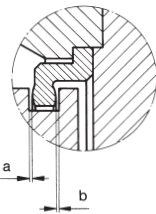
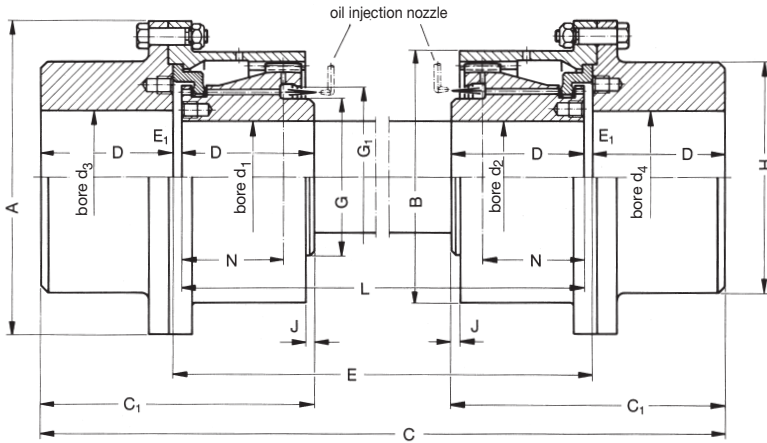


Curved Tooth Couplings High-Speed Series TRG

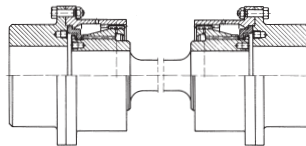


Dimension table No. 243 121/1



Sizes 30 to 200 are available from stock, without intermediate shaft. Larger sizes on request.

The coupling series TRG is equipped with two Z-shaped retaining rings for end float limitation. The axial clearances a and b can be altered if required by the service conditions. The speed n_{max} depends on the weight and length of the intermediate shaft. The bending-critical speed has to be checked by using the equation given on page 29. The couplings of the TRG series can also be supplied with a torsion shaft being adapted to the vibration characteristics of the plant.



Coupling Type TRG Size	Torsional Spring Rate	
	$C_{T1}^{1)}$ MNm/rad	C_{T2} MNm · mm/rad
30	0,10	To be calculated using the equation on page 29
40	0,26	
50	0,54	
60	0,96	
70	1,53	
80	2,31	
90	3,37	
100	4,43	
110	6,05	
125	8,26	
140	12,24	
160	18,21	
180	25,19	
200	34,01	

For coupling selection and size determination, please see page 5.

- 1) Values of the coupling with bore d_3 ; d_4_{max} . The intermediate shaft is considered with a diameter d_1 ; d_2_{max} in the area of the hub lengths D only. The values for the exposed part of the shaft have to be calculated.
- C_{T2} = torsional spring rate of the intermediate shaft
 C_{T3} = torsional spring rate of the complete coupling

$$C_{T3} = \frac{1}{\frac{1}{C_{T1}} + \frac{1}{C_{T2}}}$$

Coupling Type TRG Size	Normal Speed cont. operation		Dimensions														Axial clearances a and b	Oil injection nozzles per half Quantity and size	Total oil requirement per min at 1.5 bar pressure	Mass moment of inertia J ¹⁾	Weight ¹⁾
	$\frac{P_{KN}}{n}$	n_{max}	bore d_1 ; d_2				bore d_3 ; d_4														
	kW·min	rpm	min	max	min	max	A	B	C_1	D	E_1	G	G_1	H	J	N					
30	0,072	14.000	12	30	12	55	115	85	103,5	50	3,5	44	54	80	3,5	35	0,5	1xØ2	4,5	0,011	7,9
40	0,128	12.500	22	40	22	65	145	105	125	60	5	58	71	95	6,5	43,5	0,5	1xØ2	4,5	0,027	13,4
50	0,252	11.200	22	50	25	80	165	125	145	70	5	73	86	112	6,5	52	0,5	1xØ2	4,5	0,053	20,4
60	0,438	10.000	28	60	28	90	195	145	166	80	6	88	103	130	6,5	61	0,5	1xØ2	4,5	0,115	37,8
70	0,718	9.000	28	70	30	100	215	168	186	90	6	98	116	150	7	69	0,5	1xØ2	4,5	0,206	47
80	0,998	8.000	32	80	32	115	230	185	206	100	6	118	136	170	7	77,5	0,5	1xØ2	4,5	0,32	62
90	1,435	7.100	32	90	32	130	265	210	228	110	8	128	146	190	7,5	85	0,5	1xØ2	4,5	0,61	89
100	2,013	6.300	55	100	55	140	270	224	248	120	8	138	158	205	8,5	92	1,0	1xØ2,5	7	0,79	107
110	2,520	6.000	65	110	65	155	305	245	268	130	8	153	177	225	9	99,5	1,0	1xØ2,5	7	1,32	144
125	4,025	5.600	75	125	75	170	330	268	310	150	10	173	198	250	12	114	1,0	1xØ2,5	7	2,11	196
140	5,670	5.000	85	140	85	195	375	305	340	165	10	198	224	285	10	126,5	1,0	2xØ2	9	3,89	280
160	8,085	4.750	120	160	110	225	425	347	392	190	12	228	260	325	13	147	1,0	2xØ2	9	7,43	413
180	11,305	4.500	140	180	134	250	470	392	452	220	12	258	290	360	18	169	1,0	2xØ2,5	14	12,8	583
200	16,100	4.250	160	200	150	280	535	437	504	245	14	288	330	410	19	188,5	1,0	2xØ2,5	14	23,4	836
220	22,400	4.000	180	220	180	310	580	495	556	270	16	330	365	450	28	198,5	1,5	2xØ2,5	14	38,5	1136
240	28,700	3.750	200	240	200	330	645	535	598	290	18	355	415	480	29	214	1,5	2xØ3	20	57,8	1452
260	35,875	3.550	220	260	220	360	680	580	640	310	20	385	425	520	30	230,5	1,5	2xØ3	20	81,1	1777
280	44,975	3.350	240	280	240	380	745	630	702	340	22	415	460	550	31	256	1,5	2xØ4	36	120,1	2263
300	56,700	3.150	260	300	260	400	775	660	744	360	24	445	490	580	32	272,5	1,5	2xØ4	36	155,5	2668
320	71,750	3.000	280	320	280	425	825	710	786	380	26	480	530	620	33	289	1,5	3xØ4	54	215,4	3236

Subject to change due to technical improvement.