

Resistant to dirt, low vibration, quiet, long service life



Profile rail with hard-anodised surface

All steel parts are made of durable stainless steel

Clear, anodised aluminium carriage body

Sliding elements made from high-performance polymer iglidur® J and J200 serve as a guide bearing and ensure optimum running properties

End cap made of solid plastic or stainless steel

Adjustable bearing clearance

## Lubrication-free rail guides – drylin® T

drylin® T rail guides were originally developed for applications in both automation and materials handling. The goal was to create a robust linear guide for use in the most diverse, even extreme environments. Their dimensions are identical to most recirculating ball bearing guides.

- 100% lubrication-free
- Adjustable bearing clearance
- Automatic clearance adjustment
- High static load capacity
- Service life up to 50,000km
- Resistant to dirt
- Low vibration and quiet

### Typical application areas

- Mechanical engineering
- Wood working industry
- Machine tools
- Handling

**Available from stock**  
Detailed information about delivery time online.

**Price breaks online**  
No minimum order value. No minimum order quantity.

**Max. +90°C**  
**Min. -40°C**

**7 carriage types**  
Rail length up to 4,000mm

**Service life calculation**  
▶ [www.igus-asean.com/drylin-expert](http://www.igus-asean.com/drylin-expert)

**Cleanroom certified**  
IPA Fraunhofer

**Free from toxins**  
2011/65/EU (RoHS)

**ESD-compatible**  
(electrostatic discharge)

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**



### Heavy duty

- Robust design, factory clearance adjustment
  - Long service life with iglidur® J sliding elements
  - Quick assembly
- ▶ **Page 1065**



### Clamps

- Compact or heavy duty design
  - Available for installation sizes 15 – 30mm
  - Holding force up to 500N
- ▶ **Page 1067**



### 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**



### 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**



**Based on drylin® T**  
drylin® SLT linear module  
▶ **From Page 1413**



Long service life and food grade quality are also prerequisites for the application like insensitivity to pungent detergents and humidity.



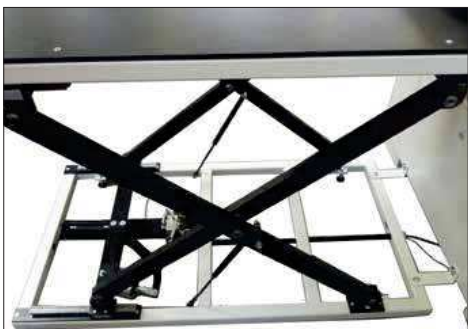
The adjustment of the pressing roller and the compensation of the imbalance of the grinding tools are implemented with drylin® T in place of recirculating ball bearing guides.



The drylin® T linear guides are used in these enveloping machines to guide an envelope suction opener that is mounted on one side.



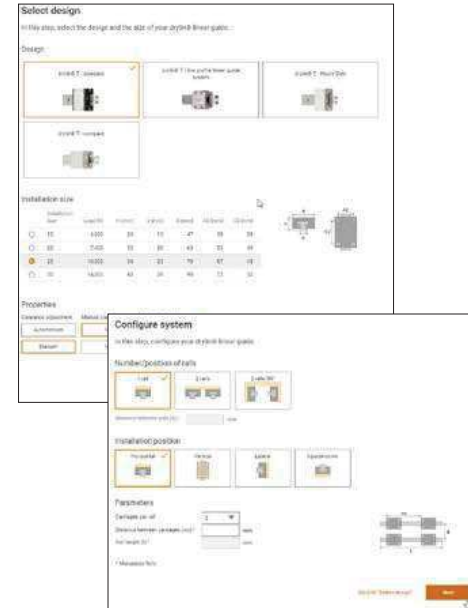
Due to the welding spatter and dust, the use of the extremely dirt-resistant drylin® T linear guide finds the balance between high service life and low costs.



drylin® T rail guides with adjustable clearance change the height of the work table silently and precisely.



Time saving: Reduced tool changing time due to this measuring system. The gauge is guided on a drylin® T rail. This solution works also without problems in dusty environments.



**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](http://www.igus-asean.com/drylin-expert)



**drylin® CAD configurator: Generate complete 3D models for drylin® linear technology according to your specifications**

The igus® 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](http://www.igus-asean.com/drylin-CAD)



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

- Assembly instructions
- Assembly videos
- System design
- Catalogues



► [www.igus-asean.com/downloads](http://www.igus-asean.com/downloads)

**Design tip**

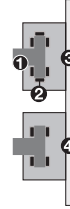
The compensation of parallelism errors up to a maximum of 0.5mm between mounted rails is possible with a fixed/floating bearing. During installation, take care that the floating bearing has approximately the same clearance on both sides.

In the adjacent designs you can see the version of the fixed/floating bearing system recommended by us.

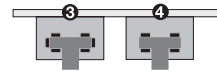
The mounting surfaces of the rails and guide carriages should be very flat (e.g. machined surface) to prevent twisting in the system. Small discrepancies in the mounting surfaces can be compensated up to a certain amount (0.5mm) by a greater clearance adjustment. The clearance adjustment is possible only in unloaded state. If you have any questions on design and/or assembly, please make use of our technical support.

**Version with floating bearing in z-direction**

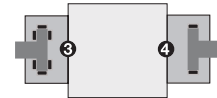
- ① Rail
- ② Slide elements
- ③ Carriage with fixed bearings
- ④ Carriage with floating bearings LLZ or LLY



**Horizontal version with floating bearing in z-direction**



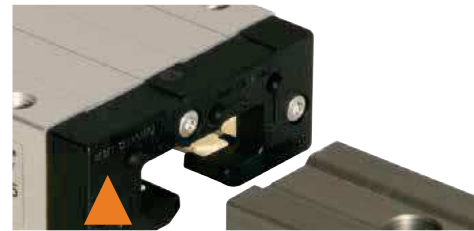
**Horizontal version with floating bearing in the y-direction and lateral guide carriage**



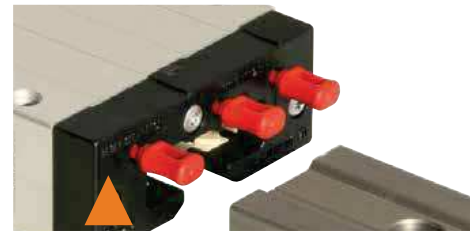
**i** Technical details on floating bearings  
 ▶ Page 963  
 The 2:1 Rule ▶ Page 963

**Installation drylin® T linear guide system**

Make sure to assemble the side of the carriage saying "Reset Clearance" onto the rail first (see picture).



TW series, adjustable clearance



TWA series, automatic

**Tightening torque for drylin® connections between metal parts**

| Metric thread (Da) | Torque [Nm] | Recommended tightening torque [Nm] |
|--------------------|-------------|------------------------------------|
| M3                 | 0.5–1.1     | 0.7                                |
| M4                 | 1.0–2.8     | 1.5                                |
| M5                 | 2.0–5.5     | 3.0                                |
| M6                 | 4.0–10.0    | 6.0                                |
| M8                 | 8.0–23.0    | 15.0                               |
| M10                | 22.0–46.0   | 30.0                               |

Minimal screw-in depth for aluminium and zinc die-casting parts: 1.5 x Da

**Floating bearing clearances for drylin® T miniature guides**

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

| Floating bearing clearances | TW-04-07 | TW-04-09 | TW-04-12 | TW-04-15 |
|-----------------------------|----------|----------|----------|----------|
| LLY                         | –        | 0.4      | 0.5      | 0.7      |
| LLZ                         | 0.4      | 0.4      | 0.5      | 0.7      |

| 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 materials 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 <sub>0Y</sub> [kN] | C <sub>0(-)Y</sub> [kN] | C <sub>0Z</sub> [kN] | M <sub>0X</sub> [Nm] | M <sub>0Y</sub> [Nm] | M <sub>0Z</sub> [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                  |

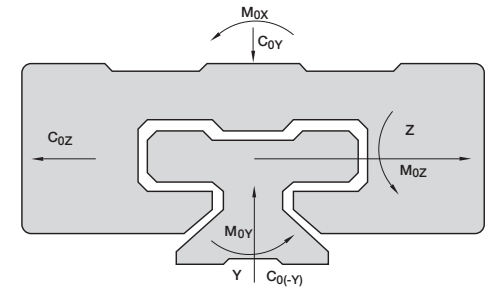


Diagram 01: Marking of the directions

Table 02: drylin® – permissible static load capacity

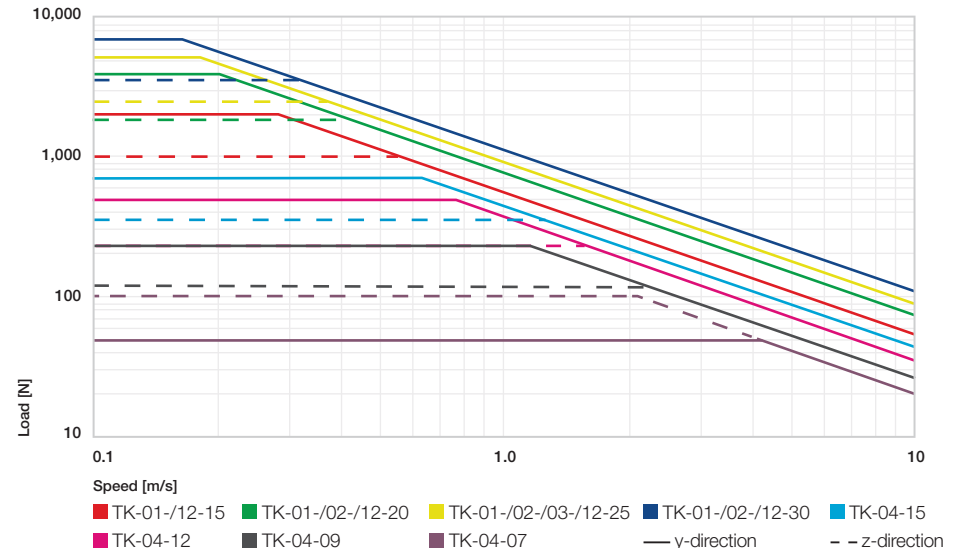


Diagram 02: drylin® T – permissible dynamic load capacity



TS-01

TS-11



Order key

Type Options

TS-01-15-1000

- Guide rail
- Standard
- Installation size
- Rail length [mm]

Options:

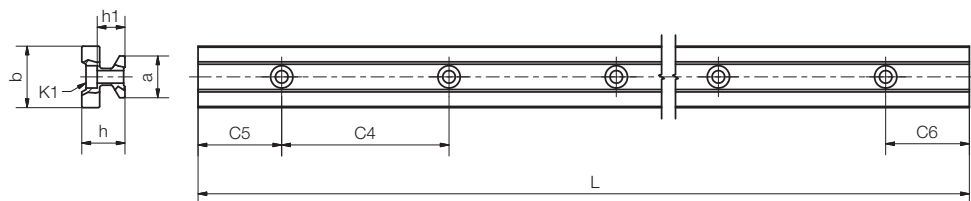
TS-01: Standard rail, hard-anodised

TS-11: Weight-reduced rail, clear-anodised

Hard-anodised surfaces

► Page 958

Curved rail profiles  
► Page 962



Dimensions [mm]

| Part No. | Weight<br>[kg/m] | L<br>Max. | a<br>-0.2 | C4<br>Min. | C5<br>Max. | C5<br>Min. | C6<br>Max. | C6<br>Min. | h    | h1   | K1 for<br>screw<br>DIN 912 | b  | ly<br>[mm²] | lz<br>[mm²] | Wby<br>[mm²] | Wbz<br>[mm²] |
|----------|------------------|-----------|-----------|------------|------------|------------|------------|------------|------|------|----------------------------|----|-------------|-------------|--------------|--------------|
|          |                  |           |           |            |            |            |            |            |      |      |                            |    |             |             |              |              |
| TS-01-15 | 0.6              | 4,000     | 15        | 60         | 20         | 49.5       | 20         | 49.5       | 15.5 | 10.0 | M4                         | 22 | 6,440       | 4,290       | 585          | 488          |
| TS-01-20 | 1.0              | 4,000     | 20        | 60         | 20         | 49.5       | 20         | 49.5       | 19.0 | 12.3 | M5                         | 31 | 22,570      | 11,520      | 1,456        | 1,067        |
| TS-11-20 | 0.5              | 4,000     | 20        | 120        | 20         | 79.5       | 20         | 79.5       | 19.0 | 12.3 | M5                         | 31 | 12,140      | 6,360       | 780          | 620          |
| TS-01-25 | 1.3              | 4,000     | 23        | 60         | 20         | 49.5       | 20         | 49.5       | 21.5 | 13.8 | M6                         | 34 | 34,700      | 19,300      | 2,041        | 1,608        |
| TS-01-30 | 1.9              | 4,000     | 28        | 80         | 20         | 59.5       | 20         | 59.5       | 26.0 | 15.8 | M8                         | 40 | 70,040      | 40,780      | 3,502        | 2,832        |

Standard hole pattern symmetric C5 = C6

For rails without mounting holes, please use part number suffix "UNGEBOHRT"

Can be combined with:



TW-01-... TWA-01-... TW-01-HKA TW-02-... TW-03-...

Technical data  
► Page 1059

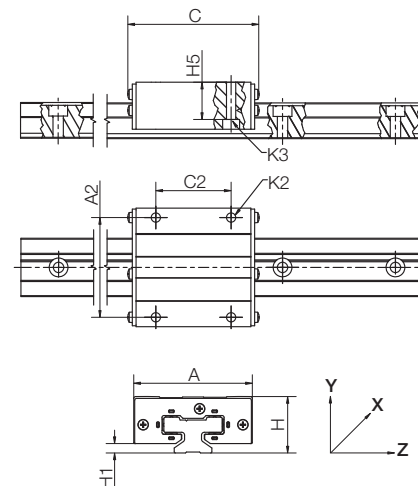


Order key

Type

TW-12-15

- Guide carriage
- High performance
- Installation size



Dimensions [mm]

| Part No. | Weight<br>[kg] | H<br>±0.35 | H5   | A  | C  | A2 | C2 | H1<br>±0.35 | K2<br>thread | K3 for<br>cap screw | Sliding<br>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



TW-01

Complete system  
online

Order key

Type

TW-01-15

Guide carriage

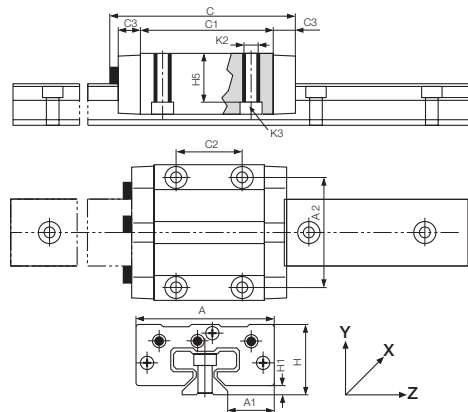
Standard

Installation size

Options:

LLY: Floating bearing in y-direction

LLZ: Floating bearing in z-direction



## Dimensions [mm]

| Part No. | Weight | H     | A  | C   | A1    | A2 | C1 | C2 | C3 | H1    | H5   | K2     | Tightening torque | K3 for screw |
|----------|--------|-------|----|-----|-------|----|----|----|----|-------|------|--------|-------------------|--------------|
|          |        | ±0.35 |    |     | ±0.35 |    |    |    |    | ±0.35 |      | thread | Max.              | DIN 912      |
|          | [kg]   |       |    |     |       |    |    |    |    |       |      |        | [Nm]              |              |
| TW-01-15 | 0.11   | 24    | 47 | 74  | 16.0  | 38 | 50 | 30 | 9  | 4.0   | 16.0 | M5     | 1.5               | M4           |
| TW-01-20 | 0.19   | 30    | 63 | 87  | 21.5  | 53 | 61 | 40 | 10 | 5.0   | 19.8 | M6     | 2.5               | M5           |
| TW-01-25 | 0.29   | 36    | 70 | 96  | 23.5  | 57 | 68 | 45 | 11 | 5.0   | 24.8 | M8     | 6.0               | M6           |
| TW-01-30 | 0.50   | 42    | 90 | 109 | 31.0  | 72 | 79 | 52 | 12 | 6.5   | 27.0 | M10    | 15.0              | M8           |



All elements can be ordered individually or as assembled systems

TW-01-20-LLY: Standard guide carriage with manually adjustable clearance, installation size 20 and floating bearing in y-direction

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

Can be combined with:



TS-01-...



Technical data

► Page 1059



TWA-01

Complete system  
online

Order key

Type

TWA-01-15

Guide carriage  
Automatic version

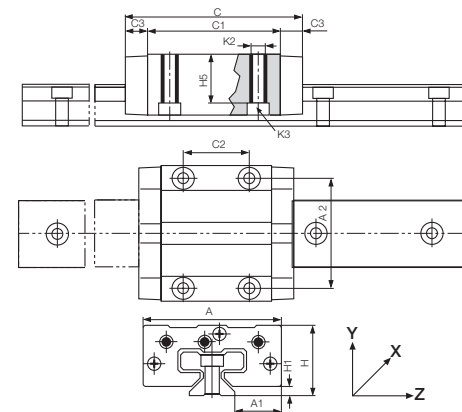
Standard

Installation size

Options:

LLY: Floating bearing in y-direction

LLZ: Floating bearing in z-direction



## Dimensions [mm]

| Part No.  | Weight | H     | A  | C   | A1    | A2 | C1 | C2 | C3 | H1    | H5   | K2     | Tightening torque | K3 for screw |
|-----------|--------|-------|----|-----|-------|----|----|----|----|-------|------|--------|-------------------|--------------|
|           |        | ±0.35 |    |     | ±0.35 |    |    |    |    | ±0.35 |      | Thread | Max.              | DIN 912      |
|           | [kg]   |       |    |     |       |    |    |    |    |       |      |        | [Nm]              |              |
| TWA-01-15 | 0.11   | 24    | 47 | 68  | 16.0  | 38 | 50 | 30 | 9  | 4.0   | 16.0 | M5     | 1.5               | M4           |
| TWA-01-20 | 0.19   | 30    | 63 | 81  | 21.5  | 53 | 61 | 40 | 10 | 5.0   | 19.8 | M6     | 2.5               | M5           |
| TWA-01-25 | 0.29   | 36    | 70 | 90  | 23.5  | 57 | 68 | 45 | 11 | 5.0   | 24.8 | M8     | 6.0               | M6           |
| TWA-01-30 | 0.50   | 42    | 90 | 103 | 31.0  | 72 | 79 | 52 | 12 | 6.5   | 27.0 | M10    | 15.0              | M8           |



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-...



Technical data

► Page 1059



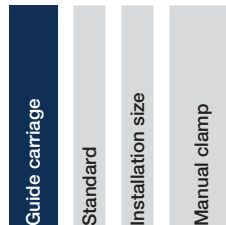
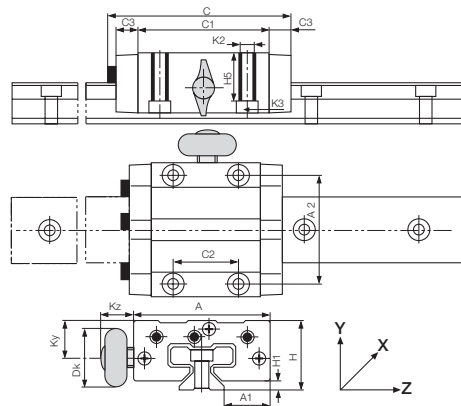
TW-01-HKA

Complete system  
online

Order key

Type Options

TW-01-15-HKA

Other dimensions as standard design  
TW-01-... ► Page 1063

## Dimensions [mm]

| Part No.     | Size | Kz   | Ky   | Dk   | Manual clamp thread |
|--------------|------|------|------|------|---------------------|
| TW-01-15-HKA | 15   | 19.0 | 11.5 | 20.0 | M6                  |
| TW-01-20-HKA | 20   | 18.0 | 15.0 | 28.0 | M8                  |
| TW-01-25-HKA | 25   | 17.0 | 19.0 | 28.0 | M8                  |
| TW-01-30-HKA | 30   | 20.0 | 21.5 | 28.0 | M8                  |



All elements can be ordered individually or as assembled systems

TW-01-20-HKA: Guide carriage with manually adjustable clearance, installation size 20 and manual clamp

TK-01-20-HKA-2-500: Complete system with two standard guide carriages type 01 with manual clamp, installation size 20 and standard guide rail, 500mm length



The manual clamp thread was developed for simple tasks. The creep behaviour of the clamped plastic causes a reduction in clamping force over time (up to 70%). Therefore no safety-relevant parts may be clamped. Please contact our technical consultant, if you require other options for the clamping.

Can be combined with:



TS-01-...

Technical data  
► Page 1059

TW-02

Complete system  
online

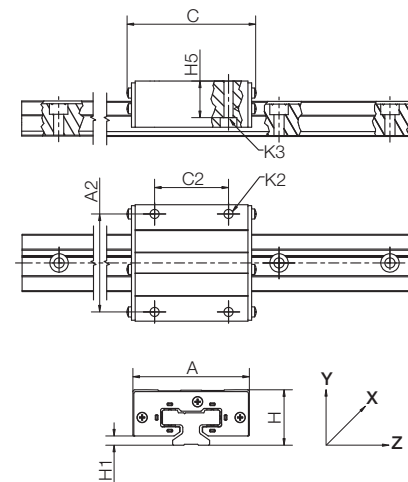
Order key

Type

TW-02-20



Floating bearing upon request



## Dimensions [mm]

| Part No. | Weight [kg] | H ±0.35 | H5   | A  | C  | A2 | C2 | H1 ±0.35 | K2  | K3 |
|----------|-------------|---------|------|----|----|----|----|----------|-----|----|
| 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

Can be combined with:



TS-01-...

Technical data  
► Page 1059



TW-03



Complete system online

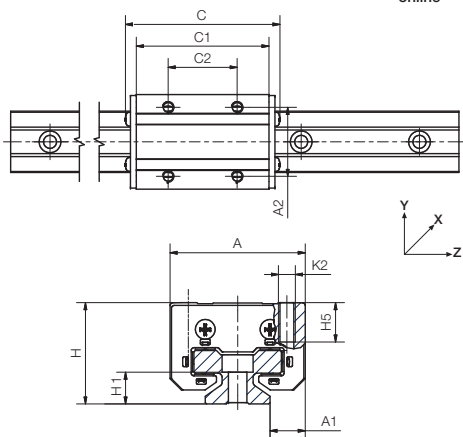


Order key

Type

TW-03-25

- Guide carriage
- Reduced weight
- Installation size



Dimensions [mm]

| Part No. | Weight | H     | A  | C  | A1 | A2 | C1   | C2    | H1 | H5 | K2 | Tightening torque Max. |
|----------|--------|-------|----|----|----|----|------|-------|----|----|----|------------------------|
|          |        | ±0.35 |    |    |    |    |      | ±0.35 |    |    |    | [Nm]                   |
|          | [kg]   |       |    |    |    |    |      |       |    |    |    |                        |
| TW-03-25 | 0.16   | 36    | 48 | 81 | 14 | 35 | 67.4 | 35    | 5  | 13 | M6 | 6.0                    |



All elements can be ordered individually or as assembled systems

TW-03-25: Compact guide carriage, installation size 25

TK-03-25-2-500: Complete system with two compact guide carriages type 03, installation size 25 and standard guide rail, 500mm length

Can only be combined with:



TS-01-20



TS-11-20



Technical data

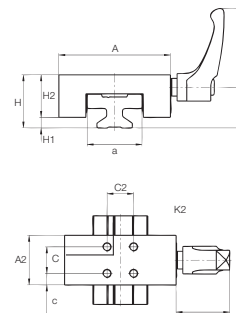
► Page 1059

Compact design

Plastic clamping elements



TWBM-11



Order key

Type

TWBM-11-15

- Manual clamp
- Compact
- Installation size

Dimensions [mm]

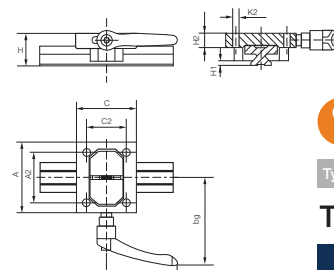
| Part No.   | Clamp force [N] | A  | a  | A2 | H  | H1  | H2   | K  | K2 | C  | C2 | c   | lg    | b    |
|------------|-----------------|----|----|----|----|-----|------|----|----|----|----|-----|-------|------|
| TWBM-11-15 | 180             | 47 | 22 | 23 | 24 | 4   | 20   | 30 | M4 | 15 | 15 | 4   | 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 |

Standard design

with brass clamp



TWBM-01



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:



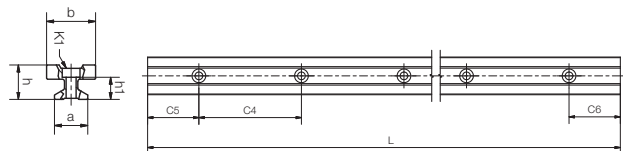
TS-01-...



TS-04



Complete system online



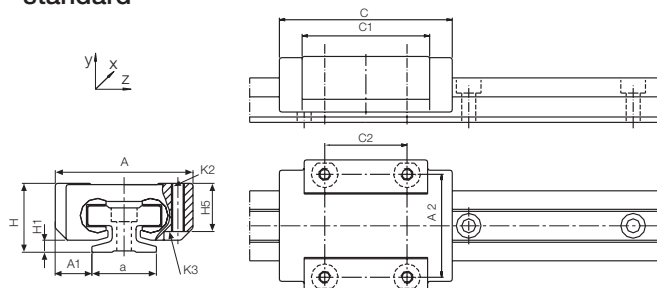
Dimensions [mm]

| Part No. | Weight<br>[kg/m] | L     | a  | C4 | C5   |      | C6 | C6   | h    | h1  | K1 for<br>screw<br>DIN 912 | b   | ly    | lz    | Wby | Wbz |
|----------|------------------|-------|----|----|------|------|----|------|------|-----|----------------------------|-----|-------|-------|-----|-----|
|          |                  |       |    |    | Min. | Max. |    |      |      |     |                            |     |       |       |     |     |
| TS-04-07 | 0.08             | 2,000 | 7  | 15 | 5    | 12   | 5  | 12   | 5.5  | 3.7 | M2                         | 8   | 131   | 90    | 32  | 29  |
| TS-04-09 | 0.11             | 2,000 | 9  | 20 | 5    | 14.5 | 5  | 14.5 | 6.3  | 4.6 | M2                         | 9.6 | 252   | 169   | 52  | 49  |
| TS-04-12 | 0.20             | 2,000 | 12 | 25 | 5    | 17.0 | 5  | 17.0 | 8.6  | 5.9 | M3                         | 13  | 856   | 574   | 132 | 120 |
| TS-04-15 | 0.33             | 3,000 | 15 | 40 | 10   | 29.5 | 10 | 29.5 | 10.8 | 7.0 | M3                         | 17  | 2,420 | 1,410 | 285 | 239 |

Miniature guide carriage – standard



TW-04



Dimensions [mm]

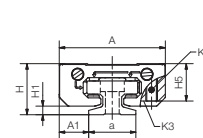
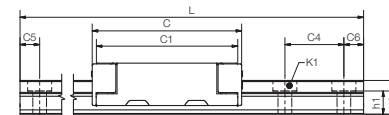
| Part No. | Weight<br>[g] | H  | A  | C  | A1   |       | A2 | C1 | C2  | H1  | H5 | K2<br>thread | Tightening<br>torque<br>[Nm] | K3 for<br>screw<br>DIN 912 |
|----------|---------------|----|----|----|------|-------|----|----|-----|-----|----|--------------|------------------------------|----------------------------|
|          |               |    |    |    | ±0.2 | ±0.35 |    |    |     |     |    |              |                              |                            |
| TW-04-07 | 8             | 8  | 17 | 23 | 5    | 12    | 21 | 8  | 1.5 | –   | M2 | 0.25         | –                            |                            |
| TW-04-09 | 17            | 10 | 20 | 29 | 5.5  | 15    | 18 | 13 | 1.7 | 7.2 | M2 | 0.25         | –                            |                            |
| TW-04-12 | 34            | 13 | 27 | 34 | 7.5  | 20    | 22 | 15 | 2.2 | 9.5 | M3 | 0.50         | M2                           |                            |
| TW-04-15 | 61            | 16 | 32 | 42 | 8.5  | 25    | 31 | 20 | 2.8 | 11  | M3 | 0.50         | M2                           |                            |



TWE-04



Complete system online



Dimensions [mm]

| Part No.  | Weight<br>[g] | H  | A  | C  | A1   |       | A2 | C1 | C2  | H1  | H5 | K2<br>thread | K3 for<br>screw<br>DIN 912 |
|-----------|---------------|----|----|----|------|-------|----|----|-----|-----|----|--------------|----------------------------|
|           |               |    |    |    | ±0.2 | ±0.35 |    |    |     |     |    |              |                            |
| 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           |                            |

**i** 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



# drylin® T rail guides | Ordering options



drylin® T replacement plastic slide elements (set)

Material iglidur® J ▶ Page 159

Material iglidur® J200 ▶ Page 261

drylin® T end caps for series 01 guide rail holes:

| Rail     | Part No. End cap |
|----------|------------------|
| TS-01-15 | TSZ-011501       |
| TS-01-20 | TSZ-012001       |
| TS-01-25 | TSZ-012501       |
| TS-01-30 | TSZ-013001       |

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

| Part No.             | F <sub>y</sub> max., F <sub>z</sub> max. [N] |
|----------------------|--|
| TW-01/-12-15         | 2,000  |
| TW-01/-02/-12-20     | 3,700  |
| TW-01/-02/-03/-12-25 | 5,000  |
| TW-01/-02/-12-30     | 7,000  |

| Guide carriages | Part No. Sliding part set |
|-----------------|---------------------------|
| TW-12-15        | TEK-12-15 (J200)          |
| TW-12-20        | TEK-12-20 (J200)          |
| TW-12-25        | TEK-12-25 (J200)          |
| TW-12-30        | TEK-12-30 (J200)          |
| TW-01-15        | TEK-01-15 (J)             |
| TW-01-20        | TEK-01-20 (J)             |
| TW-01-25        | TEK-01-25 (J)             |
| TW-01-30        | TEK-01-30 (J)             |
| TW-02-20        | TEK-02-20 (J)             |
| TW-02-25        | TEK-02-25 (J)             |
| TW-02-30        | TEK-02-30 (J)             |
| TW-04-09        | TEK-04-09 (J)             |
| TW-04-12        | TEK-04-12 (J)             |
| TWE-04-12       | TEK-E-04-12 (J)           |
| TW-04-15        | TEK-04-15 (J)             |
| TWE-04-15       | TEK-E-04-15 (J)           |



## drylin® T – system design

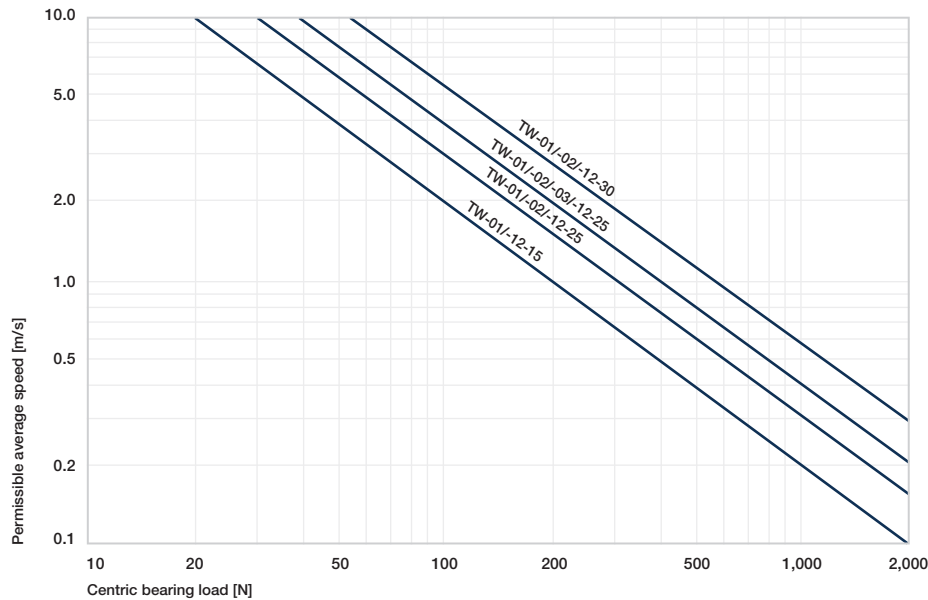


Diagram 04: Determination of the maximum permitted speed for the load

## 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

