

Dimensions in mm

A	A <sub>1</sub>	A <sub>2</sub>	B	D <sup>3)</sup>	K	K <sub>1</sub>	L <sub>max</sub> <sup>1)</sup>	L <sub>1 min</sub> <sup>1)</sup>	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	M	N	N <sub>1</sub>	O	S	T	T <sub>1</sub>	U	U <sub>1</sub>	U <sub>2</sub>	U <sub>3</sub>	SW <sub>1</sub>	SW <sub>2</sub>	SW <sub>3</sub>
20	17	56	69	4.5	8.0	15	2000	13.25	31.25	62.5	34	49	39	34	M 5	5	4.6	—	22.0	8.7	13.0	20.5	2	7	3
25	21	65	85	5.5	10.0	15	2000	13.75	31.25	62.5	45	60	50	40	M 5	5	6.5	—	25.0	9.0	14.4	23.5	2	7	3
25	21	65	85	5.5	8.2	15	2000	—	—	(62.5)	45	60	50	40	M 5	5	3.0	5	25.0	9.0	14.4	23.5	2	7	3
32	24	86	112	6.5	12.0	20	3000	13.75	62.50	125.0	60	70	59	54	M 8	7	8.0	—	35.5	14.0	20.5	32.0	3	10	5
32	24	86	112	6.5	12.0	20	3000	13.75	31.25	62.5	60	70	59	54	M 8	7	8.0	—	35.5	14.0	20.5	32.0	3	10	5
32	24	86	112	6.5	10.5	20	3000	—	—	(125.0)	60	70	59	54	M 8	7	4.0	6	35.5	14.0	20.5	32.0	3	10	5
52	40	130	136	11.0	19.0	30	4000	20.00	125.00	250.0	60	70	90	83	M10	10	13.0	—	54.3	19.4	29.2	46.1	5	17	8
52	40	130	136	11.0	19.0	30	4000	20.00	62.50	125.0	60	70	90	83	M10	10	13.0	—	54.3	19.4	29.2	46.1	5	17	8
52	40	145	186	11.0	19.0	30	4000	20.00	62.50	125.0	105	110	105	90	M10	10	13.0	—	60.4	24.0	35.3	53.8	5	17	8
52	40	155	205	13.0	21.0	34	4000	20.00	31.25	62.5	120	140	115	95	M12	10	15.0	—	60.4	24.0	35.3	55.0	6	19	10

<sup>1)</sup> Standard lengths are available in multiples of L<sub>2</sub> (L<sub>min</sub>=2 · L<sub>2</sub>). For special lengths the hole pattern is determined and L<sub>1</sub> is calculated from the order length.

<sup>2)</sup> Number of fixing holes  $x = \frac{L}{L_2}$ . For LF... KN-..., L<sub>2</sub> is the recommended distance between screws.

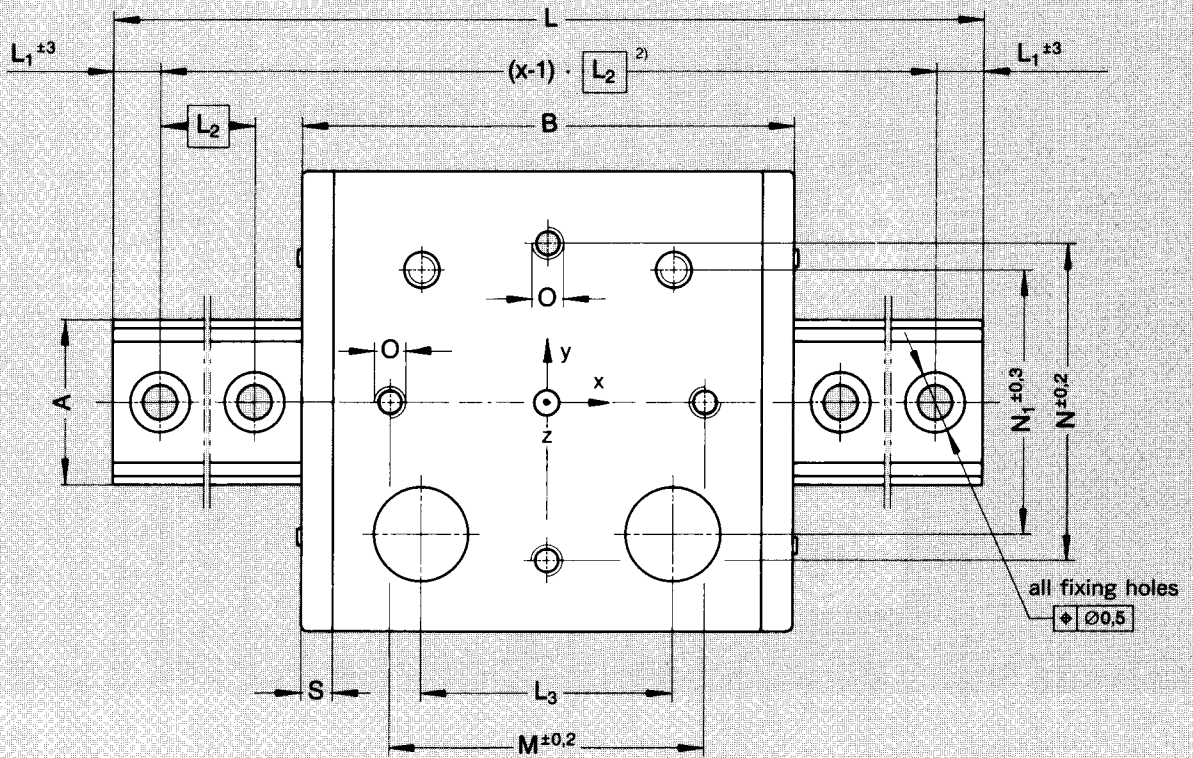
<sup>3)</sup> For fixing screws to DIN 912-8.8 (for LF ...KN-...=DIN 931/933-8.8). When using the maximum load for the system, washers to DIN 433 are required. (The washers are supplied with the slotted design).

<sup>4)</sup> Concentric bolt supplied tightened to M<sub>A</sub>.

<sup>5)</sup> Mass of carriage. For guideway mass see page 120-121.

<sup>6)</sup> LF 25065 K(N)-... without lubricating nipple. Can be relubricated by means of hole in end face.

<sup>7)</sup> Where there is a combined load, checking according to the calculation method is recommended.

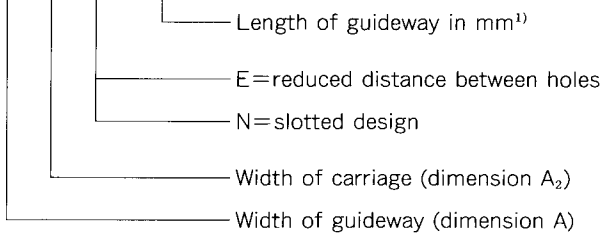


$M_A^{4)}$ [Nm]	Mass <sup>5)</sup> kg	Permissible loads <sup>7)</sup> Forces in [N]				Moments in [Nm]						Compact carriage	System
		$F_{yperm}$	$F_{overperm}$	$F_{zperm}$	$F_{ozperm}$	$M_{xperm}$	$M_{oxperm}$	$M_{yperm}$	$M_{oyperm}$	$M_{zperm}$	$M_{ozperm}$		
2.8	0.2	700	700	400	600	3.4	5.1	6.8	11.4	12.2	12.2	LFKL 69- 56	LF 20056 K-...
2.8	0.3	700	700	400	660	4	6	9	15	16	16	LFKL 85- 65	LF 25065 K-...
2.8	0.3	700	700	400	660	4	6	9	15	16	16	LFKL 85- 65	LF 25065 KN-...
9.6	0.5	1000	1000	850	1400	11	18	26	43	30	30	LFKL 112- 86	LF 32086 K-...
9.6	0.5	1400	1400	850	1400	11	18	26	43	42	42	LFKL 112- 86	LF 32086 KE-...
9.6	0.5	1000	1000	850	1400	11	18	26	43	30	30	LFKL 112- 86	LF 32086 KN-...
46.0	1.5	2500	2500	1500	2500	33	52	47	78	75	75	LFKL 136-130	LF 52130 K-...
46.0	1.5	3500	3500	1500	2500	33	52	47	78	105	105	LFKL 136-130	LF 52130 KE-...
46.0	2.7	4500	4500	2400	4000	51	84	126	210	236	236	LFKL 186-145	LF 52145 K-...
79.0	4.3	8000	8000	4800	7900	101	166	288	474	480	480	LFKL 205-155	LF 52155 K-...

Ordering examples:

For standard designs:

**LF 52 130 KE - 3500**



For multiple carriage designs:

**LF 52 130 KE/3 - 3500**

Number of carriage per guideway

The height of the carriages can differ by 0,2 mm: the distance between the carriages should therefore be at least 3B.

