NSK-TAPERED ROLLER BEARINGS

METRIC DESIGN TAPERED ROLLER BEARINGS

Bore Diameter 15 -100mm
Bore Diameter 105 -240mm
Bore Diamelter 260 - 440mm

INCH DESIGN TAPERED ROLLER BEARINGS

Bore Diameter 12.000- 47 625mm
Bore Diameter 48.412 - 69 850mm
Bore Diameter 70.000 - 206.375mm
The index for inch design tapered rller bearings is in Appendix 14 (Page C26).

DOUBLE-ROW TAPERED ROLLER BEARINGS

Bore Diameter 40 - 260mm:
Four-Row Tapered Roller Bearings are described on pages B334 to B339.

DESIGN, TYPES, AND FEATURES

Tapered roller bearings are designed so the apices of the cones formed by the raceways of the cone and cup and the conical ollrs all coincide at one point on the axis of the bearing. When a radlal load is imposed, an axlal force component ocurS: therefore, it is necessary to use two bearings in EContadt opposition or some other multiple arrangerment.
angle
For metric-design medlum-angle and sep-angle tapered rller bearings, the respective contact angle symbol C or D is added after the bore number.For normal-angle tapered roller bearings, no contact angle symbol is used.Medlum- angle tapered roller bearings are primarily used for the pinion shafts of diferental gears of automobiles.
Among those with high load capacty(HR serles). some bearings have the basic number sufiled by J to conform to the spectficalions of iso for the cup back face raceway diameter, cup width. and contact angle. Therefore.the cone assembly and cup of bearings with the same basic number sufflxed by J are itereationally interchangeable.
Among metric design tapered oller bearings speclfled by ISO 355. there are those having new dimenslions that are dfferent than the dimension serles 3XX used In the past. Part of them are listed in the bearing tables.They conform to the specifications of ISO for the smaller end diameter of the cup and contact angle The cone and cup assembles are internationally interchangeable. The bearing number formulation, which is difent than that for past metric design. Is as fllows
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