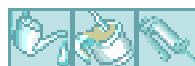
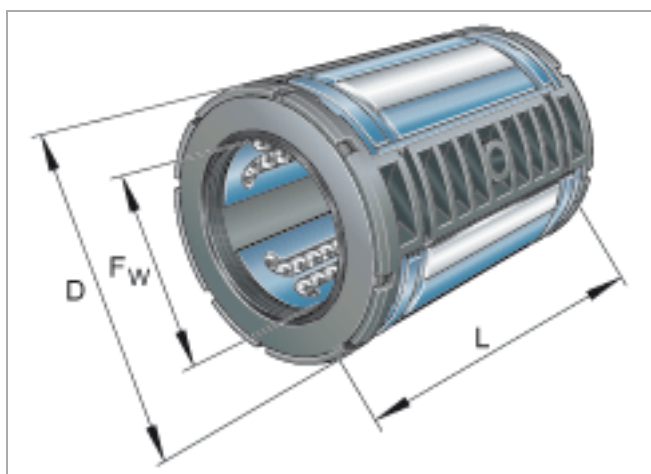




# Linear ball bearings KS

gap seals on both sides

The datasheet is only an overview of dimensions and basic load ratings for the selected series. Please ensure that you note all the guidance in these overview pages. Further information is given on many products under the menu item "Description". You can also obtain comprehensive information material via Catalogue selection (<http://www.ina.de/content.ina.de/en/services/mediathek/library/library.jsp>), by e-mail ([kataloge@de.ina.com](mailto:kataloge@de.ina.com)) or telephone +49 (91 32) 82 - 28 97.



	F <sub>w</sub> mm	D mm	L mm
KS12	12	22	32
KS16	16	26	36
KS20	20	32	45
KS25	25	40	58
KS30	30	47	68
KS40	40	62	80
KS50	50	75	100

Figure 1

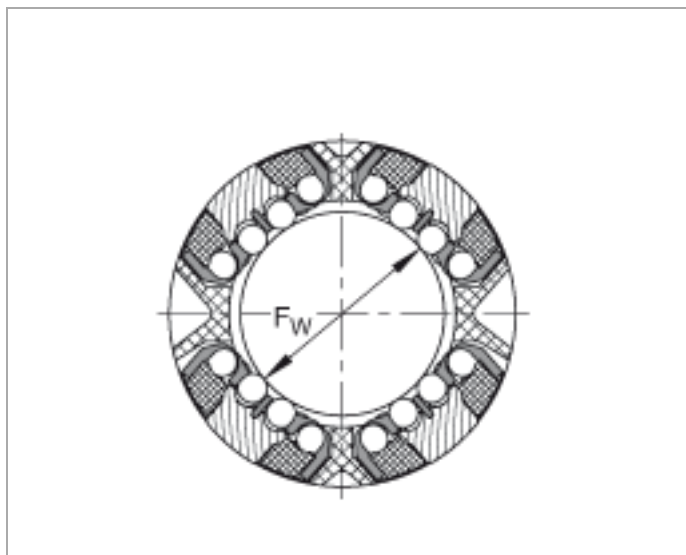


Figure 2

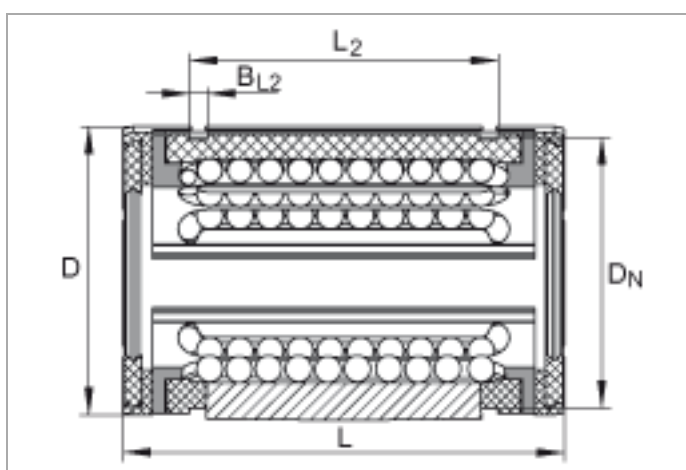


Figure 3

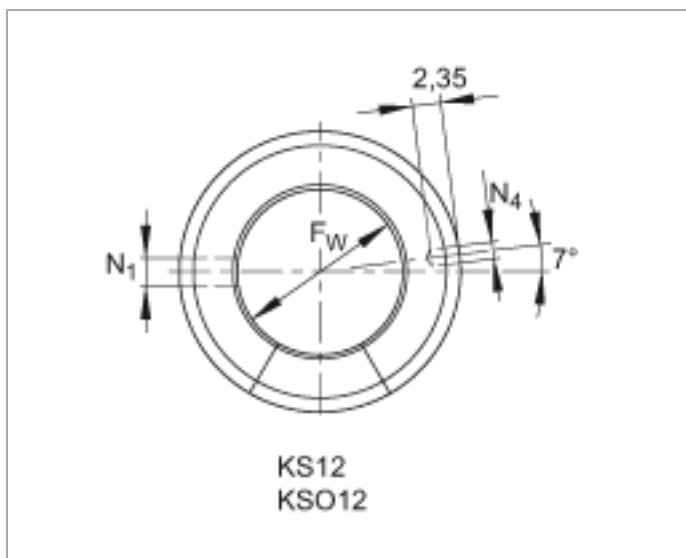


Figure 4

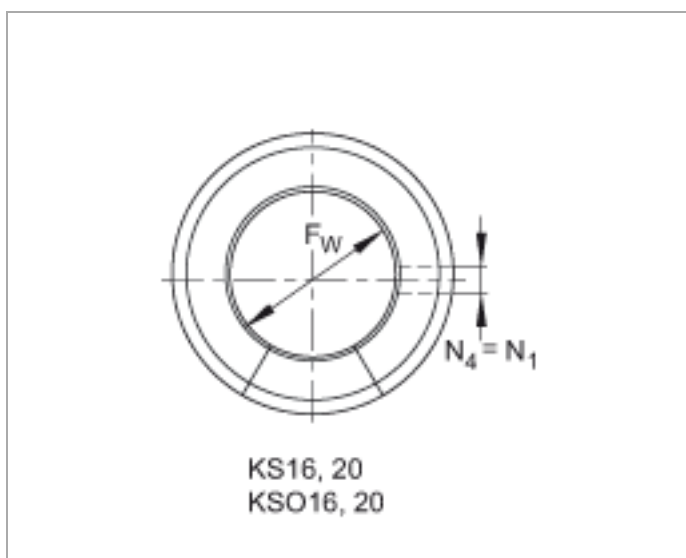


Figure 5

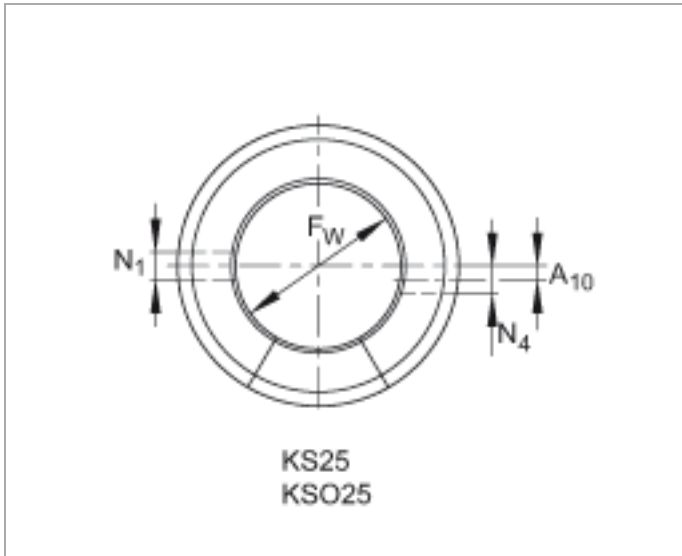


Figure 6

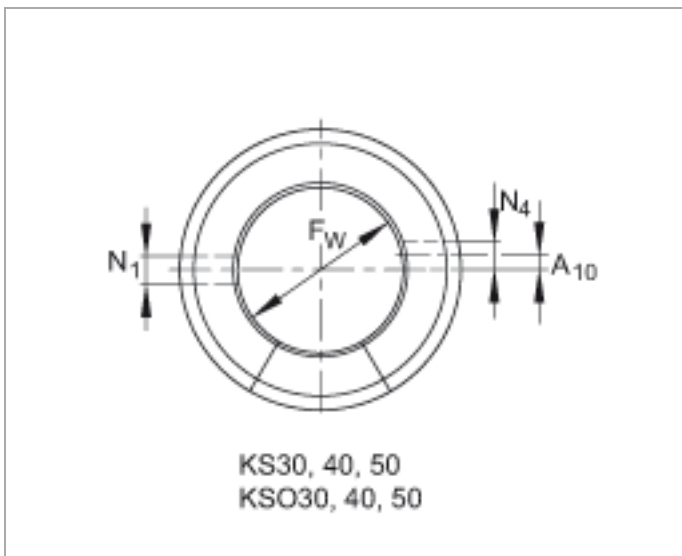
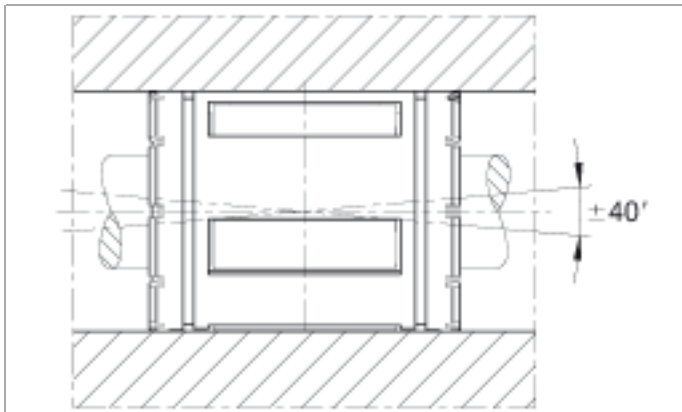


Figure 7



## KS12

Figure 1 , Figure 2 , Figure 3 , Figure 7

F <sub>w</sub>	12 mm	
D	22 mm	
L	32 mm	
	8	Number of rows of balls
BL <sub>2</sub>	1,3 mm	
DN	21 mm	
L <sub>2</sub>	22,6 mm	H13
N <sub>4</sub>	3 mm	Hole position symmetrical to bearing length L.
		With preservative, gap seals on both sides.
m	18 g	Mass
		The basic load ratings are only valid for hardened (670+170 HV) and ground shaft raceways.
C <sub>min</sub>	630 N	Basic dynamic load rating
C <sub>0 min</sub>	600 N	Basic static load rating
C <sub>max</sub>	900 N	Basic dynamic load rating
C <sub>0 max</sub>	1100 N	Basic static load rating

## KS16

Figure 1 , Figure 2 , Figure 4 , Figure 7

F <sub>w</sub>	16 mm	
D	26 mm	
L	36 mm	
	8	Number of rows of balls
BL <sub>2</sub>	1,3 mm	
DN	25 mm	
L <sub>2</sub>	24,6 mm	H13
N <sub>1</sub>	3 mm	Hole position symmetrical to bearing length L. Only one lubrication and fixing hole each.
N <sub>4</sub>	3 mm	Hole position symmetrical to bearing length L. Only one lubrication and fixing hole each.
		With preservative, gap seals on both sides.
m	28 g	Mass
		The basic load ratings are only valid for hardened (670+170 HV) and ground shaft raceways.
C <sub>min</sub>	1060 N	Basic dynamic load rating
C <sub>0 min</sub>	950 N	Basic static load rating
C <sub>max</sub>	1430 N	Basic dynamic load rating
C <sub>0 max</sub>	1550 N	Basic static load rating

## KS20

Figure 1 , Figure 2 , Figure 4 , Figure 7

F <sub>w</sub>	20 mm	
D	32 mm	
L	45 mm	
	8	Number of rows of balls
BL <sub>2</sub>	1,6 mm	
DN	30,7 mm	
L <sub>2</sub>	31,2 mm	H13
N <sub>1</sub>	3 mm	Hole position symmetrical to bearing length L. Only one lubrication and fixing hole each.
N <sub>4</sub>	3 mm	Hole position symmetrical to bearing length L. Only one lubrication and fixing hole each.
		With preservative, gap seals on both sides.
m	51 g	Mass
		The basic load ratings are only valid for hardened (670+170 HV) and ground shaft raceways.
C <sub>min</sub>	1780 N	Basic dynamic load rating
C <sub>0 min</sub>	1600 N	Basic static load rating
C <sub>max</sub>	2200 N	Basic dynamic load rating
C <sub>0 max</sub>	2310 N	Basic static load rating

## KS25

Figure 1 , Figure 2 , Figure 5 , Figure 7

F <sub>w</sub>	25 mm	
D	40 mm	
L	58 mm	
	8	Number of rows of balls
A <sub>10</sub>	1,5 mm	
BL <sub>2</sub>	1,85 mm	
DN	38 mm	
L <sub>2</sub>	43,7 mm	H13
N <sub>1</sub>	3,5 mm	Hole position symmetrical to bearing length L.
N <sub>4</sub>	3 mm	Hole position symmetrical to bearing length L.
		With preservative, gap seals on both sides.
m	102 g	Mass
		The basic load ratings are only valid for hardened (670+170 HV) and ground shaft raceways.
C <sub>min</sub>	2700 N	Basic dynamic load rating
C <sub>0 min</sub>	2430 N	Basic static load rating
C <sub>max</sub>	3950 N	Basic dynamic load rating
C <sub>0 max</sub>	4300 N	Basic static load rating



## KS30

Figure 1 , Figure 2 , Figure 6 , Figure 7

F <sub>w</sub>	30 mm	
D	47 mm	
L	68 mm	
	8	Number of rows of balls
A <sub>10</sub>	2 mm	
BL <sub>2</sub>	1,85 mm	
DN	44,7 mm	
L <sub>2</sub>	51,7 mm	H13
N <sub>1</sub>	3,5 mm	Hole position symmetrical to bearing length L.
N <sub>4</sub>	3 mm	Hole position symmetrical to bearing length L.
		With preservative, gap seals on both sides.
m	172 g	Mass
		The basic load ratings are only valid for hardened (670+170 HV) and ground shaft raceways.
C <sub>min</sub>	4650 N	Basic dynamic load rating
C <sub>0 min</sub>	3970 N	Basic static load rating
C <sub>max</sub>	5900 N	Basic dynamic load rating
C <sub>0 max</sub>	6000 N	Basic static load rating

## KS40

Figure 1 , Figure 2 , Figure 6 , Figure 7

F <sub>w</sub>	40 mm	
D	62 mm	
L	80 mm	
	8	Number of rows of balls
A <sub>10</sub>	1,5 mm	
B <sub>L2</sub>	2,15 mm	
D <sub>N</sub>	59,4 mm	
L <sub>2</sub>	60,3 mm	H13
N <sub>1</sub>	3,5 mm	Hole position symmetrical to bearing length L.
N <sub>4</sub>	3 mm	Hole position symmetrical to bearing length L.
		With preservative, gap seals on both sides.
m	335 g	Mass
		The basic load ratings are only valid for hardened (670+170 HV) and ground shaft raceways.
C <sub>min</sub>	8800 N	Basic dynamic load rating
C <sub>0 min</sub>	7200 N	Basic static load rating
C <sub>max</sub>	10200 N	Basic dynamic load rating
C <sub>0 max</sub>	9600 N	Basic static load rating

## KS50

Figure 1 , Figure 2 , Figure 6 , Figure 7

F <sub>w</sub>	50 mm	
D	75 mm	
L	100 mm	
	8	Number of rows of balls
A <sub>10</sub>	2,5 mm	
B <sub>L2</sub>	2,65 mm	
D <sub>N</sub>	71,4 mm	
L <sub>2</sub>	77,3 mm	H13
N <sub>1</sub>	4,5 mm	Hole position symmetrical to bearing length L.
N <sub>4</sub>	5 mm	Hole position symmetrical to bearing length L.
		With preservative, gap seals on both sides.
m	589 g	Mass
		The basic load ratings are only valid for hardened (670+170 HV) and ground shaft raceways.
C <sub>min</sub>	12300 N	Basic dynamic load rating
C <sub>0 min</sub>	9700 N	Basic static load rating
C <sub>max</sub>	15100 N	Basic dynamic load rating
C <sub>0 max</sub>	13900 N	Basic static load rating