NSK, NTN, Koyo and NACHI to FULI Bearing Cross Reference

Generated 18 November 2026 · FULI · https://www.fuli-bearings.com/products/bearing-cross-reference/nsk-ntn-koyo-nachi-cross-reference/

Suffix codes by maker

FULI	NSK	NTN	Koyo	NACHI
Open (6205)	6205	6205	6205	6205
ZZ: shields both sides	ZZ	ZZ	ZZ	ZZE (older numbers: ZZ)
2RS: contact seals both sides	DDU	LLU	2RS	-2NSE (older numbers: -2NSL)
C3 (on request)	6205DDUC3	6205LLUC3	C3 after the seal code	—
Not in FULI catalog: non-contact seals	VV	LLB	2RU	-2NKE

Koyo writes a space between the number and the suffix in its catalog, for example 6205 ZZ and 6205 2RS; the tables below keep that form. Koyo puts the clearance code after the seal code. NTN LLH (low-torque contact seal) and Koyo 2RD (light-contact seal) are not in the FULI catalog, so they are not matched to FULI 2RS. A dash (—) means we do not list a number for that cell; send us the number you have and we will check it.

Shielded bearings: FULI ZZ to NSK, NTN, Koyo, NACHI

FULI	d × D × B mm (FULI catalog)	NSK	NTN	Koyo	NACHI
6000ZZ	10 × 26 × 8	6000ZZ	6000ZZ	6000 ZZ	6000ZZE
6001ZZ	12 × 28 × 8	6001ZZ	6001ZZ	6001 ZZ	6001ZZE
6002ZZ	15 × 32 × 9	6002ZZ	6002ZZ	6002 ZZ	6002ZZE
6003ZZ	17 × 35 × 10	6003ZZ	6003ZZ	6003 ZZ	6003ZZE
6004ZZ	20 × 42 × 12	6004ZZ	6004ZZ	6004 ZZ	6004ZZE
6005ZZ	25 × 47 × 12	6005ZZ	6005ZZ	6005 ZZ	6005ZZE
6006ZZ	30 × 55 × 13	6006ZZ	6006ZZ	6006 ZZ	6006ZZE
6007ZZ	35 × 62 × 14	6007ZZ	6007ZZ	6007 ZZ	6007ZZE
6008ZZ	40 × 68 × 15	6008ZZ	6008ZZ	6008 ZZ	6008ZZE
6009ZZ	45 × 75 × 16	6009ZZ	6009ZZ	6009 ZZ	6009ZZE
6010ZZ	50 × 80 × 16	6010ZZ	6010ZZ	6010 ZZ	6010ZZE
6200ZZ	10 × 30 × 9	6200ZZ	6200ZZ	6200 ZZ	6200ZZE
6201ZZ	12 × 32 × 10	6201ZZ	6201ZZ	6201 ZZ	6201ZZE
6202ZZ	15 × 35 × 11	6202ZZ	6202ZZ	6202 ZZ	6202ZZE
6203ZZ	17 × 40 × 12	6203ZZ	6203ZZ	6203 ZZ	6203ZZE
6204ZZ	20 × 47 × 14	6204ZZ	6204ZZ	6204 ZZ	6204ZZE
6205ZZ	25 × 52 × 15	6205ZZ	6205ZZ	6205 ZZ	6205ZZE
6206ZZ	30 × 62 × 16	6206ZZ	6206ZZ	6206 ZZ	6206ZZE
6207ZZ	35 × 72 × 17	6207ZZ	6207ZZ	6207 ZZ	6207ZZE

FULI	d × D × B mm (FULI catalog)	NSK	NTN	Koyo	NACHI
6208ZZ	40 × 80 × 18	6208ZZ	6208ZZ	6208 ZZ	6208ZZE
6209ZZ	45 × 85 × 19	6209ZZ	6209ZZ	6209 ZZ	6209ZZE
6210ZZ	50 × 90 × 20	6210ZZ	6210ZZ	6210 ZZ	6210ZZE
6211ZZ	55 × 100 × 21	6211ZZ	6211ZZ	6211 ZZ	6211ZZE
6212ZZ	60 × 110 × 22	6212ZZ	6212ZZ	6212 ZZ	6212ZZE
6300ZZ	10 × 35 × 11	6300ZZ	6300ZZ	6300 ZZ	6300ZZE
6301ZZ	12 × 37 × 12	6301ZZ	6301ZZ	6301 ZZ	6301ZZE
6302ZZ	15 × 42 × 13	6302ZZ	6302ZZ	6302 ZZ	6302ZZE
6303ZZ	17 × 47 × 14	6303ZZ	6303ZZ	6303 ZZ	6303ZZE
6304ZZ	20 × 52 × 15	6304ZZ	6304ZZ	6304 ZZ	6304ZZE
6305ZZ	25 × 62 × 17	6305ZZ	6305ZZ	6305 ZZ	6305ZZE
6306ZZ	30 × 72 × 19	6306ZZ	6306ZZ	6306 ZZ	6306ZZE
6307ZZ	35 × 80 × 21	6307ZZ	6307ZZ	6307 ZZ	6307ZZE
6308ZZ	40 × 90 × 23	6308ZZ	6308ZZ	6308 ZZ	6308ZZE
6309ZZ	45 × 100 × 25	6309ZZ	6309ZZ	6309 ZZ	6309ZZE
6310ZZ	50 × 110 × 27	6310ZZ	6310ZZ	6310 ZZ	6310ZZE

Sealed bearings: FULI 2RS to NSK, NTN, Koyo, NACHI

FULI	d × D × B mm (FULI catalog)	NSK	NTN	Koyo	NACHI -2NSE	NACHI -2NSE9
6000-2RS	10 × 26 × 8	6000DDU	6000LLU	6000 2RS	6000-2NSE	6000-2NSE9
6001-2RS	12 × 28 × 8	6001DDU	6001LLU	6001 2RS	6001-2NSE	6001-2NSE9
6002-2RS	15 × 32 × 9	6002DDU	6002LLU	6002 2RS	6002-2NSE	6002-2NSE9
6003-2RS	17 × 35 × 10	6003DDU	6003LLU	6003 2RS	6003-2NSE	6003-2NSE9
6004-2RS	20 × 42 × 12	6004DDU	6004LLU	6004 2RS	6004-2NSE	6004-2NSE9
6005-2RS	25 × 47 × 12	6005DDU	6005LLU	6005 2RS	6005-2NSE	6005-2NSE9
6006-2RS	30 × 55 × 13	6006DDU	6006LLU	6006 2RS	6006-2NSE	6006-2NSE9
6007-2RS	35 × 62 × 14	6007DDU	6007LLU	6007 2RS	6007-2NSE	6007-2NSE9
6008-2RS	40 × 68 × 15	6008DDU	6008LLU	6008 2RS	6008-2NSE	6008-2NSE9
6009-2RS	45 × 75 × 16	6009DDU	6009LLU	6009 2RS	6009-2NSE	6009-2NSE9
6010-2RS	50 × 80 × 16	6010DDU	6010LLU	6010 2RS	6010-2NSE	6010-2NSE9
6200-2RS	10 × 30 × 9	6200DDU	6200LLU	6200 2RS	6200-2NSE	6200-2NSE9
6201-2RS	12 × 32 × 10	6201DDU	6201LLU	6201 2RS	6201-2NSE	6201-2NSE9
6202-2RS	15 × 35 × 11	6202DDU	6202LLU	6202 2RS	6202-2NSE	6202-2NSE9
6203-2RS	17 × 40 × 12	6203DDU	6203LLU	6203 2RS	6203-2NSE	6203-2NSE9
6204-2RS	20 × 47 × 14	6204DDU	6204LLU	6204 2RS	6204-2NSE	6204-2NSE9

FULI	d × D × B mm (FULI catalog)	NSK	NTN	Koyo	NACHI -2NSE	NACHI -2NSE9
6205-2RS	25 × 52 × 15	6205DDU	6205LLU	6205 2RS	6205-2NSE	6205-2NSE9
6206-2RS	30 × 62 × 16	6206DDU	6206LLU	6206 2RS	6206-2NSE	6206-2NSE9
6207-2RS	35 × 72 × 17	6207DDU	6207LLU	6207 2RS	6207-2NSE	6207-2NSE9
6208-2RS	40 × 80 × 18	6208DDU	6208LLU	6208 2RS	6208-2NSE	6208-2NSE9
6209-2RS	45 × 85 × 19	6209DDU	6209LLU	6209 2RS	6209-2NSE	6209-2NSE9
6210-2RS	50 × 90 × 20	6210DDU	6210LLU	6210 2RS	6210-2NSE	6210-2NSE9
6211-2RS	55 × 100 × 21	6211DDU	6211LLU	6211 2RS	6211-2NSE	ask us
6212-2RS	60 × 110 × 22	6212DDU	6212LLU	6212 2RS	6212-2NSE	ask us
6300-2RS	10 × 35 × 11	6300DDU	6300LLU	6300 2RS	6300-2NSE	6300-2NSE9
6301-2RS	12 × 37 × 12	6301DDU	6301LLU	6301 2RS	6301-2NSE	6301-2NSE9
6302-2RS	15 × 42 × 13	6302DDU	6302LLU	6302 2RS	6302-2NSE	6302-2NSE9
6303-2RS	17 × 47 × 14	6303DDU	6303LLU	6303 2RS	6303-2NSE	6303-2NSE9
6304-2RS	20 × 52 × 15	6304DDU	6304LLU	6304 2RS	6304-2NSE	6304-2NSE9
6305-2RS	25 × 62 × 17	6305DDU	6305LLU	6305 2RS	6305-2NSE	6305-2NSE9
6306-2RS	30 × 72 × 19	6306DDU	6306LLU	6306 2RS	6306-2NSE	6306-2NSE9
6307-2RS	35 × 80 × 21	6307DDU	6307LLU	6307 2RS	6307-2NSE	6307-2NSE9
6308-2RS	40 × 90 × 23	6308DDU	6308LLU	6308 2RS	6308-2NSE	6308-2NSE9
6309-2RS	45 × 100 × 25	6309DDU	6309LLU	6309 2RS	6309-2NSE	6309-2NSE9
6310-2RS	50 × 110 × 27	6310DDU	6310LLU	6310 2RS	6310-2NSE	6310-2NSE9

Dimensions are from the FULI catalog. NSK, NTN, Koyo and NACHI numbers are from each maker's catalog dimension tables. NACHI lists the sealed bearings in its current dimension table with a 9 after the seal code (for example 6205-2NSE9), so both forms are shown. "ask us" means we have not confirmed that number; ask about it with your quote. Sources are listed at the end of the page.

NSK, NTN, Koyo and NACHI roller bearing numbers

On tapered and spherical roller bearings, the letters around the basic number are design, cage, bore and lubrication codes, not seal codes. The meanings below are from each maker's catalog listed in Sources.

Tapered roller bearings

FULI	NSK	NTN	Koyo
30205	HR30205J	4T-30205	30205JR
30304	HR30304J	4T-30304A	30304AJR
32212	HR32212J	32212U	32212JR

- **NSK HR…J:** HR is an NSK high-capacity series code. J means the outer ring raceway diameter, contact angle and outer ring width conform to ISO 355.
- **NTN 4T-:** NTN's prefix for its 4T tapered roller bearings. U, as in 32212U, marks an internationally interchangeable tapered roller bearing.
- **Koyo JR:** Koyo uses J for bearings made to ISO 355. Some sizes carry -1, for example 30307JR-1; send us the full number and we will check it.

- **30304:** the cone width B (inner ring) is 15 mm at NSK and 16 mm at NTN and Koyo. Bore, outside diameter, total width and cup width match. If your fit depends on B, tell us which brand you are replacing.
- We have not checked NACHI tapered roller numbers. Send us the NACHI number and we will check it.

All 18 tapered sizes are in the Timken tapered roller table.

Spherical roller bearings

FULI	NSK	NTN	Koyo	NACHI
22205	22205CE4	22205EAD1	22205RZ	22205EX
22210	22210EAE4	22210EAD1	22210RZ	22210EX
23022	23022CDE4	23022EAD1	23022RZ	23022E

- **Design and cage codes.** NSK puts a design code before E4: C for 22205 to 22207 (22205CE4), EA for 22208 to 22220 (22208EAE4) and CD for 23022 (23022CDE4). NTN EA has a pressed steel cage. Koyo RZ has a pressed steel cage. NACHI EX has symmetrical rollers and a pressed steel cage; NACHI E has a machined brass cage.
- **Oil groove and holes.** NSK writes E4 and NTN writes D1. Koyo and NACHI add W33 (NACHI W20 means holes only).
- **Tapered bore.** All four makers add K for a 1:12 tapered bore, for example NSK 22205CKE4, NTN 22205EAKD1, Koyo 22205RZK and NACHI 22205EXK. Ask us for the FULI tapered-bore version.

All 13 spherical sizes are in the spherical roller bearing table.

Send your NSK, NTN, Koyo or NACHI list

Paste the part numbers with full suffixes and quantities. We reply with the FULI number for each line, price and lead time. Email sales@fuli-bearings.com or use the contact form.

Online version of this chart: https://www.fuli-bearings.com/products/bearing-cross-reference/nsk-ntn-koyo-nachi-cross-reference/

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