MODIFICATION CODES

TIMKEN

TIMKEN[1]	TIMKEN DEFINITION	SKF[2]	FAG[3]	NSK[4]
EJ[5]	**Stamped nitrided steel cage – High Performance**	E, EJA, C, CC, CCJA, EC, ECC	E1	EA, C, CD
EM[5]	**One-piece, roller-riding, machined-brass cage – High Performance**	CA, ECA, CAMA	M	CA
EMB	**One-piece, inner-ring-piloted, machined-brass cage – High Performance**	CA, ECA, CAMA	MB	CA
YMB	**One-piece, inner-ring-piloted, machined-brass cage**	CA, ECA, CAMA	MB	CA
YMD	**Two-piece, inner-ring-piloted, machined-brass cage**	—	—	—
S1[6]	**Bearing rings dimensionally stabilized for use at operating temperatures up to 200° C (392° F)**	S1	S1	S11
S2	**Bearing rings dimensionally stabilized for use at operating temperatures up to 250° C (482° F)**	S2	S2	—
S3	**Bearing rings dimensionally stabilized for use at operating temperatures up to 300° C (572° F)**	S3	S3	—
S4	**Bearing rings dimensionally stabilized for use at operating temperatures up to 350° C (662° F)**	S4	S4	—
C02	**Inner ring with P5 running accuracy, high point of eccentricity marked**	C02	T52BE	P5B, P53
C04	**Outer ring with P5 running accuracy, high point of eccentricity marked**	C04	T52BN	P5C, P52
C08	**P5 running accuracy (C02 and C04)**	C08	T52BW	P55
C08 C3	**P5 running accuracy (C02 and C04), C3 RIC**	C083	C3.T52BW	P55, C3
C08 C4	**P5 running accuracy (C02 and C04), C4 RIC**	C084	C4.T52BW	P55, C4
K	**Tapered bore (1:12 on diameter 22, 23, 30, 31, 32, 33, 39 series)**	K	K	K
K	**Tapered bore (1:30 on diameter 40, 41, 42 series)**	K30	K30	K30
W4	**Inner ring or sleeve marked to show high point of eccentricity**	W4	J26A	—
W6R	**Engineered coating on rollers to combat low lube or abrasive contamination**	L5DA	J48BB	—
W8	**Rings and rollers Timken-coated with Thin Dense Chrome™ – a corrosion-resistant coating**	—	—	—
W20	**Outer ring with standard lubrication holes, but no lubrication groove**	W20	SY	E3
W22	**Special reduced O.D. tolerance on outer rings**	W22	T50H	S(a,b)
W25	**Outer ring with counter drilled lubrication hole**	W73	—	—
W31	**Bearing inspected to certain quality control requirements**	W31	—	U22
W33	**Standard lubrication holes and groove in outer ring (FAG drops S from number for sizes larger than 315 mm O.D.)**	W33	S	E4
W33X	**Outer ring same as W33 but has six holes**	W33X	H40CA	—
W37	**Special RMS finish (MG or Yankee dryer modification)**	—	—	—
W40I	**Inner ring only made of carburizing grade steel**	ECB (Prefix) or HA3	W209B	g3
W40R	**Rollers only made of carburizing grade steel**	—	—	g1
W45A	**Tapped lifting holes in face of outer ring**	W61 or VE553	—	—
W84	**Outer ring with standard lubrication holes plugged**	W77	H44S, H40	E42
W88	**Special reduced bore tolerance on inner ring**	—	—	—
W93	**Inner ring with keyway in bore**	—	—	—
W94	**Inner ring lubrication holes and retainer face grooves (SKF and FAG – no retainer)**	W26	H40AB	E5
W502	**W22, W33 and W45A (where feasible)**	W502 (W22 + W33)	S + TSOH	—
W507	**W31, W33 and W45A (where feasible)**	W507 (W31 + W33)	S +	E4U22, E4P53
W509	**W31, W33, W94 and W45A (where feasible)**	W509 (W26 + W31 + W33)	S.H40A +	E7U22
W525	**W31, W33, W84 and W45A (where feasible)**	W525 (W31 + W77)	S.H44S, H40	—
W534	**W507 and C08**	W534 (C08 + W507)	—	—
W906A	**C08 + W31 + W33 + W40R - Modification mainly used in paper industry**	C083HA3	T52BWW209B	TL-series

[1] Timken offers differentiated solutions for many applications. This is only a partial list of common modification codes.
[2] SKF Explorer available in some sizes. Timken High-Performance EJ, EM, EMB Spherical Roller Bearings are interchangeable with SKF Explorer.
[3] FAG X-Life available in some sizes. Timken High-Performance EJ, EM, EMB Spherical Roller Bearings are interchangeable with FAG X-Life.
[4] NSK HPS available in some sizes. Timken High-Performance EJ, EM, EMB Spherical Roller Bearings are interchangeable with NSK HPS.
[5] CJ superseded by EJ. YM superseded by EM.
[6] Standard for all Timken Spherical Roller Bearings.

NOTE: *Every reasonable effort has been made to ensure the accuracy of the information contained in this writing, but no liability is accepted for errors, omissions or for any other reason. SKF Explorer bearing, FAG X-life bearing and NSK HPS are registered trademarks of their respective companies.*

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