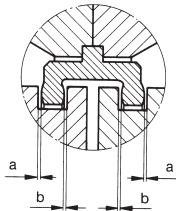
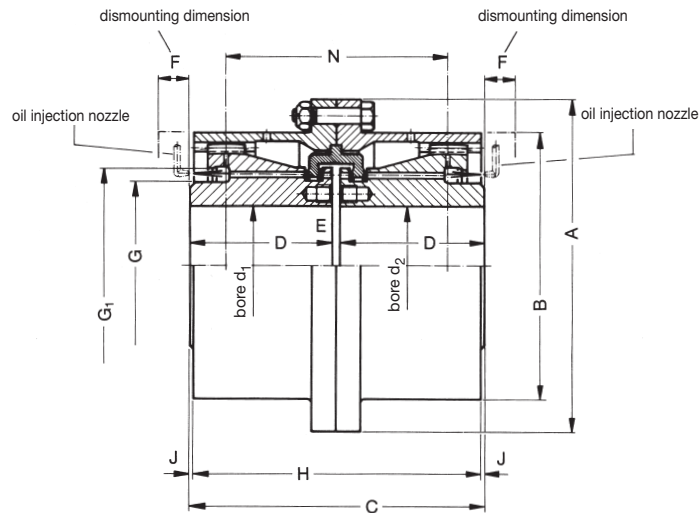


# Curved Tooth Couplings High-Speed Series TSR



Dimension table No. 243 118/1



**Sizes 30 to 200 are available from stock.**  
Larger types on request.

The coupling series TSR is equipped with a U-shaped retaining ring for end float limitation.

The axial clearances a and b can be altered if required by the service conditions.

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

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

1) Values of the complete coupling with bore  $d_1$ ;  $d_{2\max}$

Coupling Type TSR	Normal 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	Torsional spring rate $1) C_T$	Mass moment of inertia $J_1$	Weight $1)$
	$\frac{P_{KN}}{n}$	$n_{max}$	bore $d_1, d_2$ min max	A	B	C	D	E	F	G	G <sub>1</sub>	H	J	N	litre	MNm/rad						
30	0,072	14.000	12 30	115	85	105	50	5	20	44	54	100	2,5	75	0,5	1xØ2	4,5	0,50	0,0056	4,1		
40	0,128	12.500	22 40	145	105	125	60	5	20	58	71	121	2	92	0,5	1xØ2	4,5	1,29	0,0147	7,0		
50	0,252	11.200	22 50	165	125	145	70	5	20	73	86	141	2	109	0,5	1xØ2	4,5	2,62	0,0291	10,6		
60	0,438	10.000	28 60	195	145	166	80	6	25	88	103	164	1	128	0,5	1xØ2	4,5	4,39	0,063	16,5		
70	0,718	9.000	28 70	215	168	186	90	6	25	98	116	184	1	144	0,5	1xØ2	4,5	6,50	0,111	23,5		
80	0,998	8.000	32 80	230	185	206	100	6	25	118	136	204	1	161	0,5	1xØ2	4,5	9,96	0,168	30,3		
90	1,435	7.100	32 90	265	210	228	110	8	30	128	146	229	-	178	0,5	1xØ2	4,5	13,87	0,333	45		
100	2,013	6.300	55 100	270	224	248	120	8	30	138	158	247	0,5	192	1,0	1xØ2,5	7	15,71	0,425	53		
110	2,520	6.000	65 110	305	245	268	130	8	30	153	177	266	1	207	1,0	1xØ2,5	7	21,77	0,71	71		
125	4,025	5.600	75 125	330	268	310	150	10	35	173	198	306	2	238	1,0	1xØ2,5	7	26,67	1,08	92		
140	5,670	5.000	85 140	375	305	340	165	10	35	198	224	340	-	263	1,0	2xØ2	9	43,21	2,05	135		
160	8,085	4.750	120 160	425	347	392	190	12	40	228	260	388	2	306	1,0	2xØ2	9	62,73	3,88	198		
180	11,305	4.500	140 180	470	392	452	220	12	40	258	290	438	7	350	1,0	2xØ2,5	14	89,02	6,78	281		
200	16,100	4.250	160 200	535	437	504	245	14	45	288	330	492	6	391	1,0	2xØ2,5	14	115,28	11,93	394		
220	22,400	4.000	180 220	580	495	556	270	16	20	330	365	500	28	413	1,5	2xØ2,5	14	164,85	20,13	550		
240	28,700	3.750	200 240	645	535	598	290	18	30	355	415	540	29	446	1,5	2xØ3	20	198,71	30,38	703		
260	35,875	3.500	220 260	680	580	640	310	20	30	385	425	580	30	481	1,5	2xØ3	20	261,05	43,25	865		
280	44,975	3.350	240 280	745	630	702	340	22	30	415	460	640	31	534	1,5	2xØ4	36	291,69	64,00	1100		
300	56,700	3.150	260 300	775	660	744	360	24	35	445	490	680	32	569	1,5	2xØ4	36	393,66	84,13	1305		
320	71,750	3.000	280 320	825	710	786	380	26	40	480	530	720	33	604	1,5	3xØ4	54	509,68	118,50	1595		

Subject to change due to technical improvement.