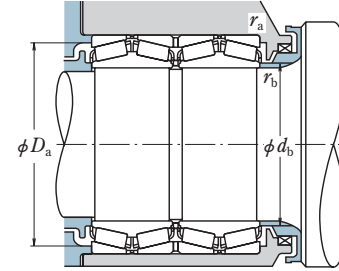
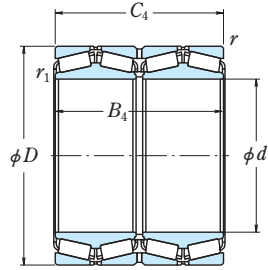


FOUR-ROW TAPERED ROLLER BEARINGS

KV (TQ0) Type

Bore Diameter 595 – 657.225 mm



Dynamic Equivalent Load

$$P = XF_r + YF_a$$

$F_a/F_r \leq e$		$F_a/F_r > e$	
X	Y	X	Y
1	Y_3	0.67	Y_2

Static Equivalent Load

$$P_0 = F_r + Y_0 F_a$$

Where $Y_0 = Y_3$

The values of e , Y_2 , and Y_3 are given in the table below.

d	Boundary Dimensions (mm/inch)				Basic Load Ratings (kN) (kgf)			
	D	B_4	C_4	r_1 min. / r min.	C_r	C_{0r}	C_r	C_{0r}
595	845	615	615	6 / 6	13 700	38 000	1 400 000	3 850 000
595.312 23.4375	844.550 33.2500	615.950 24.2500	615.950 24.2500	3.3 / 6.4	13 300	36 500	1 360 000	3 750 000
600	855	620	620	6 / 6	13 900	38 500	1 420 000	3 900 000
	870	415	415	6 / 6	9 250	21 700	940 000	2 210 000
	980	615	615	7.5 / 7.5	16 600	36 500	1 690 000	3 750 000
603.250 23.7500	857.250 33.7500	622.300 24.5000	622.300 24.5000	3.3 / 6.4	13 900	37 000	1 420 000	3 800 000
609.600 24.0000	787.400 31.0000	361.950 14.2500	361.950 14.2500	3.3 / 6.4	6 700	18 700	680 000	1 910 000
	813.562 32.0300	479.425 18.8750	479.425 18.8750	3.3 / 6.4	9 950	28 200	1 010 000	2 880 000
	863.600 34.0000	660.400 26.0000	660.400 26.0000	3.3 / 6.4	14 700	41 000	1 500 000	4 200 000
611.500 24.0748	832.800 32.7874	593.720 23.3748	593.720 23.3748	3.3 / 6.4	13 300	38 000	1 360 000	3 850 000
630	890	650	650	7.5 / 7.5	15 400	43 000	1 570 000	4 400 000
	920	440	440	7.5 / 7.5	10 600	25 500	1 090 000	2 600 000
	920	457.2	457.2	4 / 3	10 600	25 400	1 080 000	2 590 000
	920	600	600	7.5 / 7.5	15 000	38 500	1 530 000	3 950 000
	1 030	645	645	7.5 / 7.5	18 400	42 500	1 880 000	4 350 000
635	900	655	655	7.5 / 7.5	15 800	44 500	1 610 000	4 550 000
	900	660	660	5 / 6	15 500	43 500	1 580 000	4 400 000
635.000 25.0000	901.700 35.5000	654.050 25.7500	654.050 25.7500	3.3 / 6.4	15 500	43 500	1 580 000	4 400 000
646.112 25.4375	857.250 33.7500	542.925 21.3750	542.925 21.3750	3.3 / 6.4	11 500	34 500	1 170 000	3 550 000
650	1 030	560	560	7.5 / 7.5	15 700	35 500	1 600 000	3 650 000
655	935	675	675	7.5 / 7.5	16 600	45 000	1 690 000	4 600 000
657.225 25.8750	933.450 36.7500	676.275 26.6250	676.275 26.6250	3.3 / 6.4	16 600	45 000	1 690 000	4 600 000

Bearing Numbers	Figure ⁽¹⁾	Abutment and Fillet Dimensions (mm)				Constant e	Axial Load Factors		Mass (kg) approx.	Reference Bearing Numbers
		d_b	D_a	r_a max.	r_b max.		Y_2	Y_3		
595KV895	2	633	791	5	5	0.33	3.0	2.0	1 140	—
*595KV8451	2	630	790	6.4	3.3	0.33	3.0	2.0	1 140	M280049D-010-010D
600KV895	2	643	791	5	5	0.33	3.0	2.0	1 170	—
600KV80A	2	643	817	5	5	0.37	2.7	1.8	842	—
600KV81	2	680	905	6	6	0.39	2.6	1.7	1 890	—
*603KV8551	2	635	802	6.4	3.3	0.33	3.0	2.0	1 190	M280249D-210-210XD
*609KV7851A	2	633	744	6.4	3.3	0.48	2.1	1.4	454	EE649241D-310-311D
*609KV8152	2	637	768	6.4	3.3	0.33	3.0	2.0	718	—
*609KV8651	2	648	807	6.4	3.3	0.33	3.0	2.0	1 260	M280349D-310-310D
*611KV8351	2	639	783	6.4	3.3	0.33	3.0	2.0	981	—
630KV895	2	674	825	6	6	0.33	3.0	2.0	1 310	—
630KV80	2	690	860	6	6	0.37	2.7	1.8	1 010	—
630KV9201	2	676	865	2.5	3	0.37	2.7	1.8	1 060	—
630KV9202	1	670	858	6	6	0.36	2.8	1.9	1 360	—
630KV81	2	720	945	6	6	0.37	2.7	1.8	2 190	—
635KV895	2	695	840	6	6	0.33	3.0	2.0	1 360	—
635KV9001	2	673	843	5	4	0.33	3.0	2.0	1 380	—
*635KV9051	2	671	843	6.4	3.3	0.33	3.0	2.0	1 380	M281049D-010-010D
*646KV8551	2	678	810	6.4	3.3	0.33	3.0	2.0	880	LM281049DW-010-010D
650KV1001	2	715	958	6	6	0.31	3.2	2.1	1 830	—
655KV895	2	705	870	6	6	0.33	3.0	2.0	1 530	—
*657KV9351	2	693	875	6.4	3.3	0.33	3.0	2.0	1 520	M281649D-610-610D

Note * Bearings marked * are inch design.

(1) Refer to page B 343