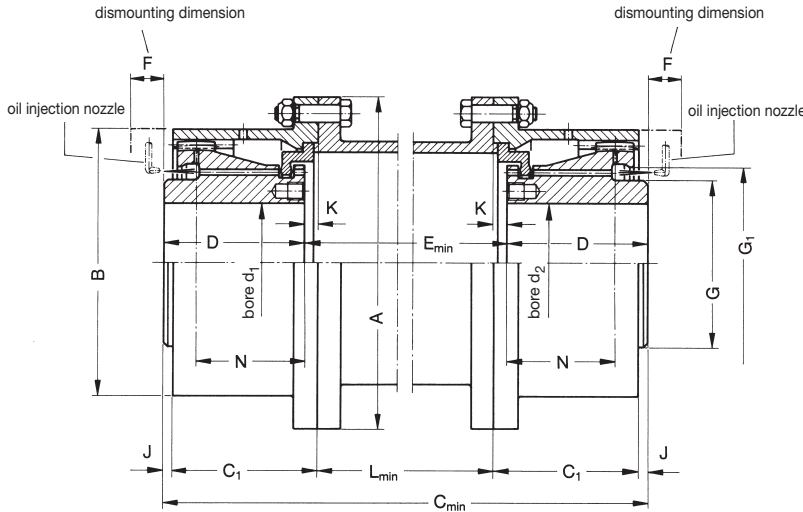


Curved Tooth Couplings High-Speed Series TRL



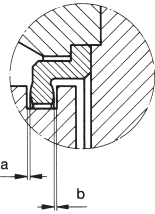
Dimension table No. 243 120/1



Coupling Type TRL Size	Torsional Spring Rate	
	$C_{T1}^{1)}$ MNm/rad	C_{T2} MNm · mm/rad
30	0,44	186
40	1,03	274
50	2,07	537
60	3,36	898
70	4,93	1335
80	7,48	1895
90	9,89	2638
100	11,84	3557
110	14,94	4690
125	19,30	6909
140	27,83	8928
160	39,57	14088
180	59,05	23218
200	78,11	36882

The coupling series TRL is equipped with two Z-shaped retaining rings for end float limitation.

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



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 spacer.

1) Values of the complete coupling with

$$E = E_{min} \text{ and bore } d_1; d_{2max}$$

C_{T2} = torsional spring rate per 1 mm spacer length

C_{T3} = torsional spring rate of the complete coupling, if $E > E_{min}$

The dismounting dimension F is required to allow vertical installation and removal of the machines and for installing the retaining rings.

$$C_{T3} = \frac{1}{\frac{1}{C_{T1}} + \frac{E - E_{min}}{C_{T2}}}$$

Sizes 30 to 200 are available from stock, without spacer. Larger types on request.

Coupling Type TRL 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⁾	per 10 mm tube length, if $L > L_{min}$	Weight ¹⁾	Extra weight per 10 mm spacer length
	$\frac{P_{KN}}{n}$	n_{max}	bore $d_1; d_2$ min max	A	B	C_1	C_{min}	D	E_{min}	F	G	G_1	J	K	L_{min}	N							
30	0,072	14.000	12 30	115 85	50	182	50	82	20	44	54	3,5	3,5	75	35	0,5	1xØ2	4,5	0,0057	0,00018	4,1	0,12	
40	0,128	12.500	22 40	145 105	60,5	209	60	89	25	58	71	6,5	7	75	43,5	0,5	1xØ2	4,5	0,0147	0,00027	7,1	0,13	
50	0,252	11.200	22 50	165 125	70,5	229	70	89	25	73	86	6,5	7	75	52	0,5	1xØ2	4,5	0,0292	0,00053	10,7	0,18	
60	0,438	10.000	28 60	195 145	82	267	80	107	30	88	103	6,5	8,5	90	61	0,5	1xØ2	4,5	0,063	0,00089	16,8	0,22	
70	0,718	9.000	28 70	215 168	92	288	90	108	30	98	116	7	9	90	69	0,5	1xØ2	4,5	0,111	0,0013	24	0,25	
80	0,998	8.000	32 80	230 185	102	308	100	108	35	118	136	7	9	90	77,5	0,5	1xØ2	4,5	0,169	0,0019	30,5	0,28	
90	1,435	7.100	32 90	265 210	114,5	349	110	129	40	128	146	7,5	12	105	85	0,5	1xØ2	4,5	0,332	0,0026	45	0,31	
100	2,013	6.300	55 100	270 224	123,5	369	120	129	45	138	158	8,5	12	105	92	1,0	1xØ2,5	7	0,427	0,0035	53	0,36	
110	2,520	6.000	65 110	305 245	133	419	130	159	50	153	177	9	12	135	99,5	1,0	1xØ2,5	7	0,71	0,0046	72	0,40	
125	4,025	5.600	75 125	330 268	153	465	150	165	45	173	198	12	15	135	114	1,0	1xØ2,5	7	1,09	0,0068	92	0,47	
140	5,670	5.000	85 140	375 305	170	505	165	185	50	198	224	10	15	155	126,5	1,0	2xØ2	9	2,04	0,0088	136	0,53	
160	8,085	4.750	120 160	425 347	194	594	190	214	55	228	260	13	17	180	147	1,0	2xØ2	9	3,88	0,014	200	0,70	
180	11,305	4.500	140 180	470 392	219	654	220	214	55	258	290	18	17	180	169	1,0	2xØ2,5	14	6,79	0,023	284	0,79	
200	16,100	4.250	160 200	535 437	246	740	245	250	65	288	330	19	20	210	188,5	1,0	2xØ2,5	14	11,94	0,036	400	1,2	
220	22,400	4.000	180 220	580 495	265	796	270	256	40	330	365	28	23	210	198,5	1,5	2xØ2,5	14	21,34		579		
240	28,700	3.750	200 240	645 535	287	862	290	282	45	355	415	29	26	230	214	1,5	2xØ3	20	32,8		748		
260	35,875	3.550	220 260	680 580	308	906	310	286	45	385	425	30	28	230	230,5	1,5	2xØ3	20	46,1		915		
280	44,975	3.350	240 280	745 630	341	994	340	314	50	415	460	31	32	250	256	1,5	2xØ4	36	69,2	Values upon request ¹⁾	1170		
300	56,700	3.150	260 300	775 660	362	1038	360	318	55	445	490	32	34	250	272,5	1,5	2xØ4	36	90,2	Values upon request ¹⁾	1380		
320	71,750	3.000	280 320	825 710	383	1082	380	322	60	480	530	33	36	250	289	1,5	3xØ4	54	126,5	Values upon request ¹⁾	1685		

Subject to change due to technical improvement.