BoWex® type M, type I and type M...C

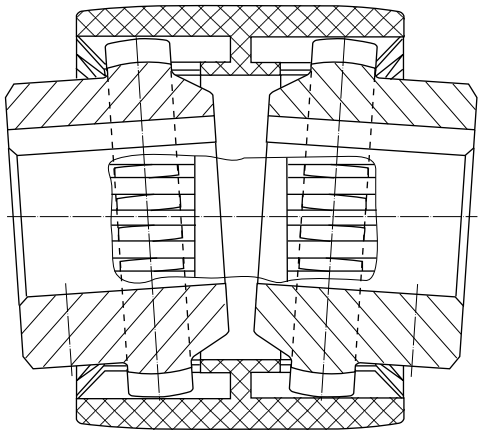
Torsionally rigid shaft coupling

Offsets misalignments. Maintenance-free. Worry-free.

Boasting many years of success and constant refinement, BoWex® is synonymous with maintenance-free, torsionally rigid shaft couplings all over the world. BoWex® is especially suitable for offsetting axial, radial and angular shaft misalignments. The curved-tooth design prevents chamfer pressure on the toothing in case of angular and radial misalignments, enabling virtually wear-free application of BoWex® couplings.

Features

- Reliable offsets axial, radial and angular misalignments
- Tribological pairing of steel and polyamide eliminates need for lubrication and maintenance
- Polyamide has great mechanical strength and rigidity and thermal resistance
- Available in rust-free and ATEX versions
- Torque up to 2,500 Nm
- Wide range of variants – can also be combined with torque limiters



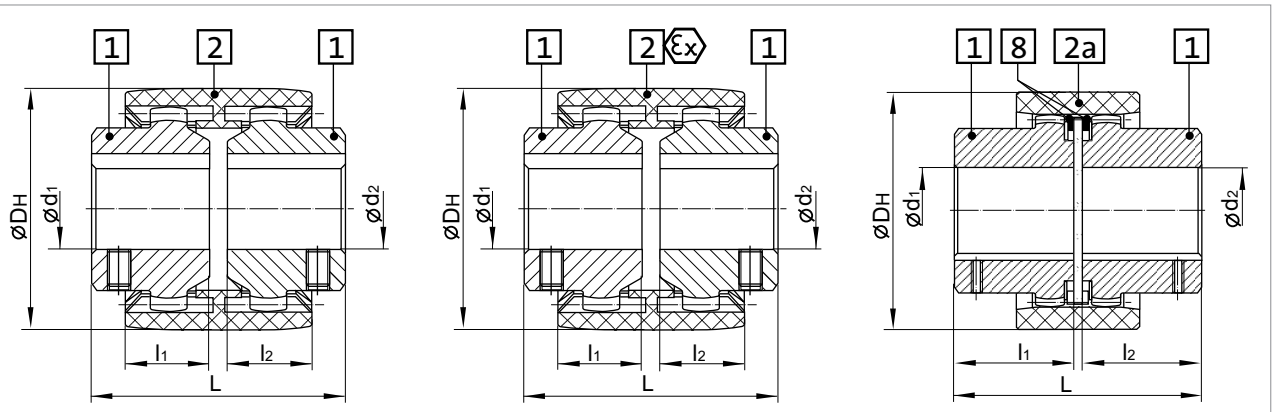
Lenze SELECTION

BoWex®

Torsionally rigid shaft coupling

Structure/function

BoWex® curved-tooth couplings® are shaft couplings for positive-fit torque transmission and particularly suitable for offsetting axial, radial and angular misalignments. The double cardan design of BoWex® reduces reset forces in the shaft train. The curved-tooth design prevents chamfer pressure on the toothing in case of angular and radial misalignments, enabling virtually wear-free application of the BoWex® coupling. The material pairing of steel and polyamide enables maintenance-free operation with extremely good friction factors. Can be mounted vertically or horizontally without a special mounting tool.



Design M | Type M...C εx | Type I

1 ... Hub with slot and locking thread
2/2a ... Polyamide sleeve
8 ... Circlip

Technical specifications and dimensions of BoWex®

Type/size		Finished bores min/max	Torque [Nm]			Max. speed	Dimensions [mm]		
		[mm]	T_{KN}	T_{Kmax}	T_{KW}	[rpm]	DH	L	l_1 / l_2
		d_1 / d_2	M / M / C / I	M / M / C / I	M / M / C / I				
M - 14	**M - 14C**	VG ... 15	10 / 15 / -	30 / 45 / -	5 / 7.5 / -	14,000	40	50	23
M - 19	**M - 19C**	VG ... 20	16 / 24 / -	48 / 72 / -	8 / 12 / -	11,800	47	54	25
M - 24	**M - 24C**	VG ... 24	20 /30 / -	60 / 90 /	10 / 15 / -	10,600	53	56	26
M - 28	**M - 28C**	VG ... 28	45 / 70 / -	135 / 210 / -	23 / 35 / -	8,500	65	84	40
M - 32	**M - 32C**	VG ... 32	60 / 90 / -	180 / 270 / -	30 / 45 / -	7,500	75	84	40
M - 38	**M - 38C**	VG ... 38	80 / 120 / -	240 / 360 / -	40 / 60 / -	6,700	83	84	40
M - 42		VG ... 42	100 / - / -	300 / - / -	50 / - / -	6,000	92	88	42
M - 48	**M - 48C**	VG ... 48	140 / 200 / -	420 / 600 / -	70 / 100 / -	5,600	95	104	50
M - 65	**M - 65C**	21 ... 65	380 / 560 / -	1,140 / 1,680 / -	190 / 280 / -	4,000	132	114	55
I - 80		31 ... 80	- / - / 700	- / - / 2,100	- / - / 350	3,150	178	186	90
I - 100		38 ... 100	- / - / 1,200	- / - / 3,600	- / - / 600	3,000	210	228	110
I - 125		45 ... 125	- / - / 2,500	- / - / 7,500	- / - / 1,250	2,120	270	290	140

VG ... Prebored
T_{KN} ... Rated torque
T_{Kmax} ... Maximum torque
T_{KW} ... Alternating torque

We would be happy to help and advise you with your individual dimensioning requirements.