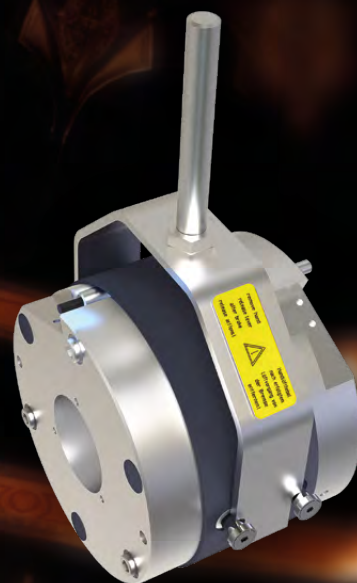




Safe brakes for powerful emotions



ROBA-stop® stage

**Dual Circuit Braking -
without double the torque**

Stage brakes ROBA-stop® stage

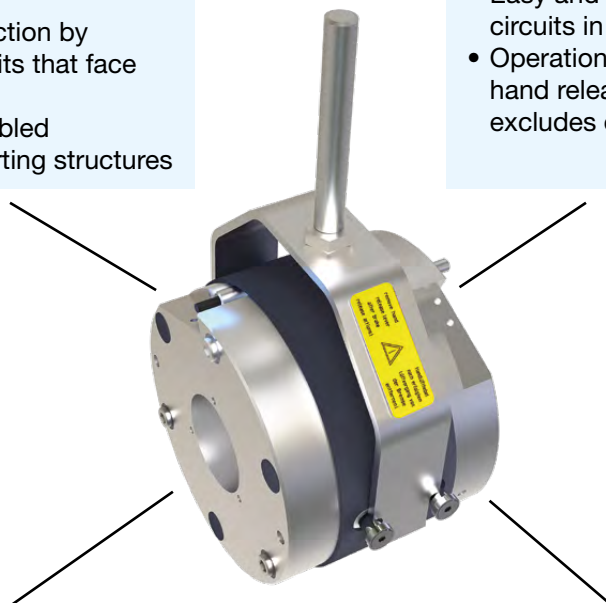
100% Safety – 100% Brake Torque

Double safety, single load

- Redundant switching function by means of two brake circuits that face each other
- Braking torque is not doubled
- Reduces loads on supporting structures

Plug-in hand release

- Easy and fast opening of both brake circuits in an emergency
- Operation takes place without hand release. This ensures safety and excludes operating errors



Plug-and-play solution

- Completely assembled and adjusted ready for use
- Simple and quick installation and application
- Adjustment errors are prevented, thus the highest possible safety is guaranteed

Intelligent design

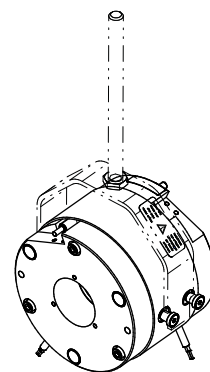
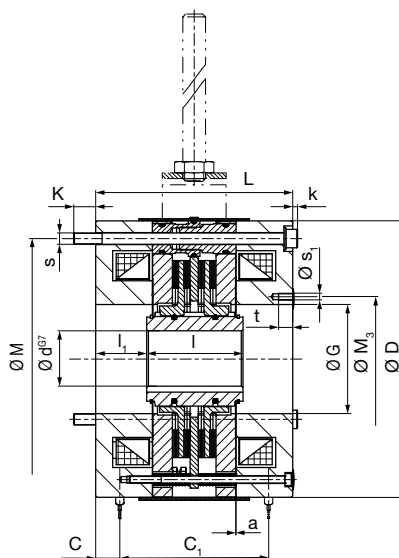
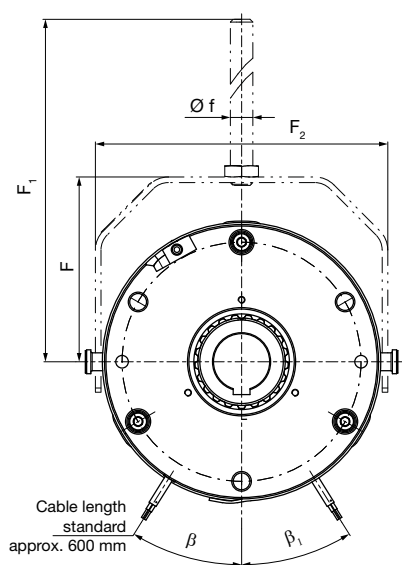
- Low-noise operation
- Compact dimensions
- Maintenance-free
- Certified by TÜV Süd (Southern German Technical Inspectorate) Inspection specification, DIN EN 17206, etc.

Technical Data			Size	8	16	32	64	100	200
Braking torque	maximum	M_N	[Nm]	16	32	64	120	200	365
	reduced		[Nm]	13	28	58	100	180	310
	minimum		[Nm]	10	24	52	80	160	260
Maximum speed ¹⁾		n_{max}	[rpm]	5000	5000	5000	4700	4100	3400
Weight			[kg]	4.55	6.87	10.43	15.28	20.6	30.95
Nominal air gap		a	[mm]	0.5 +0.05	0.5 +0.05	0.5 +0.05	0.5 +0.05	0.5 +0.05	0.5 +0.05
Electrical power	Nominal voltage ²⁾ $U_N = 207\text{ V}$	P_{20}	[W]	2 x 35	2 x 33	2 x 45	2 x 55	2 x 63	2 x 78
	Nominal voltage ²⁾ $U_N = 24\text{ V}$	P_{20}	[W]	2 x 36	2 x 28	2 x 41	2 x 50	2 x 58	2 x 76

1) Percentage reduction of the braking torque dependent on the speed see below table "Graduation of the Nominal Braking Torque".

2) We recommend connection via smoothed DC voltage or using a mayr® bridge rectifier.

Graduation of the Nominal Braking Torque [%]		Size	8	16	32	64	100	200
Percentage reduction of the braking torque dependent on the speed		[%]	100	100	100	100	100	100
	up to speed	[rpm]	2500	2000	1600	2000	1800	1500
		[%]	85	85	85	80	80	80
	up to speed	[rpm]	3600	2800	2400	3000	2500	2200
		[%]	-	-	70	70	70	70
	up to speed	[rpm]	-	-	3400	3200	2800	2400
		[%]	70	70	60	60	60	60
	up to speed	[rpm]	5000	5000	5000	4700	4100	3400



If required, the hand release bracket must be ordered separately in the required quantity.

Dimensions	Size	8	16	32	64	100	200
D ⁷⁾		108	130	153	168	195	223
d ⁸⁾		15	20	25	30	40	45
d _{min}		9	14	15	18	20	25
d _{max}		20 ¹⁾	23 ²⁾	30 ³⁾	34 ⁴⁾	46 ⁵⁾	50 ⁶⁾
F		73	89	98	111	129	149
F ₁		248	263	272	335	353	443
F ₂		120	142	165	180	208	236
f		12	12	12	16	16	16
G		36	45	52	60	77	84
K		10	11	12	12	15.5	17
k		1.2	2.6	1	3.4	3.4	6
L		93.8	102.8	113.2	132.4	139.1	157
I		35	45	55	65	68	80
		Please observe the load on the shaft or key!					
I ₁		29.5	29	29	34	36	38.5
M		90	112	132	145	170	196
M ₃		41	52	61	75	88	100
s		3 x M5	3 x M6	3 x M6	3 x M8	3 x M8	3 x M10
s ₁		3 x M4	3 x M4	3 x M5	3 x M5	3 x M5	3 x M6
t		10	10	10	10	10	10
β [°]		30	30	30	32	32	32
β ₁ [°]		30	30	30	32	32	32
C		12.5	12	16	16	17	21
C ₁		68.8	78.8	81.2	100.4	105.1	115

- 1) Over Ø 17 keyway acc. DIN 6885/3
- 2) Over Ø 22 keyway acc. DIN 6885/3
- 3) Over Ø 29 keyway acc. DIN 6885/3
- 4) Over Ø 32 keyway acc. DIN 6885/3
- 5) Over Ø 44 keyway acc. DIN 6885/3
- 6) Over Ø 48 keyway acc. DIN 6885/3
- 7) Without cover
- 8) Preferred bore

We reserve the right to make dimensional and constructional alterations.

Hand Release Bracket Assembly	
Size	Article number
8	8285166
16	8284390
32	8283754
64	8284452
100	8285272
200	8284513

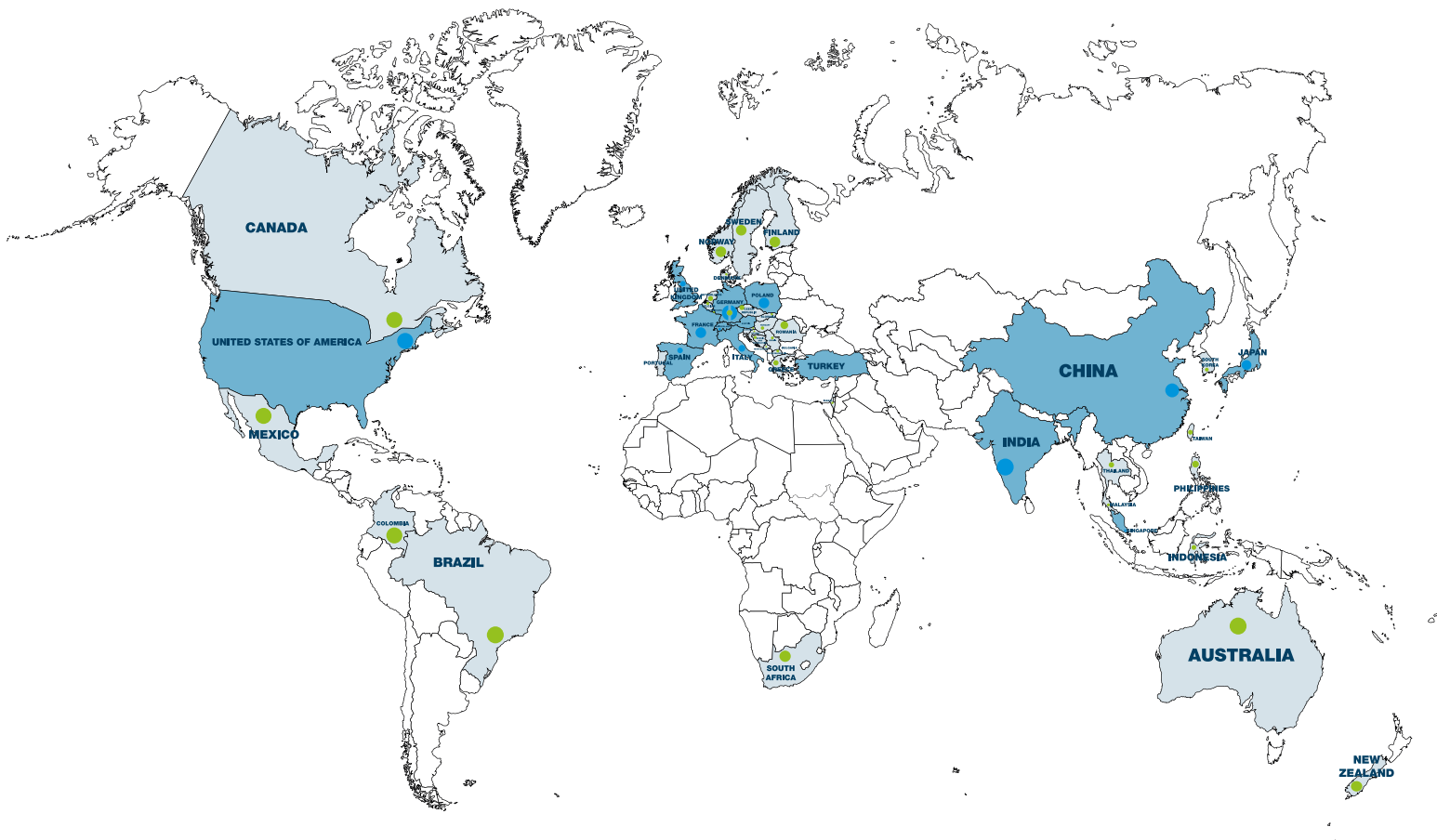
Order number

Braking torque maximum 0 reduced 1 minimum 2										with cover 1			Coil nominal voltage U_N [VDC] 24 207		
										1 with hub					
_ / 8 0 7 0 . _ 1 1 _ 1 / _ / _ / _															
▲															
Size 8 to 200		prepared for hand release ¹⁾ 1													
		with release monitoring ²⁾ 1 with release monitoring ²⁾ and wear monitoring 3													
												Hub bore $\varnothing d^{G7}$			
												Keyway acc. DIN 6885/1 or 6885/3 tolerance JS9			

Example: 32 / 8070.01131 / 207 / 25 / 6885/1

- 1) As standard, prepared for hand release. If required, the hand release bracket must be ordered separately in the required quantity.
- 2) Prerequisite for stage approval

**MANY
LOCATIONS
ONE
QUALITY**



Headquarters



Subsidiaries



Representatives

mayr® power transmission
Eichenstraße 1
87665 Mauerstetten



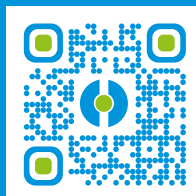
Tel.: +49 (0)8341 804-0



public.mayr@mayr.de



www.mayr.com



ADDITIONAL INFORMATION

For everything you need to know about the ROBA-stop® stage, including downloads and configuration – simply scan the QR code!