



Flexible Drive (Spider) Couplings

FEATURES

- Torsionally flexible and vibration damping due to elastomer toothed insert (spider) with 98° Shore A (polyurethane)
- Elastomer is only subjected to compression loading
- Axial plug-in
- Failsafe as a result of positive-fit power transmission
- Maintenance-free
- Axial, radial and angular misalignment compensation
- Available in aluminium (Al), cast iron (GG/GGG) or steel (St)
- Temperature range:
-30 °C to +90 °C for continuous operation, -40 °C to +120 °C for short-term operation

MODEL CODE

(also order example)

Coupling 24/28 - 28 / 22.2 F ALU

Coupling size _____

Version of motor hub _____

28 = 28H7 cylindrical bore with key to DIN 6885

Version of pump hub _____

22.2F = 22.2 code F (7/8") imperial hole

B17...TN2A = tapered bores

SAE ... = profiled bores / spline shafts

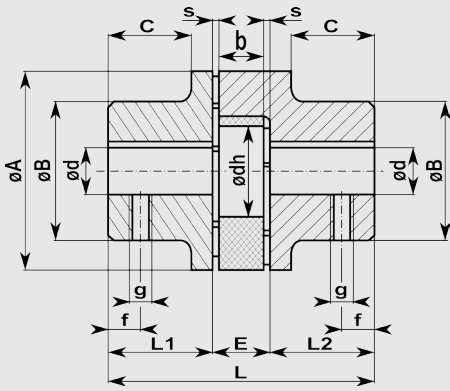
Special model _____

... = coupling in cast iron or steel (no details required)

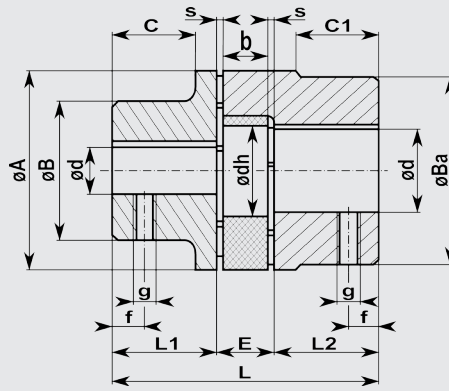
ALU = coupling in aluminium

ATEX = with ATEX approval

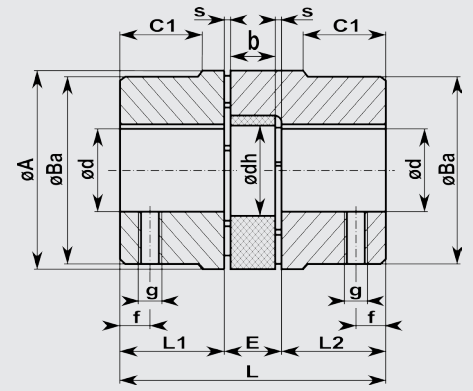
DIMENSIONS



Hub combination A/A
e.g. Coupling 28 – 28/20



Hub combination A/B
e.g. Coupling 28/38 – 28/35



Hub combination B/B
e.g. Coupling 28/38 – 38/38

Coupling hubs in aluminium

Order example: Coupling 19/24-24/14 ALU

Type	max. kW at 1000 rpm	max. kW at 1500 rpm	Bores						Dimensions [mm]												Weight [kg]					
			A-hub			B-hub			Pilot hole	Finished bore Ø d	Pilot hole	Finished bore Ø d	A	B	OM	L	L1+L2	E	s	b		C	C1	dh	g	f
			Pilot hole	min	max	Pilot hole	min	max																		
19/24	1.1	1.5	5	6	19	18	19	24	40	32	39	66	25	16	2	12	20	21	18	M5	10	0.13				
24/28	2.2	4	7	8	24	15	16	32	55	40	53	78	30	18	2	14	24	26	27	M5	10	0.26				
28/38	5.5	7.5	8	10	28	25	28	38	65	48	63	90	35	20	3	15	28	29	30	M6	15	0.46				
38/45	11	15	13	14	38	35	38	45	80	66	79	114	45	24	3	18	37	39	38	M8	15	0.9				
42/55	22	30	13	19	42	40	42	55	95	75	94	126	50	26	3	20	40	41	46	M8	20	1.39				
48/60	30	45	18	19	48	46	48	60	105	85	104	140	56	28	4	21	45	46	51	M8	20	1.86				

Coupling hubs in steel / cast iron

Order example: Coupling 24/28-20/24

Type	max. kW at 1000 rpm	max. kW at 1500 rpm	Bores						Dimensions [mm]												Weight [kg]					
			A-hub			B-hub			Pilot hole	Finished bore Ø d	Pilot hole	Finished bore Ø d	A	B	OM	L	L1+L2	E	s	b		C	C1	dh	g	f
			Pilot hole	min	max	Pilot hole	min	max																		
19/24	1.1	1.5	–	6	19	–	12	24	40	32	39	66	25	16	2	12	20	21	18	M5	10	0.35				
24/28	2.2	4	–	10	24	–	14	32	55	40	52	78	30	18	2	14	24	26	27	M5	10	1				
28/38	5.5	7.5	–	12	28	22	24	38	65	45	62	90	35	20	2.5	15	28	29	30	M6	15	1.6				
38/45	11	15	–	14	38	30	38	45	80	66	77	114	45	24	3	18	37	37	38	M8	15	2.3				
42/55	22	30	–	19	42	15	42	55	95	75	94	126	50	26	3	20	40	40	46	M8	20	3.6				
48/60	30	45	–	19	48	15	48	60	105	85	102	140	56	28	3.5	21	45	45	51	M8	20	4.8				
55/70	37	55	–	19	55	47	55	70	120	98	118	160	65	30	4	22	52	52	60	M10	20	7.4				
65/75	55	90	–	22	65	57	65	75	135	115	132	185	75	35	4.5	26	61	59	68	M10	20	10.9				
75/90	90	132	–	30	75	50	75	90	160	135	158	210	85	40	5	30	69	65	80	M10	25	17.7				
90/100	250	315	29	40	90	79	90	100	200	160	180	245	100	45	5.5	34	81	81	100	M10	25	29.5				
100/110	315	315	–	–	–	40	55	110	225	–	200	270	110	50	6	38	–	89	113	M12	30	43.5				

IMPERIAL BORES

Order Code	Ød mm	Ød Inch	Groove	
			b+0.05	t2+0.2
9.5 TB	9.5	3/8	3.17	11.1
11.11 DNB	11.11	7/16	2.4	12.5
12.69 T	12.69	1/2	4.75	14.6
12.7 TA	12.7	1/2	3.17	14.3
13.45 DNC	13.45	17/32	3.17	14.9
14.29 DO	14.29	9/16	3.17	15.6
15.87 E	15.87	5/8	3.17	17.5
15.87 S	15.87	5/8	3.97	17.9
15.88 ES	15.88	5/8	4.0	17.7
15.85 DND	15.852	5/8	4.75	18.1
15.87 ED	15.87	5/8	4.75	18.1
17.47 DNH	17.465	11/16	4.75	19.6
19.02 AD	19.02	3/4	3.17	20.7
19.02 AS	19.02	3/4	4.78	21.3
19.05 A	19.05	3/4	4.78	21.3
22.2 FA	22.2	7/8	6.35	25.2
22.23 DNI	22.228	7/8	6.35	25.0
22.22 GS	22.22	7/8	4.78	24.4
22.22 g	22.22	7/8	4.75	24.7
22.22 GB	22.22	7/8	4.78	25.5
22.22 F	22.22	7/8	6.38	25.2
22.225 GD	22.225	7/8	4.76	24.7
23.8 GF	23.8	15/16	6.35	26.8
25.0 HB	25.0	63/64	6.35	28.7
25.38 BA	25.38	1	6.35	27.6
25.38 BS	25.38	1	6.37	28.3
25.4 H	25.4	1	4.78	27.8
25.4 HS	25.4	1	6.35	28.7
26.95 R	26.95	1 1/16	4.78	29.3
28.58 SA	28.575	1 1/8	6.35	31.7
28.58 SB	28.58	1 1/8	6.35	31.5
28.58 SD	28.58	1 1/8	7.93	32.1
31.7 JA	31.7	1 1/4	7.93	34.4
31.71 JC	31.71	1 1/4	7.93	35.3
31.75 JS	31.75	1 1/4	6.35	34.6
31.75 K	31.75	1 1/4	7.93	35.5
31.75 KS	31.75	1 1/4	7.93	36.6
31.76 DNK	31.755	1 1/4	7.93	35.3
34.93 MA	34.925	1 3/8	7.93	38.7
34.92 M	34.92	1 3/8	7.93	38.6
34.93 RH1	34.93	1 3/8	9.55	37.8
36.5 CB	36.5	1 7/16	9.55	40.9
38.07 CA	38.07	1 1/2	7.93	42.0
38.07 C	38.07	1 1/2	9.55	42.5
41.25 N	41.25	1 5/8	9.55	45.6
41.28 NB	41.275	1 5/8	9.55	45.8
44.42 LS	44.42	1 3/4	9.55	48.8
44.45 LA	44.45	1 3/4	11.0	48.1
44.45 L	44.45	1 3/4	11.11	49.4
47.63 LU	47.625	1 7/8	12.7	53.5
49.2 DA	49.2	1 15/16	12.7	55.0
50.77 DS	50.77	2	12.7	56.4
50.8 D	50.8	2	12.7	55.1
53.95 P	53.95	2 1/8	12.7	59.6
53.98 PA	53.975	2 1/8	12.7	60.0
57.1 U	57.1	2 1/4	12.73	62.9
60.33 UB	60.325	2 3/8	15.875	67.6
73.03 WA	73.025	2 7/8	19.05	81.7
85.73 WD	85.725	3 3/8	22.225	95.8
92.08 WF	92.075	3 5/8	22.225	101.9


PROFILE BORES

Profile spline DIN 5480	Profile DIN 5482	Profile SAE
N 20 x 1.25 x 14 x 9 G	A 17 x 14	SAE 5/8" - 16/32 - Z9
N 25 x 1.25 x 18 x 9 G	A 28 x 25	SAE 3/4" - 16/32 - Z11
N 30 x 2 x 14 x 9 G	A 30 x 27	SAE 7/8" - 16/32 - Z13
N 35 x 2 x 16 x 9 G	A 35 x 31	SAE 1" - 16/32 - Z15
N 40 x 2 x 18 x 9 G	A 40 x 36	SAE 1-1/8" - 16/32 - Z17
N 45 x 2 x 21 x 9 G	A 45 x 41	SAE 1-1/4" - 12/24 - Z14
N 50 x 2 x 24 x 9 G	A 48 x 44	SAE 1-3/8" - 16/32 - Z21
N 55 x 2 x 24 x 9 G	A 50 x 45	SAE 1-1/2" - 12/24 - Z17
N 60 x 2 x 28 x 9 G	A 58 x 53	SAE 1-1/2" - 16/32 - Z23
N 70 x 3 x 22 x 9 G	A 70 x 64	SAE 1-3/4" - 16/32 - Z27
N 80 x 3 x 25 x 9 G		SAE 1-3/4" - 8/16 - Z13
N 90 x 3 x 28 x 9 G		SAE 2" - 8/16 - Z15
		SAE 2-1/4" - 8/16 - Z17

TAPER BORES

Order code	Cone 1:8			
	Ød	b	t2	l
TN1	9.75	2.40	10.7	17.0
TN1C	11.60	3.00	12.9	16.5
TN1E	13.00	2.40	13.8	21.0
TN1D	14.00	3.00	15.5	17.5
TN1B	14.30	3.20	15.7	19.5
TN2	17.20	3.20	18.3	24.0
TN2A	17.20	4.00	18.9	24.0
TN2B	17.20	3.00	18.3	24.0
TN3	22.00	4.00	23.4	28.0
TN4	25.46	4.78	27.8	36.0
TN4B	25.46	5.00	28.2	36.0
TN4A	27.00	4.78	28.8	32.5
TN4G	28.45	6.00	29.3	38.5
TN5	33.17	6.38	35.4	44.0
TN5A	33.17	7.00	35.4	44.0

Order code	Cone 1:5			
	Ød	b	t2	l
A10	9.85	2	10.9	11.5
B17	16.85	3	18.9	18.5
C20	19.85	4	22.0	21.5
Cs22	21.95	3	23.8	21.5
D25	24.85	5	27.9	26.5
E30	29.85	6	32.5	31.5
F35	34.85	6	37.5	36.5
G40	39.85	6	45.5	41.5

 = Standard

Gear Couplings



FEATURES

- Flexible shaft connection
- Axial, radial and angular misalignment compensation
- Coupling hub in steel, coupling sleeve in polyamide
- Torque transmission without radial stress due to double Cardan construction
- Temperature range: -25 °C to +80 °C for continuous operation

MODEL CODE

(also order example)

Coupling B 24 24H7 / 20H7

Gear coupling _____

Coupling size _____

Version of motor hub _____

24H7 = cylindrical bore with key to DIN 6885

Version of pump hub _____

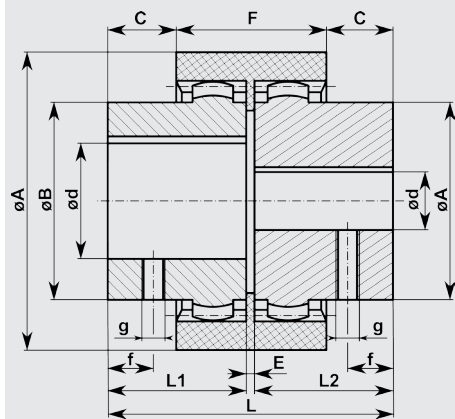
20H7 = cylindrical bore with key to DIN 6885

22.2F = 22.2 Code F (7/8") imperial bore*

B17/TN2A = tapered bore*

* see tables under flexible drive couplings

DIMENSIONS



Type	max. kw for 1000 rpm	max. kw for 1500 rpm	Pilot hole	Finished-holes d [mm]		Dimensions [mm]										Weight [kg]
				Min.	Max.	A	B	L	L1 + L2	E	C	F	g	f		
B 24	1.10	1.50	—	10	24	52	36	56	26	4	7.5	41	M 5	6	0.316	
B 28	2.20	4.00	7	10	28	66	44	84	40	4	19	46	M 8	10	0.739	
B 38	5.50	7.50	12	14	38	83	58	84	40	4	18	48	M 8	10	1.22	
B 42	11.00	15.00	12	20	42	92	65	88	42	4	19	50	M 8	10	1.49	