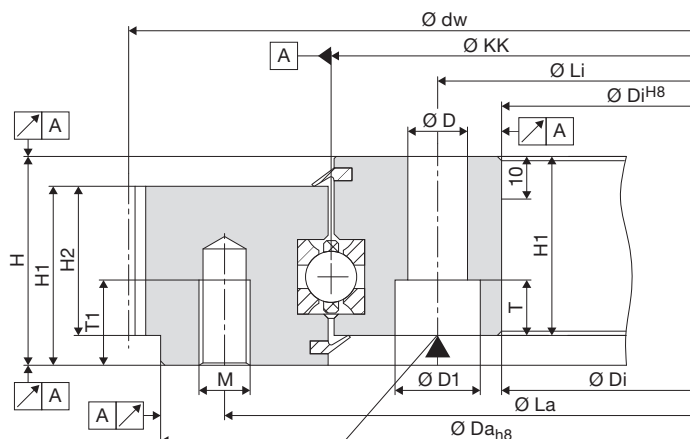


# Bearing Assemblies

## Aluminium design/toothed belt gear type

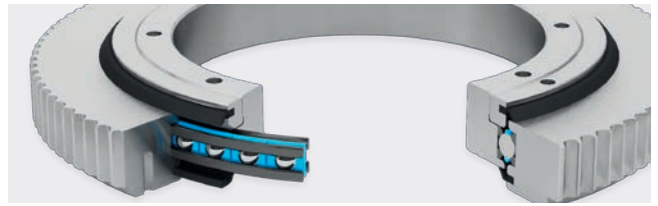
Type LVE



Grease nipple DIN 3405  
D1-M5 up to KKØ 250 mm  
D1-M8 from KKØ 300 mm

KKØ mm	Dimensions								
	D1	D	H	H1	T	M	T1	H2	
100-250	11	6.6	34 <sup>+/-0,4</sup>	27	6.8	M 6	10	22	
300-350	15	9.0	38 <sup>+/-0,4</sup>	31	9.0	M 8	15	26	
400-450	18	11.0	44 <sup>+/-0,5</sup>	37	11.0	M 10	15	32	
500-600	20	14.0	49 <sup>+/-0,5</sup>	42	13.0	M 12	20	35	
700-1000	20	14.0	53 <sup>+/-0,5</sup>	45	13.0	M 12	20	38	
1200-1400	26	18.0	60 <sup>+/-0,5</sup>	52	17.5	M 16	20	44	
1600-1800	26	18.0	90 <sup>+/-0,5</sup>	82	17.5	M 16	25	69	

KKØ mm	Dimensions				Fixing/ mounting per ring	Load rating				Stat. moment kNm C <sub>0m</sub>	Effective range diameter dw mm AT10		Weight	Availability
	Da <sub>H8</sub>	Di <sup>H8</sup>	La	Li		C <sub>0a</sub>	C <sub>0r</sub>	C <sub>a</sub>	C <sub>r</sub>		z			
LVE0100	150	50	135	65	6x	54	25	18	16	1	165,52	52	1,20	
LVE0150	200	100	185	115	6x	82	39	22	19	3	216,45	68	1,80	
LVE0200	250	150	235	165	8x	110	52	24	21	5	264,20	83	2,40	from stores
LVE0250	300	200	285	215	8x	138	65	26	23	8	324,68	102	3,00	
LVE0300	360	240	340	260	12x	166	78	28	24	12	378,79	119	5,00	from stores
LVE0350	410	290	390	310	14x	196	92	30	26	16	429,72	135	5,80	
LVE0400	470	330	445	355	14x	224	106	32	28	20	490,20	154	9,50	from stores
LVE0450	520	380	495	405	14x	252	120	34	30	24	541,13	170	10,70	
LVE0500	580	420	550	450	14x	280	134	36	32	28	598,42	188	15,10	
LVE0600	680	520	650	550	16x	335	160	38	34	32	700,28	220	18,20	
LVE0700	790	610	750	650	22x	400	196	40	36	40	814,87	256	25,90	
LVE0800	890	710	850	750	24x	476	232	42	38	48	929,47	292	29,60	
LVE0900	990	810	950	850	24x	552	268	44	40	56	1028,14	323	33,30	
LVE1000	1090	910	1050	950	26x	628	304	46	42	64	1126,82	354	37,00	
LVE1200	1300	1100	1265	1135	30x	752	360	48	44	80	1330,54	418	59,90	
LVE1400	1500	1300	1465	1335	36x	876	416	50	46	96	1527,89	480	69,90	
LVE1600	1730	1470	1685	1515	42x	1000	472	52	48	112	1763,44	554	161,00	
LVE1800	1930	1670	1885	1715	46x	1124	528	54	50	128	1967,16	618	181,10	



### Bearing type

LVE is a bearing assembly with toothed belt gear type and housing rings made of aluminium and integrated bearing element. Franke bearing assemblies in type LVE are designed for medium rotational speeds and accuracies. They are available on short notice, in some cases even from the warehouse (see table).

### Characteristics

Franke bearing assemblies type LVE are ready-to-use, complete bearings with integrated Wire Race Bearings. Designed as 4-point bearings, they absorb equal load from all sides and are insensitive to impact and vibration. The bearing assemblies are sealed on both sides and set free from clearance and are preloaded. On request you can receive the bearing assemblies ex works with your specified preload values.

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

### Technical details

<b>Material</b>	Inner/outer ring: AlZnMgCu05, ball race rings: 54SiCr6, rolling element: 100Cr6, cage: PA12, seal: NBR
<b>Gear</b>	Profile T10, AT10 or HTD8
<b>Temperature in use</b>	-30 °C to +80 °C, briefly up to +100 °C
<b>Circumferential speed</b>	max. 5 m/s, without seals max. 10 m/s
<b>Screw connection</b>	See 'Technical information'.
<b>Lubricant grease</b>	Klüber ISOFLEX TOPAS NCA52
<b>Relubrication</b>	using grease nipples according to DIN 3405
<b>Lubrication schedule</b>	See 'Technical information'.



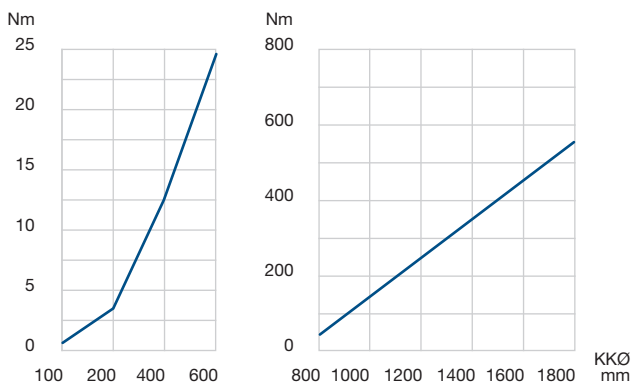
### Technical information/calculation

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](mailto: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.

