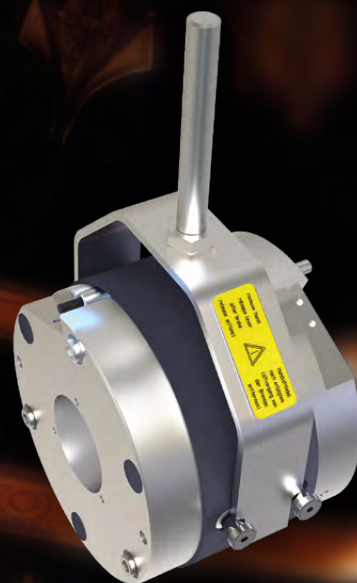




Safe brakes for powerful emotions



ROBA-stop® stage

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

Stage brakes ROBA-stop[®] stage

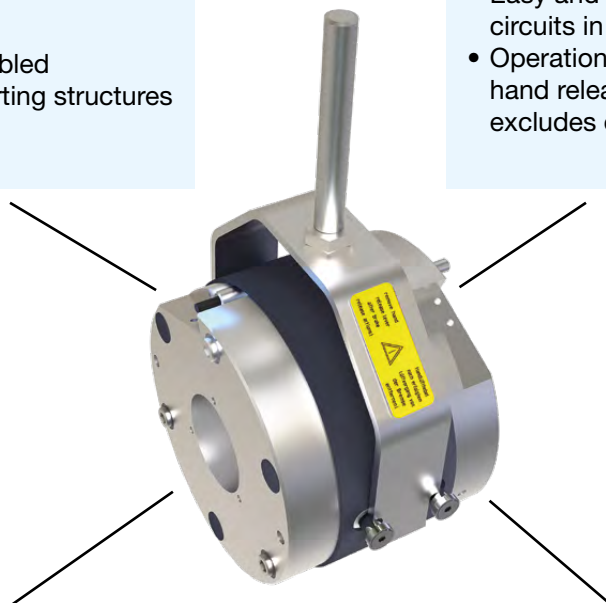
100% Safety – 100% Brake Torque

Double safety, single load

- Two circuits
- 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) (sizes 8–200) Inspection specification, DIN EN 17206, etc.

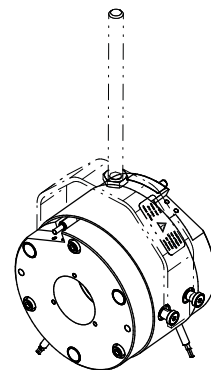
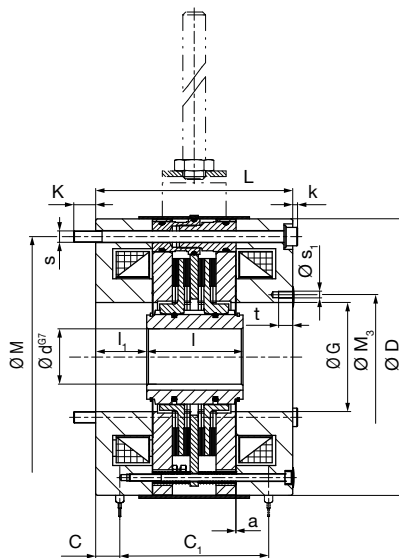
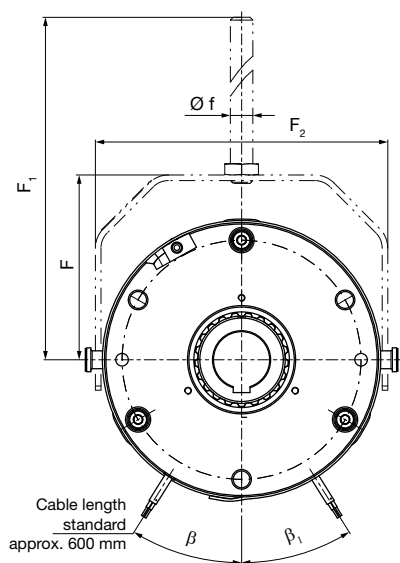
Technical Data			Size	4	8	16	32	64	100	200
Braking torque	maximum	M_N	[Nm]	8	16	32	64	120	200	365
	reduced		[Nm]	6.4	13	28	58	100	180	310
	minimum		[Nm]	4.3	10	24	52	80	160	260
Maximum speed ¹⁾		n_{max}	[rpm]	6000	5000	5000	5000	4700	4100	3400
Weight			[kg]	3.32	4.55	6.87	10.43	15.28	20.6	30.95
Nominal air gap		a	[mm]	0.5 +0.05	0.5 +0.05	0.5 +0.05	0.5 +0.05	0.55 +0.05	0.55 +0.05	0.55 +0.05
Electrical power	Nominal voltage ²⁾ $U_N = 207\text{ V}$	P_{20}	[W]	2 x 24	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 25	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	4	8	16	32	64	100	200
Dynamic braking torque ($M_{dyn-min}$) in the speed range									
$M_{dyn-min} = M_N$	n	[rpm]	0–3000	0–2500	0–2000	0–1600	0–2000	0–1800	0–1500
$M_{dyn-min} = M_N - 15\%$	n	[rpm]	3000–4500	2500–3600	2000–2800	1600–2400	-	-	-
$M_{dyn-min} = M_N - 20\%$	n	[rpm]	-	-	-	-	2000–3000	1800–2500	1500–2200
$M_{dyn-min} = M_N - 30\%$	n	[rpm]	4500–6000	3600–5000	2800–5000	2400–3400	3000–3200	2500–2800	2200–2400
$M_{dyn-min} = M_N - 40\%$	n	[rpm]	-	-	-	3400–5000	3200–4700	2800–4100	2400–3400

Example: Brake type 8070.00000, size 64, speed = 2500 rpm; **Dynamic braking torque** = $M_N - 20\% = 120\text{ Nm} - 20\% = 96\text{ Nm}$



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

Dimensions	Size	4	8	16	32	64	100	200
D⁸⁾		88	108	130	153	168	195	223
d⁹⁾		12	15	20	25	30	40	45
d_{min}		8	9	14	15	18	20	25
d_{max}		15 ¹⁾	20 ²⁾	23 ³⁾	30 ⁴⁾	34 ⁵⁾	46 ⁶⁾	50 ⁷⁾
F		63	73	89	98	111	129	149
F₁		238	248	263	272	335	353	443
F₂		100	120	142	165	180	208	236
f		12	12	12	12	16	16	16
G		29	36	45	52	60	77	84
K		8.95	10	11	12	12	15.5	17
k		2.6	1.2	2.6	1	3.4	3.4	6
L		91	93.8	102.8	113.2	132.4	139.1	157
I		33	35	45	55	65	68	80
Please observe the load on the shaft or key!								
I₁		29	29.5	29	29	34	36	38.5
M		72	90	112	132	145	170	196
M₃		35	41	52	61	75	88	100
s		3 x M4	3 x M5	3 x M6	3 x M6	3 x M8	3 x M8	3 x M10
s₁		3 x M4	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	10
β[°]		35	30	30	30	32	32	32
β₁[°]		35	30	30	30	32	32	32
C		12	12.5	12	16	16	17	21
C₁		67.25	68.8	78.8	81.2	100.4	105.1	115

- 1) Over Ø 13 keyway acc. DIN 6885/3
- 2) Over Ø 17 keyway acc. DIN 6885/3
- 3) Over Ø 22 keyway acc. DIN 6885/3
- 4) Over Ø 29 keyway acc. DIN 6885/3
- 5) Over Ø 32 keyway acc. DIN 6885/3
- 6) Over Ø 44 keyway acc. DIN 6885/3
- 7) Over Ø 48 keyway acc. DIN 6885/3
- 8) Without cover
- 9) Preferred bore

We reserve the right to make dimensional and constructional alterations.

Hand Release Bracket Assembly

Size	Article number
4	8296795
8	8285166
16	8284390
32	8283754
64	8284452
100	8285272
200	8284513

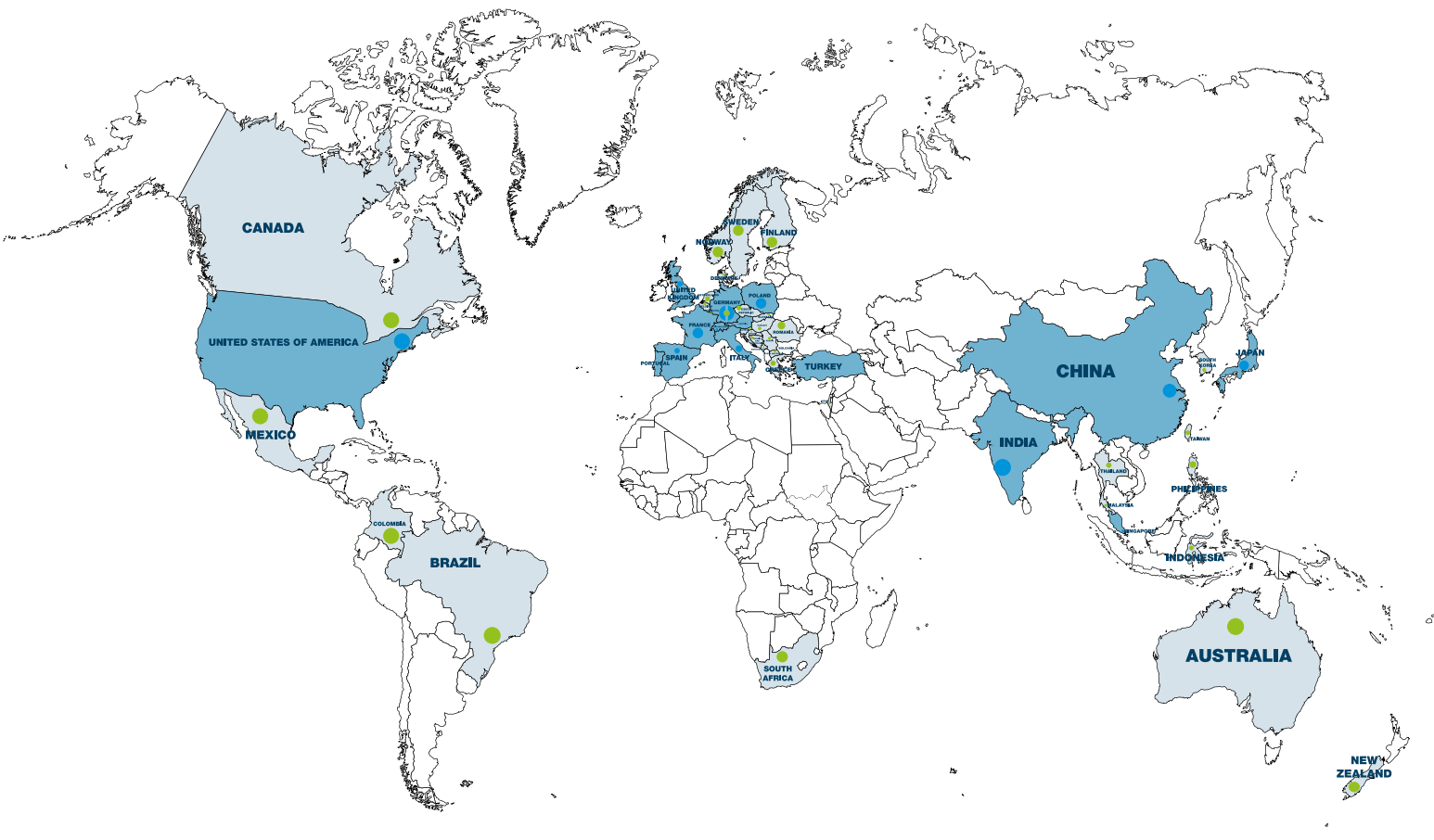
Order number

Braking torque maximum reduced minimum		0 1 2	with cover		1	Coil nominal voltage U _N [VDC] 24 207	
			1	with hub			
Size 4 to 200 prepared for hand release¹⁾ with release monitoring²⁾ and wear monitoring 1 1 3 Hub bore Ø 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



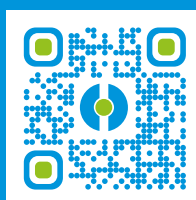
Tel.: +49 (0)8341 804-0



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!