

**EAS<sup>®</sup>-reverse**

# EAS<sup>®</sup>-reverse disengaging torque limiting clutch with automatic re-engagement

Type 4100. \_0400



EAS<sup>®</sup>-reverse with bearing-supported flange for direct mounting of drive elements

Type 4103. \_0400



EAS<sup>®</sup>-reverse double shaft design with a flexible, positive locking coupling



EAS<sup>®</sup>-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*<sup>®</sup> power transmission has developed a disengaging torque limiter with the EAS<sup>®</sup>-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. This permits long run-out times. The EAS<sup>®</sup>-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.

- Residual torque-free disconnection in case of overload
- Automatic re-engagement through reversal of direction of rotation
- Easy handling
- Completely sealed
- Robust double bearing
- Steplessly adjustable torque
- Extremely low-backlash (< 0.05°)
- Hardened functional components
- Housing with standard IEC or NEMA dimensions
- Temperature range from -30 °C to +80 °C
- Optionally available with brake disk
- Optionally available with switching disk (dimension F<sub>2</sub>)

### Order Number

with bearing-supported flange    **0**  
with flexible coupling                **3**

**Torque adjustment value**  
[Nm]

\_\_ / 4 1 0 \_\_ . \_\_ 0 4 0 0 / \_\_ / \_\_ / \_\_

<b>Sizes</b>	<b>Torque range <sup>1)</sup></b>	
<b>3</b>	low	<b>4</b>
<b>to</b>	medium	<b>5</b>
<b>6</b>	high	<b>6</b>
	very high	<b>7</b>

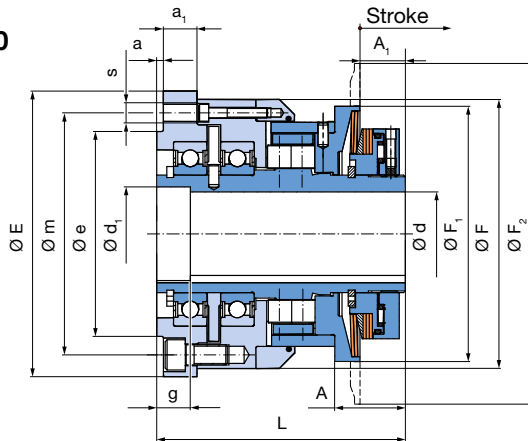
**Hub 1 bore**  
Ø d<sup>H7</sup>

**Hub 2 bore**  
Ø d<sub>2</sub>

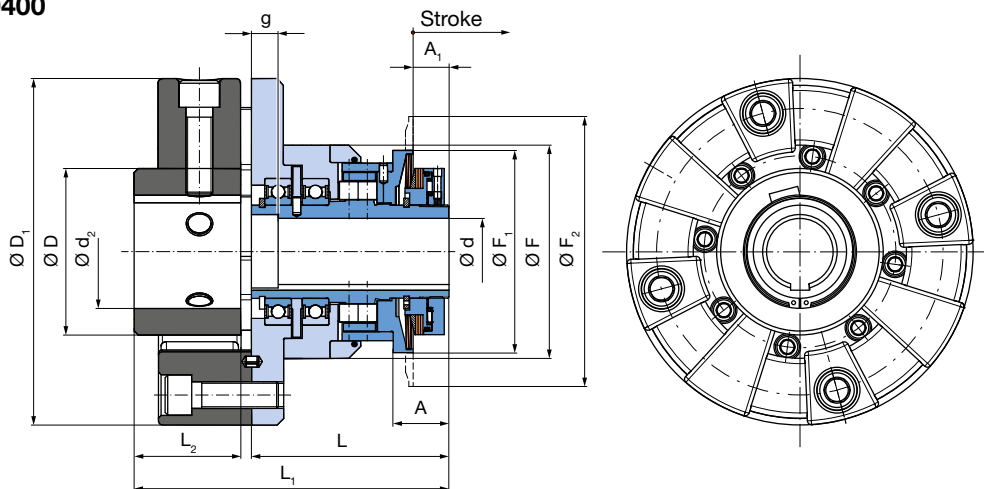
**Example: Order number 4 / 4103.50400 / 30 / 60 / 450 Nm**

1) See Technical data, limit torque for overload M<sub>G</sub>, other torques on request

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Technical Data			Size			
			3	4	5	6
Limit torques for overload <sup>1)</sup>	Type 410_40400	M <sub>G</sub> [Nm]	75 - 150	125 - 250	250 - 500	500 - 1000
	Type 410_50400	M <sub>G</sub> [Nm]	150 - 300	250 - 500	500 - 1000	1000 - 2000
	Type 410_60400	M <sub>G</sub> [Nm]	300 - 600	500 - 1000	1000 - 2000	2000 - 4000
	Type 410_70400	M <sub>G</sub> [Nm]	375 - 750	625 - 1250	1250 - 2500	3000 - 6000
Max. speed	n <sub>max</sub>	[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 <sub>1</sub>	24	27	31	49
a	3	4	4	6
a <sub>1</sub>	18	20	23	24
D	100	125	145	170
D <sub>1</sub>	200	260	300	370
d <sub>1</sub>	46 <sup>+0.2</sup>	56 <sup>+0.2</sup>	82 <sup>+0.2</sup>	110 <sup>+0.2</sup>
E	152	170	222	280
e	114	122	155	210
F	145	160	215	270
F <sub>1</sub>	135	152	194	245
g	16	20	20	25
L	128	148	170	218
L <sub>1</sub>	202	236	272	355
L <sub>2</sub>	66	80	94	125
F <sub>2</sub>	184	203	279	305

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 <sup>H7</sup>	d <sub>min</sub>	17	20	30	40
	d <sub>max</sub>	40	50	75	100
d <sub>2</sub> <sup>H7</sup>	d <sub>2 min</sub>	20	30	40	50
	d <sub>2 max</sub>	65	85	105	120