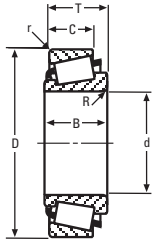
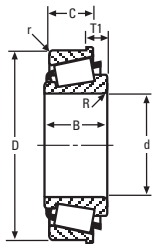


M88000 – HM89400 SERIES

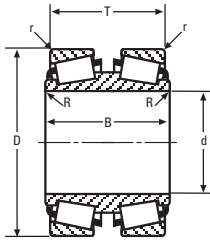
5



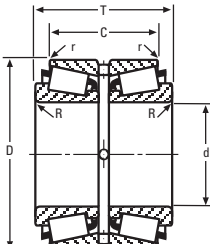
SINGLE ROW



SINGLE ROW WITH FLANGE



DOUBLE CONE



DOUBLE CUP

CONE			Max Shaft Fillet Radii R ①	Weight	CUP			Max Hs'ng Fillet Radii r ①	Weight	BEARING WIDTH T	Remarks	
Number	BORE d	WIDTH B			Number	OUTSIDE DIA D	WIDTH C					
<b>M88000 Series (cont)</b>												
M88046	31.750 1.2500	22.225 .8750	1.5 .06	.25 kg .54 lb								
M88047	33.338 1.3125	22.225 .8750	5.5 .22	.22 kg .48 lb								
M88048	33.338 1.3125	22.225 .8750	.8 .03	.24 kg .52 lb								
M88048-S	33.338 1.3125	22.225 .8750	4.0 .16	.23 kg .51 lb								
M88048A	33.338 1.3125	22.225 .8750	1.3 .05	.24 kg .52 lb								
<b>HM88500 Series</b>												
†JHM88540	30.000 1.1811	27.783 1.0938	1.3 .05	.40 kg .88 lb	HM88510	73.025 2.8750	23.020 .9063	3.3 .13	.23 kg .52 lb	29.370 1.1563	HM88547V: MADE FROM VACUUM MELT STEEL HM88510V: MADE FROM VACUUM MELT STEEL	
HM88542	31.750 1.2500	27.783 1.0938	1.3 .05	.38 kg .84 lb	*HM88510V	73.025 2.8750	23.020 .9063	3.3 .13	.23 kg .52 lb	29.370 1.1563		
HM88547	33.338 1.3125	27.783 1.0938	.8 .03	.36 kg .80 lb	HM88511	73.025 2.8750	23.020 .9063	.8 .03	.24 kg .54 lb	29.370 1.1563		
*HM88547V	33.338 1.3125	27.783 1.0938	.8 .03	.36 kg .80 lb	HM88512	73.812 2.9060	23.020 .9063	3.3 .13	.25 kg .55 lb	29.370 1.1563		
					†JHM88513	72.000 2.8346	23.020 .9063	3.3 .13	.21 kg .47 lb	29.370 1.1563		
<b>HM88600 Series</b>												
HM88630	25.400 1.0000	25.400 1.0000	.8 .03	-	HM88610	72.233 2.8438	19.842 .7812	2.3 .09	.18 kg .41 lb	25.400 1.0000		
HM88638	31.986 1.2593	25.400 1.0000	3.3 .13	-	HM88610A	72.233 2.8438	19.842 .7812	.8 .03	.19 kg .42 lb	25.400 1.0000		
HM88644	31.750 1.2500	25.400 1.0000	1.5 .06	-	HM88610P	72.233 2.8438	19.842 .7812	2.3 .09	.18 kg .41 lb	25.400 1.0000		
HM88644A	31.750 1.2500	25.400 1.0000	.6 .03	-	HM88611	71.973 2.8336	21.443 .8442	1.5 .06	.21 kg .47 lb	27.000 1.0630		
HM88648	35.717 1.4062	25.400 1.0000	3.5 .14	-	HM88611AS	72.626 2.8593	19.842 .7812	3.3 .13	.19 kg .41 lb	25.400 1.0000		
HM88649	34.925 1.3750	25.400 1.0000	2.3 .09	-	HM88612	73.025 2.8750	20.985 .8262	2.3 .09	.22 kg .48 lb	26.543 1.0450		
HM88649A	34.925 1.3750	25.400 1.0000	3.5 .14	-	HM88613	73.025 2.8750	21.443 .8442	1.5 .06	.23 kg .50 lb	27.000 1.0630		
HM88649C	34.925 1.3750	25.400 1.0000	2.3 .09	-								
HM88649H	34.925 1.3750	25.400 1.0000	2.3 .09	-								
HM88649HP	34.925 1.3750	25.400 1.0000	2.3 .09	-								
<b>89000 Series</b>												
89108D	276.225 10.8750	88.900 3.5000	3.3 .13	24.15 kg 53.26 lb	89148	381.000 15.0000	36.512 1.4375	3.3 .13	5.38 kg 11.87 lb	95.251 3.7501		
89111D	279.578 11.0070	88.900 3.5000	3.3 .13	23.15 kg 51.04 lb	89150	381.000 15.0000	44.450 1.7500	6.4 .25	7.02 kg 15.48 lb	111.126 4.3751		
<b>HM89200 Series</b>												
HM89249	36.512 1.4375	28.829 1.1350	3.5 .14	.44 kg .98 lb	HM89210	79.375 3.1250	22.664 .8923	3.3 .13	.26 kg .56 lb	29.370 1.1563		
<b>HM89400 Series</b>												
HM89440	31.750 1.2500	28.575 1.1250	.8 .03	.44 kg .97 lb	HM89410	76.200 3.0000	23.020 .9063	3.3 .13	.25 kg .55 lb	29.369 1.1563	HM89410-B: FLANGE ON OD FRONT FACE, BEARING WIDTH IS T1 DIMENSION	
HM89443	33.338 1.3125	28.575 1.1250	.8 .03	.42 kg .93 lb	*HM89410-B	76.200 3.0000	23.020 .9063	3.3 .13	.26 kg .58 lb	11.112 .4375		
HM89444	33.338 1.3125	28.575 1.1250	3.8 .15	.42 kg .92 lb	HM89410P	76.200 3.0000	23.020 .9063	3.3 .13	.25 kg .55 lb	29.369 1.1563		
HM89446	34.925 1.3750	28.575 1.1250	3.5 .14	.40 kg .87 lb	HM89411	76.200 3.0000	23.020 .9063	.8 .03	.26 kg .57 lb	29.369 1.1563		
HM89446A	34.925 1.3750	28.575 1.1250	.8 .03	.40 kg .89 lb								
HM89446P	34.925 1.3750	28.575 1.1250	3.5 .14	.40 kg .87 lb								
HM89448	36.512 1.4375	28.575 1.1250	.8 .03	.38 kg .84 lb								

HM89400 SERIES CONTINUED ON NEXT PAGE

①These Maximum Fillet Radii will be cleared by the Cone or Cup Radii.  
†Bore or O.D. shown are maximum dimensions. \*See Remarks Column.

CONE			Max Shaft Fillet Radii R ①	Weight	CUP			Max Hs'ng Fillet Radii r ①	Weight	BEARING	Remarks
Number	BORE d	WIDTH B			Number	OUTSIDE DIA D	WIDTH C			WIDTH T	
HM89400 Series (cont)											
HM89449	36.512 1.4375	28.575 1.1250	3.5 .14	.38 kg .83 lb							
90000 Series											
†J90354	90.000 3.5433	46.038 1.8125	3.5 .14	4.18 kg 9.22 lb	90744	188.912 7.4375	31.750 1.2500	3.3 .13	1.87 kg 4.12 lb	50.800 2.0000	
90381	96.838 3.8125	46.038 1.8125	3.5 .14	3.82 kg 8.42 lb	†J90748	190.000 7.4803	31.750 1.2500	3.3 .13	1.95 kg 4.29 lb	50.800 2.0000	
90334	85.000 3.3465	52.761 2.0772	3.5 .14	4.79 kg 10.56 lb	90334 may be paired with all single cups corresponding to J90354 and will require 2.497 mm (.0983 in) to be added to the T-width values.						
91000 Series											
EE91700D	177.800 7.0000	106.362 4.1875	1.5 .06	19.34 kg 42.64 lb	91112	285.750 11.2500	41.275 1.6250	3.3 .13	4.35 kg 9.60 lb	106.360 4.1874	
*EE91701TD	177.800 7.0000	125.412 4.9375	1.5 .06	20.65 kg 45.53 lb							
EE91702	177.800 7.0000	63.500 2.5000	6.4 .25	9.05 kg 19.96 lb	91112	285.750 11.2500	41.275 1.6250	3.3 .13	4.35 kg 9.60 lb	63.500 2.5000	
					91113XD	285.750 11.2500	92.075 3.6250	1.5 .06	10.49 kg 23.13 lb	136.525 5.3750	
93000 Series											
93708	179.974 7.0856	63.500 2.5000	3.5 .14	15.38 kg 33.90 lb	93125	317.500 12.5000	46.038 1.8125	3.3 .13	5.98 kg 13.18 lb	63.500 2.5000	
93750	190.500 7.5000	63.500 2.5000	4.3 .17	13.84 kg 30.52 lb	*93125-B	317.500 12.5000	46.038 1.8125	3.3 .13	6.48 kg 14.29 lb	28.575 1.1250	
93775	196.850 7.7500	63.500 2.5000	4.3 .17	12.88 kg 28.40 lb	*93125V	317.500 12.5000	46.038 1.8125	3.3 .13	6.00 kg 13.23 lb	63.500 2.5000	
*93778T	203.093 7.9958	63.500 2.5000	4.3 .17	11.99 kg 26.44 lb	93126	317.500 12.5000	50.800 2.0000	3.3 .13	6.88 kg 15.16 lb	68.262 2.6875	
93787	200.025 7.8750	63.500 2.5000	4.3 .17	12.39 kg 27.31 lb	*93127CD	317.500 12.5000	111.125 4.3750	1.5 .06	15.04 kg 33.16 lb	146.050 5.7500	
93800	203.200 8.0000	63.500 2.5000	4.3 .17	11.89 kg 26.21 lb	*93127DW	317.500 12.5000	130.175 5.1250	1.5 .06	16.05 kg 35.39 lb	146.050 5.7500	
93800A	203.200 8.0000	63.500 2.5000	8.0 .31	11.78 kg 25.96 lb	93128XD	319.976 12.5975	111.125 4.3750	1.5 .06	15.73 kg 34.68 lb	146.050 5.7500	
93800W	203.200 8.0000	63.500 2.5000	4.3 .17	11.78 kg 25.98 lb	†J93129A	320.000 12.5984	46.038 1.8125	3.3 .13	6.42 kg 14.17 lb	63.500 2.5000	
93806A	204.788 8.0625	63.500 2.5000	4.3 .17	11.64 kg 25.66 lb							
93812	206.375 8.1250	63.500 2.5000	4.3 .17	11.38 kg 25.09 lb							
93825	209.550 8.2500	63.500 2.5000	4.3 .17	10.87 kg 23.96 lb							
93825A	209.550 8.2500	63.500 2.5000	12.7 .50	10.48 kg 23.11 lb							
*93825V	209.550 8.2500	63.500 2.5000	4.3 .17	10.87 kg 23.96 lb							
*93827T	209.974 8.2667	63.500 2.5000	4.3 .17	10.90 kg 24.03 lb							
93751D	190.500 7.5000	133.350 5.2500	6.4 .25	34.57 kg 76.23 lb	93125	317.500 12.5000	46.038 1.8125	3.3 .13	5.98 kg 13.18 lb	133.350 5.2500	
*93751DW	190.500 7.5000	133.350 5.2500	6.4 .25	34.57 kg 76.23 lb	*93125V	317.500 12.5000	46.038 1.8125	3.3 .13	6.00 kg 13.23 lb	133.350 5.2500	
93788D	199.974 7.8730	133.350 5.2500	6.4 .25	31.54 kg 69.54 lb	93126	317.500 12.5000	50.800 2.0000	3.3 .13	6.88 kg 15.16 lb	142.875 5.6250	
93801D	203.200 8.0000	133.350 5.2500	6.4 .25	29.93 kg 65.99 lb	†J93129A	320.000 12.5984	46.038 1.8125	3.3 .13	6.42 kg 14.17 lb	133.350 5.2500	
NA93800	203.200 8.0000	73.025 2.8750	5.5 .22	24.95 kg 55.02 lb	*93127CD	317.500 12.5000	111.125 4.3750	1.5 .06	15.04 kg 33.16 lb	146.050 5.7500	
*NA93800-SW	203.200 8.0000	73.025 2.8750	5.5 .22	25.32 kg 55.82 lb	*93127DW	317.500 12.5000	130.175 5.1250	1.5 .06	16.05 kg 35.39 lb	146.050 5.7500	

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†Bore or O.D. shown are maximum dimensions. \*See Remarks Column.