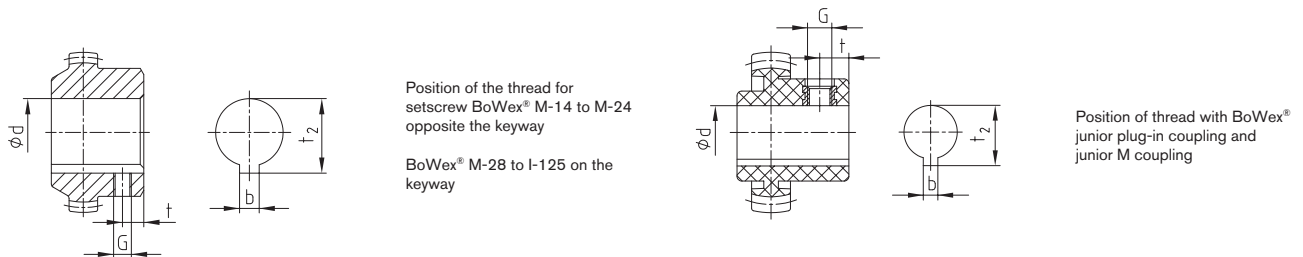


Technical data

Power, torque and speed					
Type and size		Torque [Nm]			Max. speed [rpm]
		T _{KN}	T _{K max.}	T _{KW}	
Type plug-in coupling/ junior M	junior 14 / M-14	5	10	2.5	6000
	junior 19 / M-19	8	16	4	
	junior 24 / M-24	12	24	6	
Type M I AS Spec.-I SG SSR	14	10	30	5	14000
	19	16	48	8	11800
	24	20	60	10	10600
	28	45	135	23	8500
	32	60	180	30	7500
	38	80	240	40	6700
	42	100	300	50	6000
	45 / 48	140	420	70	5600
	65	380	1140	190	4000
	80	700	2100	350	3150
	100	1200	3600	600	3000
	125	2500	7500	1250	2120
Type M...C GT	14	15	45	7.5	14000
	19	24	72	12	11800
	24	30	90	15	10600
	28	70	210	35	8500
	32	90	270	45	7500
	38	120	360	60	6700
	48	200	600	100	5600
	65	560	1680	280	4000
	80	1000	3000	500	3150

Setscrews

Thread dimensions for setscrews, BoWex® coupling hubs with cylindrical bore.

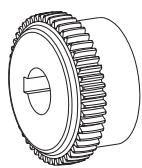


BoWex® coupling hubs							
Size Dimensions	14 19 24	28 32 38	42 45 48	65	80	100	125
Thread G	M5	M8	M10	M10	M12	M16	
Distance t	6	10	15 ¹⁾ 20	20	30	40	
Tightening torque T _A [Nm]	2	10	17	17	40	80	

BoWex® junior coupling hubs			
Size Dimensions	14	19	24
Thread G	M5	M5	M5
Hub 1b - Distance t	6	6	6
Plug-in sleeve 2b - Distance t	8	10	10
Tightening torque T _A [Nm]	1.4	1.4	1.4

¹⁾ Length of hub 55 mm t = 15 mm, 70 mm t = 20 mm

Types of hubs



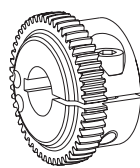
**Type 1.0 hub
with feather keyway and setscrew**

Positive-locking power transmission, permissible torque depending on the permissible surface pressure. Not suitable for backlash-free power transmission with heavily reversing operation.

**Type 1.1 hub
without feather keyway, with setscrew**

Non-positive torque transmission for crimp connections and adhesive bonds. (No ATEX approval)

**Type 1.3 hub
with spline bore (see page 101)**



**Type 2.0 clamping hub
single slot without feather keyway**

Frictionally engaged, backlash-free shaft-hub-connection. Transmittable torques depending on bore diameter.

**Type 2.1 clamping hub
single slot with feather keyway**

Positive-locking power transmission with additional friction fit. The friction fit avoids resp. reduces reverse backlash. Surface pressure of the feather key connection is reduced.

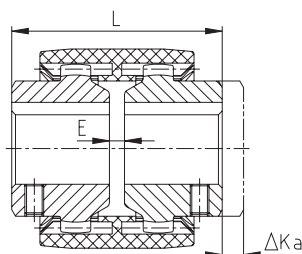
**Type 2.3 clamping hub
with spline bore (see page 101)**

Other hub types on request.

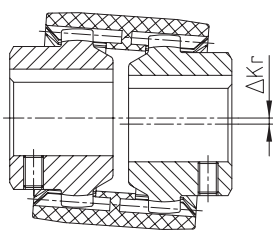
Displacements

BoWex® couplings are double-cardanic compensating for axial, radial and angular shaft displacements in addition to transmitting the power so that damage on the driving or driven machine is prevented.

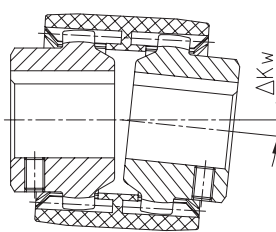
Axial displacement



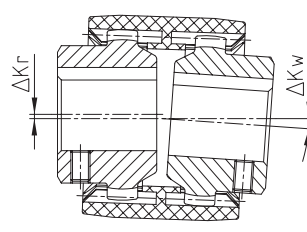
Radial displacement



Angular displacement



Radial and angular displacement



Displacements – type junior couplings

BoWex® size	Type junior plug-in coupling			Type junior M		
	14	19	24	14	19	24
Max. axial displacement ΔK_a [mm]	± 1	± 1	± 1	± 1	± 1	± 1
Max. radial displacement with $n=1500$ rpm ΔK_r [mm]	± 0.1	± 0.1	± 0.1	± 0.3	± 0.3	± 0.4
Max. radial displacement with $n=3000$ rpm ΔK_r [mm]	± 0.1	± 0.1	± 0.1	± 0.3	± 0.3	± 0.4
Max. angular displacement with $n=1500$ rpm ΔK_w [degree]	± 1.0	± 1.0	± 0.9	± 1.0	± 1.0	± 0.9
Max. angular displacement with $n=3000$ rpm ΔK_w [degree]	± 0.7	± 0.7	± 0.6	± 0.7	± 0.7	± 0.6

Displacements – type M, M.C, I, AS, Spec.-I, SG and SSR

BoWex® size	14	19	24	28	32	38	42	48	65	80	100	125
Max. axial displacement ΔK_a [mm]	± 1	± 1	± 1	± 1	± 1	± 1	± 1	± 1	± 1	± 1	± 1	± 1
Max. radial displacement with $n=1500$ rpm ΔK_r [mm]	± 0.30	± 0.30	± 0.35	± 0.35	± 0.35	± 0.40	± 0.40	± 0.40	± 0.45	± 0.45	± 0.45	± 0.45
Max. radial displacement with $n=3000$ rpm ΔK_r [mm]	± 0.20	± 0.20	± 0.23	± 0.23	± 0.23	± 0.25	± 0.25	± 0.25	± 0.28	± 0.28	± 0.28	± 0.28
Max. angular displacement with $n=1500$ rpm ΔK_w [degree]	± 1.0	± 1.0	± 0.9	± 0.9	± 0.9	± 0.9	± 0.9	± 0.9	± 0.7	± 0.6	± 0.6	± 0.4
Max. angular displacement with $n=3000$ rpm ΔK_w [degree]	± 0.7	± 0.7	± 0.6	± 0.6	± 0.6	± 0.6	± 0.6	± 0.6	± 0.5	± 0.4	± 0.4	± 0.3

Displacements – type GT

Displacements – type HEW Compact

BoWex® size	Displacements – type GT				Displacements – type HEW Compact											
	28	38	48	65	42-130			65-180			80-225			100-305		
Elastomer hardness [Shore A]					T50	T65	T70	T50	T65	T70	T50	T65	T70	T50	T65	T70
Max. axial displacement ΔK_a [mm]	± 1	± 1	± 1	± 1	± 2			± 2			± 2			± 2		
Max. radial displacement with $n=1500$ rpm ΔK_r [mm]	± 1	± 1	± 1.4	± 1.4	± 1.1	± 1	± 0.5	± 1.6	± 1.5	± 0.7	± 1.8	± 1.7	± 0.8	± 2.2	± 2	± 1
Max. radial displacement with $n=3000$ rpm ΔK_r [mm]	± 0.6	± 0.6	± 1	± 1	± 0.55	± 0.5	± 0.25	± 0.8	± 0.75	± 0.35	± 0.9	± 0.85	± 0.9	± 1.1	± 1	± 0.5
Max. angular displacement with $n=1500$ rpm ΔK_w [degree]	± 1	± 1	± 0.9	± 0.9	± 1	± 0.75	± 0.5	± 1	± 0.75	± 0.5	± 1	± 0.75	± 0.4	± 1	± 0.75	± 0.5
Max. angular displacement with $n=3000$ rpm ΔK_w [degree]	± 0.7	± 0.7	± 0.6	± 0.6	± 0.5	± 0.4	± 0.25	± 0.5	± 0.4	± 0.25	± 0.5	± 0.4	± 0.5	± 0.5	± 0.25	± 0.25

The permissible displacement figures of the BoWex® couplings specified are general standard values taking into account the load of the coupling up to the rated torque T_{KN} of the coupling. With different operating conditions please order our data sheet for displacements of BoWex® KTR-N 20140. The displacement figures may only be used one by one, if they appear simultaneously, they must be limited in proportion. Care should be taken to maintain the distance dimension E accurately in order to allow for axial clearance of the coupling while in operation. Detailed mounting instructions are shown on our homepage www.ktr.com.

BoWex® Curved-tooth gear coupling®

For cylindrical bores, taper/inch bores see selection of standard IEC motors

Stock programme of cylindrical finish bores [mm] H7 feather keyway acc. to DIN 6885 sheet 1 [JS9] and setscrew																														
BoWex® Size	un/pilot bored	Ø8	Ø10	Ø11	Ø12	Ø14	Ø15	Ø16	Ø17	Ø18	Ø19	Ø20	Ø22	Ø24	Ø25	Ø28	Ø30	Ø32	Ø35	Ø38	Ø40	Ø42	Ø45	Ø48	Ø50	Ø55	Ø60	Ø65	Ø70	Ø75
14	●■	●	●	●	●	●	●																							
19	●■		●	●	●	●	●	●	●	●	●■	●																		
24	●■		●	●	●	●■	●	●	●	●	●■	●■	●	●■	●															
28	●■				●	●	●	●	●	●	●	●	●	●	●	●■														
32	●■							●		●	●	●	●	●	●	●	●	●												
38	●■						●			●	●	●	●	●	●	●	●	●	●	●■										
42	●■									●	●	●	●	●	●	●	●	●	●	●	●	●								
48	●■											●			●	●	●	●	●	●	●	●	●■	●■						
65	●■																●■	●	●■	●	●■	●■	●■	●■	●■	●■	●■	●■		
80	●																						●		●	●	●	●	●	●

● Standard length

■ Standard lengthened

Taper and inch bores																			
	Taper 1:5					Taper 1:8					Inch bores								
Code d +0.05 b JS9 t +0.2	A-10 9.85 2	B-17 16.85 3	C-20 19.85 4	D-25 24.85 5	E-30 29.85 6	N/1 9.7 2.4	N1d 14 3	N/2 17.28 3.2	N/2a 17.28 4	N/3 22 3.99	Ta 12.7 3.17 14.3	DNC 13.45 3.17 14.9	Ed 15.87 4.75 18.1	A 19.05 4.78 21.3	G 22.22 4.75 24.7	F 22.22 6.38 25.2	Bs 25.38 6.37 28.3	Hs 25.4 6.35 28.7	K 31.75 7.93 35.4
14	●					●							●						
19		●				●							●						
24	●	●				●		●	●		●			●	●				
28	●	●				●	●	●	●	●				●					
32		●																●	
38		●						●	●					●					
42		●		●				●	●	●				●		●	●		
48																			
65																			●

Other dimensions on request.

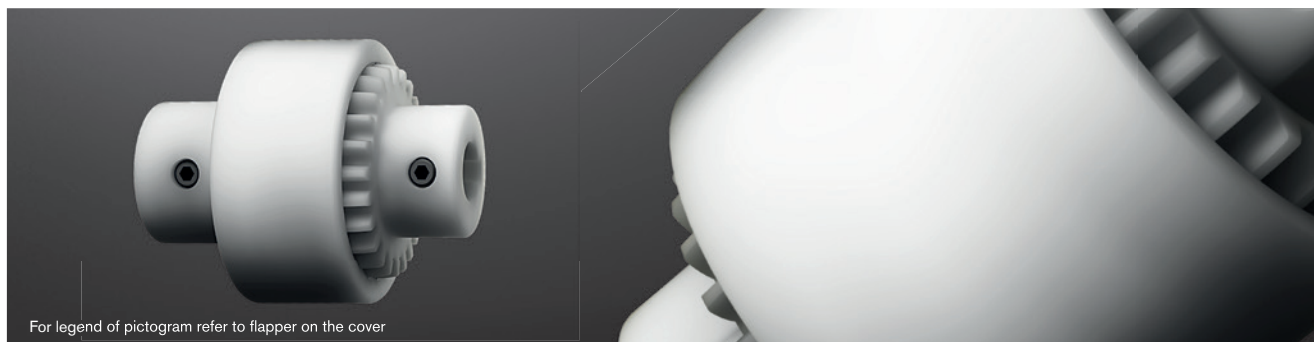
● Standard length

BoWex® couplings for standard IEC motors, protection class IP 54/IP 55										
A. C. motor Size	Engine power with 50 Hz n = 3000 [rpm]			Engine power with 50 Hz n = 1500 [rpm]			Engine power with 50 Hz n = 1000 [rpm]			Cylindrical shaft ends d x l [mm] 3000 ≤ 1500
	kW	T [Nm]	BoWex® coupling	kW	T [Nm]	BoWex® coupling	kW	T [Nm]	BoWex® coupling	
56	0.09	0.32		0.06	0.43		0.037	0.43		9 x 20
	0.12	0.41		0.09	0.64		0.045	0.52		
63	0.18	0.62	14	0.12	0.88	14	0.06	0.72	14	11 x 23
	0.25	0.86		0.18	1.3		0.09	1.1		
71	0.37	1.3		0.25	1.8		0.18	2.0		14 x 30
	0.55	1.9		0.37	2.5		0.25	2.7		
80	0.75	2.5	19	0.55	3.7	19	0.37	3.9	19	19 x 40
	1.1	3.7		0.75	5.1		0.55	5.8		
90 S	1.5	5.0	24	1.1	7.5	24	0.75	8.0	24	24 x 50
90 L	2.2	7.4		1.5	10		1.1	12		
100 L	3	9.8	28	2.2	15	28	1.5	15	28	28 x 60
112 M	4	13		3	20		2.2	22		
132 S	5.5	18	38	4	27	38	3	30	38	38 x 80
	7.5	25		5.5	36		4	40		
132 M				7.5	49		5.5	55		
160 M	11	36	42	11	72	42	7.5	75	42	42 x 110
160 L	15	49		15	98					
180 M	18.5	60	48	18.5	121	48	11	108	48	48 x 110
180 L	22	71		22	144		15	148		
200 L	30	97		30	196		18.5	181		55 x 110
225 S	37	120		37	240		22	215		
225 M	45	145	65	45	292	65	30	293	65	55 x 110
250 M	55	177		55	356		37	361		60 x 140
280 S	75	241	80	75	484	80	45	438	80	65 x 140
280 M	90	289		90	581		55	535		75 x 140
315 S	110	353	80	110	707	80	75	727	80	
315 M	132	423		132	849		90	873		
315 L	160	513	80	160	1030	100	110	1070	100	80 x 170
	200	641		200	1290		132	1280		
315			100			125	160	1550	125	85 x 170
	250	801		250	1610		200	1930		
355	315	1010	125	315	2020		250	2420		
	355	1140		355	2280					
	400	1280		400	2560		315	3040	-	75 x 140
										95 x 170

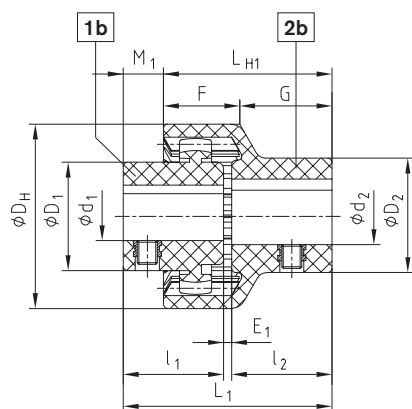
Torque T ^Δ = rated torque according to Siemens catalogue.

BoWex® junior and junior M Curved-tooth gear coupling®

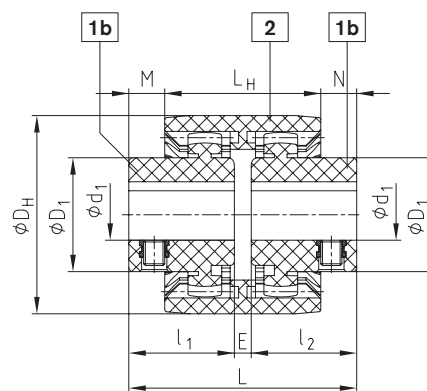
Plug-in coupling made of nylon (two-part and three-part)



Components



Type junior plug-in coupling (two-part)



Type junior M coupling (three-part)

BoWex® junior plug-in coupling (two-part) and BoWex® junior M (three-part)																			
Size	Torque [Nm]		Finish bore				Dimensions [mm]												Max. speed [rpm]
			Hub Component 1b ¹⁾		Plug-in sleeve Component 2b ¹⁾		DH	l ₁ , l ₂	E ₁	L ₁	L _{H1}	M ₁	F	G	E	L	L _H	M, N	
	T _{KN}	T _{K max.}	d ₁ ¹⁾	D ₁	d ₂ ¹⁾	D ₂													
14	5	10	Ø6, Ø7, Ø8, Ø9	22	Ø6, Ø7, Ø8	22	40	23	2	48	40	8	18.5	21.5	4	50	37	6.5	6000
M-14			Ø10, Ø11	25	Ø10, Ø11	25													
			Ø12, Ø14	26	Ø12, Ø14	26													
19	8	16	Ø10, Ø11, Ø12, Ø14	27	Ø12, Ø14,	29	47	25	2	52	42	10	19.0	23.0	4	54	37	8.5	6000
M-19			Ø15, Ø16	30	Ø15, Ø16	30													
			Ø19	32	Ø19	35													
	12	24	Ø10, Ø11, Ø12	26	Ø14, Ø16	32	53	26	2	54	45	9	21.5	23.5	4	56	41	7.5	6000
24			Ø14, Ø15, Ø16	32															
M-24			Ø18, Ø19, Ø20	36	Ø19, Ø20	36													
			Ø24	38	Ø24	40													

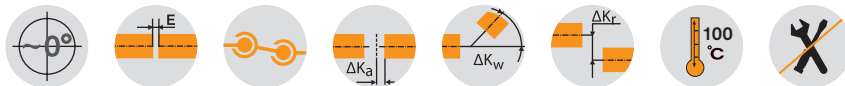
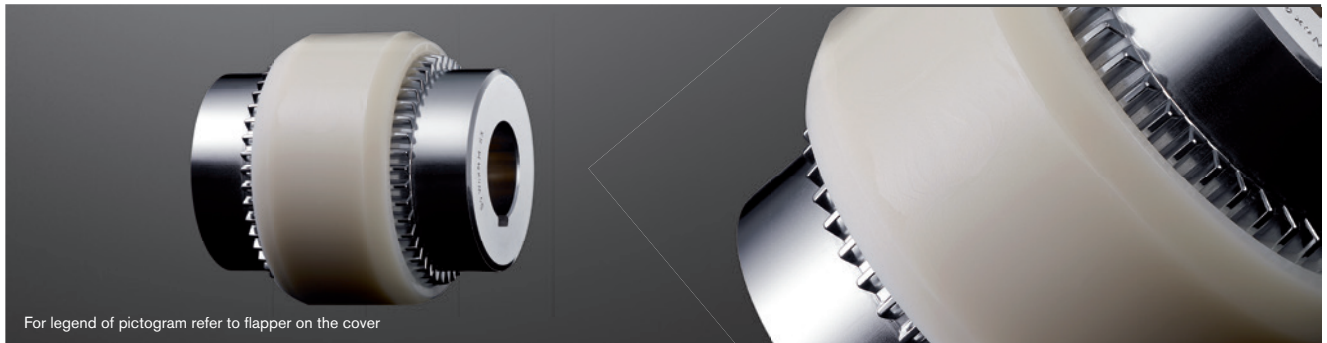
¹⁾ Finish bores with tolerance +0.05/-0.1; feather keyway ±0.08

Ordering example:

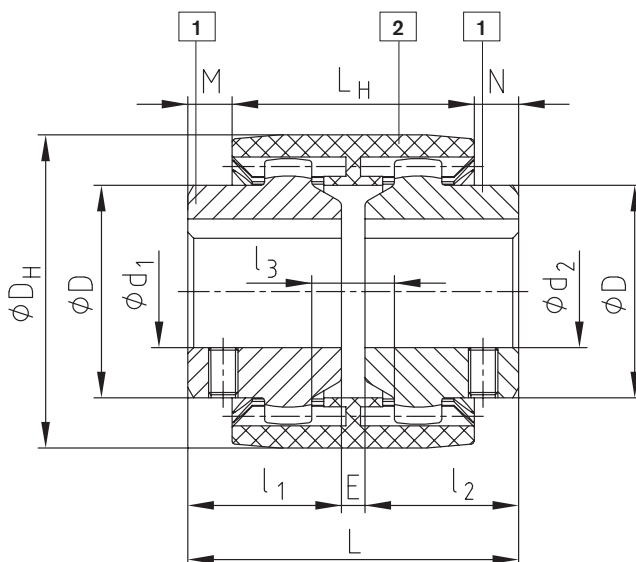
BoWex® junior 19	d ₁ Ø19	d ₂ Ø14
Coupling size of two-part type or BoWex® junior M-19 three-part type	Finish bore	Finish bore

BoWex® M, I Curved-tooth gear coupling®

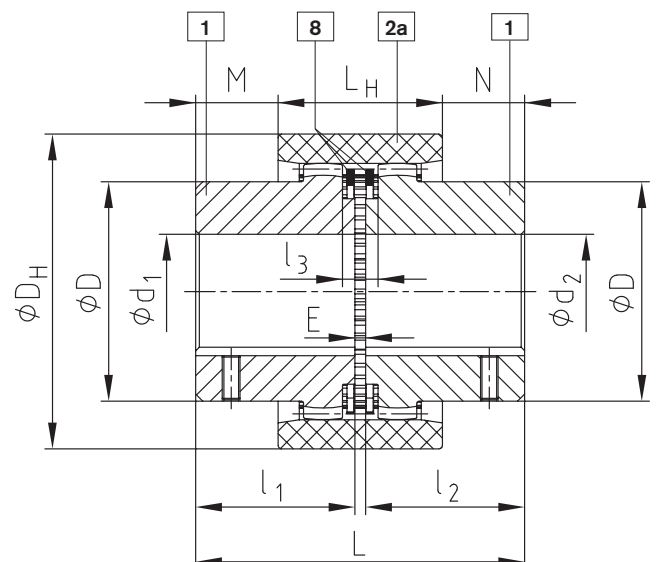
Compact and maintenance-free



Components



Type M



Type I

BoWex® type M, type I																						
Size	Torque [Nm]			Finish bore d1, d2		Dimensions [mm]											Weight with max. bore [kg]			Mass moment of inertia J with max. bore [kgcm²]		
	T _{KN}	T _{K max.}	T _{KW}	Pilot bored	Max.	l ₁ , l ₂	E	L	L _H	M, N	I3	D	DH	Tip circle ØD _Z hub	Number of teeth	Hub lengthened max. l ₁ , l ₂	Sleeve	Hub	Total	Sleeve	Hub	Total
M-14	10	30	5	-	15	23	4	50	37	6.5	10	25	40	33	20	40	0.03	0.07	0.1	0.08	0.09	0.26
M-19	16	48	8	-	20	25	4	54	37	8.5	10	32	47	39	24	40	0.03	0.1	0.23	0.15	0.16	0.47
M-24	20	60	10	-	24	26	4	56	41	7.5	14	36	53	45	28	50	0.04	0.14	0.32	0.21	0.36	0.93
M-28	45	135	23	-	28	40	4	84	46	19	13	44	65	54	34	55	0.08	0.33	0.74	0.65	1.22	3.09
M-32	60	180	30	-	32	40	4	84	48	18	13	50	75	63	40	55	0.09	0.43	0.95	1.14	2.17	5.48
M-38	80	240	40	-	38	40	4	84	48	18	13	58	83	69	44	60	0.13	0.55	1.23	1.58	3.55	8.68
M-42	100	300	50	-	42	42	4	88	50	19	13	65	92	78	50	60	0.14	0.68	1.5	2.32	5.98	14.28
M-48	140	420	70	-	48	50	4	104	50	27	13	68	95	78	50	60	0.23	0.79	1.81	3.9	7.22	18.34
M-65	380	1140	190	21	65	55	4	114	68	23	16	96	132	110	42	70	0.55	1.9	4.35	21.2	31.8	84.8
I-80	700	2100	350	31	90	90	6	186	93	46.5	20	124	178	145	46	-	1.13	5.2	11.53	68.9	150.8	370.5
I-100	1200	3600	600	38	100	110	8	228	102	63	22	152	210	176	48	-	1.78	9.37	20.52	158.6	401.3	961.2
I-125	2500	7500	1250	45	125	140	10	290	134	78	30	192	270	225	54	-	3.88	19.44	42.76	562.9	1362.3	3287.5

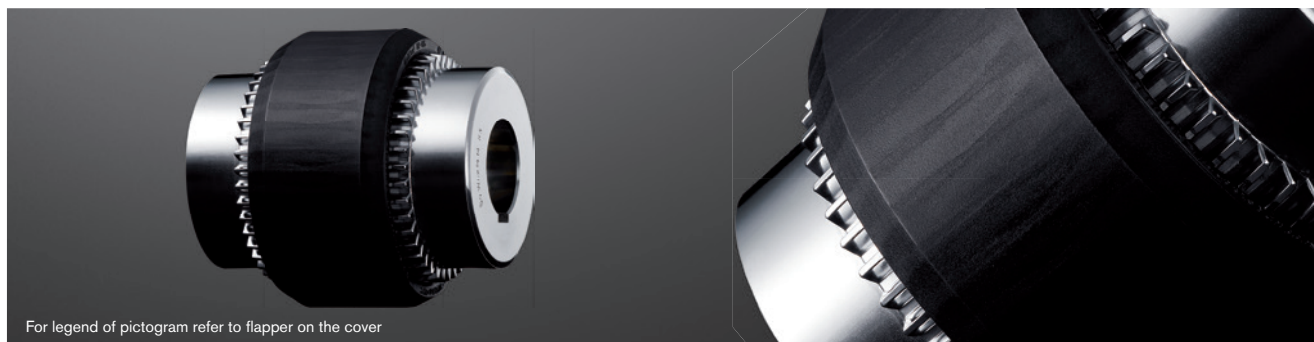
Ordering example:

BoWex® M-28	d ₁ Ø20	d ₂ Ø28
Size and type of coupling	Finish bore H7 keyway to DIN 6885 sheet 1 (JS9)	Finish bore H7 keyway to DIN 6885 sheet 1 (JS9)

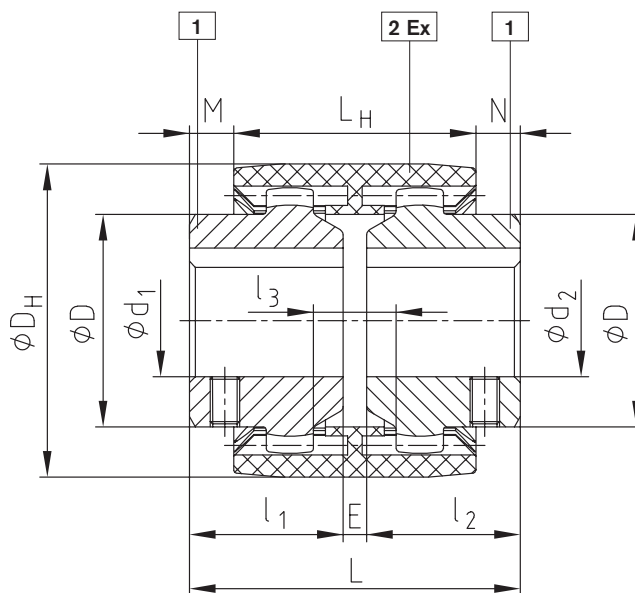
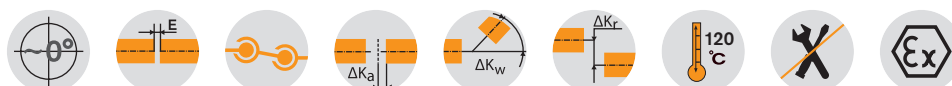
BoWex® M...C

Curved-tooth gear coupling®

Compact and maintenance-free



For legend of pictogram refer to flapper on the cover



Type M...C

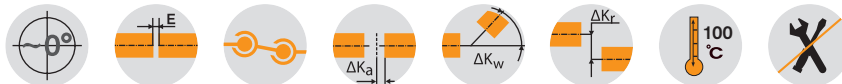
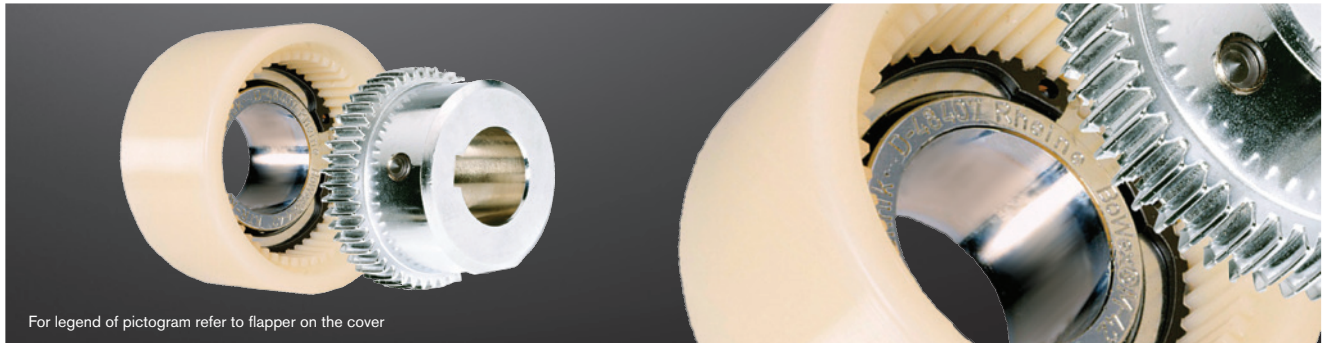
BoWex® Type M...C 																								
Size	Torque [Nm]			Finish bore d1, d2		Dimensions [mm]													Weight with max. bore [kg]			Mass moment of inertia J with max. bore [kgcm²]		
	T _{KN}	T _{K max.}	T _{KW}	Pilot bored	Max.	l ₁ , l ₂	E	L	L _H	M, N	I3	D	DH	Tip circle ØD _Z hub	Number of teeth	Hub lengthened max. l ₁ , l ₂	Sleeve	Hub	Total	Sleeve	Hub	Total		
M-14C	15	45	7.5	-	15	23	4	50	37	6.5	10	25	40	33	20	40	0.03	0.07	0.1	0.08	0.09	0.26		
M-19C	24	72	12	-	20	25	4	54	37	8.5	10	32	47	39	24	40	0.03	0.1	0.23	0.15	0.16	0.47		
M-24C	30	90	15	-	24	26	4	56	41	7.5	14	36	53	45	28	50	0.04	0.14	0.32	0.21	0.36	0.93		
M-28C	70	210	35	-	28	40	4	84	46	19	13	44	65	54	34	55	0.08	0.33	0.74	0.65	1.22	3.09		
M-32C	90	270	45	-	32	40	4	84	48	18	13	50	75	63	40	55	0.09	0.43	0.95	1.14	2.17	5.48		
M-38C	120	360	60	-	38	40	4	84	48	18	13	58	83	69	44	60	0.13	0.55	1.23	1.58	3.55	8.68		
M-48C	200	600	100	-	48	50	4	104	50	27	13	68	95	78	50	60	0.23	0.79	1.81	3.9	7.22	18.34		
M-65C	560	1680	280	21	65	55	4	114	68	23	16	96	132	110	42	70	0.55	1.9	4.35	21.2	31.8	84.8		
M-80C	1000	3000	500	31	90	90	6	186	93	46.5	20	124	178	145	46	-	1.13	5.2	11.53	68.9	150.8	370.5		

Ordering example:

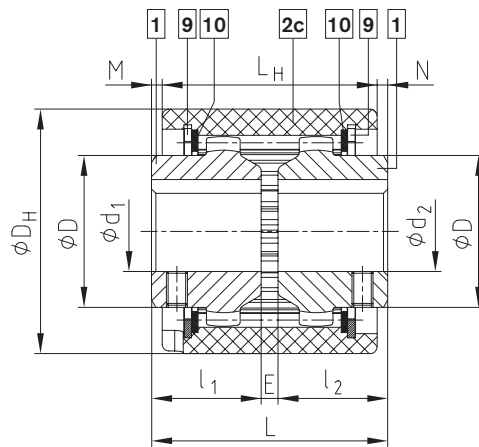
BoWex® M-28C	d ₁ Ø20	d ₂ Ø28
Size and type of coupling	Finish bore H7 keyway to DIN 6885 sheet 1 (JS9)	Finish bore H7 keyway to DIN 6885 sheet 1 (JS9)

BoWex® AS and Spec.-I Curved-tooth gear coupling®

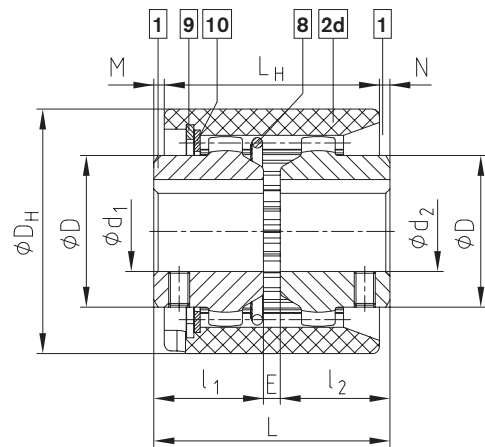
Compact and maintenance-free



Components



Type AS



Type Spec.-I

BoWex® Type AS and type Spec.-I																		
Size	Pilot bore		Finish bore d_1, d_2		Dimensions [mm]								Weight with max. bore [kg]			Mass moment of inertia J with max. bore [kgcm ²]		
	Unbored	Pilot bored		Max.	l_1, l_2	E	L	L_H	M, N	D	DH	Hub length. max. l_1, l_2	Sleeve	Hub	Total	Sleeve	Hub	Total
24	x	-	For finish bores see stock programme	24	26	4	56	51	2.5	36	58	50	0.11	0.14	0.39	0.38	0.36	1.10
28	x	-		28	40	4	84	56	14	44	70	55	0.16	0.33	0.82	1.54	1.22	3.98
32	x	-		32	40	4	84	58	13	50	84	55	0.21	0.43	1.07	2.75	2.17	7.09
45	x	-		45	42	4	88	60	14	65	100	60	0.27	0.63	1.53	5.49	5.66	16.81
65	-	21		65	55	4	114	84	15	96	140	70	0.84	2.10	5.00	29.83	43.96	117.8
80	-	31		90	90	6	186	93	46.5	124	178	-	1.30	5.20	11.70	83.20	150.8	384.8
100	-	38		100	110	8	228	102	63	152	210	-	2.05	9.40	20.80	184.4	401.3	987.0
125	-	45		125	140	10	290	134	78	192	270	-	4.32	19.44	43.10	620.0	1362.3	3344.6

For performance data see page 86.

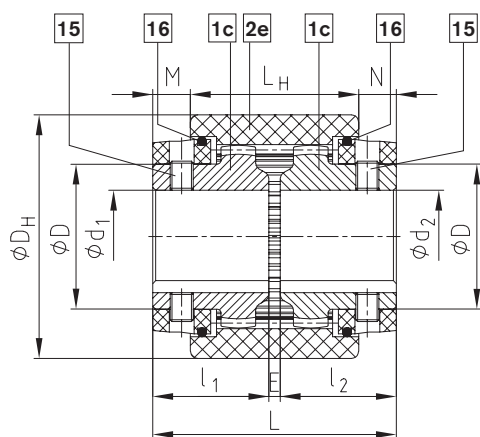
Ordering example:	BoWex® 32 AS	d_1 Ø32	d_2 Ø32
	Size and type of coupling AS or Spec.-I	Finish bore H7 keyway to DIN 6885 sheet 1 (JS9)	Finish bore H7 keyway to DIN 6885 sheet 1 (JS9)

BoWex® SG, SSR and Spec.-I/CD Curved-tooth gear coupling®

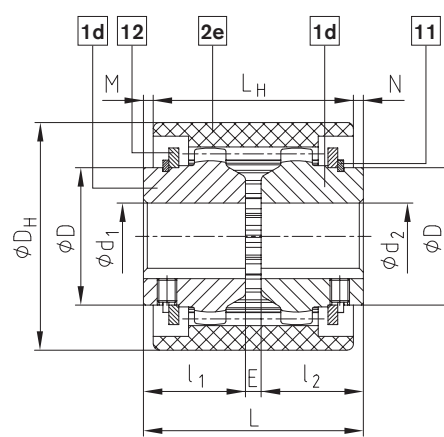
Other coupling types



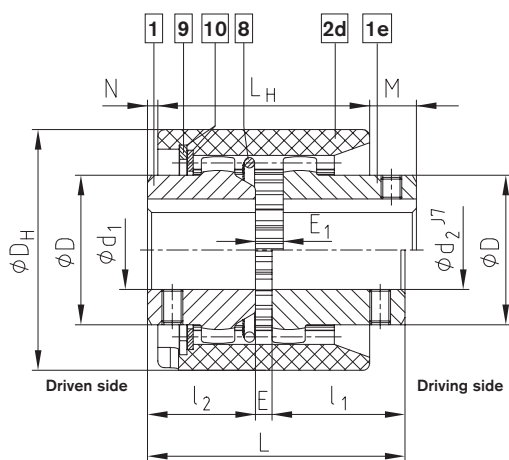
Components



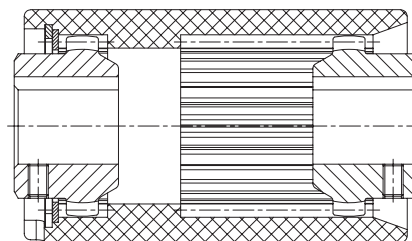
BoWex® Type SG with dust protection circlips



BoWex® Type SSR with Seeger circlips



BoWex® Type Spec.-I/CD



Type Spec.-I with a long PA-sleeve

GEARex®

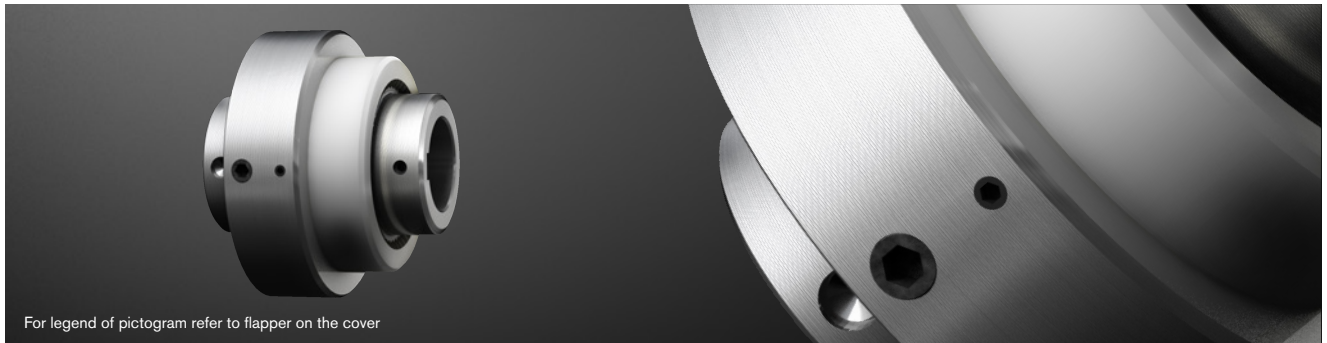
Gear
couplings

BoWex®

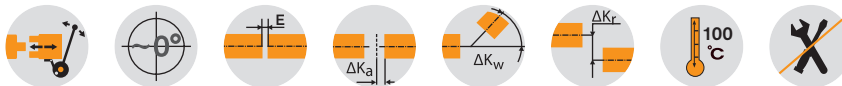
BoWex® SD/SD-D

Curved-tooth gear coupling®

Shiftable coupling (at standstill)



For legend of pictogram refer to flapper on the cover



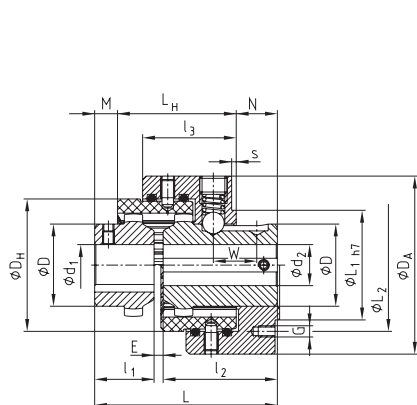
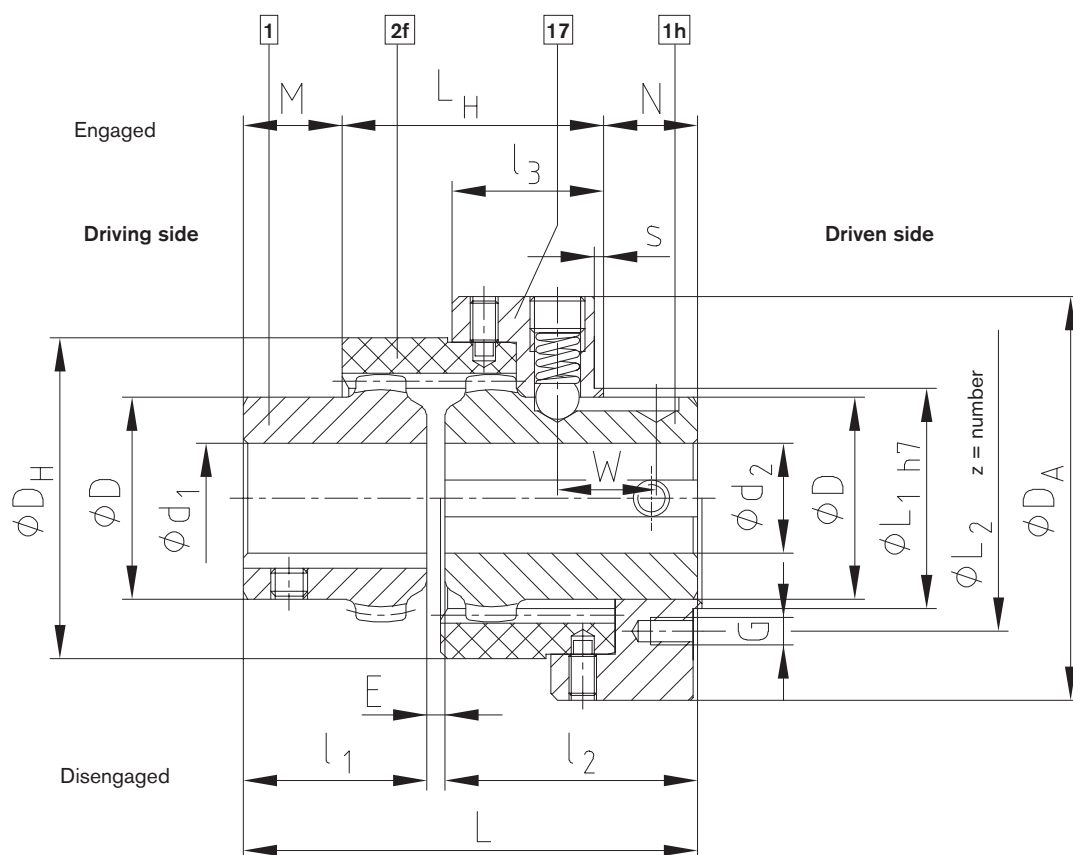
BoWex® Type SD																						
Size	Pilot bore		Finish bore d ₁ , d ₂		Dimensions [mm]												Weight with max. bore [kg]		Mass moment of inertia J with max. bore [kgcm ²]		Shifting force [N]	
	Un- bored	Pilot bored	d ₁	d ₁ max.	d ₂ max.	E	I ₁	I ₂	L	L _H	I ₃	M	W	N	D	DH	D _A	Shifting hub with sleeve	Driving hub	Shifting hub with sleeve		Driving hub
24 SD	x	-	For finish bores see stock programme on page 88	24	24	4	26	50	80	52	31	10	19	18	36	58	78	1.08	0.14	8.23	0.36	140
28 SD	x	-		28	28	4	40	55	99	57	33	21.5	21.5	20.5	44	70	88	1.50	0.33	15.62	1.22	180
32 SD	x	-		32	32	4	40	55	99	58	33	20.5	21.5	20.5	50	84	100	1.85	0.43	22.87	2.17	180
45 SD	x	-		45	45	4	42	60	106	63	37	21.5	22.5	21.5	65	100	125	2.56	0.68	46.07	5.66	250
				48			50		29.5			0.79										
65 SD	-	26		65	65	4	55	70	129	77	37	28	25	24	95	140	156	5.07	2.30	158.99	43.96	350
80 SD	-	31		90	90	6	90	90	186	96	47	56	35	34	124	175	195	10.60	5.20	523.7	150.8	350
100 SD	-	38		100	100	8	110	110	228	113	55	72	43	43	152	210	235	18.87	9.37	1350	401.3	400
125 SD	-	45		125	125	10	140	140	290	149	70	89	52	52	192	270	298	40.40	9.44	4919	1362.3	450

Connection dimensions of BoWex® SD shifting ring (comp. 17) for mounting of: slip ring SD1 (s. catalogue on p. 89), shifting disk etc.				
Size	Dimensions [mm]			
	L ₁	L ₂	z x G	s
24 SD	48	58	4 x M6	2
28 SD	48	58	4 x M6	2
32 SD	64	75	4 x M6	2
45 SD	75	90	4 x M8	2
65 SD	100	114	4 x M8	2
80 SD	130	145	4 x M8	3
100 SD	180	196	6 x M10	4
125 SD	220	236	6 x M10	4

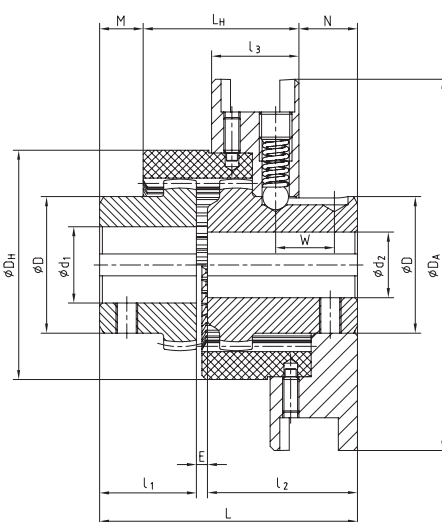
Performance data/torques see type M (on page 99), max. circumferential speed v = 20 m/s, referring to ØD_A
Other sizes on request

Ordering example:	BoWex® 32 SD		d ₁ Ø32	d ₂ Ø32
	Size and type of coupling		Finish bore H7 keyway to DIN 6885 sheet 1 (JS9)	Finish bore H7 keyway to DIN 6885 sheet 1 (JS9)

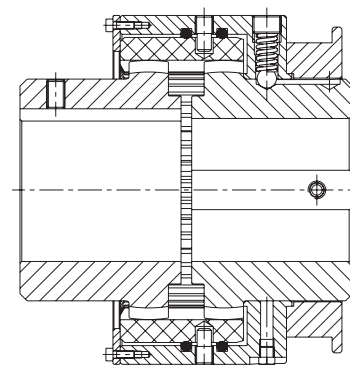
BoWex® SD



BoWex® SD-D



BoWex® SD2

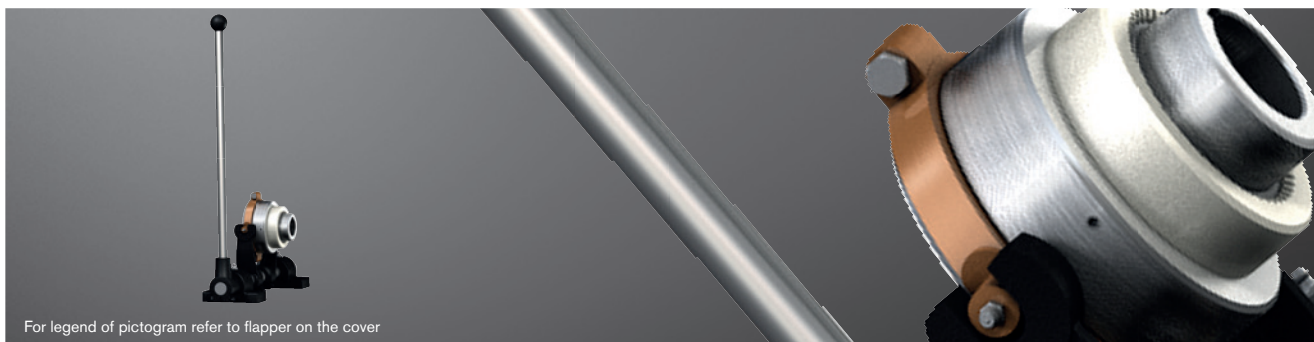


BoWex® SD-D3

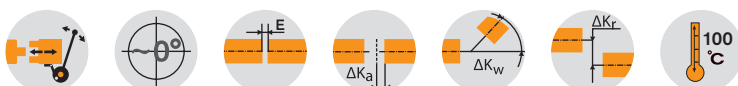
BoWex® SD1

Curved-tooth gear coupling®

Shiftable coupling with shiftable linkage (at standstill)



For legend of pictogram refer to flapper on the cover



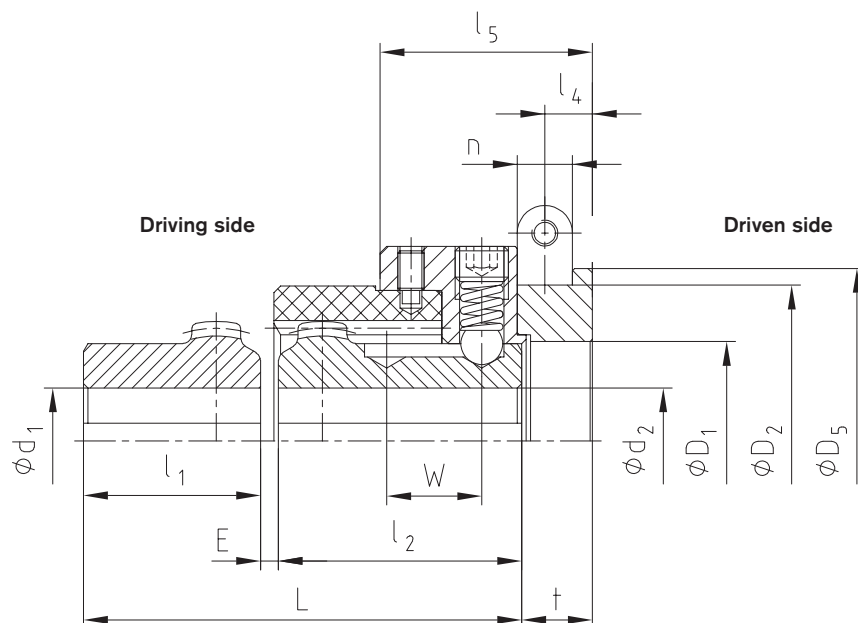
BoWex® Type SD1 and slip ring																					
Size	Finish bore			Dimensions [mm]																	Shifting force [N]
	d ₁	d ₁ max.	d ₂ max.	E	I ₁	I ₂	L	L _G	I ₄	I ₅	M	W	t	D	DH	D _A	D ₁	D ₂ ±0.1 (keyway)	D ₅	n ±0.1 (keyway)	
24 SD1	For finish bores see stock programme on page 88	24	24	4	26	50	80	67	11	46	10	19	16	36	58	78	45	70.5	78	12.5	140
28 SD1		28	28	4	40	55	99	72	11	48	21.5	21.5	16	44	70	88	45	70.5	78	12.5	180
32 SD1		32	32	4	40	55	99	78	13.5	53	20.5	21.5	21	50	84	100	60	89.5	100	17.5	180
45 SD1		45	45	4	42 50	60	106	84	14	58	21.5	22.5	22	65	100	125	70	112.5	125	18	250
		114					29.5														
65 SD1		65	65	4	55	70	129	103	16	61	26	25	25	96	140	156	96	130.5	145	20.5	350
80 SD1		90	90	6	90	90	186	124	18.5	75	56	35	29	124	175	195	125	164.5	182	25.5	350
100 SD1		100	100	8	110	110	228	152	28	94	72	43	39	152	210	235	174	210.5	230	30.5	400
125 SD1	125	125	10	140	140	290	193	30.5	114	89	52	44	192	270	298	214	250.5	275	35.5	450	

BoWex® Type SD1 - Shiftable linkage																					
Size	Shiftable linkage size	Slip ring size	Dimensions [mm]															Dimensions with m1 max.			
			a	b	c	d	d ₃	d ₄	e	F	g ₁	L ₂	L ₃	m	m ₁ min.	m ₁ max.	A	B	m ₃	m ₄	m ₅
24 SD1	1	1.1	110	50	18	20	11	16	30	70	55	320	400	75	180	190	90	114		55	16
28 SD1	1	1.1																			
32 SD1	2	2.2				25				97.5	60	430	450		240	270	111	151	20	80	34
45 SD1	3	3.3	140			30		20	40	120		490	600	100	280	310	140	180		90	44
65 SD1	3	4.4		60	25	30					70						170	210			
80 SD1	4	5.5				35	13.5		50	147.5		565	750		321	365	200	244		100	54
100 SD1	5	6.6	160			40		30	50 ¹⁾	190	80	630	1085	120	365	410	250	300	30	110	62
125 SD1	5	7.7													-	410	300	350			

¹⁾ = With a continuous base plate dimension „e“ has to be increased by at least 10 mm. The brackets of the driving and driven side have to be adjusted accordingly.
Also available as type SD-D. Other sizes on request.

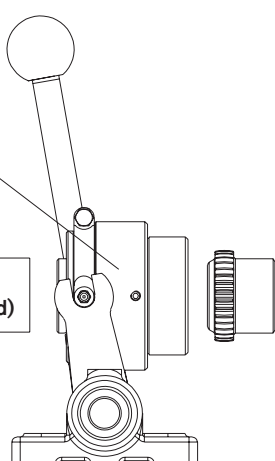
Performance data/torques see type M (on page 90),
max. circumferential speed v = 20 m/s, referring to ØD_A
(see assembly instructions table 11)

Ordering example:	BoWex® 65 SD1	d ₁ Ø32	d ₂ Ø32	4.4	3
	Size and type of coupling	Finish bore H7 keyway to DIN 6885 sheet 1 (JS9)		Slip ring Size	Shiftable linkage Size



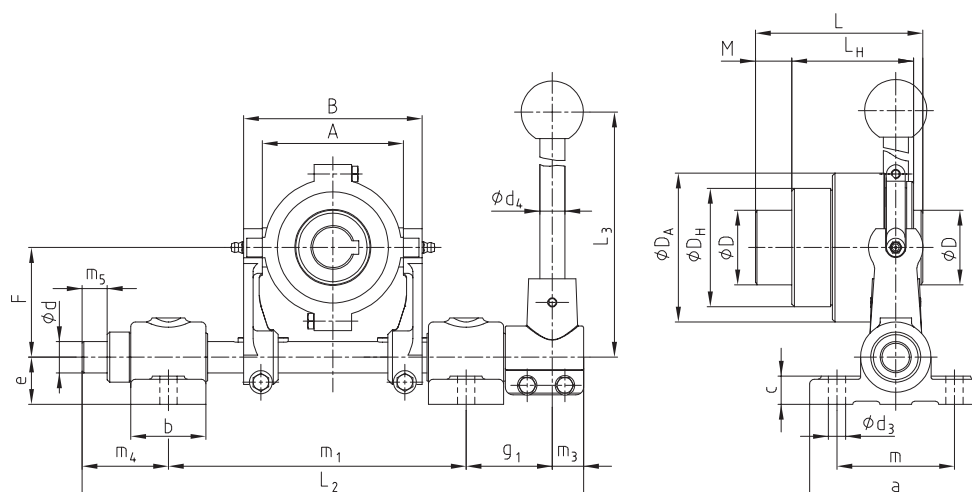
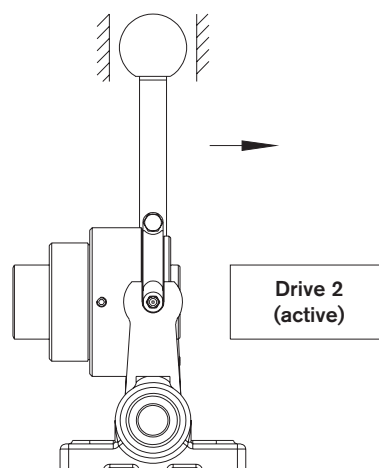
Shifting hub on the
disengaged side

Drive 1
(disengaged)



Driven side

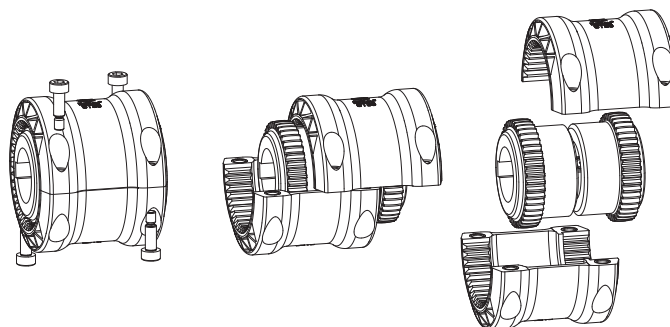
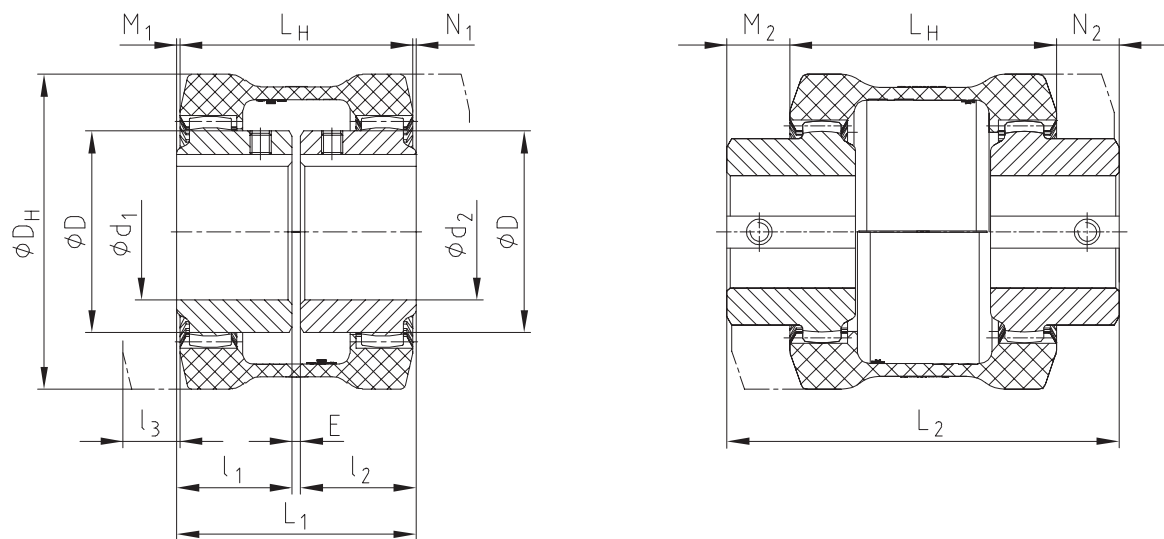
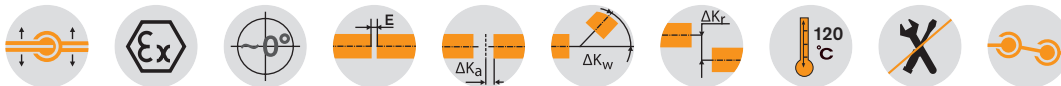
Drive 2
(active)



BoWex® GT

Curved-tooth gear coupling®

Split CFC sleeve for high power density and radially dismountable



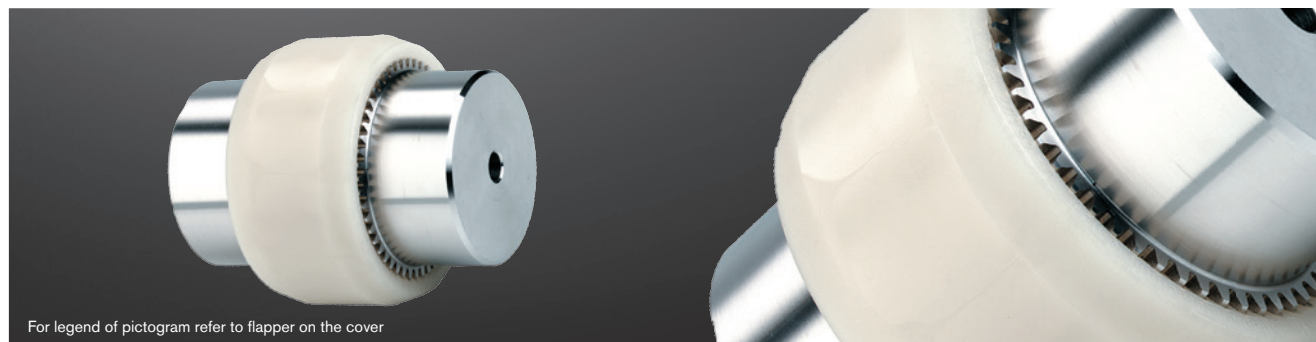
BoWex® Type GT with split sleeve																						
Size	Torque [Nm]			Finish bore d _{max.}		Dimensions [mm]											Weight with max. bore [kg]			Mass moment of inertia J with max. bore [kgcm ²]		
	T _{KN}	T _{K max.}	T _{KW}	d ₁	d ₂	D	DH	L _H	I ₁	I ₂	I ₃	E	L ₁	L ₂	M ₁ , N ₁	M ₂ , N ₂	Sleeve	Hub	Total	Sleeve	Hub	Total
28	70	210	35	28	28	44	80	80	40	40	15	4	84	124	2	22	0.158	0.22	0.702	1.77	1.22	4.21
38	120	360	60	38	38	58	98	83	40	40	18	4	84	122	0.5	19.5	0.25	0.45	1.15	4.43	3.36	11.15
48	200	600	100	48	48	68	110	104	50	50	21	4	104	160	0	28	0.33	0.67	1.68	7.39	6.11	19.61
65	560	1680	280	65	65	96	150	111	55	55	27	4	114	160	1.5	24.5	0.69	1.54	3.77	28.9	31.80	92.5

l₃ = Drop-out center design dimension required

Ordering example:	BoWex® GT-28	d ₁ Ø20	d ₂ Ø28
	Size and type of coupling	Finish bore H7 keyway to DIN 6885 sheet 1 (JS9)	Finish bore H7 keyway to DIN 6885 sheet 1 (JS9)

BoWex® M Curved-tooth gear coupling®

Made of corrosion-resistant materials



For legend of pictogram refer to flapper on the cover



BoWex® junior plug-in coupling (two-part) and BoWex® junior M (three-part)

Size	Finish bore				Dimensions [mm]									
	Hub Component 1b		Plug-in sleeve Component 2b		DH	l ₁ , l ₂	E ₁	E	L _{H1}	L _H	L ₁	L	M ₁	M, N
	d ₁	D ₁	d ₂	D ₂										
14	Ø6, Ø7, Ø8, Ø9	22	Ø8	22	40	23	2	4	40	37	48	50	8	6.5
M-14	Ø10, Ø11	25	Ø10, Ø11	25										
	Ø12, Ø14	26	Ø12, Ø14	26										
19	Ø12, Ø14	27	Ø14, Ø15	29	48	25	2	4	42	37	52	54	10	8.5
M-19	Ø16	30	Ø19	35										
	Ø19	32	Ø19	35										
24	Ø10, Ø11, Ø12	26	Ø14, Ø16	32	53	26	2	4	45	41	54	56	9	7.5
M-24	Ø14, Ø15, Ø16	32	Ø19, Ø20	36										
	Ø18, Ø19, Ø20	36	Ø24	40										

BoWex® type M with stainless steel hubs

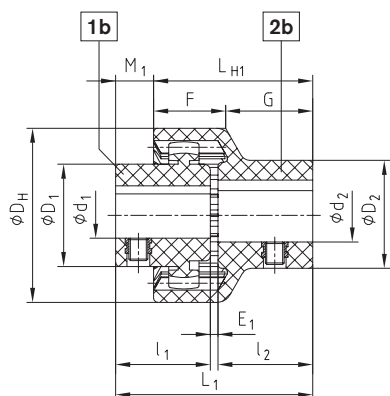
Size	Finish bore d ₁ max., d ₂ max.	Dimensions [mm]						
		DH	D	l ₁ , l ₂	E	L _H	L	M, N
M-24	24	53	36	26	4	41	56	7.5
M-38	38	83	58	40	4	48	84	18
M-48	48	95	68	50	4	50	104	27

Other coupling sizes on request. Setscrews with BoWex® junior coupling are made of V4A as a standard.
For performance data see page 88.

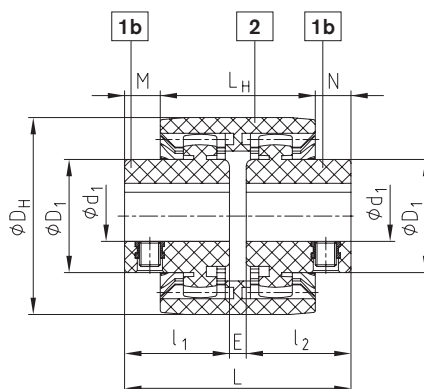
Applications:

Food industry, print and paper industry, textile industry, sewage technology, wash-mobiles, chemical and pharmaceutical industry, offshore units, etc. For use in aggressive environment (air, water, chemicals, etc.).

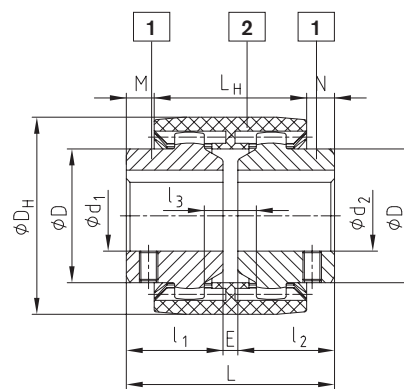
Type junior plug-in coupling (two-part)



Type junior M coupling (three-part)



Type M (V4A)



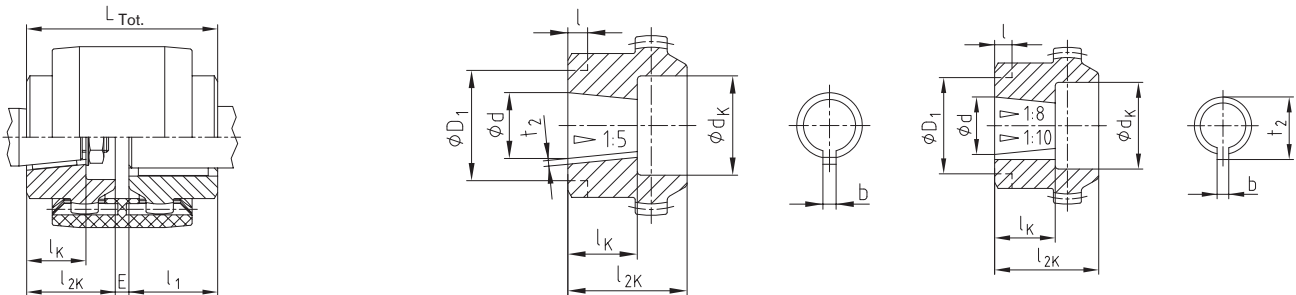
Ordering
example:

BoWex® M-24 V4A	d ₁ Ø20	d ₂ Ø24
Size and type of coupling	Finish bore H7 keyway to DIN 6885 sheet 1 (JS9)	Finish bore H7 keyway to DIN 6885 sheet 1 (JS9)

BoWex® Curved-tooth gear coupling®

Taper bores

BoWex® with taper bore



$$L_{Tot} = l_1 + E + l_{2K}$$

see stock programme on page 88

Taper bores 1:5																				
Dimensions [mm]					Counterbore d _K and hub length l _{2K} [mm] Recess on hub collar D ₁ x l [mm]															
Code	Details of bores				14		19		24		28		32		38		42		48	
	d +0.05	b JS9	t ₂ +0.1	l _K	d _K	l _{2K}	d _K	l _{2K}	d _K	l _{2K}	d _K	l _{2K}	d _K	l _{2K}	d _K	l _{2K}	d _K	l _{2K}	d _K	l _{2K}
A-10	9.85	2	1.0	11.5	18	23	18	25	25	26	25	26	25	26	25	26				
B-17	16.85	3	1.8	18.5			25	30	28	30	36	40	36	40	36	40	45	42	45	42
C-20	19.85	4	2.2	21.5					28	36	36	40	36	40	36	40	45	42	45	42
Cs-22	21.95	3	1.8	21.5					28	36	36	40	36	40	36	40	45	42	45	42
D-25	24.85	5	2.9	26.5							36	40	36	40	36	40	45	42	45	42
E-30	29.85	6	2.6	31.5											45	55	45	55	45	55
F-35	34.85	6	2.6	36.5														52	60	55
G-40	39.85	6	2.6	41.5														52	60	65

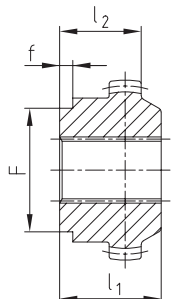
Taper bores 1:8																				
Dimensions [mm]					Counterbore d _K and hub length l _{2K} [mm] Recess on hub collar D ₁ x l [mm]															
Code	Details of bores				14		19		24		28		32		38		42		48	
	d +0.05	b JS9	t ₂ +0.1	l _K	d _K	l _{2K}	d _K	l _{2K}	d _K	l _{2K}	d _K	l _{2K}	d _K	l _{2K}	d _K	l _{2K}	d _K	l _{2K}	d _K	l _{2K}
N/1	9.7 ± 0.015	2.4 +0.05	10.85	17	18	26	18	25	25	26	25	30	25	30	25	30				
N/1c	11.6	3 JS9	12.90	16.5	18	23			25	26	25	30								
N/1e	13	2.4 +0.05	13.80	21					25	30	25	30			25	30				
N/1d	14	3 JS9	15.50	17.5	20	23	25	30	28	30	28	30	28	40						
N/2	17.287	3.2 +0.05	18.24	24					28	35	36	40	36	40	36	40	45	42	45	42
N/2a	17.287	4 JS9	18.94	24					28	35	36	40	36	40	36	40	45	42	45	42
N/2b	17.287	3 JS9	18.34	24					28	35					36	40	45	42	45	42
N/3	22.002	4 JS9	23.40	28							36	40	36	40	36	40	45	42	45	42
N/4	25.463	4.78 +0.05	27.83	36							36	50	36	50	36	50	45	50	45	50
N/4b	25.463	5 JS9	28.23	36							36	50					45	50	45	50
N/4a	27	4.78 +0.05	28.80	32.5											36	50				
N/4g	28.45	6 JS9	29.32	38.5											36	60	45	60	45	60
N/5	33.176	6.38 +0.05	35.39	44											45	60	45	60	45	60
N/5a	33.176	7 JS9	35.39	44													45	60	45	60

Taper bores 1:10																				
Dimensions [mm]					Counterbore d _K and hub length l _{2K} [mm]															
Code	Details of bores				14		19		24		28		32		38		42		48	
	d +0.05	b JS9	t ₂ +0.1	l _K	d _K	l _{2K}	d _K	l _{2K}	d _K	l _{2K}	d _K	l _{2K}	d _K	l _{2K}	d _K	l _{2K}	d _K	l _{2K}	d _K	l _{2K}
CX-20	19.85	5	22.08	32							36	50			36	50	45	50	45	50
DX-25	24.95	6	26.68	45									36	50			45	60	45	60
EX-30	29.75	8	31.88	50													45	60	45	60

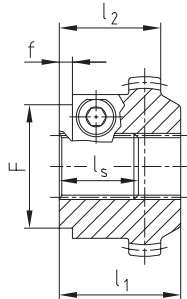
Spline hubs and inch bores

BoWex® spline hubs – basic programme

Spline hub (N)



Clamping hub (K)



If it is not possible to fasten the hubs of pump shafts with involute spline by means of an end plate and a screw, we recommend to use our spline clamping hub.

Radial clamping ensures a backlash-free tight fit on the pump shaft.

Spline and clamping hubs acc. to DIN 5480								
Size	Dimensions [mm]							Order designation specify coupling size
	Type	Spline size	l1	l2	lS	F	f	
42	N	25x1.25x18	42	-	-	-	-	P000205
	K	25x1.25x18	42	-	-	-	-	P500202
48	K	30x2x14	42	-	-	60	6	P500203
	N	30x2x14	50	-	-	60	6	P000206
65	K	30x2x14	50	-	-	60	6	P500203
	N	35x2x16	55	-	-	60	6	P000303
65	K	35x2x16	60	-	-	60	6	P500301
	N	40x2x18	55	-	-	78	6	P000304
65	K	40x2x18	60	-	-	78	6	P500302
	K	45x2x21	55	-	-	78	6	P500401

Spline and clamping hubs to ANSI B92.1								
Size	Dimensions [mm]							Order designation specify coupling size
	Type	Spline size	l1	l2	lS	F	f	
42	K	PH-S 5/8" 16/32DP, z=9	42	-	-	-	-	P558101
	K	PI-S 3/4" 16/32DP, z=11	-	35	-	-	-	P559101
	K	PB-S 7/8" 16/32DP, z=13	42	-	-	60	3	P567101
	K	PB-BS 1" 16/32DP, z=15	42	-	27	50	6	P660201
48	K	PA-S 3/8" 16/32DP, z=21	50	-	45	52	7	P663301
65	K	PA-S 3/8" 16/32DP, z=21	55	-	48	52	5	P663301
	K	PC-S 1 1/4" 12/24DP, z=14	55	-	44	52	5	P656201

Inch bores – see stock programme on page 88											
Bore and keyway acc. to ANSI/AGMA 9002-C14 Bore (clearance fit) Keyway (commercial class fit)						Bore and keyway acc. to ANSI/AGMA 9002-C14 Bore (clearance fit) Keyway (commercial class fit)					
KTR Code	Bore Ø [Inch]	Width of keyway [Inch]	Bore Ø [mm]	Width of keyway [mm]	Keyway depth/ Tolerance +0.381 [mm]	KTR Code	Bore Ø [Inch]	Width of keyway [Inch]	Bore Ø [mm]	Width of keyway [mm]	Keyway depth/ Tolerance +0.381 [mm]
Tb	3/8	1/8	9.525 +0.0254	3.175 +0.05	10.972	Sd	1 1/8	5/16	28.575 +0.0254	7.937 +0.051	32.105
DNB	7/16	3/32	11.112 +0.0254	2.382 +0.051	12.293	Js	1 1/4	1/4	31.75 +0.0254	6.35 +0.051	34.721
T	1/2	3/16	12.7 +0.0254	4.762 +0.051	14.757	K	1 1/4	5/16	31.75 +0.0254	7.937 +0.051	35.331
Ta	1/2	1/8	12.7 +0.0254	3.175 +0.051	14.224	Ma	1 3/8	5/16	34.925 +0.0254	7.937 +0.051	38.557
DNC	17/32	1/8	13.495 +0.0254	3.175 +0.051	15.011	RH1	1 3/8	3/8	34.925 +0.0254	9.525 +0.063	39.141
Do	9/16	1/8	14.287 +0.0254	3.175 +0.051	15.824	Cb	1 7/16	3/8	36.512 +0.0254	9.525 +0.063	40.767
E	5/8	1/8	15.875 +0.0254	3.175 +0.051	17.424	Ca	1 1/2	5/16	38.1 +0.0254	7.937 +0.051	41.783
Es	5/8	5/32	15.875 +0.0254	3.968 +0.051	17.729	C	1 1/2	3/8	38.1 +0.0254	9.525 +0.0635	42.392
Ed	5/8	3/16	15.875 +0.0254	4.762 +0.051	18.008	Nb	1 5/8	3/8	41.275 +0.0254	9.525 +0.0635	45.618
DNH	11/16	3/16	17.462 +0.0254	4.762 +0.051	19.634	Ls	1 3/4	3/8	44.45 +0.0254	9.525 +0.0635	48.818
Ad	3/4	1/8	19.05 +0.0254	3.175 +0.051	20.624	L	1 3/4	7/16	44.45 +0.0254	11.112 +0.0635	49.428
A	3/4	3/16	19.05 +0.0254	4.762 +0.051	21.259	Lu	1 7/8	1/2	47.625 +0.0254	12.7 +0.0635	53.238
G	7/8	3/16	22.225 +0.0254	4.762 +0.051	24.485	Da	1 15/16	1/2	49.212 +0.0254	12.7 +0.0635	54.864
F	7/8	1/4	22.225 +0.0254	6.35 +0.051	25.069	Ds	2	1/2	50.8 +0.0254	12.7 +0.0635	56.464
Gf	15/16	1/4	23.812 +0.0254	6.35 +0.051	26.695	Pa	2 1/8	1/2	53.975 +0.0381	12.7 +0.063	59.69
H	1	3/16	25.4 +0.0254	4.762 +0.051	27.686	U	2 1/4	1/2	57.15 +0.0381	12.7 +0.063	62.915
Hs	1	1/4	25.4 +0.0254	6.35 +0.051	28.295	Ub	2 3/8	5/8	60.325 +0.0381	15.875 +0.076	67.335
R	1 1/16	3/16	26.987 +0.0254	4.762 +0.051	29.286	Wd	3 3/8	7/8	85.725 +0.0381	22.225 +0.076	95.504
Sb	1 1/8	1/4	28.575 +0.0254	6.35 +0.051	31.521	Wf	3 5/8	7/8	92.075 +0.0381	22.225 +0.076	101.955

The splines and inch bores specified are only a part of KTR's options. Many other variants are available, too.