

Safety Coupling – Model CTS-1

with clamping ring / conical bushing

- with clamping ring / conical bushing
- 0,2 - 3000 Nm
- exact torque limitation
- torsionally stiff, compact & absolutely backlash-free design
- high switching travel in case of overload
- integrated bearing for toothed belt pulley
- temperature range -30° to 120°
- special designs such as sealed versions or stainless steel on request



properties	unit	unit symbol	2	5	10	15	30	60	150	200	300	500	800	1500	2500	
360°/60° adjustment range 1 from - to	(Nm)	T _{KN}	0,2-1,5	1-5	2-6	5-20	10-30	10-30	20-70	40-100	80-200	80-200	350-650	500-900	1000-1500	
360°/60° adjustment range 2 from - to	(Nm)	T _{KN}	0,5-2,2	3-10	4-12	15-40	20-60	25-80	50-150	80-200	150-250	200-400	500-800	700-1200	1400-2200	
360°/60° adjustment range 3 from - to	(Nm)	T _{KN}			7-15	30-60	30-90	50-100	100-225	150-280	200-440	250-500	650-950	1000-1800	2000-3000	
360°/60° adjustment range 4 from - to	(Nm)	T _{KN}								250-400		320-650				
actuation distance *	(mm)		0,8	0,8	1,2	1,4	1,4	1,7	1,9	2,2	2,2	2,2	2,2	3	3	
(F) adjustment range 1 from - to	(Nm)	T _{FKN}	--	--	2-5	7-15	8-20	15-30	40-80	50-100	60-180	80-150	200-400	700-1000	1000-1500	
(F) adjustment range 2 from - to	(Nm)	T _{FKN}			4-10		15-30	30-60	80-150	80-140	160-300	100-250	400-650	1000-1250	1400-2200	
(F) adjustment range 3 from - to	(Nm)	T _{FKN}			8-15					130-200	280-400	150-300	450-850	1250-1500	1800-2700	
(F) adjustment range 4 from - to	(Nm)	T _{FKN}										250-500			2500-3000	
overall length	(mm)	A	28	32	39	40	50	54	58	63,5	70,5	84,5	95	109	147	
overall length (F)	(mm)	AF	--	--	39	40	50	54	58	66,5	74	88	95	117	153	
actuation ring Ø	(mm)	B	30	36	46	56	66	74	93	100	121,5	136	153,5	175	244	
actuation ring Ø		BF	--	--	51,5	61,5	71	84	99	118	133	156	176	188	259	
inner diameter from Ø-H7	(mm)	D	4-12	5-14	6-20	8-22	12-22	12-30	15-38	20-44	25-56	25-56	30-60	35-70	50-100	
pilot diameter h7	(mm)	E	22	25	34	40	47	55	68	75	82	90	100	125	168	
bolt-hole circle Ø ±0,2	(mm)	F	28	35	43	47	54	63	78	85	98	110	120	148	202	
flange outs. Ø -0,2	(mm)	G	32	41	51	54	64	73	88	99	113	129	141	166	241	
thread		H	4xM2,5	6xM2,5	6xM3	6xM4	6xM5	6xM5	6xM6	6xM6	6xM8	6xM8	6xM10	6xM12	6xM16	
thread depth	(mm)		4	4	5	6	9	9	10	11	10	12	18	16	24	
distance	(mm)	J	15	17	22	27	35	37	39	44	47	59	67	82	112	
distance (F)		JF	--	--	24	27	37	39	41,5	47	51,5	62	75	94	120	
distance	(mm)	K	6	8	11	8	11	11	12	12	15	21	19	25	34	
approximate weight	(kg)		0,06	0,12	0,2	0,4	0,7	1	1,3	2	3	4	5,5	10	28	
																CT-S1-23-01

Upper drawing: Series 0002-0010 with clamping ring
 Lower drawing: Series 0015 -2500 with conical bushing

* = Switching distances generally apply to the middle setting range and may slightly deviate downwards or upwards.



