

life

rication-free rail les – drylin® T

rail guides were originally developed for
ions in both automation and materials
. The goal was to create a robust linear
r use in the most diverse, even extreme
ments. Their dimensions are identical to
irculating ball bearing guides.

lubrication-free
able bearing clearance
iatic clearance adjustment
tatic load capacity
e life up to 50,000km
ant to dirt
ibration and quiet

application areas
anical engineering
working industry
ne tools
ng

available from stock
etailed information about delivery time online.

price breaks online
o minimum order value. No minimum order
quantity.

Max. +90°C
Min. -40°C

carriage types
tail length up to 4,000mm

service life calculation
• www.igus-asean.com/drylin-expert



ns
toHS)
ESD-compatible
(electrostatic discharge)

www.igus.com/drylinT



drylin® T rail guides | Product overview

Dimensionally identical to most recirculating ball-bearing guides



High performance

- 50% longer service life due to iglidur® J200 sliding elements
- Fast assembly
- Adjustable bearing clearance

► **From page 1061**



Standard / with manual clamp

- Manual clearance adjustment on the carriage
- Long service life with iglidur® J sliding elements
- Manual clamp on carriage (optional)

► **From page 1062**



Automatic

- Automatic clearance adjustment
- Easy assembly with pre-load key
- Long service life with iglidur® J sliding elements

► **Page 1063**



Heavy duty

- Robust design, factory clearance adjustment
- Long service life with iglidur® J sliding elements
- Quick assembly

► **Page 1065**



Compact

- Narrow guide carriages for small spaces
- Captive plastic sliders
- Corrosion-free

► **Page 1066**



Miniature guides / Adjustable miniature guides

- Small compact design
- Easy to fit
- Individual clearance adjustment on carriage

► **Page 1068**



drylin® T rails

- Lightweight, aluminium extruded section
- Robust and corrosion-resistant hard-anodised surfaces
- Shaft length delivered with millimetre precision up to max. 4,000mm

► **Page 1060**



Clamps

- Compact or heavy duty design
- Available for installation sizes 15 – 30mm
- Holding force up to 500N

► **Page 1067**



Based on drylin® T

drylin® SLT linear module

► **From Page 1413**



3D CAD files, prices and delivery time online ► www.igus-asean.com/drylinT 1055



ment of the pressing roller and the compensation
balance of the grinding tools are implemented with
in place of recirculating ball bearing guides.

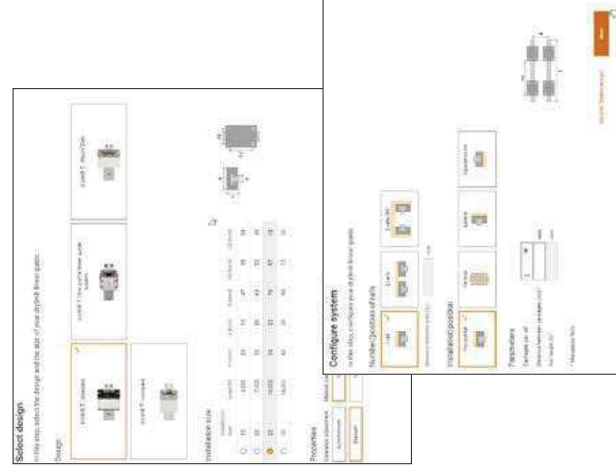


welding spatter and dust, the use of the extremely
nt drylin® T linear guide finds the balance between
e life and low costs.



ng: Reduced tool changing time due to this
g system. The gauge is guided on a drylin® T
solution works also without problems in dusty
ents.

an.com/drylinT



Expert for linear guides: System selection and service life calculation with CAD
Configure linear bearings and calculate their service life – constantly expanded by new sizes and products
Easily calculate the service life of your required linear guide and configure with a few clicks. Select a drylin® system and add the relevant environmental parameters. Select the bearing size, carriage, number and position. Then enter the distance between the rails and the mounting. Define the coordinates for the drive location and the centre of gravity, or enter these via the keyboard. Define the weight, acceleration, and distance of the bearing and select a rail length. The results are displayed.



► www.igus-asean.com/drylin-expert



drylin® CAD configurator: Generate complete 3D models for drylin® linear technology according to your specifications
The Iigus® CAD online configurator gives you the ability to design and save your linear guide as a system, individual components directly as a 3D model in all commonly used formats, or to have these sent by e-mail – free of charge and without registration.



► www.igus-asean.com/drylin-CAD



More information about the products can be found in the Iigus® download area

- Assembly instructions
- Assembly videos
- System design
- Catalogues

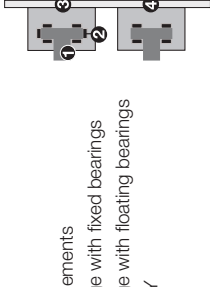


► www.igus-asean.com/downloads



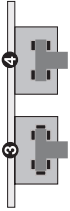
3D CAD files, prices and delivery time online ► www.igus-asean.com/drylinT 1057

with floating bearing in z-direction

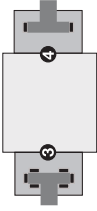


elements
ie with fixed bearings
ie with floating bearings
r

J version with floating bearing in z-direction



il version with floating bearing in the
n and lateral guide carriage



as, automatic

bearing clearances for drylin® T
e guides

ating bearing in z-direction
ating bearing in y-direction

TW-04-07 TW-04-09 TW-04-12 TW-04-15					
is	–	0.4	0.5	0.7	0.7
	0.4	0.4	0.5	0.7	0.7

ian.com/drylinT



Guide rail	
Material	Aluminium, extruded section
Material	EN AW-6060 T66
Coating	Hard-anodised aluminium, 50 µm
Hardness	500 HV
Guide carriages	
Base structure	Aluminium, extruded section
Material	EN AW-6060 T66
Coating	Anodised aluminium
Sliding elements	Maintenance-free plain bearings iglidur® J, iglidur® J200 (TW-12/TW-04-07)
Bolts, springs	Stainless steel
End cap	Plastic (TW-01/TWA-01), steel (TW-02/TW-03/TW-12)
Max. surface speed	5m/s
Temperature range	from –40°C to +90°C

Table 01: drylin® – technical data

Type	C _{0Y} [kN]	C _{0(Y)} [kN]	C _{0Z} [kN]	M _{0X} [Nm]	M _{0Y} [Nm]	M _{0Z} [Nm]
04-07	0.2	0.2	0.1	1.2	0.6	0.6
04-09	0.48	0.48	0.24	3.4	1.8	1.8
04-12	0.96	0.96	0.48	9.2	4.4	4.4
04-12 (TWE)	0.48	0.48	0.24	4.6	2.2	2.2
04-15	1.4	1.4	0.7	17	8	8
04-15 (TWE)	0.7	0.7	0.35	8.5	4	4
01-/12-15	4	4	2	32	25	25
01-/02-/12-20	7.4	7.4	3.7	85	45	45
01-/02-/03-/12-25	10	10	5	125	65	65
01-/02-/12-30	14	14	7	200	100	100

Table 02: drylin® – permissible static load capacity

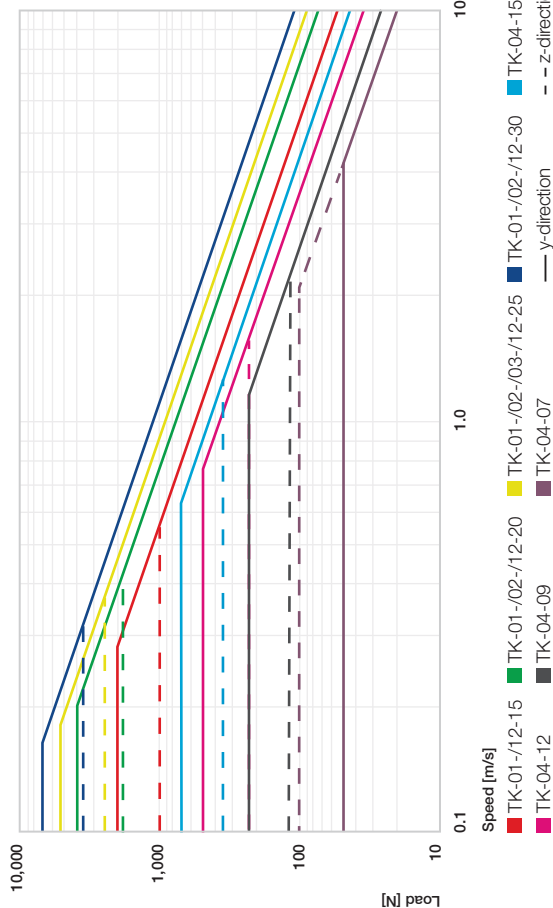


Diagram 01: Marking of the directions

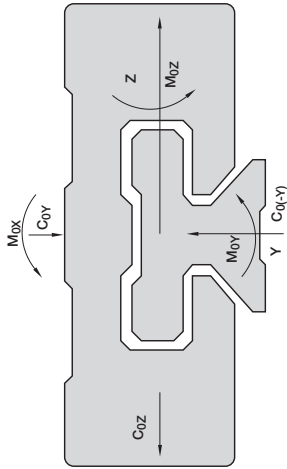


Diagram 02: drylin® T– permissible dynamic load capacity

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Order key

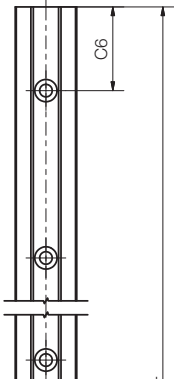
Options

-15-1000

Installation size

Rail length [mm]

standard rail, hard-anodised
 weight-reduced rail, clear-anodised
 dished surfaces
 58



K1 for screw DIN 912	b	ly	lz	Wby	Wbz
M4	22	6,440	4,290	585	488
M5	31	22,570	11,520	1,456	1,067
M5	31	12,140	6,360	780	620
M6	34	34,700	19,300	2,041	1,608
M8	40	70,040	40,780	3,502	2,832

GEBOHRT"


 Technical data
 ▶ Page 1059

www.lin-tech.com/drylinT




 Order key

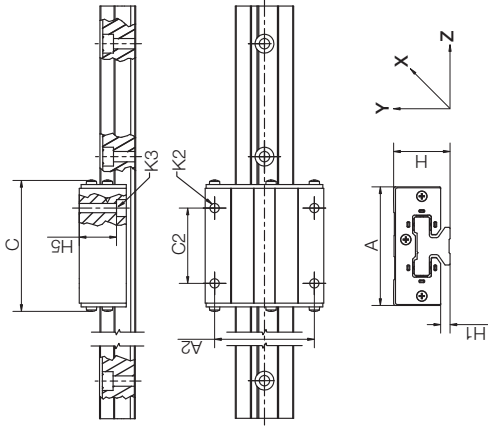
Type

TW-12-15

Guide carriage

High performance

Installation size



Dimensions [mm]

Part No.	Weight	H	H5	A	C	A2	C2	H1	K2	K3 for	Sliding
	[kg]	±0.35						±0.35	thread	cap screw	elements
TW-12-15	0.11	24	16.0	47	63	38	30	4.0	M5	M4	iglidur® J200
TW-12-20	0.19	30	19.8	63	72	53	40	5.0	M6	M5	iglidur® J200
TW-12-25	0.29	36	24.8	70	82	57	45	5.0	M8	M6	iglidur® J200
TW-12-30	0.50	42	27.0	90	94	72	52	6.5	M10	M8	iglidur® J200

Can only be combined with:



TS-01-20

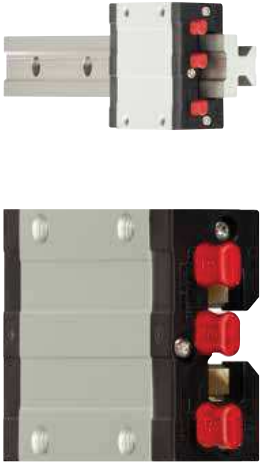


TS-11-20


 Technical data
 ▶ Page 1059

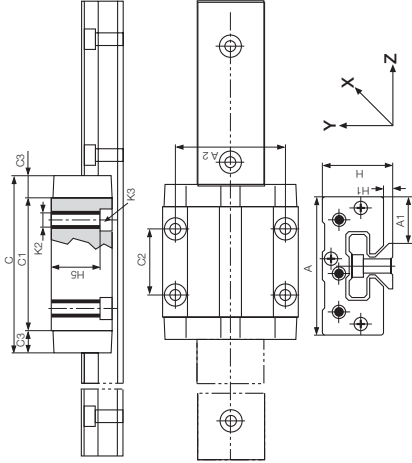
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Complete system
online

TWA-01



Options:
LLY: Floating bearing in y-direction
LLZ: Floating bearing in z-direction

1-15

Installation size

HENNLICH -
ŽIJEME TECHNIKOU

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Telefon: +420 416 711 333
E-mail: lin-tech@hennlich.cz

www.hennlich.cz/lin-tech

Technical data
Page 1059

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All elements can be ordered individually or as assembled systems

TW-01-20-LLY: Guide carriage with automatic clearance adjustment, installation size 20 and floating bearing in y-direction

TKA-01-20-2-500: Complete system with two standard guide carriages type 01, automatic clearance adjustment, installation size 20 and standard guide rail, 500mm length

Can be combined with:



TS-01...



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Technical data
► Page 1059

.der key

Options
1-15-HKA

Installation size

Manual clamp

Manual clamp

ther dimensions as standard design
N-01-... ► Page 1063

Ky	Dk	Manual clamp thread
11.5	20.0	M6
15.0	28.0	M8
19.0	28.0	M8
21.5	28.0	M8

stems

ice, installation size 20 and manual clamp
e carriages type 01 with manual clamp,
il, 500mm length
creep behaviour of the clamped plastic causes
o safety-relevant parts may be clamped. Please
he clamping.

Technical data
Page 1059

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Can be combined with:



TS-01-...



Technical data
▶ Page 1059



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TW-02



Complete system
online

Order key

Type

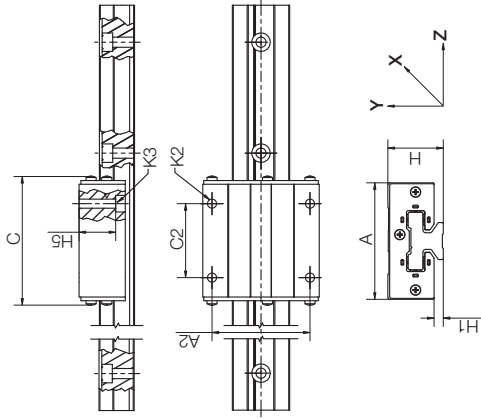
TW-02-20

Guide carriage

Heavy duty

Installation size

Floating bearing upon request



Dimensions [mm]

Part No.	Weight H ±0.35	H5	A	C	A2	C2	H1 ±0.35	K2	K3	
										[kg]
TW-02-20	0.19	30	19.8	63	70	53	40	5.0	M6	M5
TW-02-25	0.29	36	24.8	70	77	57	45	5.0	M8	M6
TW-02-30	0.50	42	27.0	90	92	72	52	6.5	M10	M8

All elements can be ordered individually or as assembled systems

TW-02-20: Heavy duty guide carriage, installation size 20

TK-02-20-2-500: Complete system with two heavy duty guide carriages type 02, installation size 20 and standard guide rail, 500mm length

Order key

3-25

Installation size

HENNLICH -
ČIŽEME TECHNIKOU

o.z. LIN-TECH HENNLICH s.r.o.
Českolipská 9, 412 01 Litoměřice

Technical data
Page 1059

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www.hennlich.cz/lin-tech

Can only be combined with:



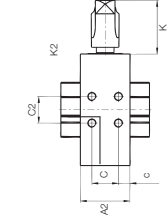
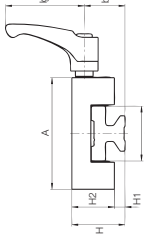
TS-01...



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Compact design

Plastic clamping elements



TWBM-11

Dimensions [mm]

Part No.	Clamp force [N]	A	a	A2	H	H1	H2	K	K2	C	C2	c	lg	b
TWBM-11-15	180	47	22	23	24	4	20	30	M4	15	15	4	44	18.9
TWBM-11-20	180	63	31	28	30	5	24	30	M5	15	15	6.5	44	23.0
TWBM-11-25	400	70	34	35	36	5	31	39	M6	20	20	7.5	63.63	26.2
TWBM-11-30	500	90	40	38	42	6.5	35.5	47	M6	20	20	9	78	32.4



Order key

Type

TWBM-11-15

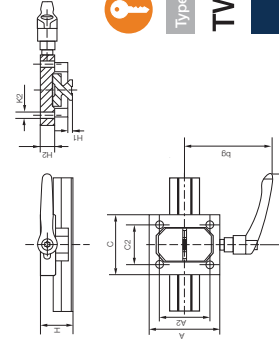
Manual clamp

Compact

Installation size

Standard design

with brass clamp



TWBM-01

Type

Order key

Type

TWBM-01-25

Manual clamp

Standard

Installation size

Dimensions [mm]

Part No.	Clamp force [N]	A	A2	H	H1	H2	K2	C	C2	lg	bg
TWBM-01-25	500	80	57	36	5	16	M8	68	45	80	99

Can only be combined with:



TS-01...





Order key

Type

TS-04-07

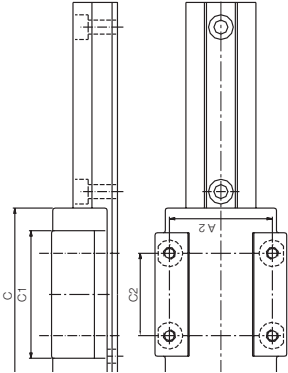
Guide rail
Miniature
Installation size



Curved rail profiles
► Page 962

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000

1	K1 for screw DIN 912	b	ly	lz	Wby	Wbz
.7	M2	8	131	90	32	29
.6	M2	9.6	252	169	52	49
.9	M3	13	856	574	132	120
.0	M3	17	2,420	1,410	285	239



1	H5	K2 thread	Tightening torque [Nm]	K3 for screw DIN 912
35	—	M2	0.25	—
5	7.2	M2	0.25	—
2	9.5	M3	0.50	M2
8	11	M3	0.50	M2

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Complete system online



Order key

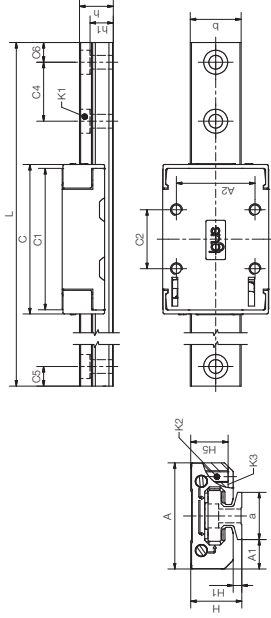
Type

TW E-04-12

Guide carriage
Adjustable clearance
Miniature
Installation size



High corrosion resistance by use of re-coating finish



Dimensions [mm]

Part No.	Weight [g]	H	A	C	A1	A2	C1	C2	H1	H5	K2 thread	K3 for screw DIN 912
TWE-04-12	36	13	27	38	7.5	20	36	15	2.2	9.5	M3	M2
TWE-04-15	61	16	32	45	8.5	25	31	20	2.8	11	M3	M2



Press in, turn, snap into place



Tool: screwdriver with 3mm edge wide



Right side: setting the height clearance



Left side: setting the lateral clearance

Can be combined with:



TS-04-...



Technical data
► Page 1059

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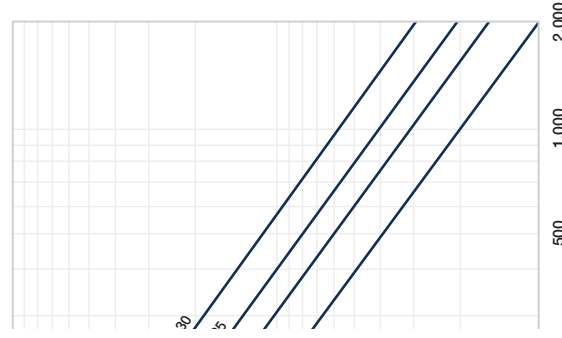


End caps for series 01 guide rail

Part No.	End cap
TSZ-011501	
TSZ-012001	
TSZ-012501	
TSZ-013001	

Using the end caps, screws with a low screw
must be used to attach the rail.

	$F_{y\max}, F_{z\max}$ [N]
12-15	2,000
12/-12-20	3,700
12/-03/-12-25	5,000
12/-12-30	7,000



load

www.igus.com/drylinT



drylin® linear technology – drylin® R shaft guides



Lubrication-free drylin® liners

Resistance to dust and dirt

Low coefficient of friction

Extremely quiet operation

Many adapter and housing options