

Common Spherical Roller Bearing Modifications

TIMKEN	SKF	FAG	NSK	TIMKEN GENERAL DEFINITION
CJ	CC, CJ	J	C, CD	Spherical with stamped steel cage
YM	M2	M	CAM, M	One-piece roller-riding machined brass cage
YMB	MC	MB	—	One-piece inner-riding piloted machined brass cage
C02	C02	T52BE	P53	Inner ring with P5 running accuracy, W4 (SKF does not include W4)
C02 C3	C023	C3.T52BE	—	Inner ring with P5 running accuracy, C3 RIC
C02 C4	C024	C4.T52BE	—	Inner ring with P5 running accuracy, C4 RIC
C04	C04	T52BN	P52	Outer ring with P5 running accuracy, W4 (SKF does not include W4)
C04 C3	C043	C3.T52BN	—	Outer ring with P5 running accuracy, C3 RIC
C04 C4	C044	C4.T52BN	—	Outer ring with P5 running accuracy, C4 RIC
C08	C08	T52BW C02	P55	P5 running accuracy (C02 and C04)
C08 C3	C083	C3.T52BW	—	P5 running accuracy (C02 and C04), C3 RIC
C08 C4	C084	C4.T52BW	—	P5 running accuracy (C02 and C04), C4 RIC
C6	C6	—	—	Special RIC nonspecific
K	K	K	K	Tapered bore (1:12 on diameter 22, 23, 30, 31, 32, 33, 39 series)
K	K30	K30	—	Tapered bore (1:30 on diameter 40, 41, 42 series)
W4	W4	J26A	—	Mark high and low points of eccentricity on face of rings
W6R	—	—	—	Engineered coating on rollers to combat low lube or abrasive contamination
W8	—	—	—	Rings and rollers Timken® TDC™-coated
W20	W20	SY	E3	Outer ring with standard lubrication holes
W22	W22	700855	—	Special reduced OD tolerance on outer rings
W25	W73	—	—	Outer ring with counterdrilled lubrication hole
W31	W31	—	U22	Bearing inspected to certain quality control requirements
W33	W33	S	E4	Standard lubrication holes and groove in outer ring (FAG drops S from number for sizes larger than 315mm OD)
W33 W4	W503	S + J26A	—	Timken and FAG drop W33 W4 in conjunction with C08, W507
W33 W22 W31	W512 (W22 + W31 + W33)	S + 700855	—	Timken and FAG drop W31 in conjunction with C02, C04 and C08
W33 W94	W513 (W26 + W33)	S + H40A	E7	See other component descriptions
W37	—	—	—	Special surface finish
W40I	ECB (Prefix)	W209B	G3	Inner ring only made of carburizing-grade steel
W40R	—	—	—	Rollers only made of carburizing-grade steel
W45A	W61	—	—	Tapped lifting holes in face of outer ring
W47	—	—	—	Inner ring with oversize bore
W84	W77	H44S (H40)*	E42	Outer ring with standard lubrication holes plugged
W88	—	—	—	Special reduced bore tolerance on inner ring
W93	—	—	—	Inner ring with keyway in bore
W94	W26	H40A	E5	Inner ring lubrication holes and retainer face grooves
W502	W502 (W22 + W33)	S + 700855	—	W22, W33 and W45A (where feasible)
W507	W507 (W4 + W31 + W33)	S +	E4P53	W31, W33 and W45A (where feasible)
W509	W509 (W26 + W31 + W33)	S.H40A + ...	E7U22	W31, W33, W94 and W45A (where feasible)
W525	W525 (W31 + W77)	S.H44S (H40)*	—	W31, W33, W84 and W45A (where feasible)
W534	W534 (C08 + W507)	—	—	W507 and C08
W800	VA405	T41A	—	W22 + W88 + radial internal clearance in upper two-thirds of specified range (shaker screen modification)
W841	—	—	—	W31 + plain OD (continuous caster modification)
W886A	—	—	—	W33X + W37 + W45A (slow-speed, high-load applications)
W886B	—	—	—	W886 with metric tapped holes (slow-speed, high-load applications)
W906A	—	—	—	C02 + C04 + W31 + W33 + W40I + W40R (offered on tapered bore product; supercedes W507A, W534A)

*FAG uses H40, which is a plain OD.

Although all data in this chart has been compiled to make the information as complete as possible, Timken cannot assume any responsibility for errors, omissions or accuracy of the published data.