



SKF Cylindrical roller bearing caged Single row Series: N 10

Product description

SKF super-precision single row cylindrical roller bearings in the N 10 series have, as standard, a 1:12 tapered bore [designation suffix K]. A tapered bore is preferred because the taper enables accurate adjustment of clearance or preload during mounting. The bearings have two integral flanges on the inner ring and no flanges on the outer ring. To improve lubricant flow, these bearings can be supplied with a lubrication hole in the outer ring on request.

Basic design single row cylindrical roller bearings are equipped as standard with a roller centred PA66 cage without glass fibre reinforcement for bore diameters up to 80 mm [designation suffix TN], and with glass fibre reinforcement for larger sizes [designation suffix TN9]. These bearings are well suited for most precision applications.

The internal geometry and cages of high-speed design single row cylindrical roller bearings have been optimized to accommodate higher speeds. High-speed design bearings contain fewer rollers than basic design bearings. They are equipped with either an asymmetrical cage, made of glass fibre reinforced PEEK [designation suffix TNHA], or a symmetrical cage, made of carbon fibre reinforced PEEK [designation suffix PHA]. Both are outer ring centred cages, designed to optimize the effectiveness of the lubricant and avoid kinematic lubricant starvation at high speeds. When comparing the two cages, the symmetrical PHA cage provides better guidance and promotes better lubrication conditions for superior performance. Compared to bearings with a glass fibre reinforced PEEK cage, bearings with a carbon fibre reinforced PEEK cage can accommodate speeds up to 30% higher in grease lubricated applications and up to 15% higher when lubricated with an oil-air system.

Characteristics

Series: N 10

Manufacturer ID	Cage material	Inner diameter mm	Outer diameter mm	Width mm	Internal clearance	With sealing	Article
N 1015 KTN/VQ497	Plastic	75	115	20	CN [normal]	No	13200226
N 1016 KTN/VQ497	Plastic	80	125	22	CN [normal]	No	12585418
N 1017 KTN9/SP	Plastic	85	130	22	C1	No	13200237
N 1017 KTN9/ SPVR522	Plastic	85	130	22	C1	No	23766853
N 1018 KTN9/SP	Plastic	90	140	24	C1	No	13200238
N 1019 KTN9/SP	Plastic	95	145	24	C1	No	13200240
N 1019 KTN9/HC5SP	Plastic	95	145	24	C1	No	13200239
N 1019 KTN9/ SPVR522	Plastic	95	145	24	C1	No	13200241
N 1020 KTN9/SP	Plastic	100	150	24	C1	No	13200242
N 1022 KTN9/ SPVR522	Plastic	110	170	28	C1	No	13200244
N 1022 KTN9/ VQ478	Plastic	110	170	28	CN [normal]	No	13200245
N 1024 KTN9/SP	Plastic	120	180	28	C1	No	13200246

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