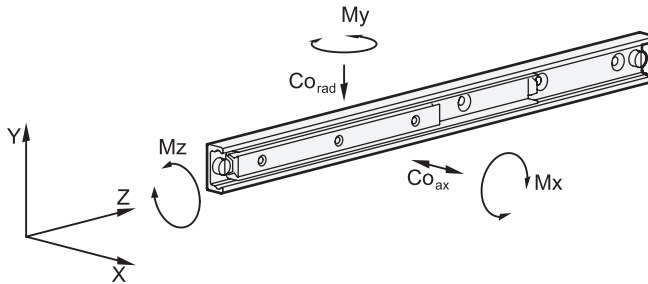


When selecting a suitable linear slide, it is primarily the available space, the desired stroke and the load carried which must be taken into consideration. The values listed below are intended as guidelines for selecting the most suitable nominal rail size.

The details on load rating are non-binding guide values given without liability and does not constitute any type of guarantee or warranty of its intended use. The user must determine in each individual case whether a product is suitable for the intended application. Environmental factors and aging may affect the stated values.



Static load rating

| Article No. | Load ratings | | Permissible load torques | | |
|---------------------|-----------------|----------------|--------------------------|-------------|-------------|
| | Co_{rad} in N | Co_{ax} in N | M_x in Nm | M_y in Nm | M_z in Nm |
| GN 2402 -28- 60-... | 3580 | 2500 | 37 | 25 | 18 |
| -28- 80-... | 4780 | 3345 | 65 | 45 | 23 |
| -28-130-... | 7765 | 5435 | 166 | 117 | 38 |
| -28-210-... | 12545 | 8780 | 430 | 300 | 62 |
| -35-130-... | 9980 | 6985 | 219 | 156 | 50 |
| -35-210-... | 16125 | 11290 | 560 | 397 | 87 |
| -35-290-... | 22270 | 15590 | 1085 | 745 | 109 |
| -43-210-... | 23140 | 16200 | 790 | 552 | 157 |
| -43-370-... | 40775 | 28540 | 2445 | 1710 | 275 |
| GN 2404 -28-130 | 645 | 452 | 30 | 23 | 17 |
| -28-210 | 1165 | 816 | 86 | 60 | 27 |
| -28-290 | 2015 | 1410 | 190 | 135 | 41 |
| -28-370 | 2540 | 1780 | 309 | 215 | 52 |
| -28-450 | 3065 | 2145 | 540 | 316 | 64 |
| -28-530 | 3595 | 2515 | 625 | 435 | 74 |
| -35-290 | 2100 | 1470 | 218 | 155 | 56 |
| -35-370 | 2685 | 1880 | 348 | 247 | 69 |
| -35-450 | 3270 | 2285 | 515 | 365 | 80 |
| -35-530 | 4350 | 3045 | 787 | 553 | 101 |
| -35-610 | 4930 | 3450 | 1025 | 722 | 113 |
| -35-690 | 5510 | 3860 | 1295 | 914 | 125 |
| -43-370 | 3540 | 2480 | 444 | 313 | 119 |
| -43-450 | 4905 | 3435 | 735 | 514 | 151 |
| -43-530 | 6305 | 4415 | 1090 | 766 | 184 |
| -43-610 | 7725 | 5410 | 1525 | 1065 | 210 |
| -43-690 | 8185 | 5730 | 1850 | 1295 | 240 |
| -43-770 | 9490 | 6530 | 2405 | 1685 | 273 |

Load rating of telescopic linear slides

in ascending order of the standard series numbers

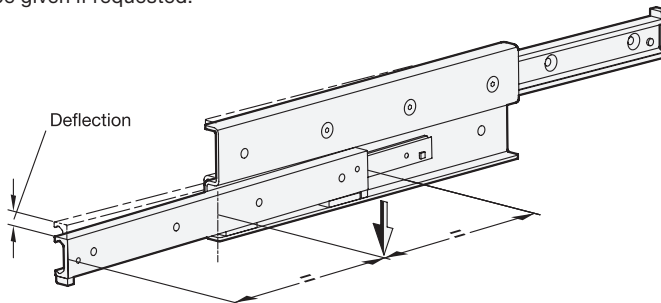
| Article no. | Load ratings $C_{O_{rad}}$ in N | Article no. | Load ratings $C_{O_{rad}}$ in N | Article no. | Load ratings $C_{O_{rad}}$ in N |
|--------------------|------------------------------------|---------------------|------------------------------------|-----------------|------------------------------------|
| GN 2406 -28- 290-E | 587 | GN 2408 -28-210-... | 447 | GN 2410 -28-210 | 444 |
| -28- 370-E | 793 | -28-370-... | 1000 | -28-370 | 496 |
| -28- 450-E | 999 | -28-450-... | 1205 | -28-450 | 405 |
| -28- 530-E | 1205 | -28-530-... | 1140 | -28-530 | 342 |
| -28- 610-E | 1510 | -35-370-... | 1035 | -35-370 | 534 |
| -35- 450-E | 1265 | -35-450-... | 1265 | -35-450 | 439 |
| -35- 530-E | 1700 | -35-530-... | 1705 | -35-530 | 403 |
| -35- 690-E | 2150 | -35-610-... | 1930 | -35-610 | 346 |
| -35- 850-E | 2830 | -43-450-... | 1890 | -43-450 | 1370 |
| -43- 530-E | 2140 | -43-610-... | 3035 | -43-610 | 1115 |
| -43- 690-E | 2885 | -43-770-... | 3145 | -43-770 | 870 |
| -43- 850-E | 4010 | -43-930-... | 2580 | -43-930 | 714 |
| -43-1010-E | 4755 | | | | |
| -43-1490-E | 3820 | | | | |

No details on the permissible load torques are given for the telescopic linear slides as these are normally used for paired applications. Loads of these dimensions occur to a minor degree because it may be assumed that the surrounding construction has sufficient rigidity and stiffness. Transferring load torques within certain limited is permitted.

Static load and deflection

The load values given in the tables refer to a maximum permissible force allowed to act in the middle of the fully extended profile rail at the third segment.

If the given values are observed and if the telescopic linear slide is fully extended, a minor deflection (sag) occurs at the end of the runner or of the rail. This has normally no detrimental effect on the proper function of the application. If required, guide values may be given if requested.



Mounting screws, assignment of the mounting holes

The standard mounting hardware is DIN 7991-10.9 countersunk head screws, to be mounted with the recommended tightening torque. Depending on type, not all mounting holes may be utilized. In general, these holes can be left unused. In exceptional cases, especially in bilateral stroke, mounting holes can be accessed by loosening the support screws and by pulling out the runner. The support screws are then put back in place.

Traversal speed, cage slip

The traversal speed in linear slides can be as much as 0,8 m/s. The particular application and the installation length can have an effect on this value. In the event of rapid changes of direction and high accelerating forces, cage slip may occur in some cases, especially in long ball cages. In cases such as these, the cage does not move synchronously with half the speed of the runner, but gradually loses its correct position owing to the slip. Whenever possible, running a blank stroke to the end of the traversal distance should be provided for back positioning.