
SKF Linear ball bearings

The SKF Group

The SKF Group is an international industrial corporation of AB SKF Sweden, founded in 1907, operat-

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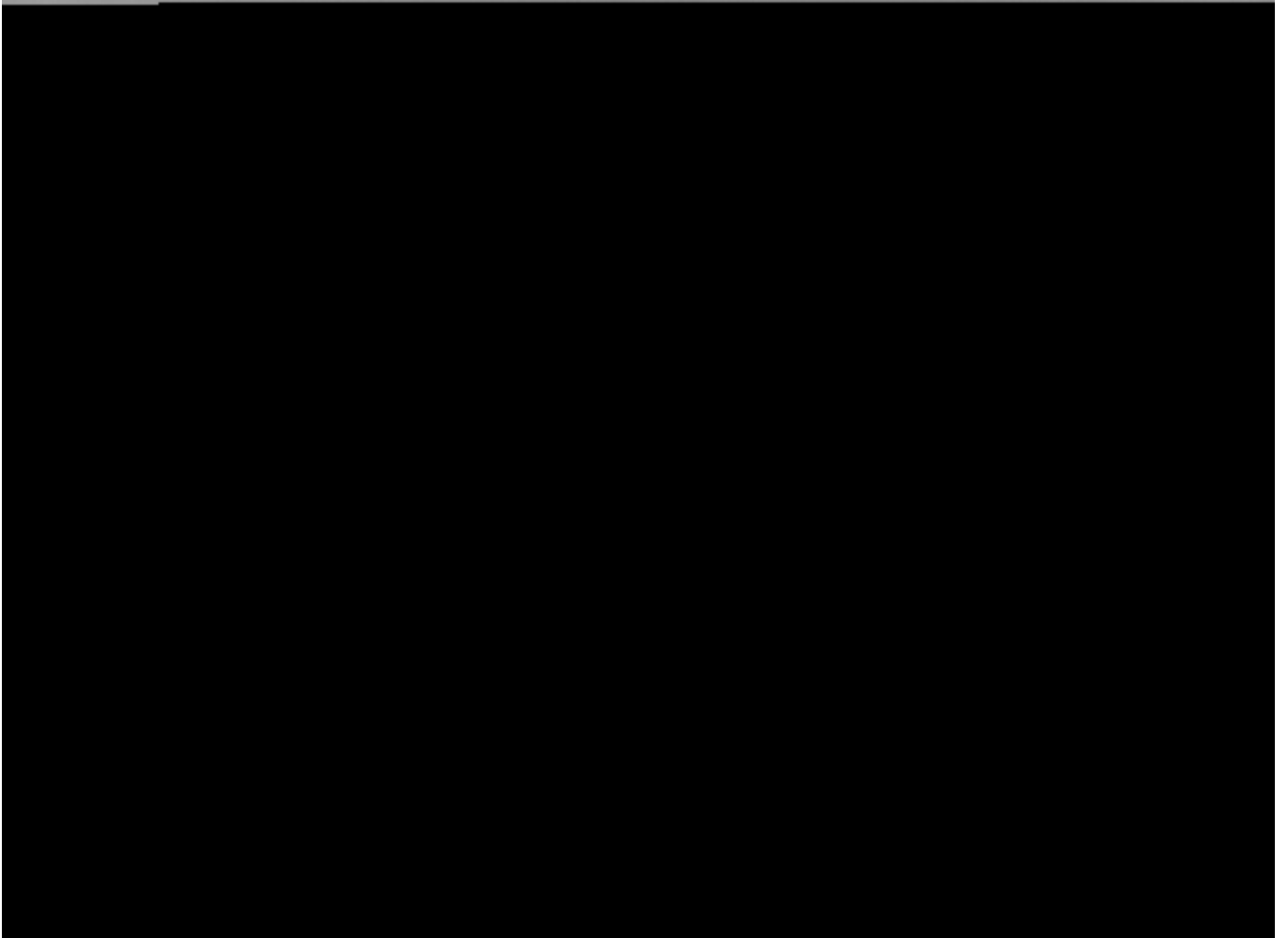
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LTBR tandem linear bearing units
 with closed housing and LBBR linear ball bearings
 F_w 12-50 mm

LTBR linear bearing unit
 with integral double lip seals

Dimensions													Basic load ratings		Mass	Designations
F_w	A	C	D_a	H	H_1	H_2	H_3	J	J_1	L	$N^{1)}$	N_1	dyn.	stat.		Linear bearing unit with double lip seals



LBCR linear ball bearings

LBCR linear ball bearings comprise a cage in which the balls are guided, together with the raceway segments and the seals or shields. By virtue of

Dimensions				No. of ball rows	Basic load ratings		Mass	Designations	
F _w	D	C	C ₃		dyn. C	stat C ₀		Linear ball bearings with 2 shields 2 seals	
mm				—	N		kg		
12	22	32	20	6	1 080	815	0,022	LBCm 12	LBCm 12-2LS
16	26	36	22	6	1 320	865	0,029	LBCm 16	LBCm 16-2LS
20	32	45	28	7	2 000	1 370	0,057	LBCm 20	LBCm 20-2LS
20									

32

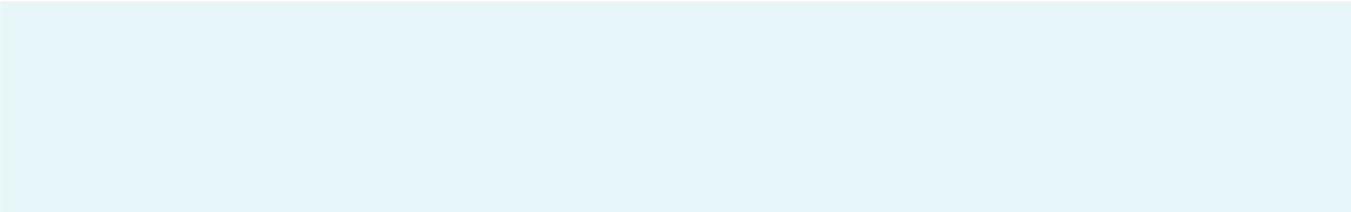
40

58

40

LCAN combinations linear ball bearing/needle roller bearing

F_w 12-50 mm



LUCE/LUCS linear bearing units

LUCE/LUCS linear bearing units are similar in design to the LUCD/LUCR units but instead of a closed housing they have a slotted housing with adjustment screw. They can be used for arrangements requiring zero clearance or preload. LUCE/LUCD linear ball bearing units are supplied with selfaligning LBCD linear ball bearings. LUCS/LUCR linear ball bearing units are supplied with rigid LBCR linear ball bearing units. These units are not available with linear plain bearings.

LUCF/LUCT linear bearing units

LUCF/LUCT linear bearing units are designed for applications where, because of heavy loads and/or long guidance lengths, the shaft must be supported either partially or along its entire length. For this reason the housings as well as the bearings have one sector cut away. In all other respects they are the same as the LUCD/LUCR units.

LUCE linear bearing units

with LBCD linear ball bearing and slotted housing, self-aligning, can be relubricated, adjustable in radial direction

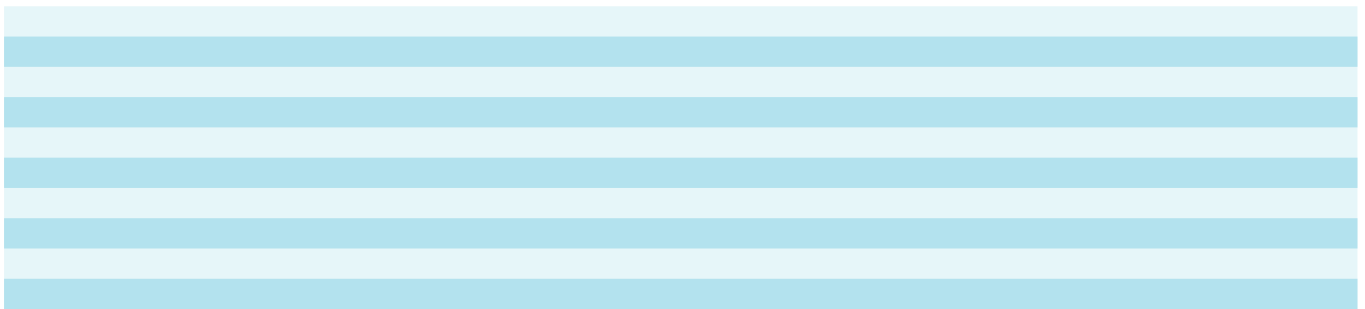
LUCS linear bearing units

with LBCR linear ball bearing and slotted housing, can be relubricated, adjustable in radial direction

F 8-80 mm

Linear bearing unit
with 2 shields

LUCE design



LUNE linear bearing units

with LBCD linear ball bearings and slotted housing, self-aligning, clearance adjustable, can be relubricated
F_w 12-50 mm

Linear bearing unit
with 2 shields

LUNE design

Dimensions

Basic load
ratings

Mass

Designations

LTCF tandem linear bearing units

with LBCF self-aligning linear ball bearings and open housing, can be relubricated.

F_w 12-50 mm

Linear bearing unit
with shields (Fig 1)³⁾

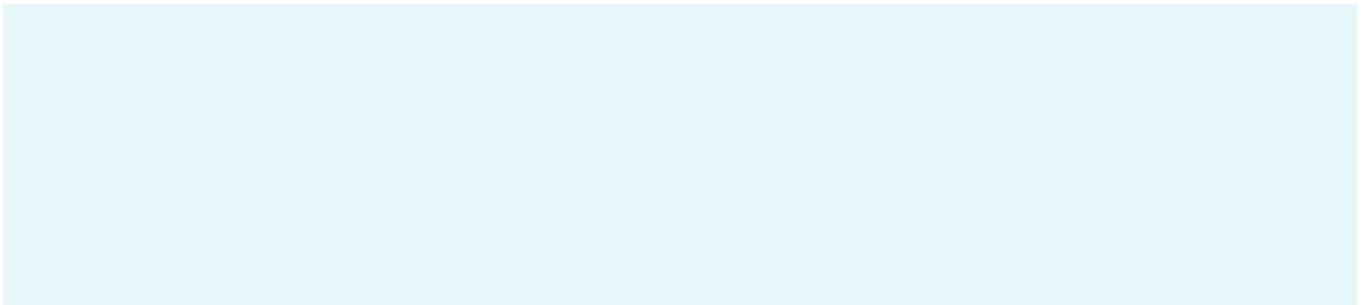
LTCF..2LS design

Dimensions	Basic load ratings	Mass	Designations
F	dyn. stat.		Linear bearing unit with shields



LSCS shaft blocks

d_a

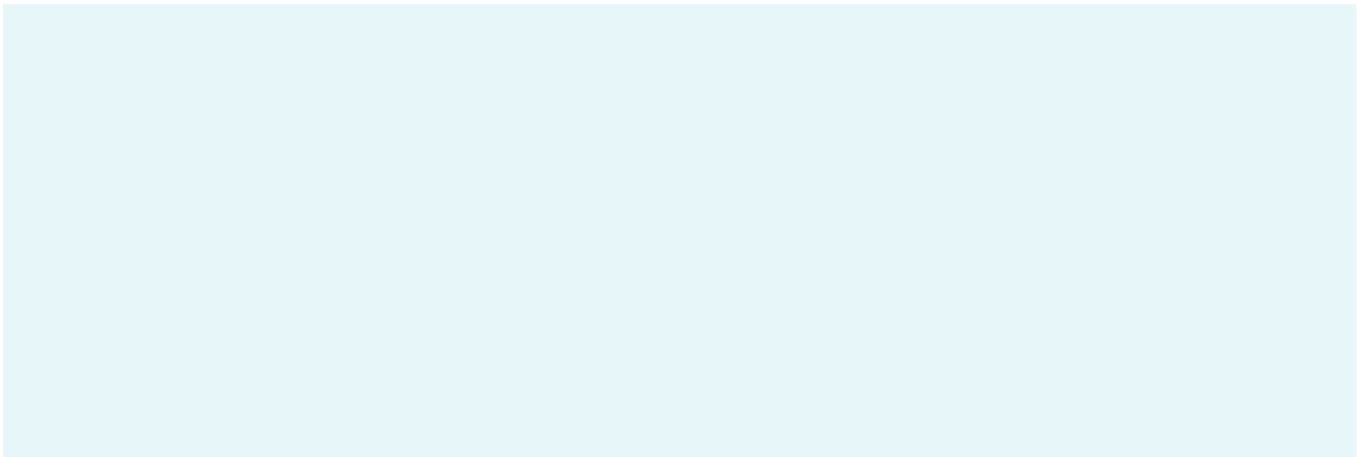


LEBS tandem shaft blocks

d_a 12-50 mm

LEAS tandem shaft blocks

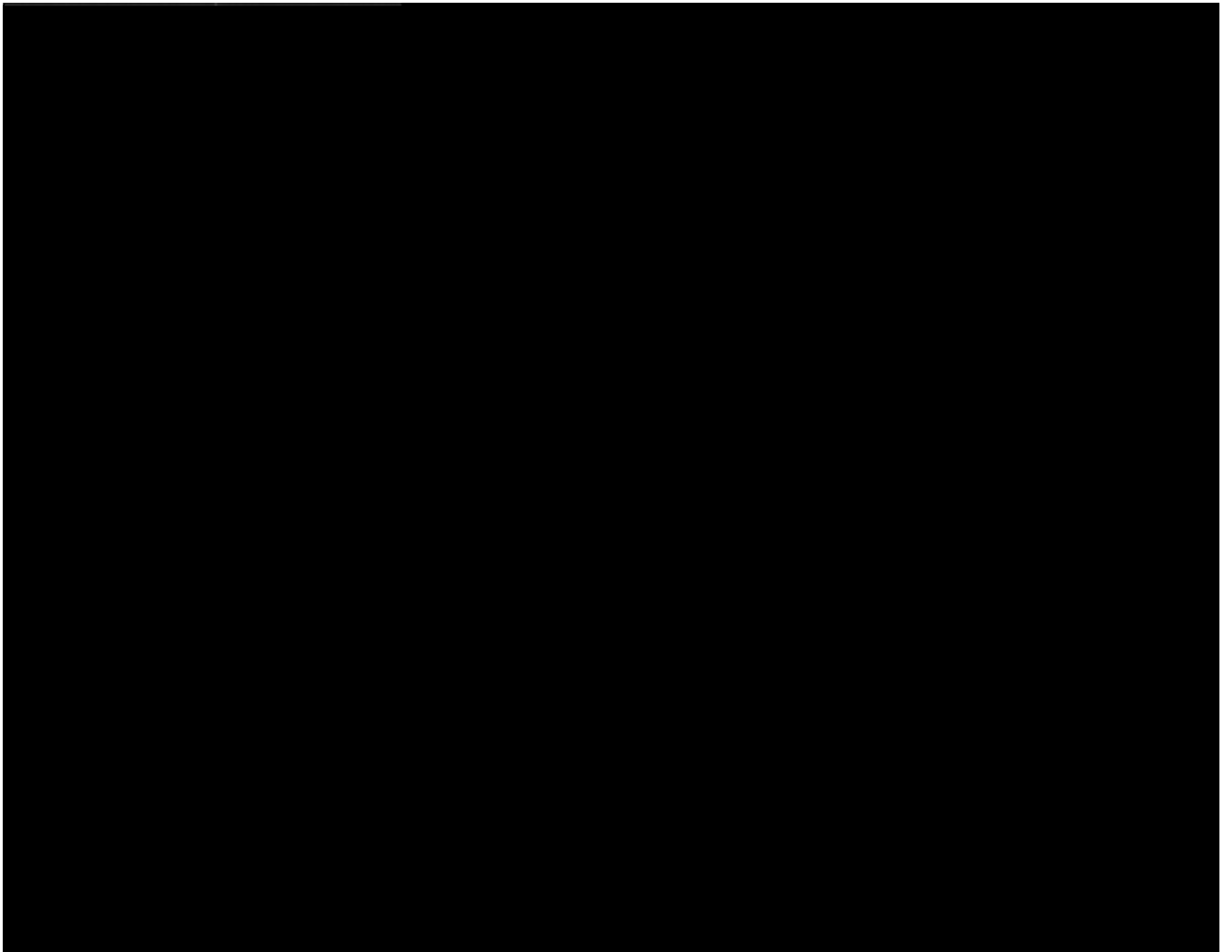
d_a 8-50 mm

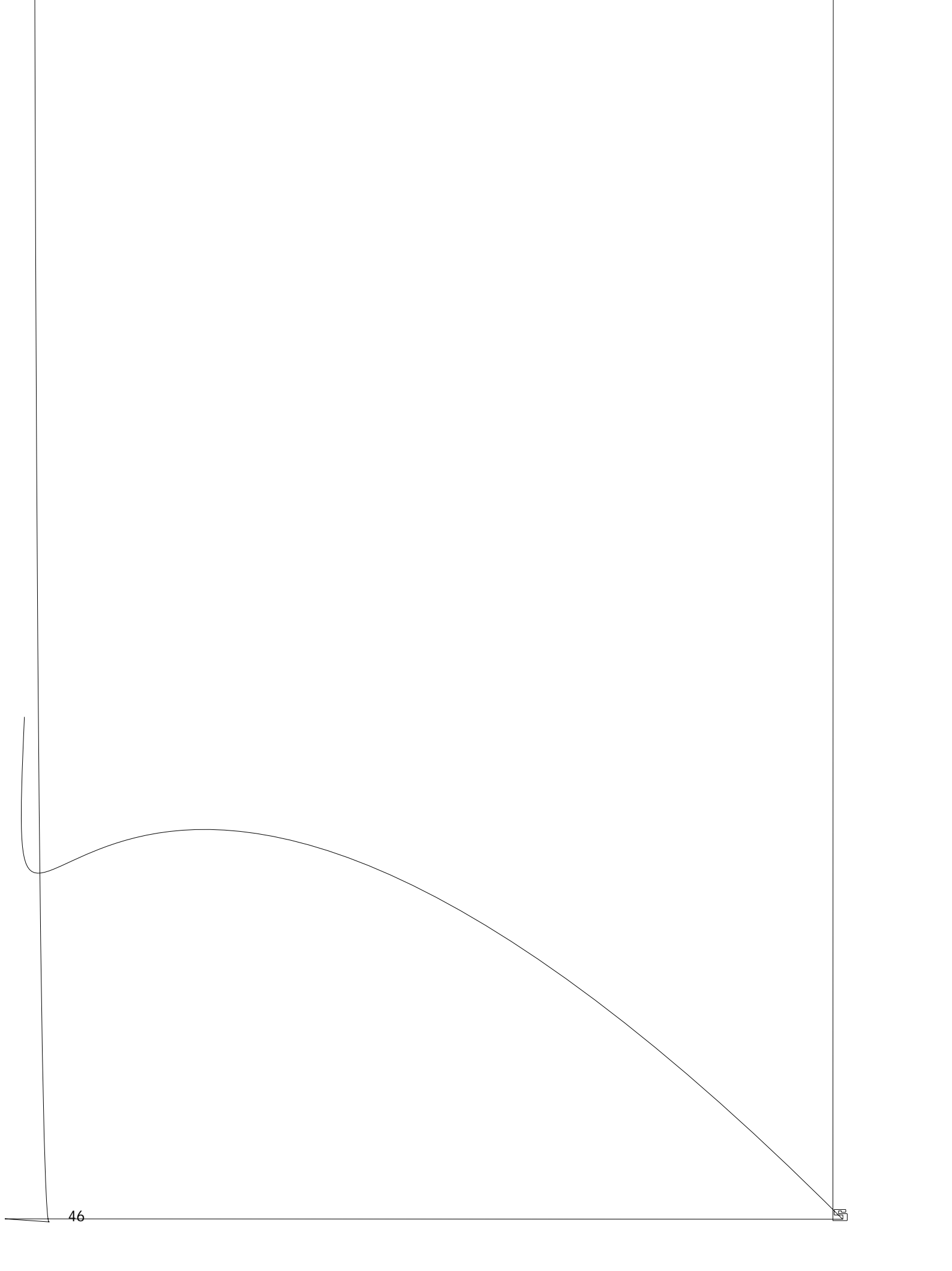


Quadro-Linear tables

LZBU quadro-linear tables

The closed LZBU quadro-linear table





Case depth of SKF shafts

Shaft diameter		Case depth
over	incl	min
mm		mm
—	10	0,5
10	18	0,8
18	30	1,2
30	50	1,5
50	80	2,2
80	100	3,0

Shaft diameter	Standard length			
	LJM	LJMH	LJMR LJMS	LJT
mm	mm			
5	2800 - 4100			
6	2800 - 4100			
8	3500 - 4100	3500 - 4100	3500 - 4100	
10	3500 - 4100	3500 - 4100	3500 - 4100	
12	5100 - 6200	5100 - 6200	5100 - 6200	5100 - 6200
14	5100 - 6200	5100 - 6200		
16	5100 - 6200	5100 - 6200	5100 - 6200	5100 - 6200
20	5100 - 6200	5100 - 6200	5100 - 6200	5100 - 6200
25	5100 - 6200	5100 - 6200	5100 - 6200	5100 - 6200
30	5100 - 6200	5100 - 6200	5100 - 6200	5100 - 6200
40	5100 - 6200	5100 - 6200	5100 - 6200	5100 - 6200
50	5100 - 6200	5100 - 6200	5100 - 6200	5100 - 6200
60	5100 - 6200	5100 - 6200		5100 - 6200
80	5100 - 6200	5100 - 6200		5100 - 6200

* Different diameters and length on request.

