1501 459 E-EN-2019-05



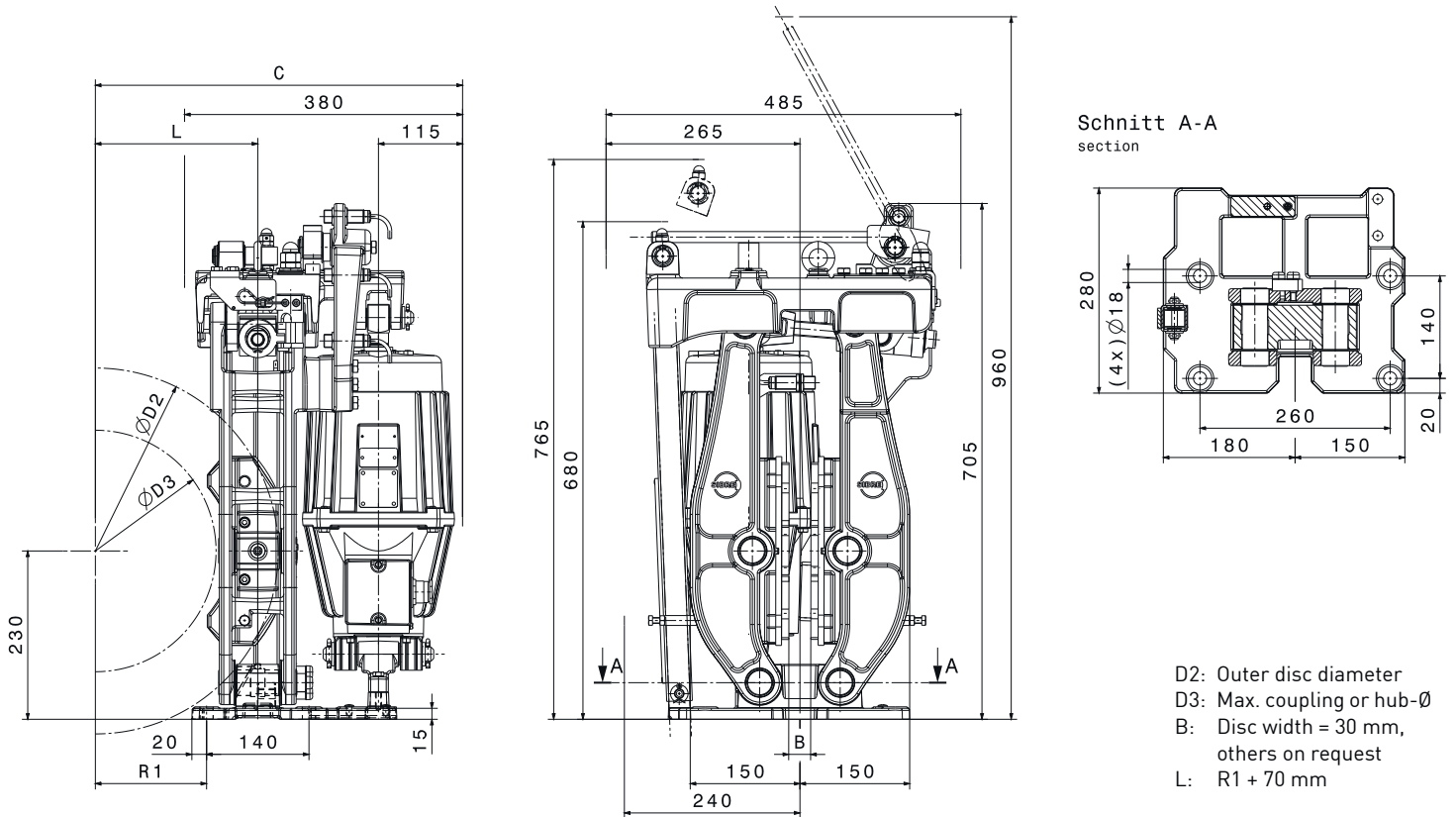
Thruster type				30/5		50/6		80/6	
Dimensions in mm				Braking torque M in Nm					
D2	D3	R1	C	Mmin	Mmax	Mmin	Mmax	Mmin	Mmax
355	180	75.5	425.5	550	850	950	1700	900	2200
400	230	102	452	650	950	1100	1900	1000	2600
450	280	127	477	750	1100	1200	2200	1200	3000
500	330	152	502	850	1200	1400	2500	1300	3400
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

- Brake linings of sintered material with standard brake disc material S355J2G3
- The specified braking torques are based on an average friction coefficient  $\mu_m = 0,4$  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



# DISC BRAKE USB5-I - ELHY

M 1501 460 E-EN-2019-05



D2: Outer disc diameter  
 D3: Max. coupling or hub-Ø  
 B: Disc width = 30 mm, others on request  
 L: R1 + 70 mm

Thruster type				300/5		500/6		800/6	
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	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

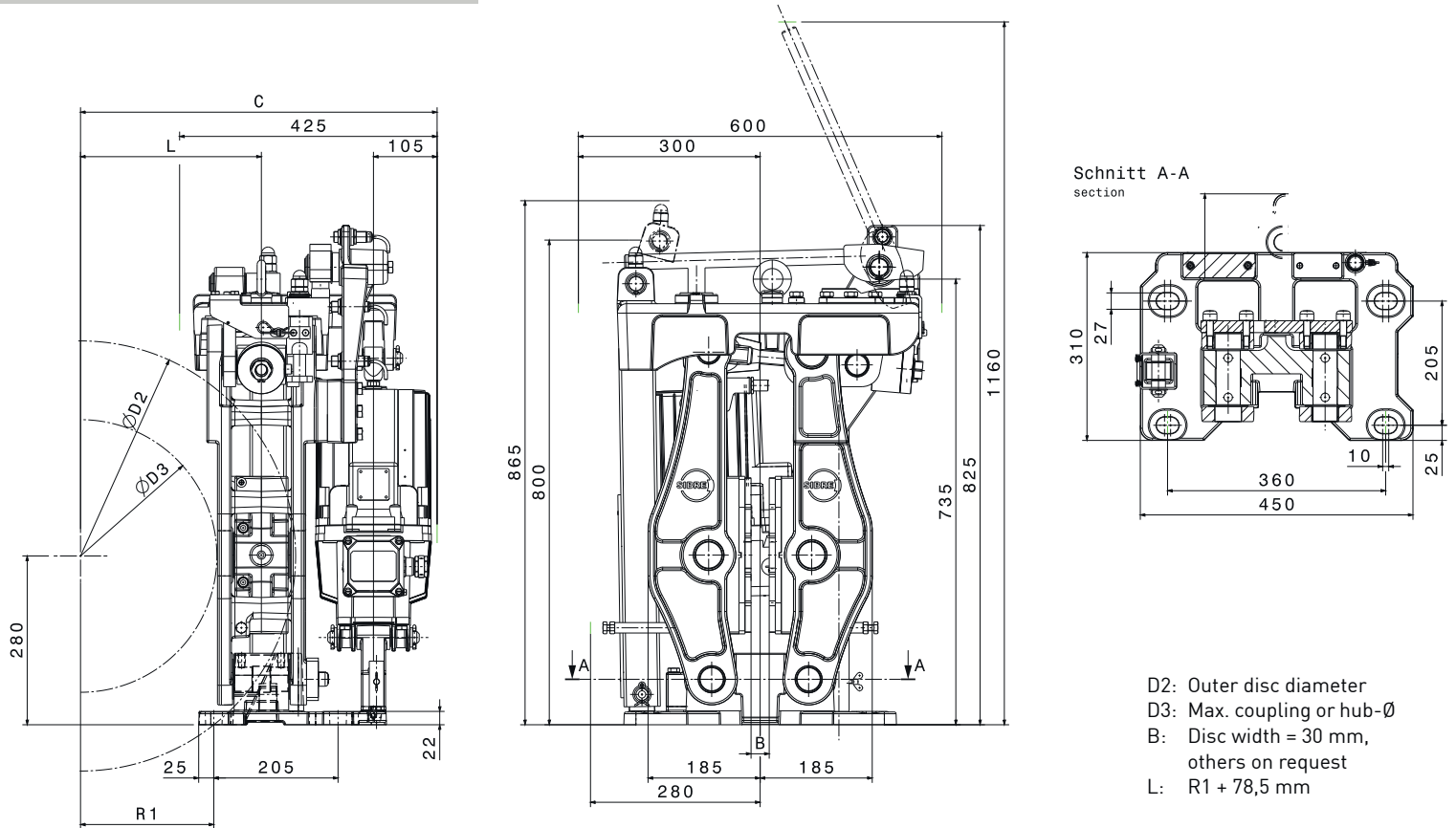
- Brake linings of sintered material with standard brake disc material S355J2G3
- The specified braking torques are based on an average friction coefficient  $\mu = 0,4$  with grinded and optimum conditioned brake linings up to a sliding speed of 60 m/s. Deviating parameters can reduce the friction-coefficient.
- 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

# DISC BRAKE USB5-II



M 1501 461 E-EN-2019-05



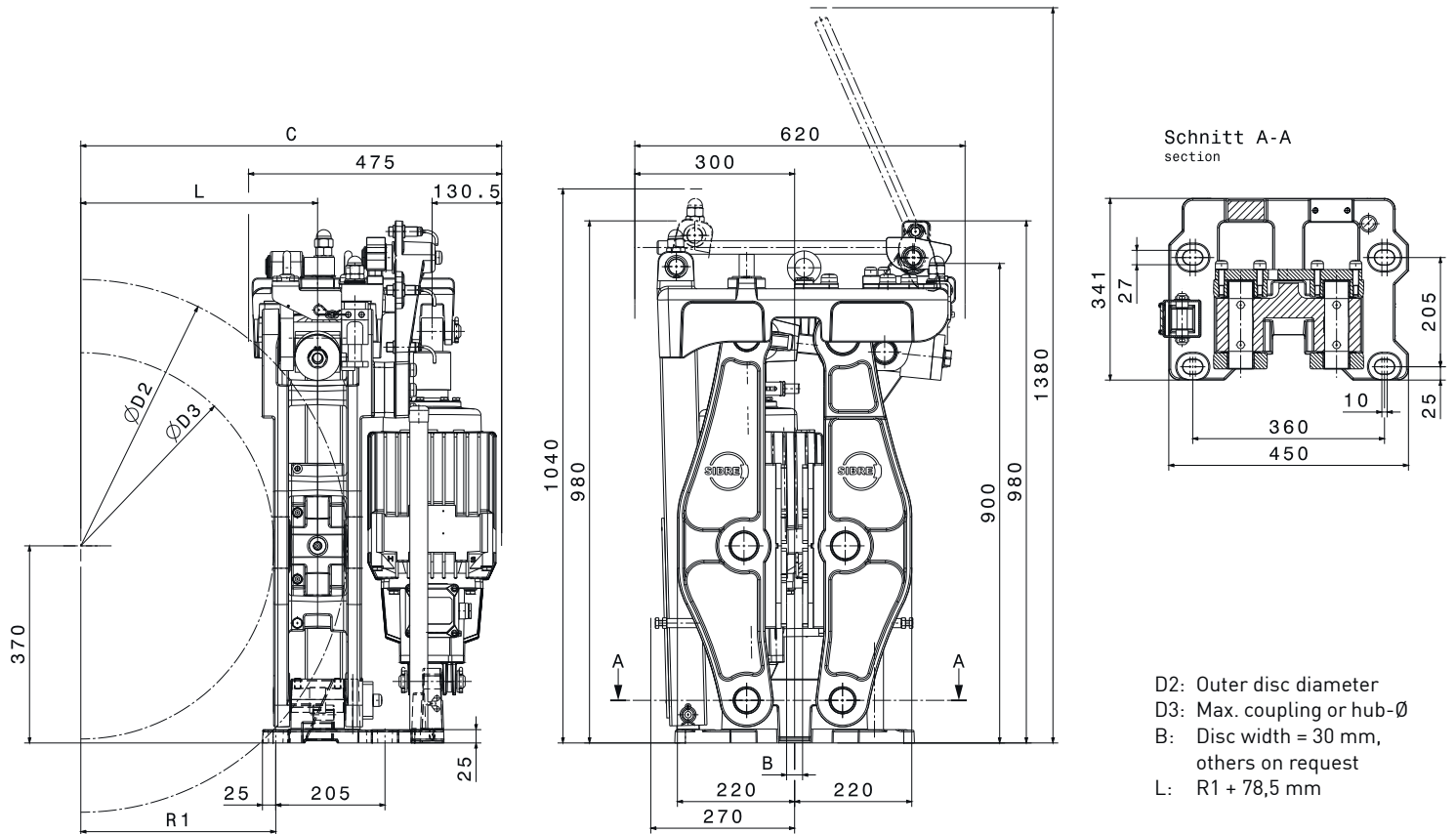
Thruster type				50/7		80/7		125/7	
Dimensions in mm				Braking torque M in Nm					
D2	D3	R1	C	Mmin	Mmax	Mmin	Mmax	Mmin	Mmax
450	190	95	465	1300	2000	1500	3200	1700	4900
500	240	120	490	1500	2300	1700	3600	1900	5600
560	300	150	520	1800	2700	2000	4200	2200	6400
630	370	185	555	2100	3100	2300	4800	2500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

- Brake linings of sintered material with standard brake disc material S355J2G3
- The specified braking torques are based on an average friction coefficient  $\mu = 0,4$  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



# DISC BRAKE USB5-III

M 1501 462 E-EN-2019-05



D2: Outer disc diameter  
D3: Max. coupling or hub-Ø  
B: Disc width = 30 mm,  
others on request  
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	265	140	564	3500	4500	4000	7000	6000	10500	6500	13000
630	345	181	605	4000	5500	5000	8000	7000	12000	7500	15500
710	425	221	645	4500	6000	5500	9500	8500	14000	9000	17500
800	515	266	690	5000	7000	6500	11000	9500	16000	10000	20000
900	615	316	740	6000	8000	7500	12500	11000	18500	11500	23000
1000	715	366	790	6500	9000	8500	14000	12500	20500	13000	26000

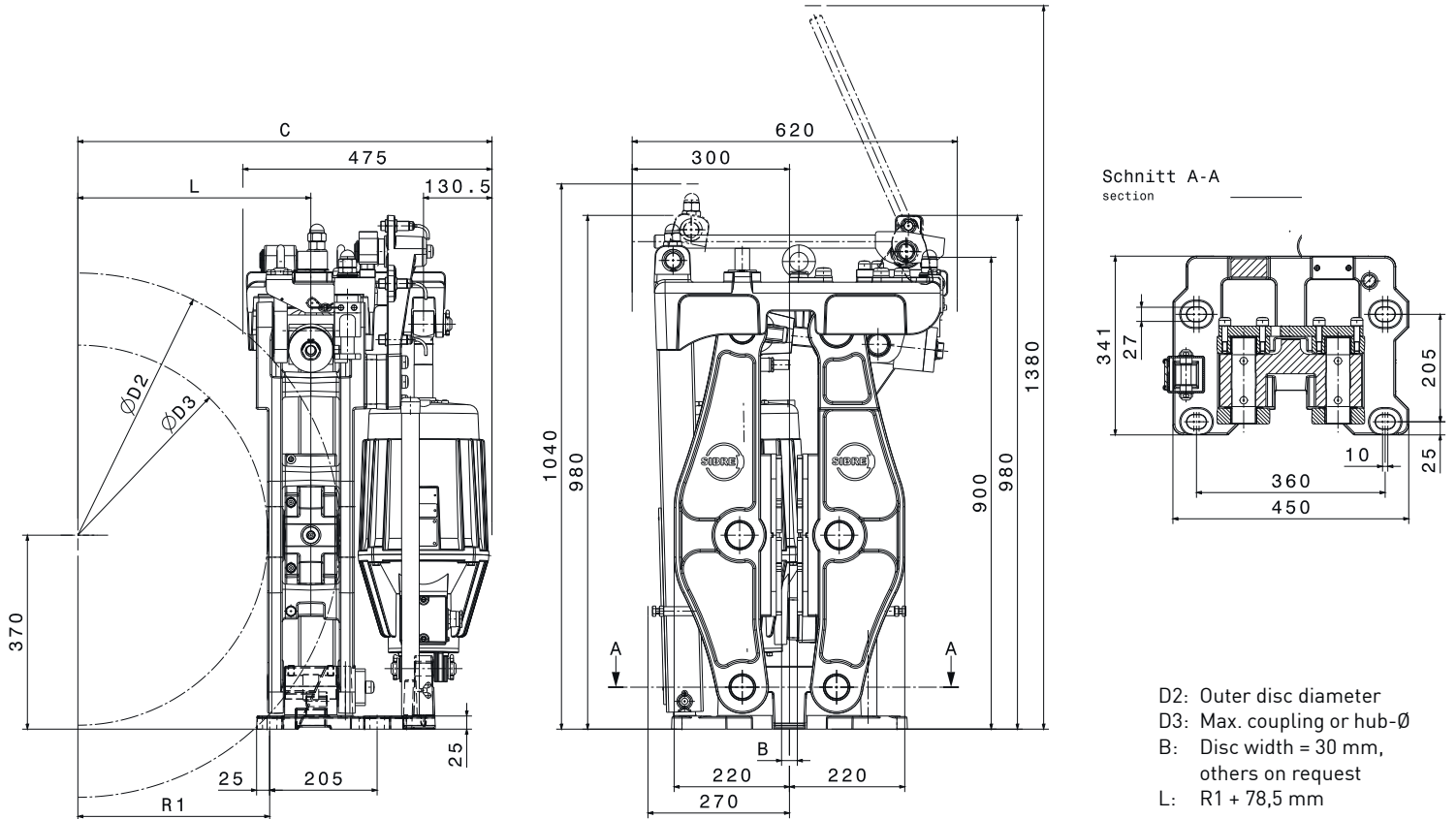
- Brake linings of sintered material with standard brake disc material S355J2G3
- The specified braking torques are based on an average friction coefficient  $\mu = 0,4$  with grinded and optimum conditioned brake linings up to a sliding speed of 60 m/s. Deviating parameters can reduce the friction-coefficient.
- 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

# DISC BRAKE USB5-III – ELHY



M 1501 463 E-EN-2019-07



D2: Outer disc diameter  
D3: Max. coupling or hub- $\phi$   
B: Disc width = 30 mm,  
others on request  
L: R1 + 78,5 mm

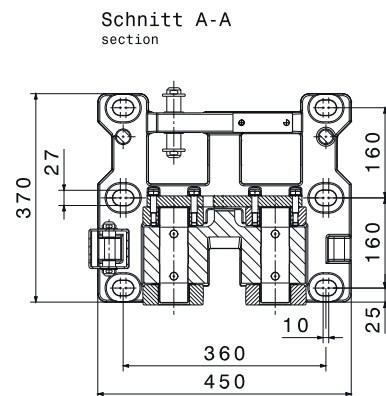
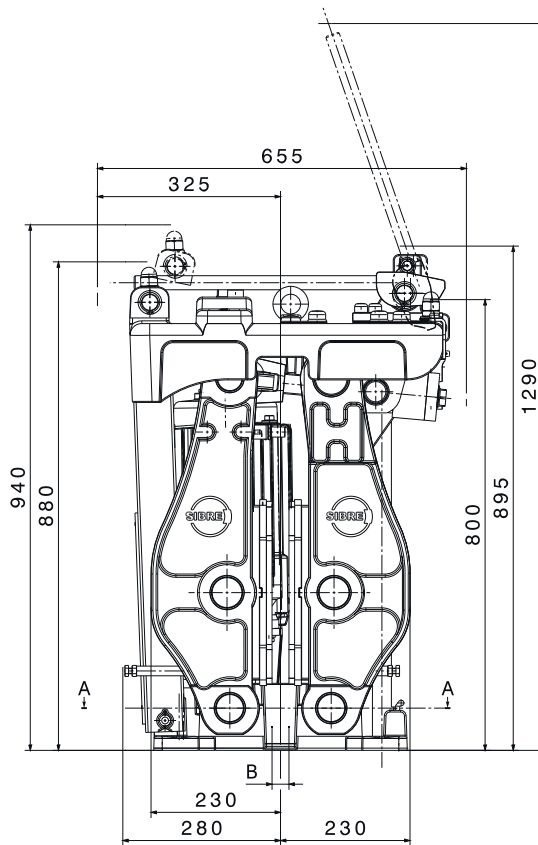
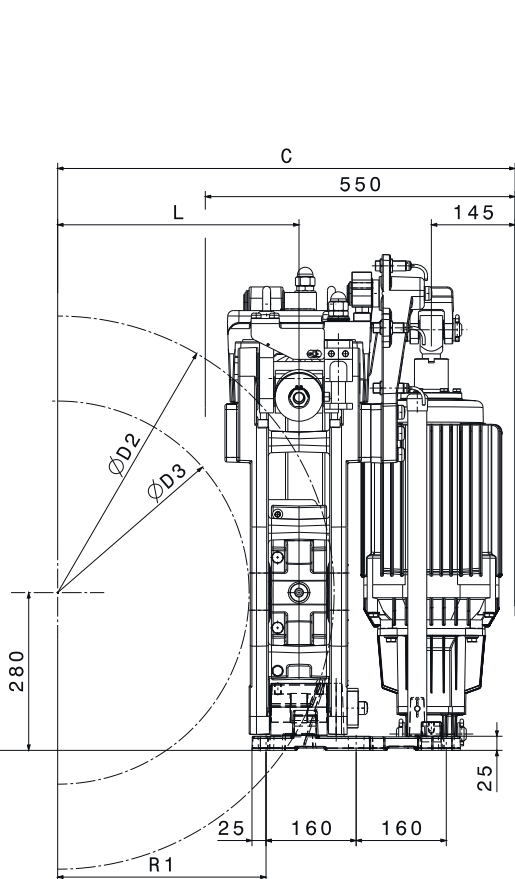
Thruster type				1250/ 60		2000/ 60		3000/ 60	
Dimensions in mm				Braking torque M in Nm					
D2	D3	R1	C	Mmin	Mmax	Mmin	Mmax	Mmin	Mmax
560	265	140	564	2500	4000	4000	7000	5000	10000
630	345	181	605	3000	4500	4500	8000	6000	11500
710	425	221	645	3500	5500	5000	9000	7000	13000
800	515	266	690	4000	6000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

- Brake linings of sintered material with standard brake disc material S355J2G3
- The specified braking torques are based on an average friction coefficient  $\mu = 0,4$  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



# DISC BRAKE USB5-V

M 1501 464 E-EN-2019-05



Schnitt A-A  
section

D2: Outer disc diameter  
D3: Max. coupling or hub-Ø  
B: Disc width = 30 mm,  
others on request  
L: R1 + 58,5 mm

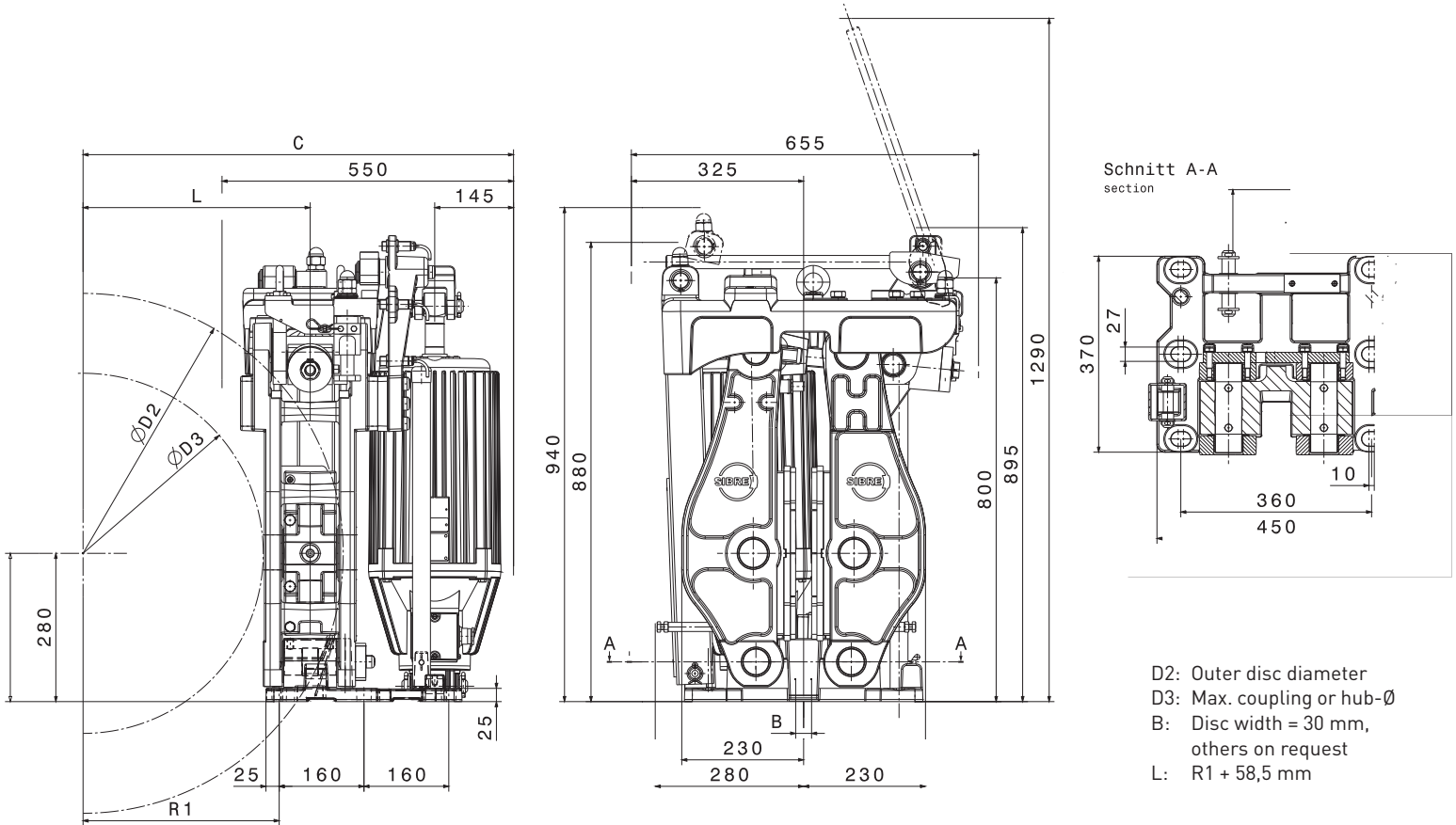
Thruster type				201/12	301/12	400/8	500/8				
Dimensions in mm				Braking torque M in Nm							
D2	D3	R1	C	Mmin	Mmax	Mmin	Mmax	Mmin	Mmax	Mmin	Mmax
630	310	185	620	6000	9000	8000	12500	8000	15500	7000	16500
710	390	225	660	7500	10500	9000	14500	9000	18000	8500	19500
800	480	270	705	8500	12000	10500	16500	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

- Brake linings of sintered material with standard brake disc material S355J2G3
- The specified braking torques are based on an average friction coefficient  $\mu = 0,4$  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

# DISC BRAKE

## USB5-V – ELHY

M 1501 465 E-EN-2021-01



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	3500	8500	4500	12500	6500	15500
710	390	225	660	4000	10000	5500	14500	7500	18000
800	480	270	705	5000	11500	6000	16500	8500	21000
900	580	320	755	5500	13000	7000	19000	10000	24000
1000	680	370	805	6500	15000	8000	21500	11000	27500

- Brake linings of sintered material with standard brake disc material S355J2G3
- The specified braking torques are based on an average friction coefficient  $\mu = 0,4$  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.
- **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