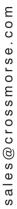
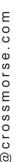
Clamping Elements Type RCK 50





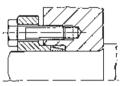
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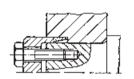












These shaft clamping elements consist of just two conical rings which require the minimum of radial space, so providing compact assemblies, and enabling use within small hub diameters. The design offers the maximum versatility of design, but does require the customer to provide their own thrust ring assembly. Whilst only providing low torque transmission per unit they can be combined (up to 4 units) to increase torque capacity. When fully clamped these units provide excellent gastight sealing. Many designs of thrust rings are possible and sketches to the left are two typical designs. These units do not self centre, so require external means of centring the

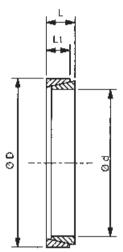
Recommended tolerances for full torque transmission are:-

Up to 38m shaft Ø:-	Shaft	h6
40mm and above shaft Ø:-	Hub Shaft	H7 h8
	Hub	H8

Clamping surfaces to be finished to $Rz \le 15 \mu m$.

Factor for combining elements in one assembly.

N. 1 (77)	T
Number of Elements	Torque Capacity
2	Torque Capacity 1.55M Nm
3	1.86M Nm
4	2.03M Nm



Dimensions

		Dimensi	ons mm		Torque	Axial Force	Surface Pressure		Axial Force necessary	Approx. Weight	Min. Hub Dia* mm		
Part No. †	d	D	L	Lı	Cap. M Nm	F F kN	Shaft Ps N/mm ²	Hub Ph N/mm²	to clamp kN	gms	Assy Type A	Assy Type B	Assy Type C
RCK50-6x9	6	9	4.5	3.7	2.4	0.8	115	75	3.8	1.2	11.5	10.9	10.4
RCK50-7x10	7	10	4.5	3.7	3.0	0.9	105	70	3.9	1.4	12.5	12.0	11.5
RCK50-8x11	8	11	4.5	3.7	4.7	1.2	120	90	5.3	1.5	14.7	13.9	13.1
RCK50-9x12	9	12	4.5	3.7	7.9	1.8	140	105	15.6	1.7	16.9	15.8	14.7
RCK50-10x13	10	13	4.5	3.7	9.5	1.9	135	105	15.6	1.8	18.3	17.1	15.9
RCK50-12x15	12	15	4.5	3.7	11.4	1.9	115	90	15.6	2.2	20.1	18.9	17.8
RCK50-13x16	13	16	4.5	3.7	13.1	2.0	110	90	15.6	2.3	21.4	20.2	19.0
RCK50-14x18	14	18	6.3	5.3	22.3	3.2	115	90	25.4	4.9	24.1	22.7	21.4
RCK50-15x19	15	19	6.3	5.3	24.3	3.2	110	85	25.4	5.3	25.0	23.6	22.4
RCK50-16x20	16	20	6.3	5.3	27.3	3.4	105	85	25.4	5.5	26.3	24.9	23.5
RCK50-17x21	17	21	6.3	5.3	29.8	3.5	105	85	25.4	5.8	27.6	26.1	24.7
RCK50-18x22	18	22	6.3	5.3	32.4	3.6	100	80	25.4	6.1	28.5	27.1	25.6
RCK50-19x24	19	24	6.3	5.3	49.0	5.2	140	110	36.0	7.8	34.4	31.9	29.6
RCK50-20x25	20	25	6.3	5.3	53.0	5.3	135	105	36.0	8.2	35.2	32.8	30.6
RCK50-22x26	22	26	6.3	5.3	66.0	6.0	135	115	36.0	7.3	37.9	35.0	32.4
RCK50-24x28	24	28	6.3	5.3	73.0	6.1	130	110	36.0	8.0	40.1	37.2	34.6
RCK50-25x30	25	30	6.3	5.3	72.0	5.8	115	95	36.0	10.1	40.8	38.3	36.0
RCK50-28x32	28	32	6.3	5.3	86.0	6.1	115	100	36.0	9.2	44.3	41.4	38.7
RCK50-30x35	30	35	6.3	5.3	91.0	6.1	100	85	36.0	12.0	46.0	43.5	41.2
RCK50-32x36	32	36	6.3	5.3	131.0	8.2	130	115	45.0	10.0	52.5	48.4	44.9
RCK50-35x40	35	40	7	6.0	171.0	9.8	125	110	54.0	17.0	57.3	53.1	49.4
RCK50-36x42	36	42	7	6.0	169.0	9.4	115	100	54.0	20.0	58.1	54.3	50.8
RCK50-38x44	38	44	7	6.0	181.0	9.5	110	95	54.0	21.0	59.8	56.1	52.7
RCK50-40x45	40	45	8	6.6	231.0	11.6	115	105	66.0	23.0	63.3	58.9	55.0
RCK50-42x48	42	48	8	6.6	235.0	11.2	110	95	66.0	28.0	65.2	61.2	57.5
RCK50-45x52	45	52	10	8.6	390.0	19.0	116	105	110.0	42.0	73.2	68.1	63.5
RCK50-48x55	48	55	10	8.6	572.0	23.8	155	135	132.0	45.0	86.3	78.2	71.3
RCK50-50x57	50	57	10	8.6	602.0	24.1	150	130	132.0	47.0	87.8	79.9	73.1
RCK50-55x62	55	62	10	8.6	670.0	24.4	140	125	132.0	50.0	93.7	85.7	78.8
RCK50-56x24	56	64	12	10.4	790.0	28.2	130	115	158.0	67.0	93.3	86.1	79.7
RCK50-60x68	60	68	12	10.4	860.0	28.7	125	110	158.0	72.0	97.4	90.2	83.9
RCK50-63x71	63	71	12	10.4	945.0	30.0	125	110	160.0	76.0	101.6	94.2	87.6
RCK50-65x73 RCK50-70x79 RCK50-71x80 RCK50-75x84 RCK50-80x91	65 70 71 75 80	73 79 80 84 91	12 14 14 14 17	10.4 12.2 12.2 12.2 14.8	1000 1300 1340 1500 2100	30.8 37.1 37.7 40.0 52.5	125 125 125 125 125 125	110 110 110 110 110	160 200 200 220 220 300	78 110 114 118 187	104.5 113.1 114.5 120.2 130.3	96.9 104.8 106.1 111.4 120.7	90.0 97.4 98.7 103.6 112.2

^{*}Minimum outside diameter of hubs manufactured in medium carbon steels with yield strength ≥ 320 N/mm². For hub types, and other materials, refer to page 3.

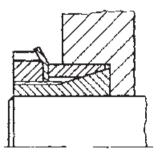
For assembly and disassembly instructions refer to page 24.

† Clamping Rings for shafts up to 200mm diameter are available to order.

Clamping Elements Types CCE 54 and CCE 55







These clamping elements use a single lock nut to apply the clamping pressure, thereby enabling quick assembly and removal. The lock nut can be secured in postition by bending over a tab of lock washer. The thin walls of the clamping cones, combined with low hub pressures enables use with soft materials, such as aluminium, and small hub diameters.

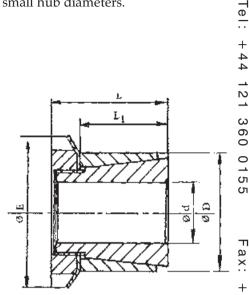
Use type CCE 54 where axial space is restricted and torque is low.

Type CCE 55 is for higher torque transmission.

Recommended tolerances for full torque transmission are:-

Shaft h8 Hub H8

Clamping surfaces to be finished to $Rz \le 15 \mu m$.



Dimensions

Dimensions mm			Torque	Axial	Surface Pressure			Locking N		Min. Hub Dia* mm					
Part No.	d	D	D ₂	L	L ₁	Cap. M Nm	Force F kN	Shaft Ps N/mm²	Hub Ph N/mm²	Туре	Thread	Torque Nm	Assy Type A	Assy Type B	Assy Type C
CCE54-14x25	14	25	32	16.5	6.5	52	7	241	135	KM4	M20	95	39	36	32
CCE54-15x25	15	25	32	16.5	6.5	56	7	225	135	KM4	M20	95	39	36	32
CCE54-16x25	16	25	32	16.5	6.5	60	8	211	135	KM4	M20	95	39	36	32
CCE54-17x25	17	25	38	17.5	6.5	63	7	118	80	KM5	M25	160	32	31	29
CCE54-18x30	18	30	38	17.5	6.5	91	10	257	154	KM5	M25	160	51	45	40
CCE54-19x30 CCE54-19x30 CCE54-20x30 CCE54-24x35 CCE54-25x35 CCE54-28x40	19 20 24 25 28	30 30 35 35 40	38 38 45 45 52	17.5 17.5 17.5 17.5 17.5	6.5 6.5 6.5 6.5 6.5	96 102 139 144 215	10 10 10 12 12 15	243 231 219 210 249	154 154 150 150 174	KM5 KM5 KM6 KM6 KM7	M25 M25 M30 M30 M35	160 160 220 220 340	51 51 58 58 74	45 45 52 52 64	40 40 47 47 47 56
CCE54-30x40	30	40	52	20.0	8.0	230	15	188	141	KM7	M35	340	64	58	52
CCE54-32x45	32	45	58	22.0	9.0	210	13	113	80	KM8	M40	320	58	55	52
CCE54-35x45	35	45	58	22.0	9.0	331	19	199	155	KM8	M40	480	76	68	61
CCE54-40x50	40	50	65	25.0	10.0	477	24	176	141	KM9	M45	680	80	72	66
CCE54-45x55	45	55	70	26.0	10.0	617	27	180	147	KM10	M50	870	90	81	73
CCE54-48x60	48	60	75	26.0	10.0	669	28	171	137	KM11	M55	970	95	86	78
CCE54-50x60	50	60	75	26.0	10.0	697	28	164	137	KM11	M55	970	95	86	78
CCE54-55x65	55	65	80	28.0	12.0	796	29	129	109	KM12	M60	1100	93	86	80
CCE54-60x70	60	70	85	29.0	12.0	946	32	130	111	KM13	M65	1300	101	93	86
CCE54-70x84	70	84	98	29.5	13.5	1433	41	127	106	KM15	M75	2000	119	110	103
CCE55-14x25 CCE55-15x25 CCE55-16x25 CCE55-17x25	14 15 16 17	25 25 25 25 25	32 32 32 38	29 29 29 31	17 17 17 18	90 100 80 113	13 13 10 13	143 133 94 103	80 80 60 70	KM4 KM4 KM4 KM5	M20 M20 M20 M20 M25	90 90 70 90	32 32 30 31	31 31 29 30	29 29 28 29
CCE55-18x30	18	30	38	33	20	100	11	75	45	KM5	M25	160	35	34	33
CCE55-19x30	19	30	38	33	20	105	11	71	45	KM5	M25	160	35	34	33
CCE55-20x30	20	30	38	33	20	112	11	68	45	KM5	M25	160	35	34	33
CCE55-24x35	24	35	45	38	25	178	15	66	45	KM6	M30	220	40	39	38
CCE55-25x35	25	35	45	38	25	185	15	63	45	KM6	M30	220	40	39	38
CCE55-28x40	28	40	52	44	30	250	18	57	40	KM7	M35	340	45	44	43
CCE55-30x40	30	40	52	44	30	270	18	53	40	KM7	M35	340	45	44	43
CCE55-32x45	32	45	58	4	28	420	26	98	70	KM8	M40	320	56	54	51
CCE55-35x45	35	45	58	45	30	390	22	58	45	KM8	M40	480	52	50	49
CCE55-40x50 CCE55-45x55 CCE55-50x60 CCE55-55x65 CCE55-60x70	40 45 50 55 60	50 55 60 65 70	65 70 75 80 85	46 47 47 48 50	30 30 30 30 30 30	620 580 880 1030 1360	31 26 35 37 45	56 61 60 59 64	45 50 50 50 50 55	KM9 KM10 KM11 KM12 KM13	M45 M50 M55 M60 M65	680 870 970 1100 1300	58 64 70 76 83	56 62 68 74 80	54 60 66 71 78

^{*}Minimum outside diameter of hubs manufactured in medium carbon steels with yield strength ≥ 320 N/mm². For hub types, and other materials, refer to page 3. For assembly and disassembly instructions refer to page 24.