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Tapered Roller Bearings

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Interchangeability

Bearings designated as E J (E prefix and J suffix) comply with ISO standards in subunit dimensions. The cups and cones of these bearings are internationally interchangeable.



Fig 1. Sub-unit dimensions

Internal clearance / Double-row Tapered Roller Bearings Page 64 • Combination and Double-row Tapered

Roller Bearings

When radial loads act on a Tapered roller bearing, an axial load is generated from the reaction of the internal contact angle of the bearing. This induced axial load creates a separating force on the cup and cone which is normally offset by mounting Tapered roller bearings in pairs or as multi-row sets. Table 1 shows combination and double-row mounting of Tapered roller bearings.

Inch Series

NACHI manufactures inch-dimensioned series Tapered Roller Bearings to ABMA (ANSI) standards.

Table 1. Double-row Tapered Roller Bearing Configurations and Features

	Series or Configuration	Cross section	Example Bearing Number	Adjustment
	Back-to-back (DB mounting)		E32208JDB10	Combination of two standard single-row Tapered roller bearings. Two mounting systems are used; one using preset spacers, and the other requiring adjustment using either torque or end-play control.
	Face-to-face (DF mounting)		E32208JDF	
	KBE KDE		150KBE030	Either double inner or outer ring. Adjustment is normally done using spacers. If spacers are not used, please contact NACHI for end-play specifications.
	KBD		150KBD030	