



your reliable partner



EAS[®] reverse

EAS[®] reverse disengaging torque limiter with automatic re-engagement

Type 4100. _0400



EAS[®] reverse with bearing-supported flange for direct mounting of drive elements

Type 4103. _1400



EAS[®] reverse double shaft design with a flexible, positive locking coupling (with switching disk + cover ring)



EAS[®] reverse in housing with standard-conform dimensions

Perfect overload protection for drives which are hard to access

In case of adverse operating and ambient conditions due to dust, contamination, spray water, heat or cold, drive lines are frequently encapsulated and therefore hard to access, especially in the heavy machine industry. In order to protect such drives and machines reliably against overload, mayr[®] power transmission has developed a disengaging torque limiter with the EAS[®] reverse on which all functional processes can be carried out automatically via the drive alone.

In case of overload, a patented disengagement mechanism disconnects the input and output without residual torque. The EAS[®] reverse re-engages automatically in any angular position simply by rotating backwards slowly, without the need for pneumatics or hydraulics – ideal for drives which cannot be accessed for re-engagement.

For installation constellations with several coupled drives, please contact mayr[®] power transmission.

- Residual torque-free disconnection in case of overload
- Automatic re-engagement through reversal of direction of rotation
- Easy handling
- Completely sealed
- Robust double bearing
- Torque steplessly adjustable with scaled adjusting nut
- Extremely low-backlash (<0.05°)
- Hardened functional components
- Housing with standard IEC or NEMA dimensions
- Temperature range from -20 °C to +80 °C
- Optionally available with brake disk
- Optionally available with switching disk + cover ring (dimension F₂)

Order Number

with bearing-supported flange **0**
with flexible coupling **3**
with flexible coupling, insertable **4**

0 without switching disk + cover ring
1 with switching disk + cover ring

Torque adjustment value
[Nm]

__ / 4 1 0 __ . __ __ 4 0 0 / __ / __ / __

Size

Torque range ¹⁾

3

low

4

to

medium

5

6

high

6

very high

7

Hub 1 bore

Ø d^{H7}

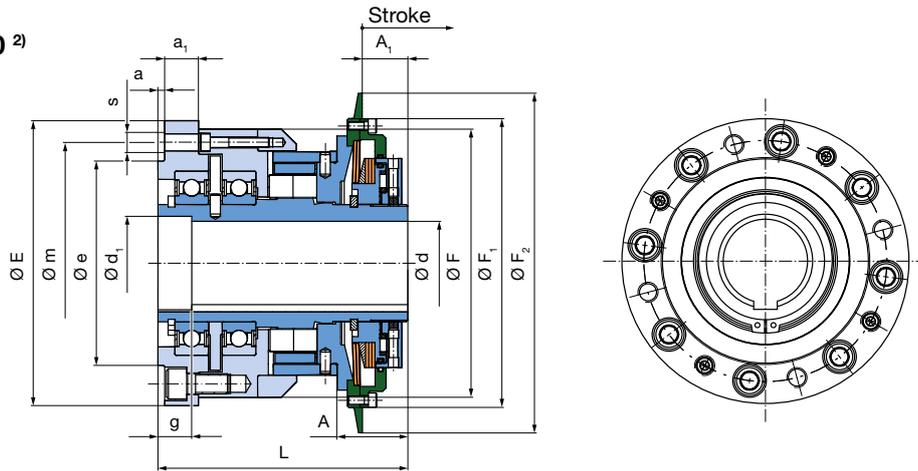
Hub 2 bore

Ø d₂^{H7}

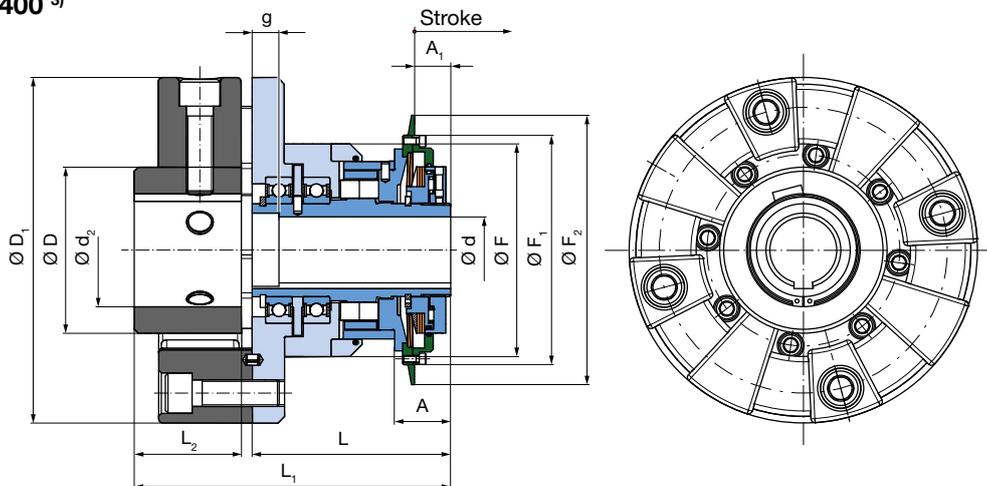
Example: Order number 4 / 4103.50400 / 30 / 60 / 450 Nm

1) See Technical data, limit torque for overload M_G, other torques on request

EAS® reverse
Type 4100. _0400 ²⁾



EAS® reverse
Type 4103. _0400 ³⁾



Technical Data			Size			
			3	4	5	6
Limit torques for overload ¹⁾	Type 410_4_400	M _G [Nm]	75 - 150	125 - 250	250 - 500	500 - 1000
	Type 410_5_400	M _G [Nm]	150 - 300	250 - 500	500 - 1000	1000 - 2000
	Type 410_6_400	M _G [Nm]	300 - 600	500 - 1000	1000 - 2000	2000 - 4000
	Type 410_7_400	M _G [Nm]	375 - 750	625 - 1250	1250 - 2500	3000 - 6000
Max. speed	n _{max}	[rpm]	3600	2000	2000	2000
Control element stroke on overload		[mm]	3	4	5	6

Dimensions [mm]	Size			
	3	4	5	6
A	36	42	49	70
A ₁	24	27	31	49
a	3	4	4	6
a ₁	18	20	23	24
D	100	125	145	170
D ₁	200	260	300	370
d ₁	46 ^{+0.2}	56 ^{+0.2}	82 ^{+0.2}	110 ^{+0.2}
E	152	170	222	280
e	95	122	155	210
F	145	160	215	270
F ₁	150	173	212	245
F ₂	182	203	279	305
g	16	20	20	25
L	128	148	170	218
L ₁	202	236	272	355
L ₂	66	80	94	125

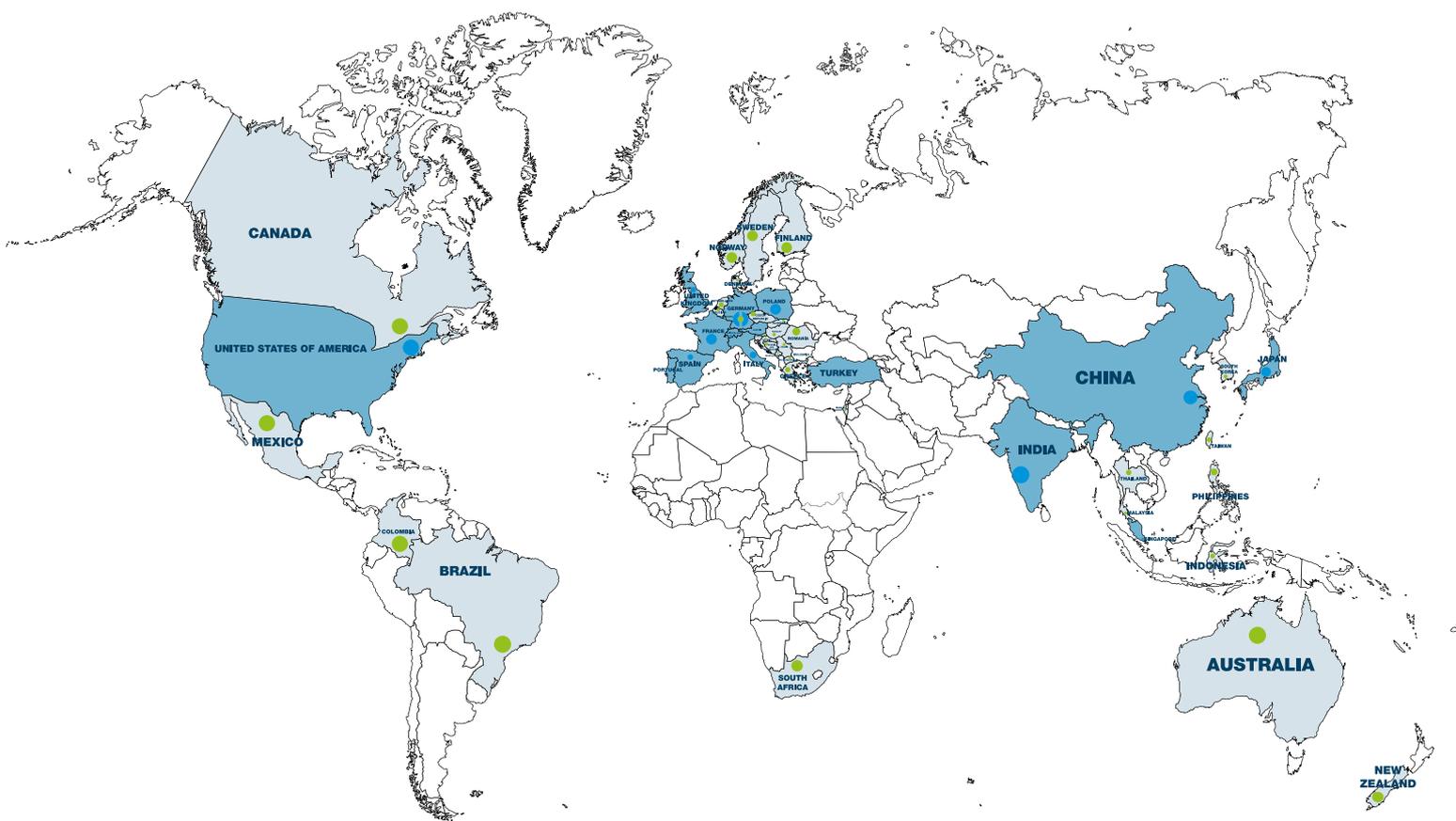
Dimensions [mm]	Size			
	3	4	5	6
m	114	144	184	252
s	7xM10	8xM12	8xM16	14xM16

Bores [mm]		Size			
		3	4	5	6
d ^{H7}	d _{min}	17	20	30	40
	d _{max}	40	50	75	100
d ₂ ^{H7}	d _{2 min}	20	30	40	50
	d _{2 max}	65	85	105	120

- 2) The position of the keyway to the mounting bore "s" in the pressure flange is not defined (defined position possible on request)
3) The position of the keyway to each other is not defined (defined position possible on request)

We reserve the right to make dimensional and constructional alterations.

MANY LOCATIONS ONE QUALITY



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ADDITIONAL INFORMATION

For everything you need to know about the EAS[®] reverse, including downloads and configuration – simply scan the QR code!