

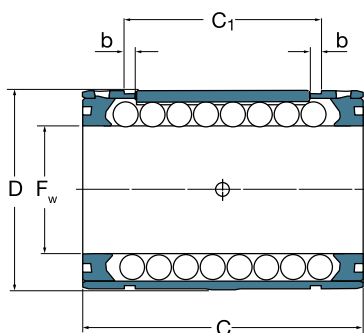
3.3.1 Standard linear ball bearings - LBCR

- Closed design

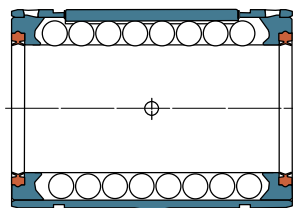
- Sizes from 5 mm to 80 mm
- Straight raceway design to support high loads
- Available in variants of 2 seals, 2 shields or seal and shield
- Available as bearing steel (standard) or stainless steel variant
- Factory pre-lubricated with SKF LGEP 2 grease, ready for use
- Clearance or preload determined by shaft and housing bore tolerance, in slotted housings adjustable
- Suitable grease fittings for axial fixation are in **chapter 3.3.7**



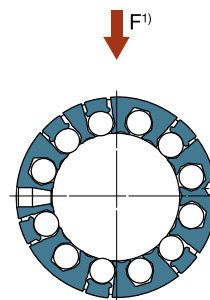
Pictured is LBCR 30 D-2LS ²⁾



Picture shows LBCR D
with shields ²⁾



Picture shows LBCR D
with 2 double lip seals ²⁾



Dimensions					No. of ball rows
F_w	D	C	C_1	b min	
mm					—
5	12	22	14,2	1,1	4
8	16	25	16,2	1,1	4
12	22	32	22,6	1,3	5
16	26	36	24,6	1,3	5
20	32	45	31,2	1,6	6
25	40	58	43,7	1,85	6
30	47	68	51,7	1,85	6
40	62	80	60,3	2,15	6
50	75	100	78,5	2,65	7
60	90	125	102,1	3,15	7
80	120	165	133	4,15	7

¹⁾ Direction for max. load ratings

²⁾ Picture of non D-series bearing differs

LBCR

Designations			Mass	Basic load ratings ¹⁾			
with shields	with 2 double lip seals	with 1 double lip seal		dynamic C min ²⁾ N	max	static C ₀ min ²⁾	max
–			kg				
LBCR 5 ^{3) 4)}	LBCR 5-2LS ^{3) 4)}	–	0,005	280	320	210	300
LBCR 8 ⁴⁾	LBCR 8-2LS ⁴⁾	LBCR 8-LS ^{4) s)}	0,009	490	570	355	500
LBCR 12 D	LBCR 12 D-2LS	LBCR 12 D-LS ^{s)}	0,02	930	1 370	695	1 120
LBCR 16 D	LBCR 16 D-2LS	LBCR 16 D-LS ^{s)}	0,026	1 080	1 600	800	1 290
LBCR 20 D	LBCR 20 D-2LS	LBCR 20 D-LS ^{s)}	0,056	2 200	3 250	1 630	2 650
LBCR 25 D	LBCR 25 D-2LS	LBCR 25 D-LS ^{s)}	0,108	3 100	4 550	2 360	3 800
LBCR 30 D	LBCR 30 D-2LS	LBCR 30 D-LS ^{s)}	0,168	4 800	7 100	3 550	5 700
LBCR 40 D	LBCR 40 D-2LS	LBCR 40 D-LS ^{s)}	0,323	7 650	11 200	5 100	8 300
LBCR 50 A	LBCR 50 A-2LS	LBCR 50 A-LS ^{s)}	0,46	9 650	13 400	7 200	12 200
LBCR 60 A	LBCR 60 A-2LS	LBCR 60 A-LS ^{s)}	0,82	14 600	20 400	11 200	18 000
LBCR 80 A	LBCR 80 A-2LS	LBCR 80 A-LS ^{s)}	1,9	26 500	37 500	19 600	32 000

LBCR in stainless steel

Designations			Mass	Basic load ratings ¹⁾			
with shields	with 2 double lip seals	with 1 double lip seal		dynamic C min ²⁾ N	max	static C ₀ min ²⁾	max
–			kg				
LBCR 5/HV6 ^{3) 4) n)}	LBCR 5-2LS/HV6 ^{3) 4) s)}	–	0,005	280	320	210	300
LBCR 8/HV6 ^{4) n)}	LBCR 8-2LS/HV6 ^{4) s)}	LBCR 8-LS/HV6 ^{4) n)}	0,009	490	570	355	500
LBCR 12 D/HV6 ⁿ⁾	LBCR 12 D-2LS/HV6 ^{s)}	LBCR 12 D-LS/HV6 ⁿ⁾	0,02	930	1 370	695	1 120
LBCR 16 D/HV6 ⁿ⁾	LBCR 16 D-2LS/HV6 ^{s)}	LBCR 16 D-LS/HV6 ⁿ⁾	0,026	1 080	1 600	800	1 290
LBCR 20 D/HV6 ⁿ⁾	LBCR 20 D-2LS/HV6 ^{s)}	LBCR 20 D-LS/HV6 ⁿ⁾	0,056	2 200	3 250	1 630	2 650
LBCR 25 D/HV6 ⁿ⁾	LBCR 25 D-2LS/HV6 ^{s)}	LBCR 25 D-LS/HV6 ⁿ⁾	0,108	3 100	4 550	2 360	3 800
LBCR 30 D/HV6 ⁿ⁾	LBCR 30 D-2LS/HV6 ^{s)}	LBCR 30 D-LS/HV6 ⁿ⁾	0,168	4 800	7 100	3 550	5 700
LBCR 40 D/HV6 ⁿ⁾	LBCR 40 D-2LS/HV6 ^{s)}	LBCR 40 D-LS/HV6 ⁿ⁾	0,323	7 650	11 200	5 100	8 300
LBCR 50 A/HV6 ⁿ⁾	LBCR 50 A-2LS/HV6 ^{s)}	LBCR 50 A-LS/HV6 ⁿ⁾	0,46	9 650	13 400	7 200	12 200
LBCR 60 A/HV6 ⁿ⁾	LBCR 60 A-2LS/HV6 ⁿ⁾	LBCR 60 A-LS/HV6 ⁿ⁾	0,82	14 600	20 400	11 200	18 000
LBCR 80 A/HV6 ⁿ⁾	LBCR 80 A-2LS/HV6 ⁿ⁾	LBCR 80 A-LS/HV6 ⁿ⁾	1,9	26 500	37 500	19 600	32 000

Items without letter footnote are usually available from stock.

ⁿ⁾ Delivery time on request

^{s)} Delivery time usually 10 days for max. quantity of 4; larger quantities on request

¹⁾ Basic load ratings are valid for bearing steel and stainless steel variants, but they must be reduced if stainless steel shafts are used

²⁾ To be used if mounted randomly and the direction of max. load rating and the main load are not aligned

³⁾ Factory pre-lubricated with lubricant Klueber Paraliq P460

⁴⁾ Linear ball bearings LBCR 5 and LBCR 8 are without fixation hole