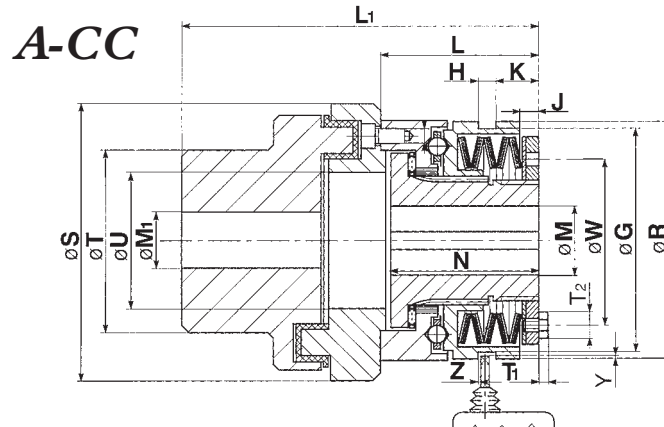


# Cross CS Overload Shaft Couplings



## CS Standard Series Couplings

For shaft to shaft connection CS Standard series clutches are available with an elastomeric coupling for all the sizes and modes of operation, simple overload, synchronous overload, or safe lift and total dis-engagement. The elastomeric Coupling permits up to 1/2 degree angular misalignment, with 0.3mm radial and a maximum of 0.5mm axial. The rubber element absorbs peak shocks, providing greater accuracy in overload protection. Up to five torque ranges are available on each size of clutch, controlled by selection of the actuating spring set, providing a wide range of torque capacities to select from. Inertias are provided for each half of the clutch in dis-engaged condition, the hub inertia incorporating all items that revolve free with the hub, and the coupling inertia all those items that stay with the flexible coupling.



## CS Standard Series Couplings - Technical Capacities

Models*	Torque Range according to Spring Selection					Max. Speed			Bore Size mm			Weight kg	Inertia kgcm <sup>2</sup>	
	S Nm	M Nm	L Nm	U Nm	R Nm	S/M rpm	L/U rpm	'R' rpm	Clutch M		Cplg. M <sub>1</sub> max		Hub Side	Cplg Side
									min	max				
CSF20 CSY20 CSL20	2.5-5.0 5-10 5-10	5-10 10-20 10-20	10-20 20-40 20-40	20-40		3300 1000 4000	1800 500 3000		7	20	30	1.2	1.0	6.1
CSF25 CSY25 CSL25 CSZ25	6-12 12-25 12-25 12-25	12.3 25-30 25-50 25-50	25-55 50-100 50-100 50-100	55-100		2900 950 3900 5000	1450 450 2900 5000		10	25	50	5.0	6.7	71.8
CSF35 CSY35 CSL35 CSZ35	12-25 25-50 25-50 25-50	25-50 50-100 50-100 50-100	50-120 100-200 100-200 100-200	120-200		2400 800 3300 4000	1200 400 2400 4000		14	35	50	6.4	19.0	81.0
CSF45 CSY45 CSL45 CSZ45	25-50 50-100 50-100 50-100	50-100 100-200 100-200 100-200	100-250 200-400 200-400 200-400	250-400		2000 650 2800 3500	1000 300 2000 3500		18	45	60	10.6	51.7	148.5
CSF55(R) CSY55(R) CSL55(R) CSZ55	50-100 100-200 100-200 100-200	100-200 200-400 200-400 200-400	200-500 400-800 400-800 400-800	500-800	800-2000 800-2000 800-2000	1600 550 2300 3000	850 250 1600 3000	90 90 700	24	55	60 90 (R type)	15 26	163	279 500
CSF65(R) CSY65(R) CSL65(R) CSZ65	85-200 170-400 170-400 170-400	170-500 350-900 350-900 350-900	300-1000 700-1800 700-1800 700-1800	700-1800	1200-3400 1200-3400 1200-3400	1400 400 1800 2300	700 150 1400 2300	70 70 600	30	70*	70 90 (over 1000Nm) 115 (R type)	416	27 36 42	734 980 1350
CSF80(R) CSY80(R) CSL80(R) CSZ80	180-480 300-750 300-750 300-750	360-960 600-1500 600-1500 600-1500	720-1950 1200-3000 1200-3000 1200-3000	1600-3300	2900-5800 2900-5800 2900-5800	1200 150 1500 1600	600 80 1000 1600	40 40 400	40	80	115	48	769	1580
CSF100(R) CSY100(R) CSL100(R) CSZ100	250-520 550-1100 550-1100 550-1100	500-1050 1100-2200 1100-2200 1100-2200	1000-2100 2200-4400 2200-4400 2200-4400	2000-3600	3000-8200 3000-8200 3000-8200	950 100 1300 1400	480 50 800 1400	30 30 300	50	110*	125	70	1968	2500

\*The maximum bore on these clutches is only possible with keyways to DIN 6885 sheet 3

## CS Standard Series Couplings - Dimensions

Models CSF/CSY and CSL/CSZ	Dimensions															
	G	H	J	K	L	L <sub>1</sub>	N	R	S	T	T <sub>1</sub>	T <sub>2</sub>	U	W	Y	Z
20A-CC	50.0	9	3.0	7.50	38.5	86.0	34.5	55	67	46	3.0	7	33	38.5	2	0.1
25A-CC	72.5	9	6.0	11.50	52.0	137.5	48.0	82	112	79	3.5	8	50	54	2	0.1
35A-CC	90.5	9	5.0	12.00	61.0	147.0	56.0	100	112	79	4.0	10	60	70	2	0.1
45A-CC	112.0	10	8.5	21.00	78.0	176.5	73.0	120	128	90	4.0	10	70	84	2	0.1
55A-CC	140.0	9	11.0	27.00	100.0	211.5	93.5	146	148	90	5.5	13	70	108	2	0.1
55A(R)-CC	140.0	9	11.0	27.00	100.0	257.0	93.5	146	198	140	5.5	13	90	108	2	0.1
65A-CC	170.0	9	12.0	33.00	113.5	242.5	107.0	176	177	107	5.5	13	90	129	2	0.1
65A-CC(1000Nm+)	170.0	9	12.0	33.00	113.5	272.0	107.0	176	198	140	5.5	13	90	129	2	0.1
65A(R)-CC	170.0	9	12.0	33.00	113.5	312.0	107.0	176	225	180	5.5	13	113	129	2	0.1
80(not CSZ)-A-CC	190.0	9	14.0	39.00	119.0	299.5	183.0	112	225	180	15.0	24	113	150	2	0.1
CSZ 80A-CC	190.0	9	29.0	53.00	134.0	314.5	198.0	127	225	180	15.0	24	113	150	2	0.1
100(not CSZ)-A-CC	230.0	9	15.0	46.00	141.0	339.0	213.0	133	255	200	21.0	30	127	186	2	0.1
CSZ 100A-CC	230.0	9	33.0	64.00	159.0	357.0	231.0	151	255	200	21.0	30	127	186	2	0.1

For details on Limit Switch location and operation refer to page 29. Always use limit switch for long service life.

\*For clutch Part No. for ordering refer to page 27.

Tel: + 44 121 360 0155

Fax: + 44 121 325 1079

Email: sales@crossmorse.com