

# ROBA<sup>®</sup>-Co-Pro<sup>®</sup>

Compact and high-performance device  
Modern construction overload protection



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- *Large shaft diameters*
- *Extremely high torques*
- *Small outer dimensions*

P.1000.V03.GB

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your reliable partner

# ROBA®-Co-Pro®

*small torque limiting clutch  
for great constructions*

**ROBA®-Co-Pro®**

**35 % savings on  
installation space and  
axis-centre distance \***

\* Chain drive with ratio: 1:2,  
overload torque: 400 Nm  
and shaft diameter: 30 mm

## Application advantages

- minimum installation space requirements
- no machine downtimes, no expensive repairs
- compact, cost-effective machine construction
- high dynamics in the drive system due to low weight and low mass moments of inertia
- saves costs due to small drive components (e. g. sprocket wheels and chains)
- functionally reliable due to ultra-strong bearing bushings and high-strength friction linings
- simple and fast friction lining replacement



<b>6 : 1</b>		<b>ROBA®-Co-Pro®</b>	6
the clear winner in performance comparisons			5
			4
	Quality clutch		3
			2
Normal clutch			1



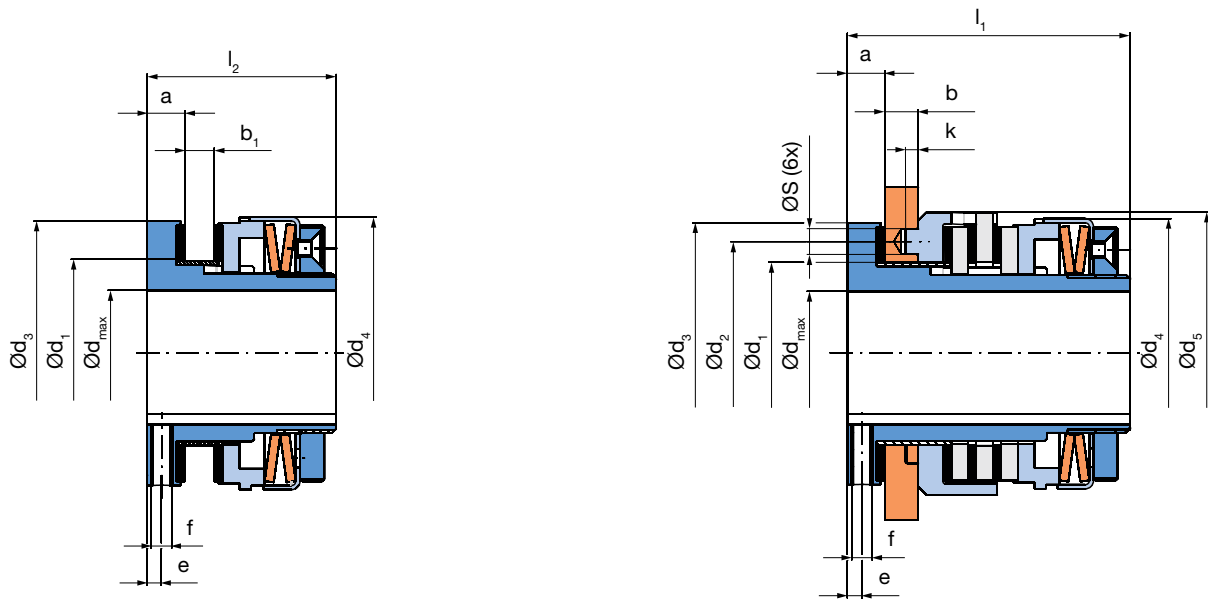
## ROBA®-Co-Pro®

- saves energy and raw materials: up to 65 % savings on material.
- saves drive energy: up to 80 % less mass moment of inertia.

Up to 6 times higher performance density (Nm/cm<sup>3</sup>) than other load-holding torque limiting clutches.

Design M  
Type 1000.\_1000

Design L  
Type 1010.\_1000



Size	Limit torque for overload				Weight		Pilot bore Ød [mm]
	Type M		Type L		1000.- [kg]	1010.- [kg]	
	1000.11000 [Nm]	1000.21000 [Nm]	1010.11000 [Nm]	1010.21000 [Nm]			
30	50 – 100	100 – 200	100 – 200	200 – 400	0,6	1,4	15
40	100 – 200	200 – 400	200 – 400	400 – 800	1,5	2,3	20
50	200 – 400	400 – 800	400 – 800	800 – 1600	2,8	4,3	25

Size	Ø d <sub>max</sub>	Ø d <sub>1</sub>	Ø d <sub>2</sub>	Ø d <sub>3</sub>	Ø d <sub>4</sub>	Ø d <sub>5</sub>	a	b <sub>min</sub>	b <sub>max</sub>	b <sub>1 min</sub>	b <sub>1 max</sub>
30	30 <sup>H7/1)</sup>	44	54	63	65	68	9	8	16	7	11
40	40	64	75	85	87	90	11	8	16	15	19
50	50	80	94	108	110	113	13	12	20	19	25

Size	e	f	l <sub>1</sub>	l <sub>2</sub>	k	Ø S
30	3,5	M5	68	45	3	6
40	3,5	M5	80	60	3	6
50	5	M6	95	75	3	10

Order Number

—	/	1	0	—	0	.	—	1	0	0	0	/	—
▲				▲			▲						▲
Size 30 40 50		Design M Design L	0 1		1 2	low torque range high torque range							Drive element width in mm

Example: 30 / 1010.21000 / 10

<sup>1)</sup> Keyway according to DIN 6885 / 3

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