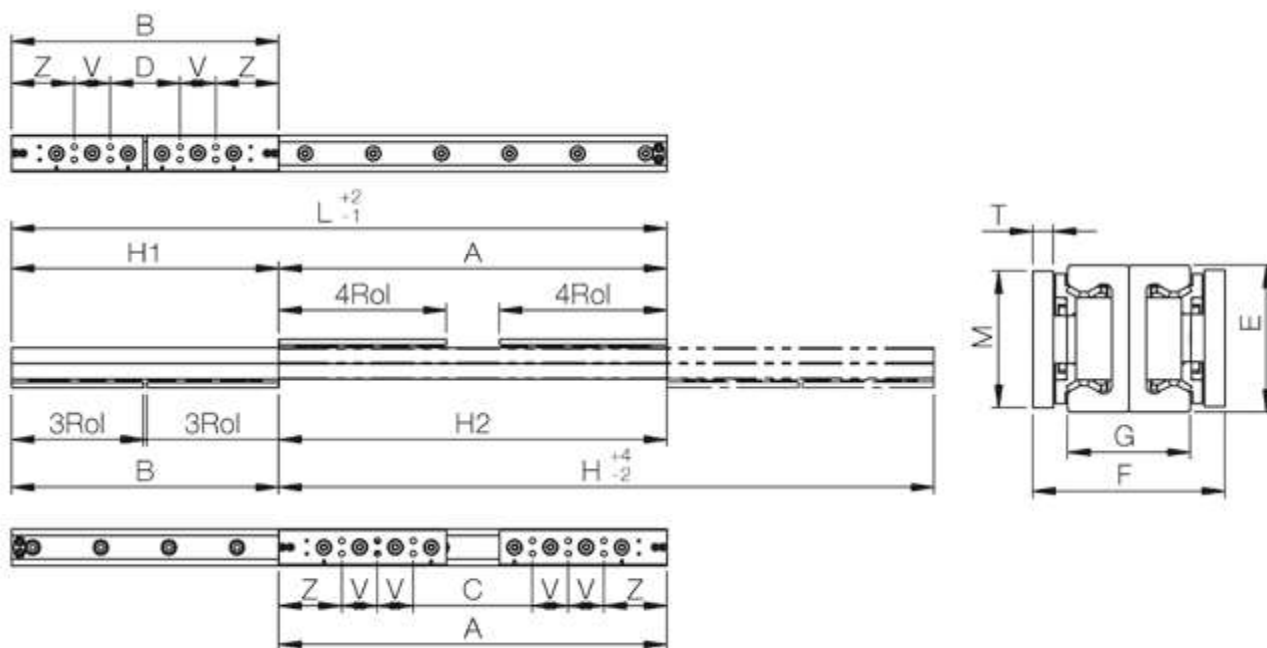
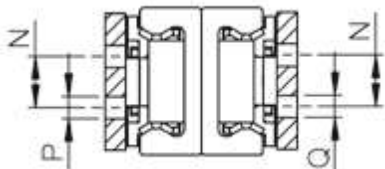


HIGH PERFORMANCE ROLLER TELESCOPIC SLIDES TLQ SERIES

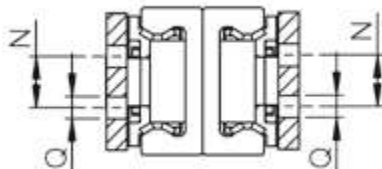


VERSION TLQ.



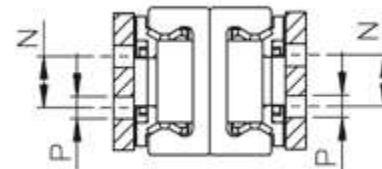
Fixed Sliders through passing fixing holes
Mobile Sliders threaded fixing holes

VERSION TLQ. FF



All Sliders threaded fixing holes

VERSION TLQ. CC

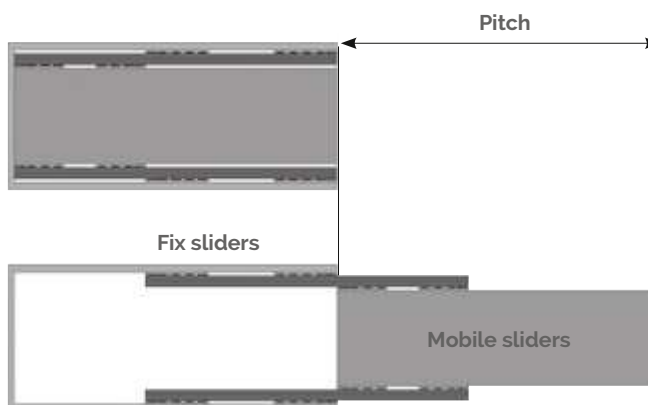


All Sliders through passing fixing holes

| Code | E (mm) | F (mm) | G (mm) | M (mm) | T (mm) | N (mm) | P (mm) | Q (mm) | Sliders | | Z (mm) | V (mm) | Weight (kg/m) | Weight 4 sliders (Kg) |
|---------|--------|--------|--------|--------|--------|--------|--------------------------|--------|---------|---------------|--------|--------|---------------|-----------------------|
| | | | | | | | | | Type | Length L (mm) | | | | |
| TLQ18FF | 18 | 29,4 | 19 | 15 | 3 | 8 | - | M4 | 3Rol | 87 | 48 | 21 | 1,4 | 0,4 |
| TLQ28.. | 28 | 36,6 | 23,9 | 25 | 4 | 10 | Ø5,5 for screw M5 DIN912 | M5 | 3Rol | 111,5 | 58 | 29 | 2,5 | 1,5 |
| | | | | | | | | | 4Rol | 140,5 | | | | |
| TLQ43.. | 43 | 56,4 | 36 | 40 | 6 | 15 | Ø6,5 for screw M6 DIN912 | M6 | 3Rol | 155 | 74 | 42 | 6 | 2,4 |
| | | | | | | | | | 4Rol | 197 | | | | |

CUSTOMIZED STROKE

TLQ slides offer the unique possibility to easily customize the actual stroke H, to individual needs by the standard products. This is obtained simply by repositioning the slider distance "A" for "Fixed sliders" and distance "B" for "Mobile sliders", with different distances than indicated on this page. Just keep in mind that distance A is always bigger than B, to maximize the load capacity. The concept is that by reducing distances A and B the total stroke increases but the Load capacity decreases, conversely increasing the distances A and B the total stroke is reduced, while the load capacity increases. Contact T RACE's Technical office for load capacities according to customized stroke.



INSTALLATION NOTES FOR RADIAL LOADS

The slide must be installed with the mark "Up-side" facing upwards, when considering RADIAL loads. The sliders attached to structure are marked "Fix-sliders" while the sliders mounted to mobile part are marked "Mobile sliders". When used in pairs, the same slide can be installed left or right, just by rotating the slide, keeping the mark "Up-side" facing upwards, for radial loads.

| ORDER CODE | VERSION | CHARACTERISTICS |
|---------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TLQ43-1010 | BASIC | Cold drawn steel rails with patented "T RACE-NOX 1.0"; high depth nitride hardening and black oxidation treatment. The rails are cut to size after treatment, so the rail ends are protected by protective spray. The rollers are core hardened steel. |
| TLQ43-1010-KL | KL | As a basic TLQ product but with additional black "T RACE e-coating 1.0" on the rails, for high corrosion resistance (min 700 hours resistance in salt fog). The rail has no T RACE e-coating on the raceway contact area with the rollers, as masked before the treatment. The raceways are anyhow with standard oxidation while the wipers with incorporated pre-oiled felt assure lubrication and corrosion protection of raceways. |
| TLQ43-1010-KB | KB | As the version KL but with the rollers made in stainless steel AISI440C |

| Code | L (mm) | H (mm) | Fix sliders (mm) | | | Mobile sliders (mm) | | | Capacity load | | | | | |
|-------------|-----------------------|--------|------------------|-----------------------|---------------------|---------------------|--------|---------------------|---------------------------|-----------------------|----------------------|---------------------|---------------------|---------------------|
| | | | A (mm) | C (mm) | H ₁ (mm) | B (mm) | D (mm) | H ₂ (mm) | Dynamic coefficient C (N) | Co _{rad} (N) | Co _{ax} (N) | M _x (Nm) | M _y (Nm) | M _z (Nm) |
| TLQ18FF-370 | 370 | 370 | 185 | 47 | 185 | 185 | 47 | 185 | 725 | 351 | 175 | 6 | 109 | 47 |
| TLQ18FF-450 | 450 | 450 | 270 | 132 | 180 | 180 | 42 | 270 | 1159 | 473 | 213 | 6 | 101 | 43 |
| TLQ18FF-530 | 530 | 530 | 318 | 180 | 212 | 212 | 74 | 318 | 1.267 | 414 | 187 | 6 | 134 | 60 |
| TLQ18FF-610 | 610 | 610 | 366 | 228 | 244 | 244 | 106 | 366 | 1.343 | 369 | 166 | 6 | 134 | 60 |
| TLQ18FF-690 | 690 | 690 | 414 | 276 | 276 | 276 | 138 | 414 | 1.400 | 332 | 150 | 6 | 134 | 60 |
| TLQ18FF-770 | 770 | 770 | 462 | 324 | 308 | 308 | 170 | 462 | 1.445 | 302 | 136 | 6 | 134 | 60 |
| Slider type | All sliders type 3Rol | | | All sliders type 3Rol | | | | | | | | | | |

| Code | L (mm) | H (mm) | Fix sliders (mm) | | | Mobile sliders (mm) | | | Capacity load | | | | | |
|-------------|---------------------------------------------------------|--------|------------------|-----------------------|---------------------|---------------------|--------|---------------------|---------------------------|-----------------------|----------------------|---------------------|---------------------|---------------------|
| | | | A (mm) | C (mm) | H ₁ (mm) | B (mm) | D (mm) | H ₂ (mm) | Dynamic coefficient C (N) | Co _{rad} (N) | Co _{ax} (N) | M _x (Nm) | M _y (Nm) | M _z (Nm) |
| TLQ28.-450 | 450 | 450 | 227 | 53 | 223 | 223 | 49 | 227 | 602 | 464 | 232 | 18 | 96 | 128 |
| TLQ28.-530 | 530 | 530 | 307 | 133 | 223 | 223 | 49 | 307 | 1138 | 877 | 438 | 18 | 96 | 128 |
| TLQ28.-610 | 610 | 610 | 360 | 128 | 250 | 250 | 76 | 360 | 1335 | 1029 | 404 | 18 | 128 | 171 |
| TLQ28.-690 | 690 | 690 | 408 | 176 | 282 | 282 | 108 | 408 | 1458 | 958 | 366 | 18 | 158 | 222 |
| TLQ28.-770 | 770 | 770 | 456 | 224 | 314 | 314 | 140 | 456 | 1552 | 877 | 335 | 18 | 158 | 273 |
| TLQ28.-850 | 850 | 850 | 504 | 272 | 346 | 346 | 172 | 504 | 1626 | 808 | 309 | 18 | 158 | 288 |
| TLQ28.-930 | 930 | 930 | 552 | 320 | 378 | 378 | 204 | 552 | 1687 | 750 | 286 | 18 | 158 | 288 |
| TLQ28.-1010 | 1010 | 1010 | 600 | 368 | 410 | 410 | 236 | 600 | 1737 | 699 | 267 | 18 | 158 | 288 |
| TLQ28.-1090 | 1090 | 1090 | 648 | 416 | 442 | 442 | 268 | 648 | 1779 | 655 | 250 | 18 | 158 | 288 |
| TLQ28.-1170 | 1170 | 1170 | 696 | 464 | 474 | 474 | 300 | 696 | 1814 | 616 | 235 | 18 | 158 | 288 |
| TLQ28.-1250 | 1250 | 1250 | 744 | 512 | 506 | 506 | 332 | 744 | 1845 | 581 | 222 | 18 | 158 | 288 |
| TLQ28.-1330 | 1330 | 1330 | 792 | 560 | 538 | 538 | 364 | 792 | 1872 | 550 | 210 | 18 | 158 | 288 |
| TLQ28.-1410 | 1410 | 1410 | 840 | 608 | 570 | 570 | 396 | 840 | 1896 | 522 | 200 | 18 | 158 | 288 |
| TLQ28.-1490 | 1490 | 1490 | 888 | 656 | 602 | 602 | 428 | 888 | 1917 | 497 | 190 | 18 | 158 | 288 |
| Slider type | Lenght 450 e 530 type 3Rol from lenght 610 type 4Rol | | | All sliders type 3Rol | | | | | | | | | | |

| Code | L (mm) | H (mm) | Fix sliders (mm) | | | Mobile sliders (mm) | | | Capacity load | | | | | |
|-------------|---------------------------------------------------------|--------|------------------|-----------------------|---------------------|---------------------|--------|---------------------|---------------------------|-----------------------|----------------------|---------------------|---------------------|---------------------|
| | | | A (mm) | C (mm) | H ₁ (mm) | B (mm) | D (mm) | H ₂ (mm) | Dynamic coefficient C (N) | Co _{rad} (N) | Co _{ax} (N) | M _x (Nm) | M _y (Nm) | M _z (Nm) |
| TLQ43.-610 | 610 | 600 | 310 | 78 | 300 | 310 | 78 | 300 | 1529 | 1114 | 557 | 64 | 324 | 432 |
| TLQ43.-690 | 690 | 690 | 374 | 142 | 316 | 316 | 84 | 374 | 2326 | 1695 | 847 | 64 | 340 | 453 |
| TLQ43.-770 | 770 | 770 | 456 | 140 | 314 | 314 | 82 | 456 | 3052 | 2224 | 1034 | 64 | 334 | 446 |
| TLQ43.-850 | 850 | 850 | 504 | 188 | 346 | 346 | 114 | 504 | 3305 | 2408 | 958 | 64 | 421 | 561 |
| TLQ43.-930 | 930 | 930 | 552 | 236 | 378 | 378 | 146 | 552 | 3509 | 2489 | 892 | 64 | 507 | 676 |
| TLQ43.-1010 | 1010 | 1010 | 600 | 284 | 410 | 410 | 178 | 600 | 3676 | 2328 | 834 | 64 | 518 | 792 |
| TLQ43.-1090 | 1090 | 1090 | 648 | 332 | 442 | 442 | 210 | 648 | 3816 | 2187 | 784 | 64 | 518 | 907 |
| TLQ43.-1170 | 1170 | 1170 | 696 | 380 | 474 | 474 | 242 | 696 | 3935 | 2063 | 739 | 64 | 518 | 1022 |
| TLQ43.-1250 | 1250 | 1250 | 744 | 428 | 506 | 506 | 274 | 744 | 4037 | 1951 | 699 | 64 | 518 | 1137 |
| TLQ43.-1330 | 1330 | 1330 | 792 | 476 | 538 | 538 | 306 | 792 | 4126 | 1851 | 663 | 64 | 518 | 1252 |
| TLQ43.-1410 | 1410 | 1410 | 840 | 524 | 570 | 570 | 338 | 840 | 4204 | 1761 | 631 | 64 | 518 | 1368 |
| TLQ43.-1490 | 1490 | 1490 | 888 | 572 | 602 | 602 | 370 | 888 | 4272 | 1679 | 602 | 64 | 518 | 1446 |
| TLQ43.-1570 | 1570 | 1570 | 936 | 620 | 634 | 634 | 402 | 936 | 4334 | 1605 | 575 | 64 | 518 | 1446 |
| TLQ43.-1650 | 1650 | 1650 | 984 | 668 | 666 | 666 | 434 | 984 | 4389 | 1536 | 551 | 64 | 518 | 1446 |
| TLQ43.-1730 | 1730 | 1730 | 1032 | 716 | 698 | 698 | 466 | 1032 | 4438 | 1474 | 528 | 64 | 518 | 1446 |
| TLQ43.-1810 | 1810 | 1810 | 1080 | 764 | 730 | 730 | 498 | 1080 | 4483 | 1416 | 507 | 64 | 518 | 1446 |
| TLQ43.-1890 | 1890 | 1890 | 1128 | 812 | 762 | 762 | 530 | 1128 | 4524 | 1363 | 488 | 64 | 518 | 1446 |
| TLQ43.-1970 | 1970 | 1970 | 1176 | 860 | 794 | 794 | 562 | 1176 | 4561 | 1313 | 470 | 64 | 518 | 1446 |
| Slider type | Lenght 610 e 690 type 3Rol from lenght 770 type 4Rol | | | All sliders type 3Rol | | | | | | | | | | |

TLQ roller telescopic are very compact slides with a square cross section. The slides offer good load capacities in both the axial and radial directions. They are particularly suitable for vertical applications, as more compact and less heavy in weight than the TLR-series.

The slide is composed of two single rails fixed together to form a rigid H-profile as an intermediate element. The same base components for TLQ come from our MR-Series; patented T RACE-NOX treatment; high depth nitride hardened rails with black oxidation, double row bearings for excellent smooth play-free movement. Strong wipers with incorporated pre-oiled felt assure good cleaning and proper lubrication of the raceways for long lifetimes with reduced maintenance. Rubber stoppers assure silent running and smooth movement of the intermediate element.

INDUSTRIAL AUTOMATION: TLQ slides are especially specified for high frequency applications, where requirements for long service and low maintenance are typical. Roller telescopic are superior for motorized automation with or without variable stroke-cycles, to eliminate the typical problem of ball-cage creeping that subsequently can cause serious motor jamming-problems, when increased motor power is instantly required to re-position the ball-cage.

The materials and surface treatments assure a generally high standard of corrosion resistance. With additional black electro coating, KB-version, the TLQ slide becomes suitable for outdoor applications or very humid ambient situations.

Upon request, customized versions with longer extension or both customized length and stroke can be made available.

The capacity loads refer to a single slide.

