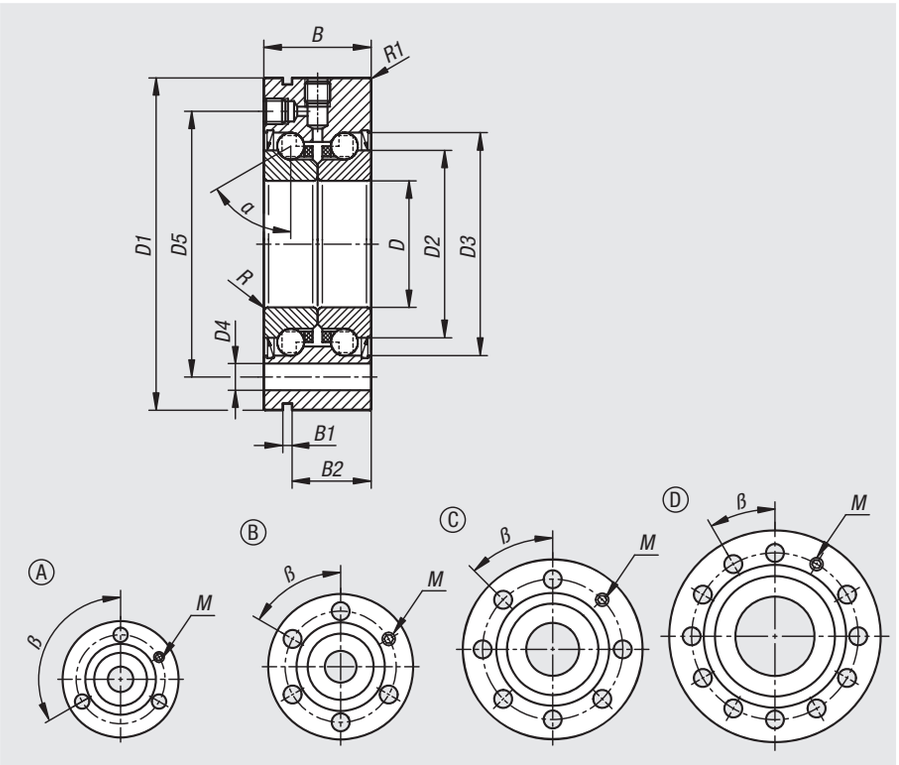
Axial angular contact ball bearing, steel

double-row, with flange



Material:
Steel housing.
Nitrile rubber seal.

Version:
Ground edges.

Sample order:
nlm 23806-01-101205525

Note:
Preloaded high-accuracy bearings with a 60° thrust angle. The bearings accept both radial and axial forces from both directions. Due to their preload, the angular contact ball bearings provide a high level of stiffness, excellent concentricity, precise tool positioning and repeatability.

The integrated low-friction seal effectively keeps dirt away from the bearing, thereby ensuring excellent operating safety and a long service life.

The bearing friction coefficient Mrl is a reference value.

The moment of inertia corresponds to that of the rotating inner ring.

The limiting speeds are applicable after grease is applied.

Application:
For thread drive bearing.

Temperature range:
-30 °C to +120 °C.

Assembly:
Precision slotted nuts must be used for mounting the threaded spindles.

To compensate for any material settling during assembly, tighten the slotted nuts using 2x tightening torque, loosen slightly and then tighten using the prescribed tightening torque.

Tighten fastening screws crosswise up to max. 70% of the yield point.

Technical data:
All bearings are supplied ready for mounting with lubricating grease type KE2P-35 acc. to DIN 51825.

Housing and shaft tolerances correspond to roundness tolerance class IT2 and perpendicularity tolerance class IT4.

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Order No.	Abbreviation	Version 1	Form	B	B1	B2	D	D1	D2	D3	D4	D5	R	R1	α	β	M
23806-01-101205525	1255-2RS	double-row	A	25 -0,25	3	17	12-0,005	55-0,01	25	-	6,6	42	0,3	0,6	60°	120°	M6
23806-01-101506025	1560-2RS	double-row	B	25 -0,25	3	17	15-0,005	60-0,01	28	36	6,6	46	0,3	0,6	60°	60°	M6
23806-01-101706225	1762-2RS	double-row	B	25 -0,25	3	17	17-0,005	62-0,01	30	38	6,6	48	0,3	0,6	60°	60°	M6
23806-01-102006828	2068-2RS	double-row	C	28 -0,25	3	19	20-0,005	68-0,01	34,5	44	6,6	53	0,3	0,6	60°	45°	M6
23806-01-102507528	2575-2RS	double-row	C	28 -0,25	3	19	25-0,005	75-0,01	40,5	49	6,6	58	0,3	0,6	60°	45°	M6
23806-01-103008028	3080-2RS	double-row	D	28 -0,25	3	19	30-0,005	80-0,01	45,5	54	6,6	63	0,3	0,6	60°	30°	M6
23806-01-104010034	40100-2RS	double-row	C	34 -0,25	3	25	40-0,005	100-0,01	58	68	8,8	80	0,3	0,6	60°	45°	M6

Order No.	Abbreviation	Tightening torque, precision locknut Nm	Speed limit rpm	Static load rating N	Dynamic load rating N	Axial rigidity N/µm	Tilt rigidity Nm/mrad
23806-01-101205525	1255-2RS	8	3800	24700	16900	375	50
23806-01-101506025	1560-2RS	10	3500	28000	17900	400	65
23806-01-101706225	1762-2RS	15	3300	31000	18800	450	80
23806-01-102006828	2068-2RS	18	3000	47000	26000	650	140
23806-01-102507528	2575-2RS	25	2600	55000	27500	750	200
23806-01-103008028	3080-2RS	32	2200	64000	29000	850	300
23806-01-104010034	40100-2RS	55	1800	101000	43000	1000	550

Order No.	Abbreviation	Bearing friction torque Nm	Moment of inertia kg.cm²	Circular runout µm	Radial bearing clearance	Hole tolerance µm	OD tolerance µm	Width tolerance µm
23806-01-101205525	1255-2RS	0,16	0,068	2,0	pre-tensioned	0-5	0-10	0-250
23806-01-101506025	1560-2RS	0,20	0,102	2,0	pre-tensioned	0-5	0-10	0-250
23806-01-101706225	1762-2RS	0,24	0,132	2,0	pre-tensioned	0-5	0-10	0-250
23806-01-102006828	2068-2RS	0,30	0,273	2,0	pre-tensioned	0-5	0-10	0-250
23806-01-102507528	2575-2RS	0,40	0,486	2,0	pre-tensioned	0-5	0-10	0-250
23806-01-103008028	3080-2RS	0,50	0,730	2,5	pre-tensioned	0-5	0-10	0-250
23806-01-104010034	40100-2RS	0,70	2,260	2,5	pre-tensioned	0-5	0-10	0-250