

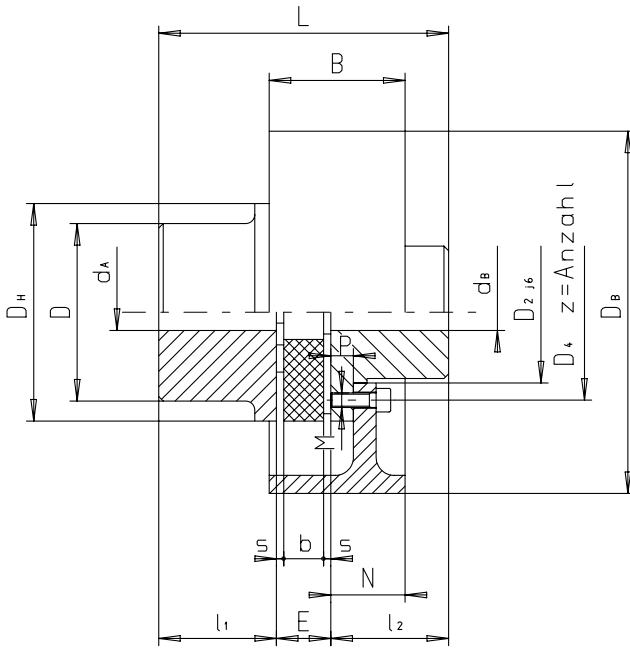


Torsionally flexible couplings

Type BTAN Nr. 11
Brake drum design
dimensions - capacity charts

M 1501 131 E-EN

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06.2003



coupling sizes	Torque [Nm]		
	Rated Tkn	Max Tkmax	Vibratory TkW
38	325	650	85
42	450	900	117
48	525	1050	137
55	685	1370	178
65	940	1880	244
75	1920	3840	499
90	3600	7200	936
100	4950	9900	1287
110	7200	14400	1872
125	10000	20000	2600

The brake drum has to be placed onto the shaft end with the biggest mass moment of inertia.
The maximum brake torque must not exceed the maximum torque of the coupling

brake drum DB x B	Coupling / disc size dimension "N"										brake drum		
	BTAN										1/min. [V] (30m/s)	weight [kg]	inertia [kgm²]
	38	42	48	55	65	75	90	100	110	125			
160x60	31										3550	2,12	0,01
200x75	36	38	39	41							2800	3,45	0,03
250x95	44	46	47	49	50	52					2240	6,87	0,08
315x118		55	56	58	59	61	64				1800	14,95	0,28
400x150		68	69	71	72	74	77	79	82		1400	31,20	0,89
500x190					87	89	92	94	97	101	1120	60,00	2,70
630x236						107	110	112	115	119	900	112,00	8,01
710x265								123	126	130	800	161,00	14,90
800x300										144	710	202,00	27,20

Type BTAN	Pilot bore	Finish bore				Dimensions													Weight ²⁾		Inertia ²⁾		
		min. d _A d _B	max. d _A d _B		St d _B	GGG 40 d _B	D _H	D	D ₂	D ₄	Z= number	M	I ₁ I ₂	P	L	E	s	b	N	brake drum hub in kg	coupling without brake drum in kg	brake drum hub in kgm ²	coupling without brake drum in kgm ²
38	-	16	38	34	-	80	70	50	66	8	M 8	8	45	7,5	114	24	3	18	see selection above	0,77	1,84	0,0006	0,0016
42	-	25	42	42	-	95	85	60	80	12	M 8	8	50	9,5	126	26	3	20		1,19	2,84	0,0012	0,0033
48	-	25	48	48	-	105	95	68	90	12	M 8	8	56	10,5	140	28	3,5	21		1,69	3,95	0,002	0,0052
55	18	30	55	55	-	120	110	78	102	8	M 10	8	65	12,5	160	30	4	22		2,63	6,02	0,004	0,0103
65	20	40	65	65	-	135	115	92	116	12	M 10	75	13,5	185	35	4,5	26	3,64		8,81	0,008	0,021	
75	28	40	75	75	-	160	135	106	136	15	M 12	85	15,5	210	40	5	30	5,92		14,31	0,017	0,045	
90	38	50	90	100	-	200	160	140	172	15	M 16	100	18,5	245	45	5,5	34	11,3		25,4	0,051	0,122	
100	45	50	115	-	100	225	180	156	195	15	M 16	110	20,5	270	50	6	38	15,6		35,3	0,087	0,213	
110	58	60	125	-	110	255	200	176	218	15	M 20	120	23,5	295	55	6,5	42	22,2		49,9	0,162	0,387	
125	58	60	145	-	130	290	230	204	252	15	M 20	140	27,5	340	60	7	46	33,0		74,8	0,312	0,750	

1) Finish bore according to ISO-fit H7, keyway according DIN 6885 page 1, fit P9 .

2) Weight and mass moment of inertia each refer to the maximum finish bore without keyway.

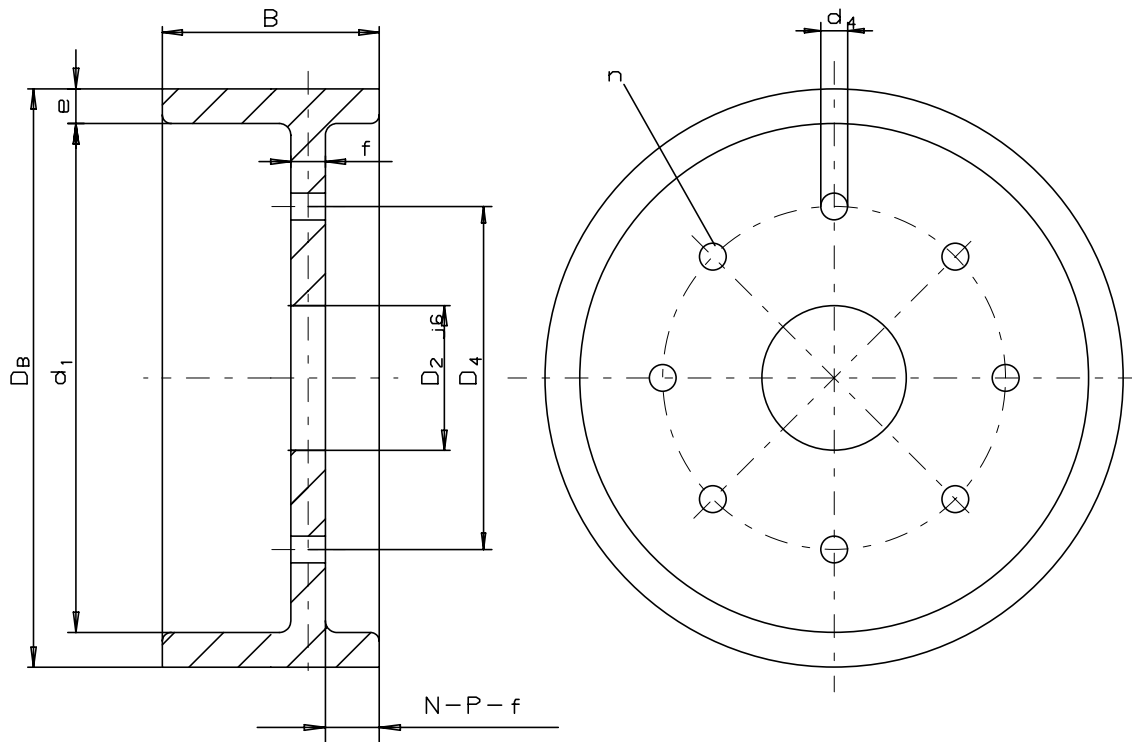
spider 98 Shore A; colour red.

In case of an axial shifting the dimension "L" has to be considered as a minimum dimension in order to keep the spider free from pressure on its faces.

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Brake drum
for torsionally flexible couplings
type BTAN Nr. 11



coupling / brake drum size dimension "N"														
Brake drum $D_B \times B$	BTAN											d_1	e	f
	38	42	48	55	65	75	90	100	110	125				
160x60	31											140	10	10
200x75	36	38	39	41								176	12	12
250x95	44	46	47	49	50	52						220	15	15
315x118		55	56	58	59	61	64					285	15	15
400x150		68	69	71	72	74	77	79	82			365	17,5	17,5
500x190					87	89	92	94	97	101		460	20	20
630x236						107	110	112	115	119		580	25	25
710x265								123	126	130		650	30	30

BTAN	D_2	D_4	P	d_4	n
38	50	66	7,5	9	8
42	60	80	9,5	9	12
48	68	90	10,5	9	12
55	78	102	12,5	11	8
65	92	116	13,5	11	12
75	106	136	15,5	13,5	10
90	140	172	18,5	17,5	10
100	156	195	20,5	17,5	15
110	176	222	23,5	17,5	15
125	204	252	27,5	22	10

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