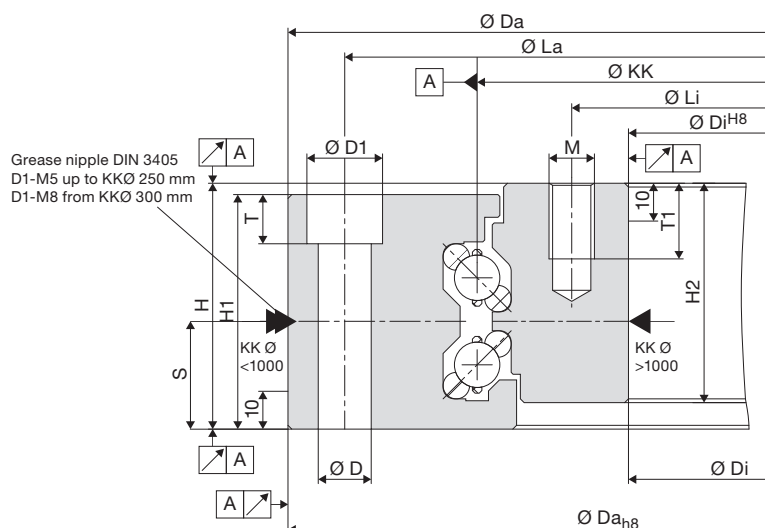


Bearing Assemblies

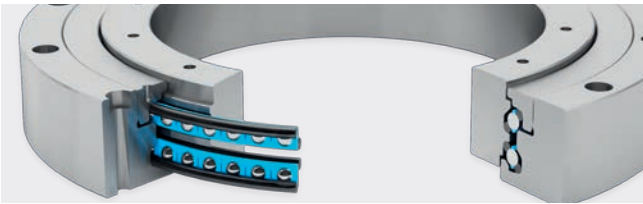
Angular contact ball bearings/steel design

Type LVC



KKØ mm	Dimensions									
	D1	D	H	H1	T	M	S	T1	H2	
100–250	11	6,6	34	33	6,8	M 6	15,0	10	33	
300–450	18	11	57	54	11,0	M 10	16,0	15	50	
500–1000	20	14	65	62	13,0	M 12	28,5	20	58	
1200–1400	26	18	69	67	17,5	M 16	31,0	25	61	
1600–1800	26	18	84	82	17,5	M 16	38,5	25	76	

KKØ mm	Dimensions				Fixing/ mounting per ring	Load rating				Stat. moment	Weight
	Da_{H8}	Di^{H8}	La	Li		kN				kNm	kg
						C_{0a}	C_{0r}	C_a	C_r	C_{0m}	
LVC0100	150	50	135	65	6x	55	26	11	10	1	3,7
LVC0150	200	100	185	115	6x	86	40	14	12	3	5,6
LVC0200	250	150	235	165	8x	113	53	15	13	7	7,4
LVC0250	300	200	285	215	10x	142	67	16	14	11	9,2
LVC0300	380	230	355	255	12x	235	111	29	25	17	27,7
LVC0350	430	280	405	305	14x	278	131	31	27	23	32,2
LVC0400	480	330	455	355	14x	318	150	33	28	30	36,7
LVC0450	530	380	505	405	14x	357	168	34	27	38	41,2
LVC0500	600	420	570	450	14x	680	320	62	54	80	63,7
LVC0600	700	520	670	550	16x	816	384	67	58	115	76,2
LVC0700	800	620	770	650	22x	958	451	71	61	158	88,6
LVC0800	900	720	870	750	24x	1094	515	74	64	206	101,1
LVC0900	1000	820	970	850	24x	1230	579	78	67	261	113,6
LVC1000	1100	920	1070	950	26x	1372	646	81	70	323	126,0
LVC1200	1300	1085	1265	1130	30x	1644	774	86	75	464	192,6
LVC1400	1500	1285	1465	1330	36x	1922	905	91	79	633	224,7
LVC1600	1730	1470	1685	1515	42x	2200	1036	96	83	828	389,0
LVC1800	1930	1670	1885	1715	46x	2472	1163	100	87	1047	437,4



Bearing type

LVC is a bearing assembly designed as double-row angular contact ball bearing made of steel with two integrated bearing elements. Franke bearing assemblies in type LVC are suitable for the highest circumferential speeds. Convincing aspects include their high dynamism and low rotational resistance.

Characteristics

Franke bearing assemblies type LVC are ready-to-use, complete bearings. The double-row angular contact ball bearing in 4-point adjustment is preloaded free of clearance. It is insensitive to impact and vibration. The low rotational resistance and the minimal breakaway torque reduce the necessary drive power. Bearing assemblies type LVC operate practically without maintenance and achieve a high service life due to the low friction values.

Please find construction examples, special accuracies and other options of individual tailoring on pages 11–19.

Technical details

Material	Inner/outer ring: C45N, ball race rings: 54SiCr6, rolling element: 100Cr6, cage: PA12
Temperature in use	–30 °C to +80 °C, briefly up to +100 °C
Circumferential speed	max. 20 m/s
Screw connection	See 'Technical information'.
Lubricant grease	Klüber ISOFLEX TOPAS NCA52
Relubrication	using grease nipples according to DIN 3405
Lubrication schedule	See 'Technical information'.



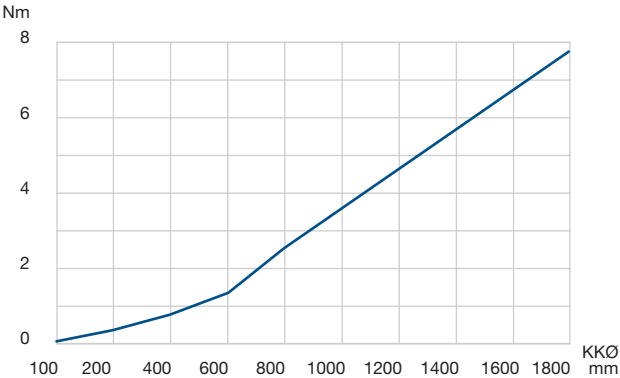
Technical information/calculation

Please find additional information on bearing selection, calculation, mounting and setting in 'Technical information'. Our technical consultants are pleased to assist you in identifying the correct bearing assembly for your application.

Please call us under: +49 7361 920-0 or send us an email at: info@franke-gmbh.de.

Rotational resistance

The rotational resistance indicates the preload on the bearing assembly. It is dependent on the respective type and the race ring diameter. The values indicated in the diagram are standard values and can be aligned individually.



Radial and axial runout accuracy

The running accuracies in the diagram are maximum values.

