

# Linear bearing cage KKLK

Series KKLK ball cage tape filled with balls



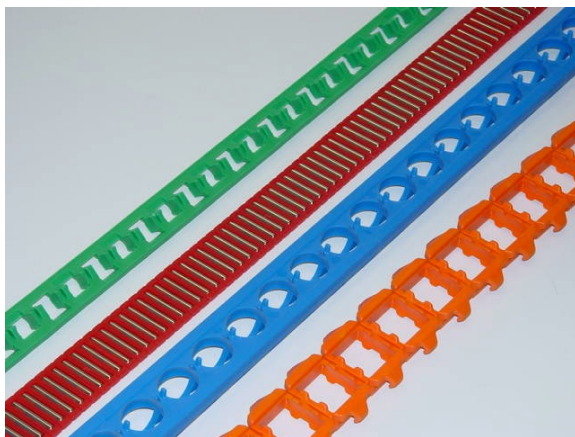
## General

Linear ball cages of series KKLK are pure plastic cage tapes which were mostly taken from the standard range (roller bearing cages) for the linear area. The cage tapes are made in metre lengths and are specially made by a separate tempering process for linear applications in greater lengths.

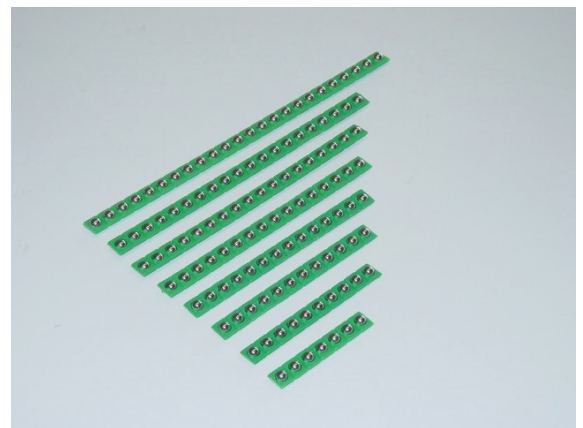
Ball cages of series KKLK have ball pockets with ball guides and supports. They are offered including the balls, in metre lengths or ready to install. The standard balls for filled linear ball cages are made according to DIN 5401 / Grade 15 (Class 2) of 100 Cr6 material. Variants made of other materials, eg: corrosion-resistant steel (X46Cr13 / 1.4034) or plastic (POM) or ceramic ( $AL_2O_3$ ) are also possible.

## Further options

KMF cage tapes for roller bearing and linear systems from the standard range are coloured according to the manufacturer's choice. For large quantities and call-up orders, special colours can be considered. Different colours are useful if different sorts of rollers are in use and these require quick allotment in assembly, or if different materials (chromium steel and stainless steel balls) are optically indistinguishable.



Differently coloured linear cages



Linear ball cages in different lengths ready to instal

KMF supply ready-to-install linear bearing cages, but prefer and advise many customers to use conventional „metre length“ to cut up themselves. For economic and logistical reasons, the manufacturing and supplied lengths are between 1000 and 1500 mm.

If longer lengths are required, these must be discussed with the manufacturer.

## Example of order / inquiry

KKLK 060	/	18	200 off	KKLK 060	100 metres
type incl.		no. of	quantity	type incl.	quantity in metres
balls		ball pockets	off	balls	or number off for
					cutting off yourself
					(1 m = 1 off)

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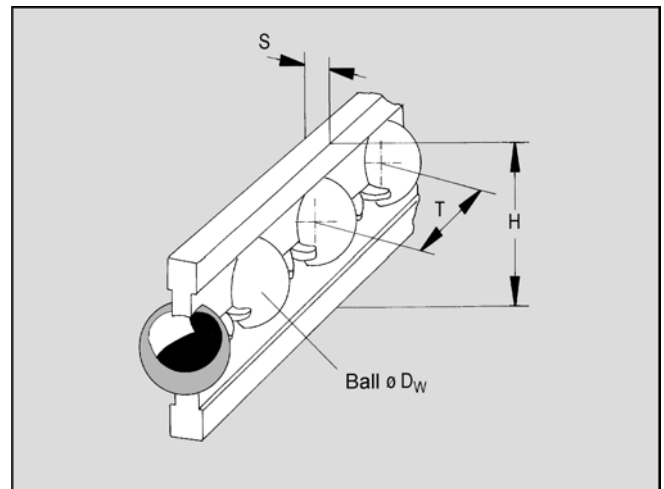
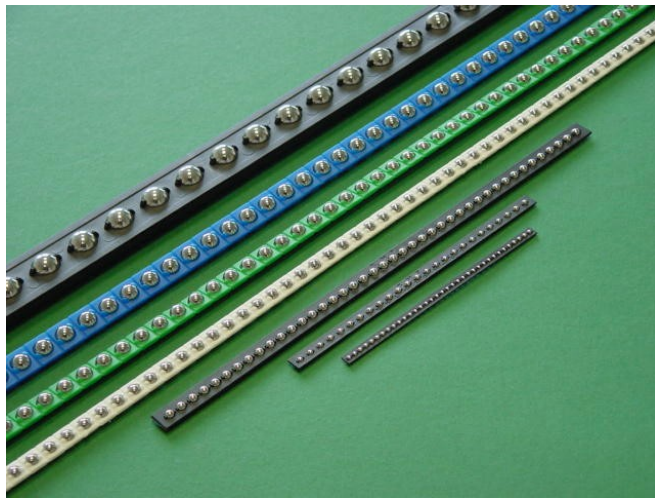


Table of dimensions [dimensions in mm]

KMF-type 1)	Ball Ø		H	S	T	HLG
	$D_w$	[inch]				
KKLK 015/...	1,500		3,5	0,45	2,2	80 2)
KKLK S16/...	1,588	1/16	3,1	0,50	2,2	85 2)
KKLK 016/...	1,588	1/16	3,5	0,50	2,2	85 2)
KKLK 020/...	2,000		5,0	0,75	3,9	102 2)
KKLK 021/...	2,000		5,0	0,75	3,0	MW
KKLK 023/...	2,381	3/32	6,0	0,80	3,6	MW
KKLK 030/...	3,000		7,0	1,00	4,2	180 2)
KKLK 031/...	3,000		7,0	1,00	4,2	MW
KKLK S32/...	3,175	1/8	4,4	0,70	4,2	MW
KKLK 032/...	3,175	1/8	7,0	1,00	4,2	MW
KKLK 039/...	3,969	5/32	6,3	1,30	5,8	MW
KKLK 040/...	4,000		6,3	1,30	5,8	MW
KKLK 047/...	4,762	3/16	8,0	1,50	6,8	MW
KKLK 050/...	5,000		8,0	1,50	6,8	MW
KKLK 060/...	6,000		9,0	1,60	7,8	MW
KKLK 063/...	6,350	1/4	9,0	1,60	7,8	MW
KKLK 079/...	7,938	5/16	12,0	2,00	12,0	MW
KKLK 080/...	8,000		12,0	2,00	12,0	MW
KKLK 090/...	9,000		15,0	2,00	11,5	MW
KKLK 095/...	9,525	3/8	12,6	2,50	12,0	MW
KKLK 100/...	10,000		13,2	2,50	12,5	MW
KKLK 110/...	11,000		13,7	2,50	14,0	MW
KKLK 111/...	11,112	7/16	13,7	2,50	14,0	MW
KKLK 127/...	12,700	1/2	22,0	3,50	16,0	MW

1) Other dimensions on request

MW = metre length

2) Material POM

For linear bearing cages with limited manufacturing length (HLG) from individual tools, the material POM (polyacetalene) is used.

The most important thermal properties are

- keeping its shape up to 105°C
- melting temperature 177°C
- linear coefficient of thermal expansion ( $1 \times 10^{-5}$ ) 10,4 for -40°C to 30°C (complete datasheet on request)