

Dimensions in mm

| A | A ₁ | A ₂ | B | D ³⁾ | F _x depth | K | L _{max} ¹⁾ | L _{1min} ¹⁾ | L ₁ | L ₂ ²⁾ | L ₃ | M | N | N ₁ | N ₂ | O | T | U | U ₁ | U ₂ | R | SW |
|----|----------------|----------------|-----|-----------------|----------------------|------|--------------------------------|---------------------------------|----------------|------------------------------|----------------|-----|-----|----------------|----------------|-----|----|------|----------------|----------------|----|----|
| 32 | 24 | 80 | 90 | 6,5 | M 6x8 | 12,0 | 3000 | 13,75 | 62,50 | 125,0 | 60 | 70 | 59 | 54 | 56 | M 8 | 8 | 35,5 | 14,0 | 20,5 | 7 | 13 |
| 32 | 24 | 80 | 90 | 6,5 | M 6x8 | 10,5 | 3000 | — | — | (125) | 60 | 70 | 59 | 54 | 56 | M 8 | 4 | 35,5 | 14,0 | 20,5 | 7 | 13 |
| 32 | 24 | 80 | 90 | 6,5 | M 6x8 | 12,0 | 3000 | 13,75 | 31,25 | 62,5 | 60 | 70 | 59 | 54 | 56 | M 8 | 8 | 35,5 | 14,0 | 20,5 | 7 | 13 |
| 32 | — | 80 | 90 | — | M 6x8 | — | 4000 | — | — | — | 60 | 70 | 59 | 54 | 56 | M 8 | — | 25,5 | 14,0 | 20,5 | 7 | 13 |
| 52 | 40 | 120 | 100 | 11,0 | M 6x12 | 19,0 | 4000 | 20,0 | 125,00 | 250,0 | 60 | 70 | 90 | 83 | 65 | M10 | 13 | 54,3 | 19,5 | 29,2 | 10 | 17 |
| 52 | 40 | 120 | 100 | 11,0 | M 6x12 | 19,0 | 4000 | 20,0 | 62,50 | 125,0 | 60 | 70 | 90 | 83 | 65 | M10 | 13 | 54,3 | 19,5 | 29,2 | 10 | 17 |
| 52 | — | 120 | 100 | — | M 6x12 | — | 4000 | — | — | — | 60 | 70 | 90 | 83 | 65 | M10 | — | 38,2 | 19,5 | 29,2 | 10 | 17 |
| 52 | 40 | 135 | 150 | 11,0 | M 6x12 | 19,0 | 4000 | 20,0 | 62,50 | 125,0 | 105 | 110 | 105 | 90 | 65 | M10 | 13 | 60,4 | 24,0 | 35,3 | 12 | 17 |

¹⁾ Standard lengths are available in multiples of L₂ (L_{min} = 2 · L₂).
For special lengths L₁ is equal at both ends.

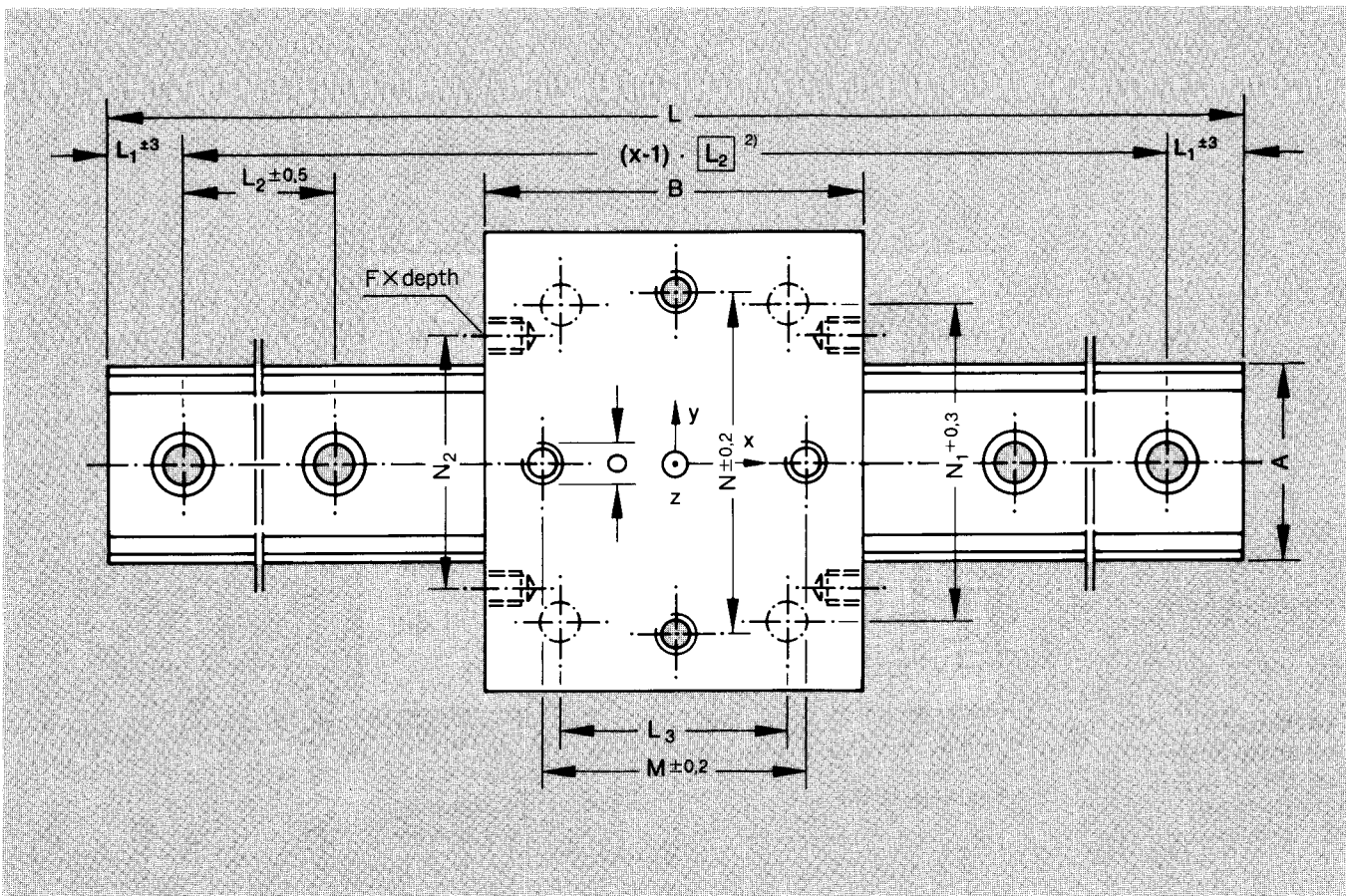
²⁾ Number of fixing holes $x = \frac{L_1}{L_2}$. For LF... N..., L₂ is the recommended distance between screws.

³⁾ For fixing screws to DIN 912-8.8 (for LF 32080N... = 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).

⁴⁾ Concentric bolt supplied tightened to M_A.

⁵⁾ Mass of carriage. For guideway mass see page 120-121.

⁶⁾ Where there is a combined load, checking according to the calculation method is recommended.



| M _A ⁴⁾ [Nm] | SW ₁ | Mass ⁵⁾ kg | Permissible loads ⁶⁾ Forces in [N] | | | | Moments in [Nm] | | | | | | Carriage | System |
|--------------------------------------|-----------------|--------------------------|--|---------------------|--------------------|---------------------|--------------------|---------------------|--------------------|---------------------|--------------------|---------------------|-------------|----------------|
| | | | F _{yperm} | F _{oyperm} | F _{zperm} | F _{ozperm} | M _{xperm} | M _{oxperm} | M _{yperm} | M _{oyperm} | M _{zperm} | M _{ozperm} | | |
| 23 | 5 | 0,4 | 1000 | 1000 | 850 | 1400 | 11 | 18 | 26 | 43 | 30 | 30 | LFL 90- 80 | LF 32080 -... |
| 23 | 5 | 0,4 | 1000 | 1000 | 850 | 1400 | 11 | 18 | 26 | 43 | 30 | 30 | LFL 90- 80 | LF 32080 N-... |
| 23 | 5 | 0,4 | 1400 | 1400 | 850 | 1400 | 11 | 18 | 26 | 43 | 42 | 42 | LFL 90- 80 | LF 32080 E-... |
| 23 | 5 | 0,4 | (1000) | (1000) | (850) | (1400) | (11) | (18) | (26) | (43) | (30) | (30) | LFL 90- 80 | LF 32080 F-... |
| 46 | 6 | 1,0 | 2500 | 2500 | 1500 | 2500 | 33 | 52 | 47 | 78 | 75 | 75 | LFL 100-120 | LF 52120 -... |
| 46 | 6 | 1,0 | 3500 | 3500 | 1500 | 2500 | 33 | 52 | 47 | 78 | 105 | 105 | LFL 100-120 | LF 52120 E-... |
| 46 | 6 | 1,0 | (2500) | (2500) | (1500) | (2500) | (33) | (52) | (47) | (78) | (75) | (75) | LFL 100-120 | LF 52120 F-... |
| 79 | 6 | 1,9 | 4500 | 4500 | 2400 | 4000 | 51 | 84 | 126 | 210 | 236 | 236 | LFL 150-135 | LF 52135 -... |

1N=0.102kgf

Ordering examples:

For standard designs:

LF 52 120 E - 3500

- Length of guideway in mm¹⁾
- E=reduced distance between holes
- N=slotted design
- F=flat guideway
- Width of carriage (dimension A₂)
- Width of guideway (dimension A)

For multiple carriage designs:

LF 52 120 E/3 - 3500

Number of carriages per guideway

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