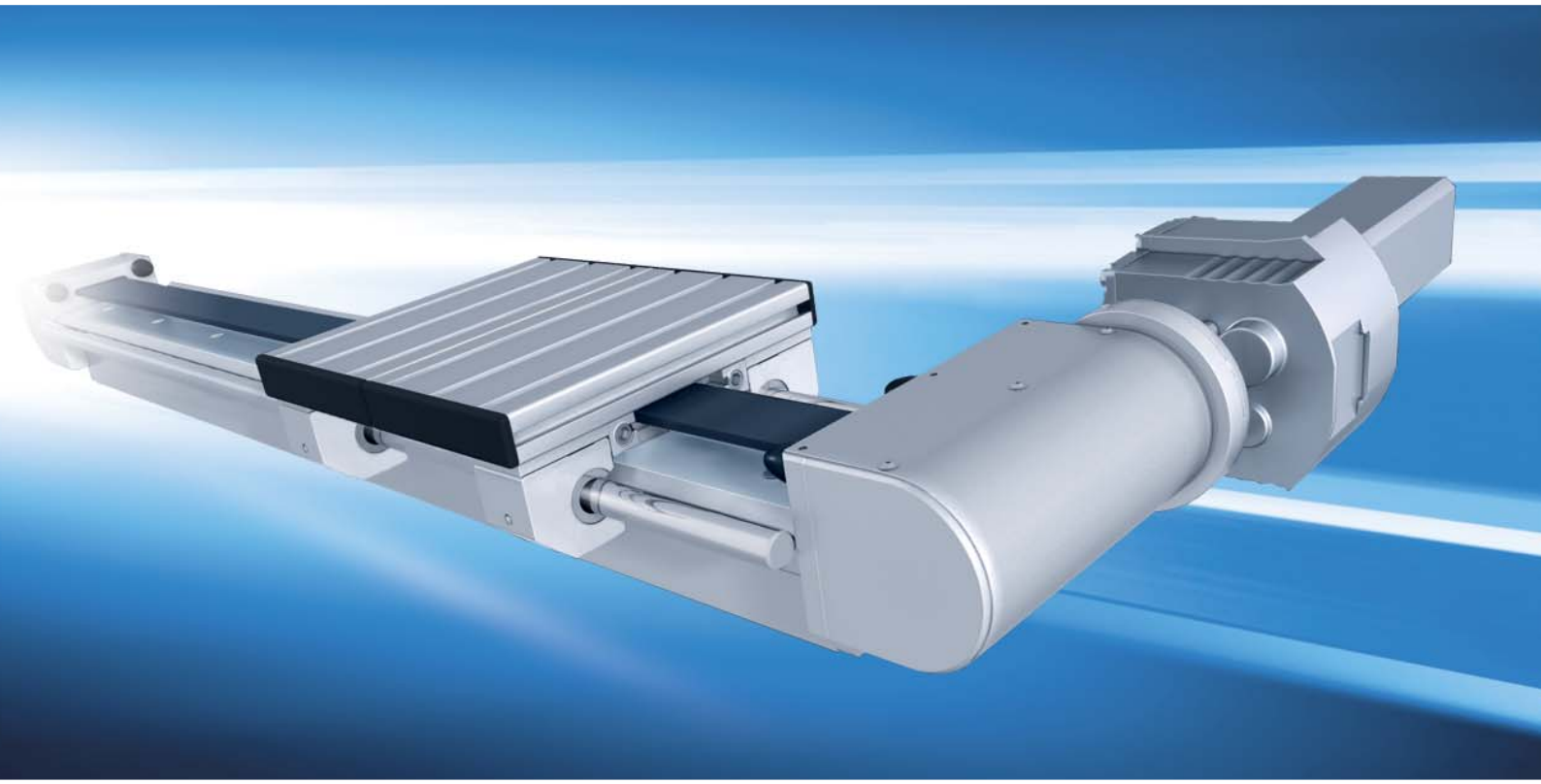


# » The Linear System

English
1/2018

MayTec®

# Table of contents

## Solutions with Innovative Profile

### The Linear System

The MayTec linear guidance system offers the seamless integration of components from all well known bearing manufacturers onto the MayTec profile system.

Along with the integration of these components, MayTec also offers a huge range of accessories to expand and simplify the integration of linear guidance technology with profile technology.

The integration of various linear guidance hardware is also possible due to the modular concept of the system.

Economical and functional solutions can now be realised with a minimum of time and effort.

### Performance

Due to the modularity of the MayTec linear system and profiles, you can choose any of the following:

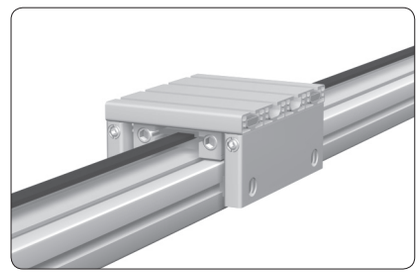
- Delivery of the individual components ex factory
- Delivery of cut and prepared profiles, shafts and components according to parts list for customer's assembly
- Delivery of pre-fitted modular units
- Delivery of complete systems
- Assembly on site

### Application

Due to the flexible and modular design, the MayTec profile system is extremely easy to use and fast to assemble. The system is also very easy to modify if necessary and components can be reused at any time.

An expert team is ready to support you with the use of the MayTec profile system and with your specific project requirements. Your choosen configuration depends only on the dimensions, expected forces and the required stability.

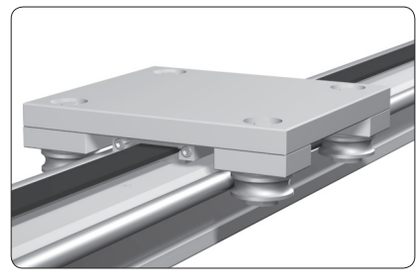
### Guide shaft Eco-Slide



Sliding carriage in variable, easy and robust design with good sliding characteristics.

Width and height adjustable free from backlash.

### Encased roller bearings

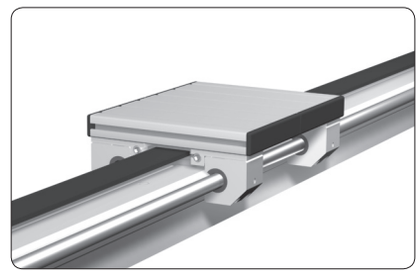


A tried and tested linear guidance system with a large range of application possibilities.

Depending on the required specifications and accuracy, encased roller bearings can be used for low or high load applications.

- Suitable for rough or dirty applications
- High force tolerance with low wear
- High accuracy with low friction
- Long life expectancy

### Shaft guidance



A proven and extremely flexible guidance system due to the compact nature of the construction.
Depending on the application requirements, either sliding or ball bearing guides can be used.
Shaft guide systems are used where high accuracy along with carriage stability is required.

- Compact form
- Low resistance
- High stability
- High accuracy
- Quiet rolling noise level

Challenge us !

## Linear unit complete

**4.0□□.□□□□□□.□□□□□.**
4.0□□.□□□□□□.□□□□□.
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4.0□□.□□□□□□.□□□□□□.

**Key (line 1)**
Subassembly [1]
Drive [2]
Profile • size
• orientation [3]

**□□.□□□□.□□□**
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**Key (line 2)**
Carriage • base plate [4]
• type [5]
Belt • type [6]
• material [7]
• width
Turning unit • motor [8]
• shaft end - left [9]
- right [9]

[1] 0 = Eco-Slide complete
1 = linear guidance profile
2 = carriage unit
3 = drive unit
4 = turning unit without shaft end
5 = turning unit with shaft end
6 = motor flange
7 = syncronising unit
8 = gearbox unit

[2] 0 = without drive
1 = toothed belt
2 = chain
3 = threaded spindle
4 = toothed rack
9 = multiple

[3] H = horizontal
N = neutral
V = vertical

[4] 1 = alu plate
2 = profile
3 = profile frame

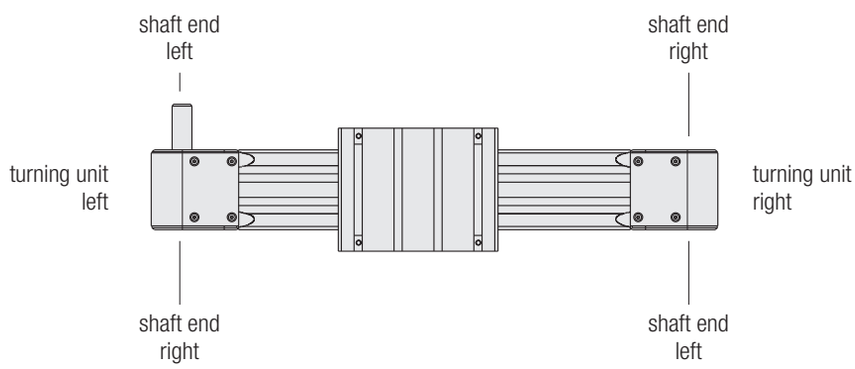
[5] 1 = ST-connector
2 = screw-type connector

[6] A = HTD5M
B = HTD8M

[7] G = fiber glass
S = steel

[8] 1 = for motor with hollow shaft
2 = for motor with shaft
3 = for motor with base

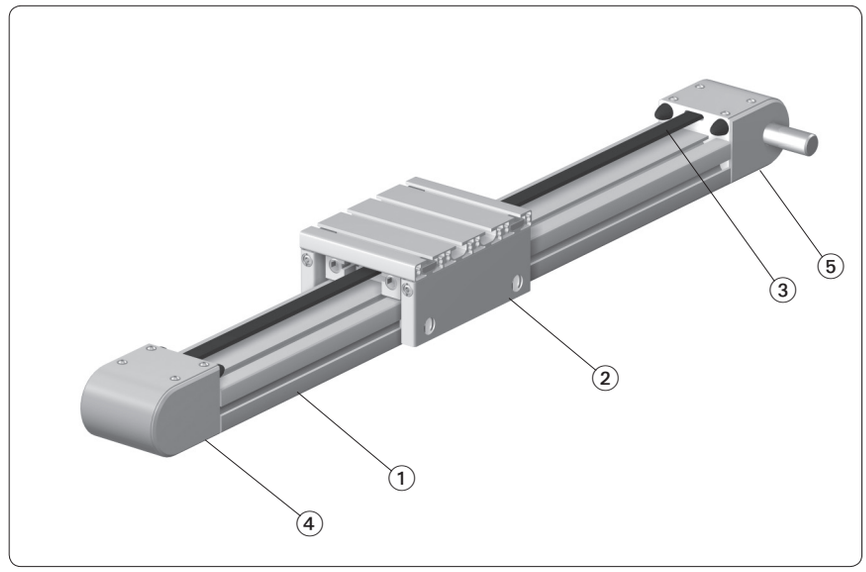
[9] 0 = without
1 = left
2 = right
3 = double sided




additional required order information:
• lift

## Eco-Slide

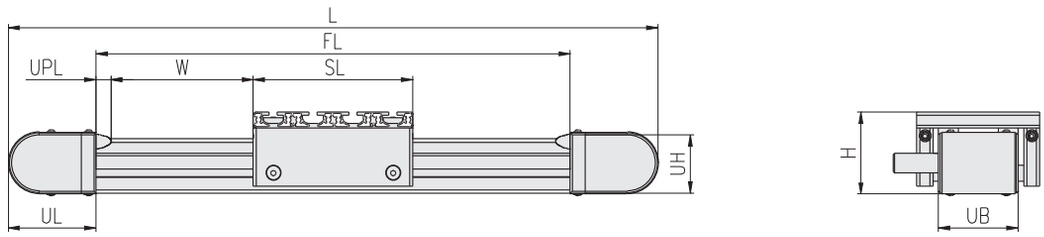
- **with toothed belt drive**
- **with guide shaft**

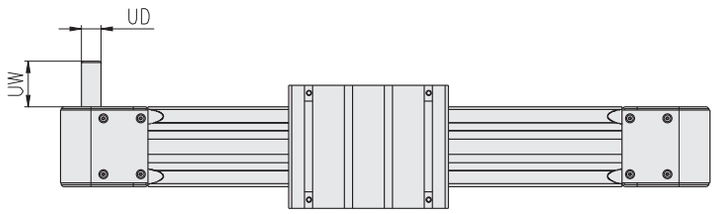


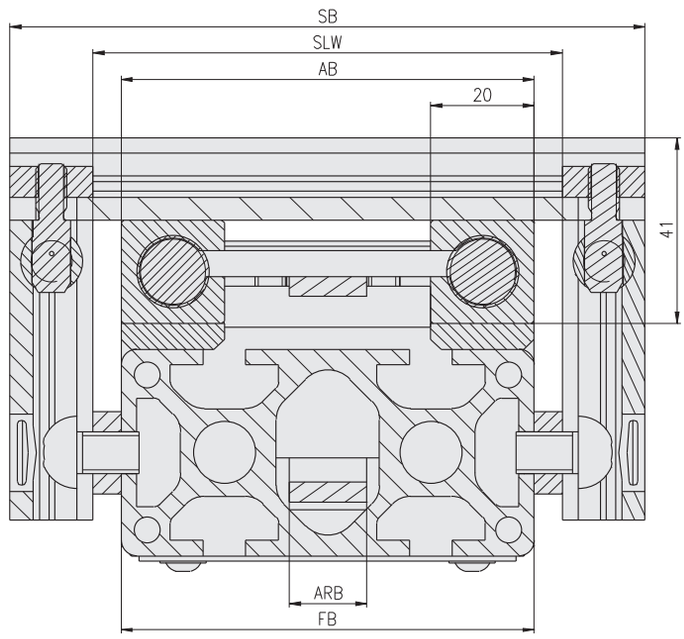

### Component groups of Eco-Slide

**Ordering description:**

| | Article-No. | Description | |
|---|---|---|---|
| | 4.101... | Eco-Slide complete including: | |
| ① | 4.119... | Linear guidance profile | |
| ② | *4.121...* | *Carriage unit* | *(catalogue in preparation)* |
| ③ | *4.131...* | *Drive unit* | *(catalogue in preparation)* |
| ④ | *4.141...* | *Turning unit without shaft end* | *(catalogue in preparation)* |
| ⑤ | *4.151...* | *Turning unit with shaft end* | *(catalogue in preparation)* |
| ⑥ | *4.161...* | *Motor flange* | *(catalogue in preparation)* |
| ⑦ | *4.171...* | *Syncronising unit* | *(catalogue in preparation)* |
| ⑧ | *4.181...* | *Gearbox unit* | *(catalogue in preparation)* |



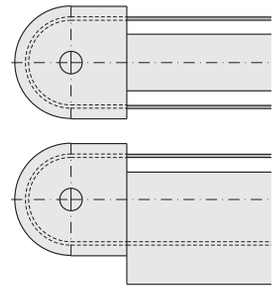



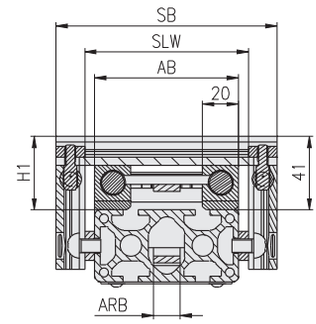

AB = width of drive unit
ARB = belt width of drive unit
FB = width of guidance profile
FL = length of guidance profile
H = total heigth
L = total length
SB = width of carriage
SL = length of carriage
SLW = clear width of carriage
UB = width of turning unit
UD = shaft end diameter of turning unit
UDR = pinion diameter of turning unit
UH = heigth of turning unit
UL = length of turning unit
UPL = parabolic spring length of turning unit
UW = shaft end length of turning unit
W = lift

## Eco-Slide complete
**with toothed belt drive**

A = Return of belt outside

I = Return of belt inside






AB = width of drive unit
ARB = belt width of drive unit
FB = width of guidance profile
Ix, Iy = moment of inertia

SB = width of carriage
SLW = clear width of carriage
UDR = pinion diameter of turning unit
UZ = tooth number of pinion (turning unit)

| Eco-Slide complete | | Linear guidance profile | | | Turning unit | | | | | | Carriage | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Profile | Technical data | | Type | Belt 5M15 | | Type | Belt 5M25 | | Return of belt ARB | | | | |
| Design | Article-No. | Dim. | Ix | Iy | | UZ | UDR | | UZ | UDR | 15 | 25 | SLW | AB | SB |
|  | 4.001.030060.65PH... | 30×60 | 7 | 25 | 100 | 36 | 56.2 | 100 | 36 | 56.2 | A | A | 71 | 60 | 103 |
| | 4.001.030100.84PH... | 30×100 | 12 | 115 | 100 | 36 | 56.2 | 100 | 36 | 56.2 | A | A | 111 | 100 | 143 |
| | 4.001.030150.85PH... | 30×150 | 16 | 340 | 100 | 36 | 56.2 | 100 | 36 | 56.2 | A | A | 161 | 150 | 193 |
| | 4.001.040080.64PH... | 40×80 | 24 | 82 | 60 | 28 | 43.4 | 100 | 40 | 62.5 | I | A | 91 | 80 | 123 |
| | 4.001.040120.84LH | 40×120 | 26 | 194 | 100 | 40 | 62.5 | 100 | 40 | 62.5 | A | A | 131 | 120 | 163 |
| | 4.001.040160.104LH | 40×160 | 37 | 478 | 60 | 28 | 43.4 | 100 | 40 | 62.5 | I | A | 171 | 160 | 203 |
| | 4.001.045090.64PH | 45×90 | 34 | 126 | 60 | 28 | 43.4 | 100 | 44 | 68.9 | I | A | 101 | 90 | 133 |

## Linear unit complete

| | | |
|---|---|---|
| **4.1□□.□□□□□□.□□□□□□.** | **Key (line 1)** | |
| 4.1□□.□□□□□□.□□□□□□. | Subassembly [1] | |
| 4.1□□.□□□□□□.□□□□□□. | Drive [2] | |
| 4.1□□.□□□□□□.□□□□□□. | Profile | • size |
| 4.1□□.□□□□□□.□□□□□□. | | • orientation [3] |
| 4.1□□.□□□□□□.□□□□□□. | Shaft | • orientation [4] |

| | | |
|---|---|---|
| **□□.□□.□□□□□□□□□□** | **Key (line 2)** | |
| □□.□□.□□□□□□□□□□ | Shaft | • number [5] |
| □□.□□.□□□□□□□□□□ | | • assembly [6] |
| □□.□□.□□□□□□□□□□ | | • Ø |
| □□.□□.□□□□□□□□□□ | | • material [7] |
| □□.□□.□□□□□□□□□□ | Carriage | • base plate [8] |
| □□.□□.□□□□□□□□□□ | | • bearing - roller [9] |
| □□.□□.□□□□□□□□□□ | | - bush [10] |
| □□.□□.□□□□□□□□□□ | Belt | • type [11] |
| □□.□□.□□□□□□□□□□ | | • material [12] |
| □□.□□.□□□□□□□□□□ | | • width |
| □□.□□.□□□□□□□□□□ | Turning unit | • motor [13] |
| □□.□□.□□□□□□□□□□ | | • shaft end - left [14] |
| □□.□□.□□□□□□□□□□ | | - right [14] |

[1] 0 = linear unit complete
1 = linear guidance
2 = carriage unit
3 = drive unit
4 = turning unit without shaft end
5 = turning unit with shaft end
6 = motor flange
7 = syncronising unit
8 = gearbox unit

[2] 0 = without drive
1 = toothed belt
2 = chain
3 = threaded spindle
4 = toothed rack
9 = multiple

[3] H = horizontal
N = neutral
V = vertical

[4] H = horizontal
V = vertical

[5] 1 = single sided
2 = double sided

[6] 2 = with guide profile

[7]

| | shaft | mounting elements |
|---|---|---|
| 1 = | coated steel | steel, galvanised |
| 2 = | X46Cr13 | steel, galvanised |
| 3 = | X46Cr13 | VA |

[8] 1 = alu plate
2 = profile
3 = profile frame

[9] 11 = 2×fixed / 2×eccentric, adjustable topside
12 = 2×fixed / 2×eccentric, adjustable underside
15 = 4×eccentric, adjustable topside
16 = 4×eccentric, adjustable underside

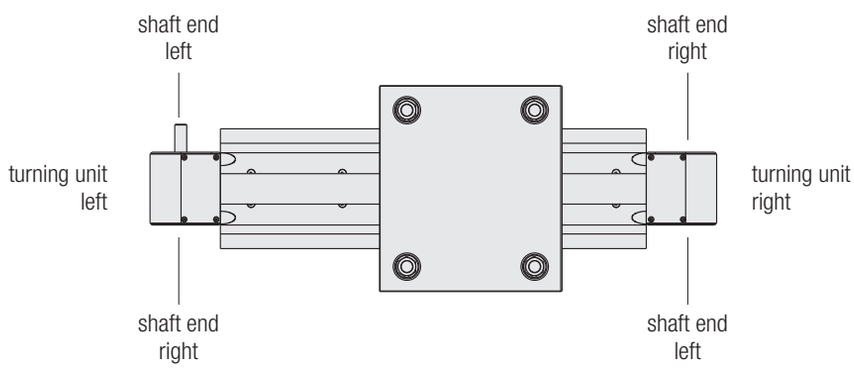
[10] 21 = ball
25 = slide; synthetic
28 = slide; ceramics

[11] A = HTD5M
B = HTD8M

[12] G = fiber glass
S = steel

[13] 1 = for motor with hollow shaft
2 = for motor with shaft
3 = for motor with base

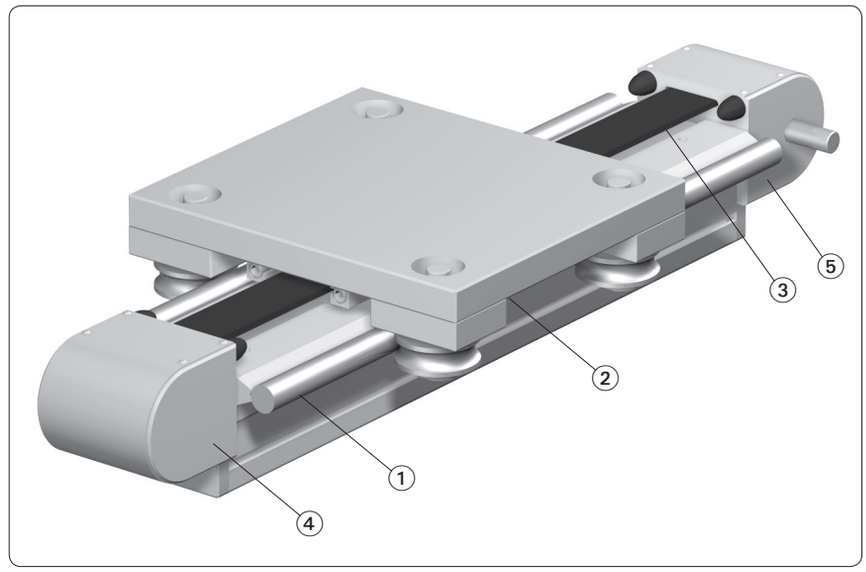
[14] 0 = without
1 = left
2 = right
3 = double sided




additional required order information:
- lift
- carriage length

## Linear unit

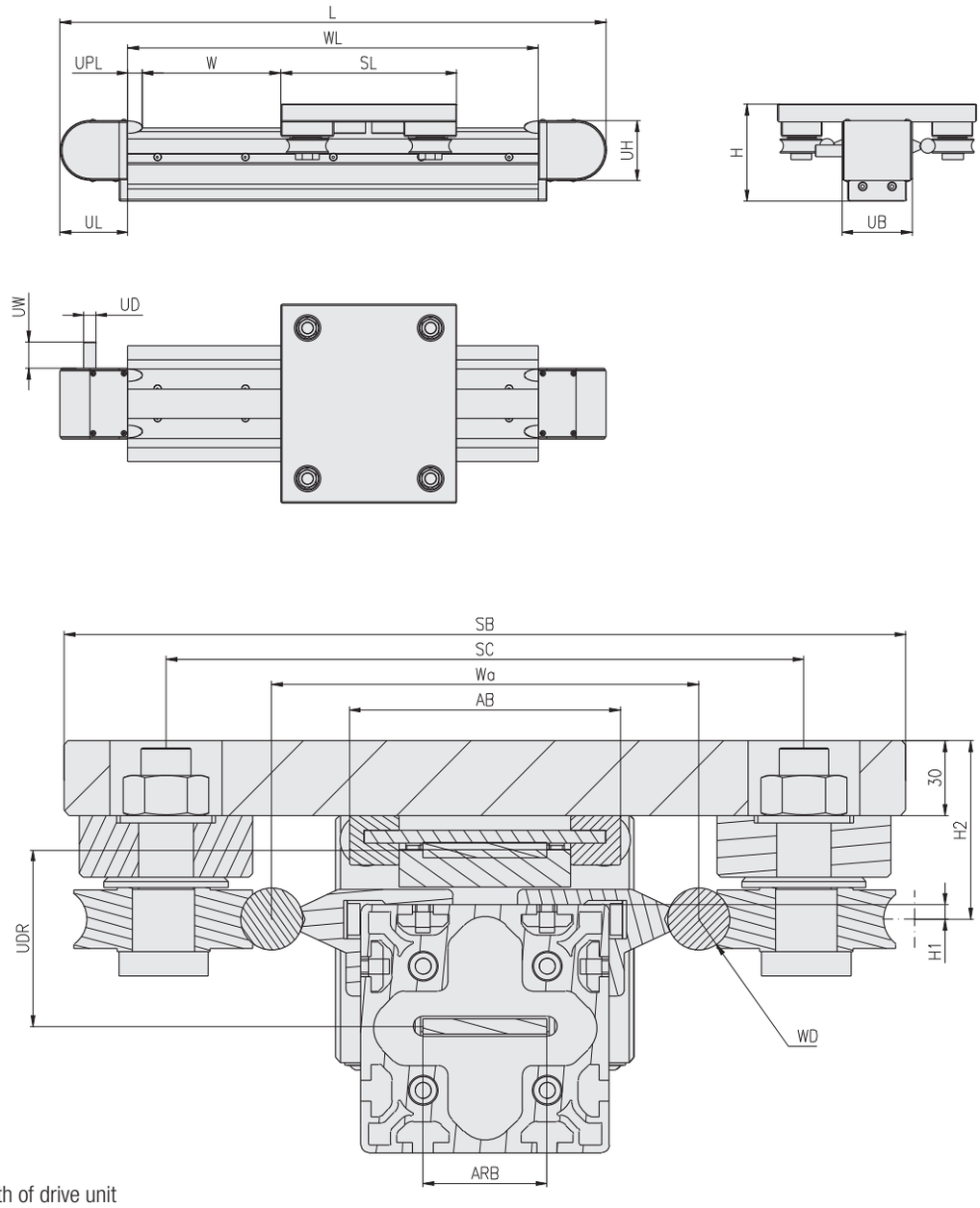
- **with toothed belt drive**
- **with wheel guide**




### Component groups of linear units

**Ordering description:**

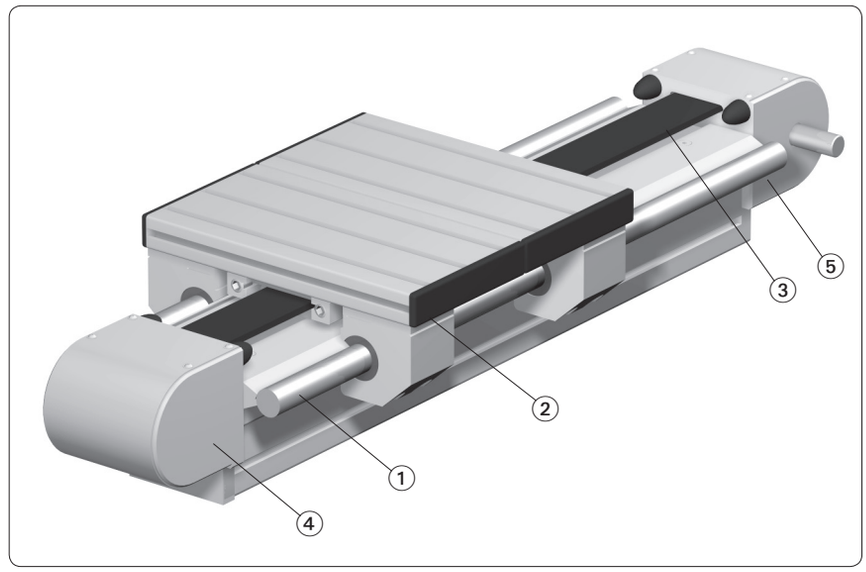
| | Article-No. | Description | |
|---|---|---|---|
| | 4.101... | Linear unit complete including: | |
| ① | 4.119... | Linear shaft guidance | |
| ② | *4.121...* | *Carriage unit* | *(catalogue in preparation)* |
| ③ | *4.131...* | *Drive unit* | *(catalogue in preparation)* |
| ④ | *4.141...* | *Turning unit without shaft end* | *(catalogue in preparation)* |
| ⑤ | *4.151...* | *Turning unit with shaft end* | *(catalogue in preparation)* |
| ⑥ | *4.161...* | *Motor flange* | *(catalogue in preparation)* |
| ⑦ | *4.171...* | *Syncronising unit* | *(catalogue in preparation)* |
| ⑧ | *4.181...* | *Gearbox unit* | *(catalogue in preparation)* |




AB = width of drive unit
ARB = belt width of drive unit
H = total heigth
H1 = heigth from shaft center to upper edge of profile
H2 = heigth from shaft center to upper edge of carriage
L = total length
SB = width of carriage
SC = center distance from ball bearing to carriage
SL = length of carriage
UB = width of turning unit
UD = shaft end diameter of turning unit
UDR = pinion diameter of turning unit
UH = heigth of turning unit
UL = length of turning unit
UPL = parabolic spring length of turning unit
UW = shaft end length of turning unit
W = lift
Wa = axle distance of shaft guidance
WD = diameter of shaft guidance
WL = profile length of shaft guidance

## Linear unit

- **with toothed belt drive**
- **with ball bearing guide**




### Component groups of linear units

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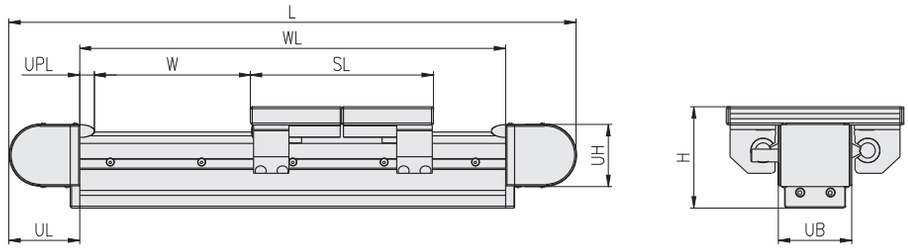
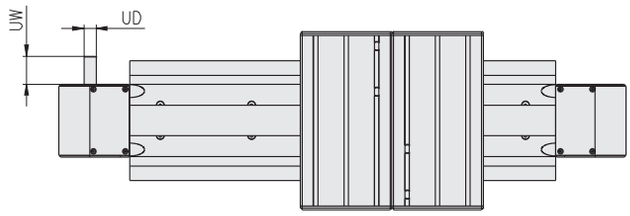
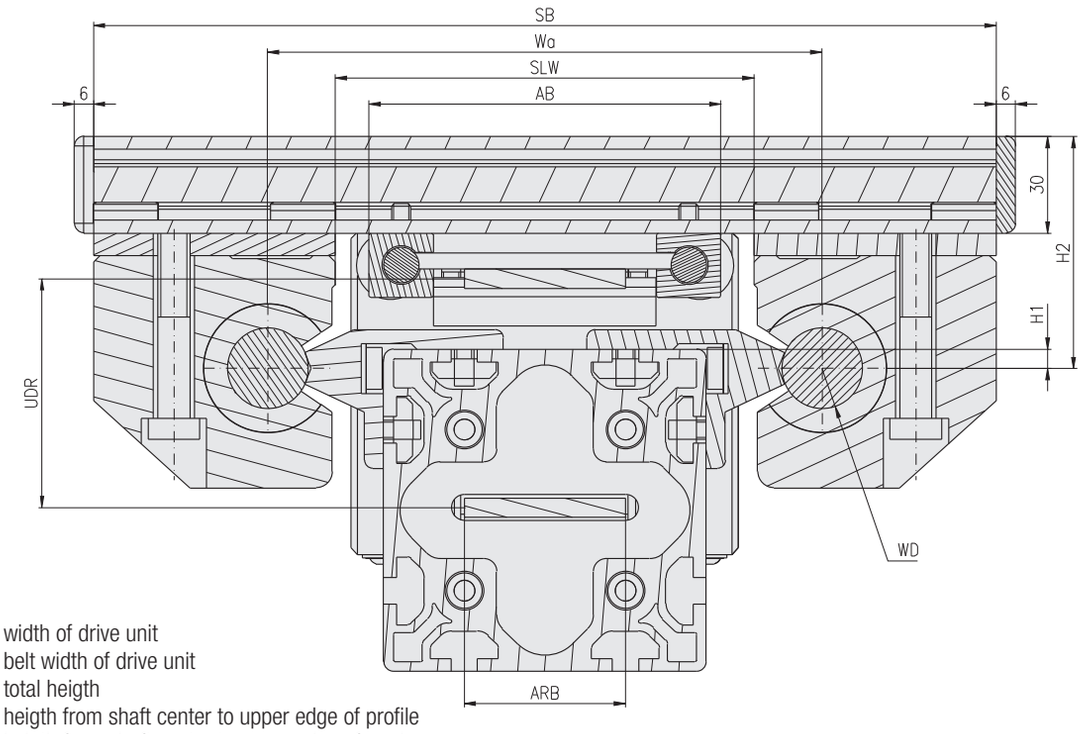
| ⑧ | *4.181...* | *Gearbox unit* | *(catalogue in preparation)* |

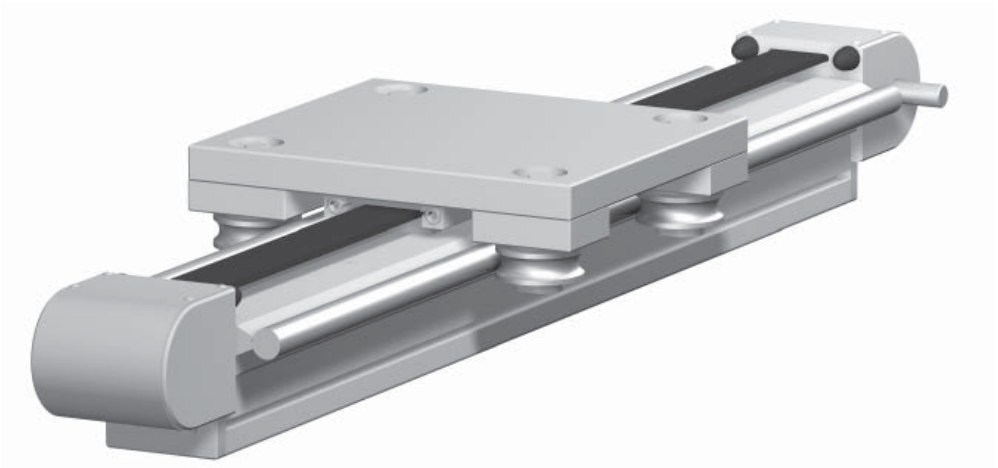


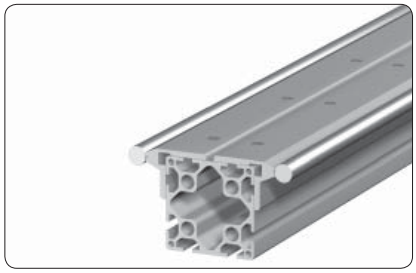
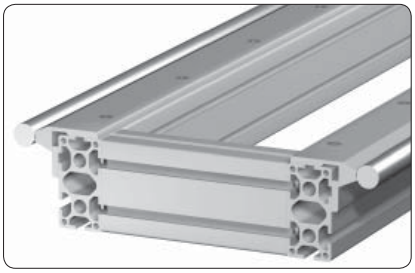
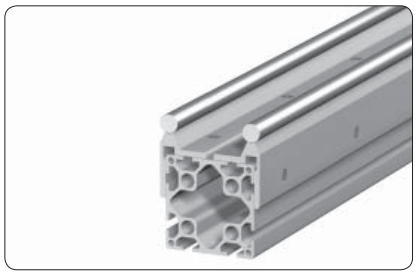
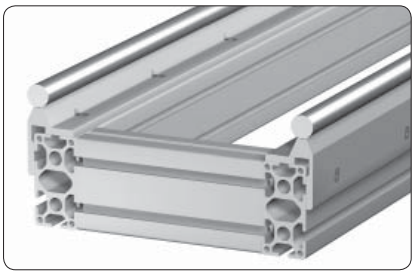




AB = width of drive unit
ARB = belt width of drive unit
H = total heigth
H1 = heigth from shaft center to upper edge of profile
H2 = heigth from shaft center to upper edge of carriage
L = total length
SB = width of carriage
SC = center distance from ball bearing to carriage
SL = length of carriage
SLW = clear width of carriage
UB = width of turning unit
UD = shaft end diameter of turning unit
UDR = pinion diameter of turning unit
UH = heigth of turning unit
UL = length of turning unit
UPL = parabolic spring length of turning unit
UW = shaft end length of turning unit
W = lift
Wa = axle distance of shaft guidance
WD = diameter of shaft guidance
WL = profile length of shaft guidance

## Komplett-Einheit



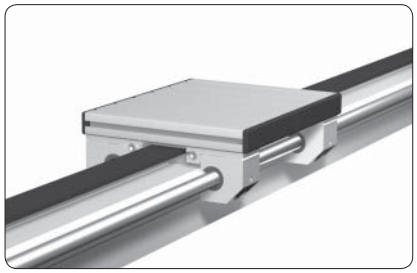
## Linear-Wellenführung

| | Einzelprofil-Ausführung | Rahmen-Ausführung |
|---|---|---|
| horizontal |  |  |
| vertikal |  |  |

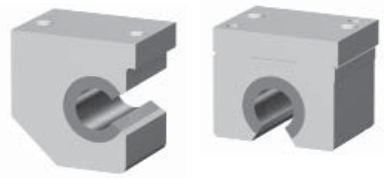
| Wellen-Ø | 12 mm | 16 mm | 20 mm | 25 mm |
|---|---|---|---|---|

## Schlitten-Einheit

### Buchsen-Führung

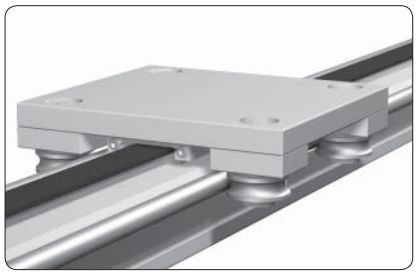


Gleit-/ Kugelbuchse



horizontal vertikal

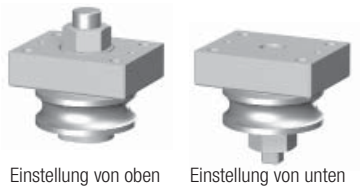
### Laufrollen-Führung



Laufrolle

fest

Exzenter

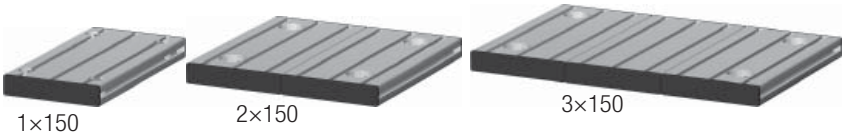


Einstellung von oben Einstellung von unten

### Schlittenplatten

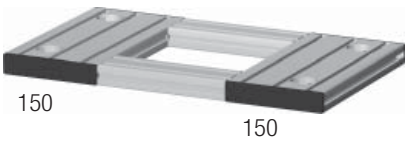
Alu-Platte

Profil-Platte



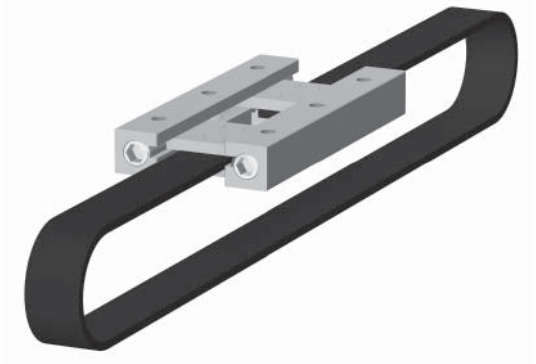
1×150 2×150 3×150

Profil-Rahmen



150 150

## Antriebs-Einheit



| Zahnriemen | | |
|---|---|---|
| -Typ: | 5M | 8M |
| -Breite: | 15 | |
| | | 20 |
| | 25 | |
| | | 30 |
| | | 50 |

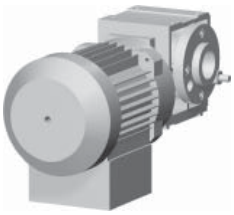
## Umlenk-Einheit

**Wellenabgang**

ohne

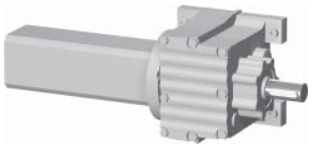
**Wellenabgang**

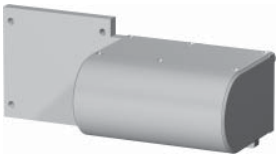
einseitig zweiseitig

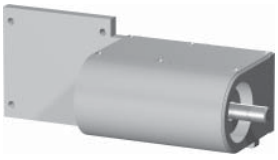


Motor mit Hohlwelle

Motor mit Welle und Flansch





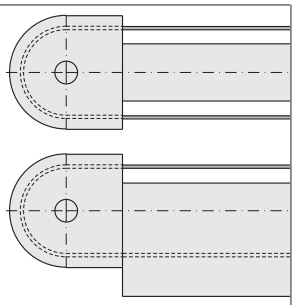


Motor mit Welle und Fuß

## Linear unit complete
**with toothed belt drive**
Shaft guidance
horizontal

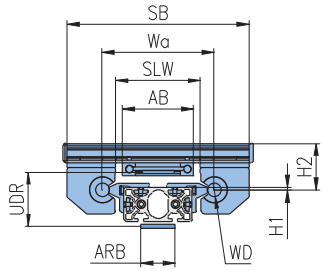
A = Return of belt outside

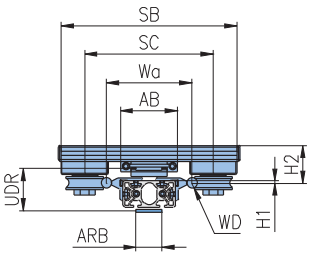
I = Return of belt inside



H1 = heigth from shaft center to upper edge of profile
Ix, Iy = moment of inertia
UDR = pinion diameter of turning unit
UZ = tooth number of pinion (turning unit)
Wa = axle distance of shaft guidance

| Linear unit complete | | Linear shaft guidance | | | | | | Turning unit | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Profile | Technical data | | | | | Type | Belt 5M | | Type | Belt 8M | |
| Design | Article-No. | Dim. | WD | Wa | H1 | Ix | Iy | | UZ | UDR | | UZ | UDR |
|  | 4.101.060060.83LNH22.12... | 60×60 L | 12 | 104 | 4 | 76 | 182 | 100 | 36 | 56.2 | 100 | 22 | 54.7 |
| | 4.101.060060.83LNH22.16... | 60×60 L | 16 | 112 | 3 | 80 | 258 | 100 | 36 | 56.2 | 100 | 22 | 54.7 |
| | 4.101.080080.83NH22.12... | 80×80 | 12 | 124 | 4 | 246 | 377 | 100 | 36 | 56.2 | 100 | 24 | 59.8 |
| | 4.101.080080.83NH22.16... | 80×80 | 16 | 132 | 3 | 253 | 475 | 100 | 40 | 62.5 | 100 | 26 | 64.8 |
| | 4.101.080080.83NH22.20... | 80×80 | 20 | 144 | 4 | 283 | 703 | 100 | 40 | 62.5 | 100 | 26 | 64.8 |
| | 4.101.080080.83NH22.25... | 80×80 | 25 | 152 | 6 | 293 | 984 | 100 | 40 | 62.5 | 100 | 26 | 64.8 |
| | 4.101.090090.83LNH22.12... | 90×90 L | 12 | 134 | 4 | 294 | 455 | 100 | 40 | 62.5 | 100 | 26 | 64.8 |
| | 4.101.090090.83LNH22.16... | 90×90 L | 16 | 142 | 3 | 309 | 585 | 100 | 40 | 62.5 | 100 | 26 | 64.8 |
| | 4.101.090090.83LNH22.20... | 90×90 L | 20 | 154 | 4 | 335 | 829 | 100 | 44 | 68.9 | 100 | 28 | 70.1 |
| | 4.101.090090.83LNH22.25... | 90×90 L | 25 | 162 | 6 | 346 | 1,148 | 100 | 44 | 68.9 | 100 | 28 | 70.1 |
| | 4.101.090090.83NH22.12... | 90×90 | 12 | 134 | 4 | 408 | 547 | 150 | 72 | 113.5 | 150 | 48 | 120.9 |
| | 4.101.090090.83NH22.16... | 90×90 | 16 | 142 | 3 | 430 | 677 | 150 | 72 | 113.5 | 150 | 48 | 120.9 |
| | 4.101.090090.83NH22.20... | 90×90 | 20 | 154 | 4 | 468 | 921 | 150 | 72 | 113.5 | 150 | 48 | 120.9 |
| | 4.101.090090.83NH22.25... | 90×90 | 25 | 162 | 6 | 488 | 1,240 | 150 | 72 | 113.5 | 150 | 48 | 120.9 |
| | 4.101.100100.83NH22.12... | 100×100 | 12 | 144 | 4 | 558 | 717 | 100 | 44 | 68.9 | 100 | 28 | 70.1 |
| | 4.101.100100.83NH22.16... | 100×100 | 16 | 152 | 3 | 583 | 850 | 100 | 44 | 68.9 | 100 | 28 | 70.1 |
| | 4.101.100100.83NH22.20... | 100×100 | 20 | 164 | 4 | 635 | 1,143 | 100 | 48 | 75.3 | 100 | 30 | 75.1 |
| | 4.101.100100.83NH22.25... | 100×100 | 25 | 172 | 6 | 661 | 1,501 | 100 | 48 | 75.3 | 100 | 30 | 75.1 |
|  | 4.101.030060.64HH22.12... | 30×60 | 12 | 104 | 4 | 17 | 158 | 100 | 36 | 56.2 | 100 | 22 | 54.7 |
| | 4.101.030060.64HH22.16... | 30×60 | 16 | 112 | 3 | 18 | 235 | 100 | 36 | 56.2 | 100 | 22 | 54.7 |
| | 4.101.030100.84HH22.12... | 30×100 | 12 | 144 | 4 | 24 | 421 | 100 | 36 | 56.2 | 100 | 22 | 54.7 |
| | 4.101.030100.84HH22.16... | 30×100 | 16 | 152 | 3 | 26 | 554 | 100 | 36 | 56.2 | 100 | 22 | 54.7 |
| | 4.101.030150.84HH22.12... | 30×150 | 12 | 194 | 4 | 40 | 1,115 | 100 | 36 | 56.2 | 100 | 22 | 54.7 |
| | 4.101.030150.84HH22.16... | 30×150 | 16 | 202 | 3 | 42 | 1,341 | 100 | 36 | 56.2 | 100 | 22 | 54.7 |
| | 4.101.040080.65HH22.12... | 40×80 | 12 | 124 | 4 | 47 | 308 | 100 | 24 | 37.1 | 100 | 28 | 70.1 |
| | 4.101.040080.65HH22.16... | 40×80 | 16 | 132 | 3 | 49 | 420 | 100 | 24 | 37.1 | 100 | 28 | 70.1 |
| | 4.101.040080.65HH22.20... | 40×80 | 20 | 144 | 4 | 56 | 634 | 100 | 40 | 62.5 | 100 | 28 | 70.1 |
| | 4.101.040080.65HH22.25... | 40×80 | 25 | 152 | 6 | 58 | 915 | 100 | 40 | 62.5 | 100 | 28 | 70.1 |
| | 4.101.040120.84LHH22.12... | 40×120 L | 12 | 164 | 4 | 49 | 659 | 100 | 44 | 68.9 | 100 | 28 | 70.1 |
| | 4.101.040120.84LHH22.16... | 40×120 L | 16 | 172 | 3 | 52 | 826 | 100 | 44 | 68.9 | 100 | 28 | 70.1 |
| | 4.101.040120.84LHH22.20... | 40×120 L | 20 | 184 | 4 | 59 | 1,199 | 100 | 44 | 68.9 | 100 | 28 | 70.1 |
| | 4.101.040120.84LHH22.25... | 40×120 L | 25 | 192 | 6 | 61 | 1,643 | 100 | 44 | 68.9 | 100 | 28 | 70.1 |
| | 4.101.040160.104LHH22.12... | 40×160 L | 12 | 204 | 4 | 62 | 1,263 | 60 | 24 | 37.1 | 100 | 28 | 70.1 |
| | 4.101.040160.104LHH22.16... | 40×160 L | 16 | 212 | 3 | 65 | 1,510 | 60 | 24 | 37.1 | 100 | 28 | 70.1 |
| | 4.101.040160.104LHH22.20... | 40×160 L | 20 | 224 | 4 | 73 | 207 | 60 | 24 | 37.1 | 100 | 28 | 70.1 |
| | 4.101.040160.104LHH22.25... | 40×160 L | 25 | 232 | 6 | 75 | 2,716 | 60 | 24 | 37.1 | 100 | 28 | 70.1 |
| | 4.101.045090.64HH22.12... | 45×90 | 12 | 134 | 4 | 63 | 403 | 60 | 24 | 37.1 | 100 | 30 | 75.1 |
| | 4.101.045090.64HH22.16... | 45×90 | 16 | 142 | 3 | 67 | 532 | 60 | 24 | 37.1 | 100 | 30 | 75.1 |
| | 4.101.045090.64HH22.20... | 45×90 | 20 | 154 | 4 | 75 | 777 | 60 | 24 | 37.1 | 100 | 30 | 75.1 |
| | 4.101.045090.64HH22.25... | 45×90 | 25 | 162 | 6 | 77 | 1,095 | 60 | 24 | 37.1 | 100 | 30 | 75.1 |
| | 4.101.050100.65HH22.12... | 50×100 | 12 | 144 | 4 | 93 | 530 | 60 | 28 | 43.4 | 100 | 32 | 80.2 |
| | 4.101.050100.65HH22.16... | 50×100 | 16 | 152 | 3 | 98 | 663 | 60 | 28 | 43.4 | 100 | 32 | 80.2 |
| | 4.101.050100.65HH22.20... | 50×100 | 20 | 164 | 4 | 109 | 956 | 60 | 28 | 43.4 | 100 | 32 | 80.2 |
| | 4.101.050100.65HH22.25... | 50×100 | 25 | 172 | 6 | 112 | 1,314 | 60 | 28 | 43.4 | 100 | 32 | 80.2 |




WD = diameter of shaft guidance
AB = width of drive unit
ARB = belt width of drive unit
H2 = heigth from shaft center to upper edge of carriage
SB = width of carriage
SC = center distance from ball bearing to carriage
SLW = clear width of carriage

## Carriage

### Ball bearing guide

| Return of belt 5M 15 | Return of belt 5M 25 | Return of belt 8M 20 | Return of belt 8M 30 | Return of belt 8M 50 | SLW | AB | SB | ARB | H2 |
|---|---|---|---|---|---|---|---|---|---|
| I | I | | | | 82 | 82 | 164 | 25 | 65 |
| I | I | | | | 86 | 85 | 186 | 25 | 65 |
| I | I | I | I | I | 102 | 100 | 184 | 50 | 65 |
| I | I | I | I | I | 106 | 105 | 206 | 50 | 65 |
| I | I | I | I | I | 110 | 109 | 230 | 50 | 72 |
| I | I | I | I | I | 110 | 109 | 260 | 50 | 72 |
| I | I | I | I | I | 112 | 110 | 194 | 50 | 65 |
| I | I | I | I | I | 116 | 115 | 216 | 50 | 65 |
| I | I | I | I | I | 120 | 115 | 240 | 60 | 72 |
| I | I | I | I | I | 120 | 115 | 270 | 60 | 72 |
| A | A | A | A | A | 112 | 110 | 194 | 50 | 65 |
| A | A | A | A | A | 116 | 115 | 216 | 50 | 65 |
| A | A | A | A | A | 120 | 115 | 240 | 60 | 72 |
| A | A | A | A | A | 120 | 115 | 270 | 60 | 72 |
| I | I | I | I | I | 122 | 120 | 204 | 60 | 65 |
| I | I | I | I | I | 126 | 125 | 226 | 65 | 65 |
| I | I | I | I | I | 130 | 125 | 250 | 70 | 72 |
| I | I | I | I | I | 130 | 125 | 280 | 70 | 72 |
| A | | | | | 82 | 82 | 164 | 25 | 65 |
| A | | | | | 86 | 82 | 186 | 25 | 65 |
| A | A | A | A | A | 122 | 120 | 204 | 60 | 65 |
| A | A | A | A | A | 126 | 125 | 226 | 65 | 65 |
| A | A | A | A | A | 172 | 170 | 254 | 110 | 65 |
| A | A | A | A | A | 176 | 175 | 276 | 115 | 65 |
| I | | A | A | | 102 | 100 | 184 | 40 | 65 |
| I | | A | A | | 106 | 105 | 206 | 45 | 65 |
| A | A | A | A | A | 110 | 105 | 230 | 50 | 72 |
| A | A | A | A | A | 110 | 105 | 260 | 50 | 72 |
| A | A | A | A | A | 142 | 140 | 224 | 80 | 65 |
| A | A | A | A | A | 146 | 145 | 246 | 85 | 65 |
| A | A | A | A | A | 150 | 145 | 270 | 90 | 72 |
| A | A | A | A | A | 150 | 145 | 300 | 90 | 72 |
| I | I | A | A | A | 182 | 180 | 264 | 120 | 65 |
| I | | A | A | A | 186 | 185 | 286 | 125 | 65 |
| i | A | A | A | A | 190 | 185 | 310 | 130 | 72 |
| I | A | A | A | A | 190 | 185 | 340 | 130 | 72 |
| I | | A | A | A | 112 | 110 | 194 | 50 | 65 |
| I | | A | A | A | 116 | 115 | 216 | 50 | 65 |
| I | A | A | A | A | 120 | 115 | 240 | 60 | 72 |
| I | A | A | A | A | 120 | 115 | 270 | 60 | 72 |
| I | A | A | A | A | 122 | 120 | 204 | 60 | 65 |
| I | I | A | A | A | 126 | 125 | 226 | 65 | 65 |
| I | I | A | A | A | 130 | 125 | 250 | 70 | 72 |
| I | A | A | A | A | 130 | 125 | 280 | 70 | 72 |

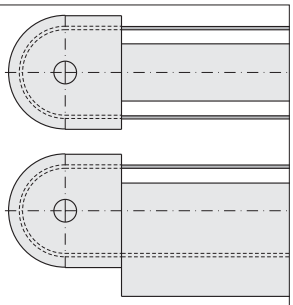
### Wheel guide

| Return of belt 5M 15 | Return of belt 5M 25 | Return of belt 8M 20 | Return of belt 8M 30 | Return of belt 8M 50 | SC | AB | SB | ARB | H2 |
|---|---|---|---|---|---|---|---|---|---|
| I | I | I | I | | 147.5 | 98 | 198 | 40 | 65 |
| I | I | I | I | | 175 | 105 | 245 | 40 | 65 |
| I | I | I | I | I | 167.5 | 118 | 218 | 50 | 65 |
| I | I | I | I | I | 195 | 125 | 265 | 60 | 65 |
| I | I | I | I | I | 226 | 136 | 316 | 75 | 72 |
| I | I | I | I | I | 239 | 149 | 329 | 90 | 72 |
| I | I | I | I | I | 177.5 | 128 | 228 | 70 | 65 |
| I | I | I | I | I | 205 | 135 | 275 | 75 | 65 |
| I | I | I | I | I | 236 | 146 | 326 | 85 | 72 |
| I | I | I | I | I | 249 | 159 | 339 | 100 | 72 |
| A | A | A | A | A | 177.5 | 128 | 228 | 70 | 65 |
| A | A | A | A | A | 205 | 135 | 275 | 75 | 65 |
| A | A | A | A | A | 236 | 146 | 326 | 85 | 72 |
| A | A | A | A | A | 249 | 159 | 339 | 100 | 72 |
| I | I | I | I | I | 187.5 | 138 | 238 | 75 | 65 |
| I | I | I | I | I | 215 | 145 | 285 | 85 | 65 |
| I | I | I | I | I | 246 | 156 | 336 | 95 | 72 |
| I | I | I | I | I | 259 | 169 | 349 | 110 | 72 |
| A | A | A | A | | 147.5 | 98 | 198 | 40 | 65 |
| A | A | A | A | | 175 | 105 | 245 | 45 | 65 |
| A | A | A | A | A | 187.5 | 138 | 238 | 75 | 65 |
| A | A | A | A | A | 215 | 145 | 285 | 85 | 65 |
| A | A | A | A | A | 237.5 | 188 | 288 | 130 | 65 |
| A | A | A | A | A | 265 | 195 | 335 | 135 | 65 |
| I | | A | A | A | 167.5 | 118 | 218 | 60 | 65 |
| I | | A | A | A | 195 | 125 | 265 | 65 | 65 |
| A | A | A | A | A | 226 | 136 | 316 | 75 | 72 |
| A | A | A | A | A | 239 | 149 | 329 | 90 | 72 |
| A | A | A | A | A | 207.5 | 158 | 258 | 100 | 65 |
| A | A | A | A | A | 235 | 165 | 305 | 100 | 65 |
| A | A | A | A | A | 266 | 176 | 356 | 115 | 72 |
| A | A | A | A | A | 279 | 189 | 369 | 130 | 72 |
| I | | A | A | A | 247.5 | 198 | 298 | 140 | 65 |
| I | | A | A | A | 275 | 205 | 345 | 145 | 65 |
| A | A | A | A | A | 306 | 216 | 396 | 150 | 72 |
| A | A | A | A | A | 319 | 229 | 409 | 170 | 72 |
| I | | A | A | A | 177.5 | 128 | 228 | 70 | 65 |
| I | | A | A | A | 205 | 135 | 275 | 75 | 65 |
| A | A | A | A | A | 236 | 146 | 326 | 85 | 72 |
| A | A | A | A | A | 249 | 159 | 339 | 100 | 72 |
| I | A | A | A | A | 187.5 | 138 | 238 | 80 | 65 |
| I | I | A | A | A | 215 | 145 | 285 | 85 | 65 |
| I | I | A | A | A | 246 | 156 | 336 | 95 | 72 |
| I | A | A | A | A | 259 | 169 | 349 | 110 | 72 |

## Linear unit complete
**with toothed belt drive**
Shaft guidance
horizontal

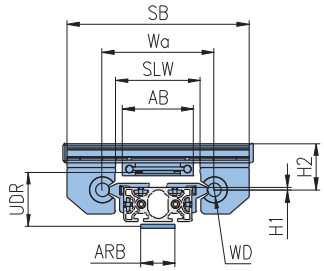
A = Return of belt outside

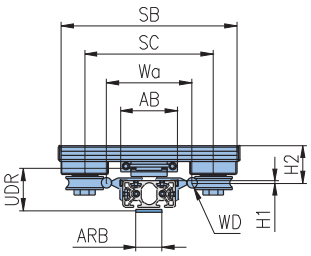
I = Return of belt inside



H1 = heigth from shaft center to upper edge of profile
Ix, Iy = moment of inertia
UDR = pinion diameter of turning unit
UZ = tooth number of pinion (turning unit)
Wa = axle distance of shaft guidance

| Linear unit complete | | Linear shaft guidance | | | | | | Turning unit | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Profile | Technical data | | | | | Type | Belt 5M | | Type | Belt 8M | |
| Design | Article-No. | Dim. | WD | Wa | H1 | Ix | Iy | | UZ | UDR | | UZ | UDR |
|  | 4.101.050150.65HH22.12... | 50×150 | 12 | 194 | 4 | 122 | 1,313 | 100 | 48 | 75.3 | 100 | 32 | 80.2 |
| | 4.101.050150.85HH22.16... | 50×150 | 16 | 202 | 3 | 129 | 1,539 | 100 | 48 | 75.3 | 100 | 32 | 80.2 |
| | 4.101.050150.85HH22.20... | 50×150 | 20 | 214 | 4 | 141 | 2,052 | 100 | 48 | 75.3 | 100 | 32 | 80.2 |
| | 4.101.050150.85HH22.25... | 50×150 | 25 | 222 | 6 | 144 | 2,640 | 100 | 48 | 75.3 | 100 | 32 | 80.2 |
| | 4.101.080160.124HH22.12... | 80×160 | 12 | 204 | 4 | 380 | 1,688 | 60 | 44 | 68.9 | 150 | 44 | 110.7 |
| | 4.101.080160.124HH22.16... | 80×160 | 16 | 212 | 3 | 397 | 1,936 | 60 | 44 | 68.9 | 150 | 44 | 110.7 |
| | 4.101.080160.124HH22.20... | 80×160 | 20 | 224 | 4 | 430 | 2,500 | 100 | 60 | 94.4 | 150 | 44 | 110.7 |
| | 4.101.080160.124HH22.25... | 80×160 | 25 | 232 | 6 | 446 | 3,142 | 100 | 60 | 94.4 | 150 | 44 | 110.7 |
| | 4.101.100200.124HH22.12... | 100×200 | 12 | 244 | 4 | 953 | 3,717 | 100 | 60 | 94.4 | 150 | 56 | 141.2 |
| | 4.101.100200.124HH22.16... | 100×200 | 16 | 252 | 3 | 985 | 4,060 | 100 | 60 | 94.4 | 150 | 56 | 141.2 |
| | 4.101.100200.124HH22.20... | 100×200 | 20 | 264 | 4 | 1,055 | 4,858 | 150 | 60 | 94.4 | 150 | 56 | 141.2 |
| | 4.101.100200.124HH22.25... | 100×200 | 25 | 272 | 6 | 1,096 | 5,733 | 150 | 72 | 113.5 | 150 | 56 | 141.2 |
|  | 4.101.080160.124VH22.12... | 80×160 | 12 | 124 | 4 | 1,376 | 496 | 100 | 40 | 62.5 | 100 | 26 | 64.8 |
| | 4.101.080160.124VH22.16... | 80×160 | 16 | 132 | 3 | 1,441 | 599 | 100 | 40 | 62.5 | 100 | 26 | 64.8 |
| | 4.101.080160.124VH22.20... | 80×160 | 20 | 144 | 4 | 1,580 | 822 | 100 | 40 | 62.5 | 100 | 26 | 64.8 |
| | 4.101.080160.124VH22.25... | 80×160 | 25 | 152 | 6 | 1,666 | 1,104 | 100 | 40 | 62.5 | 100 | 26 | 64.8 |
| | 4.101.100200.124VH22.12... | 100×200 | 12 | 144 | 4 | 3,370 | 1,088 | 100 | 48 | 75.3 | 100 | 30 | 75.1 |
| | 4.101.100200.124VH22.16... | 100×200 | 16 | 152 | 3 | 3,499 | 1,221 | 100 | 48 | 75.3 | 100 | 30 | 75.1 |
| | 4.101.100200.124VH22.20... | 100×200 | 20 | 164 | 4 | 3,799 | 1,514 | 100 | 48 | 75.3 | 100 | 30 | 75.1 |
| | 4.101.100200.124VH22.25... | 100×200 | 25 | 172 | 6 | 4,007 | 1,872 | 100 | 48 | 75.3 | 100 | 30 | 75.1 |




WD = diameter of shaft guidance
AB = width of drive unit
ARB = belt width of drive unit
H2 = heigth from shaft center to upper edge of carriage
SB = width of carriage
SC = center distance from ball bearing to carriage
SLW = clear width of carriage

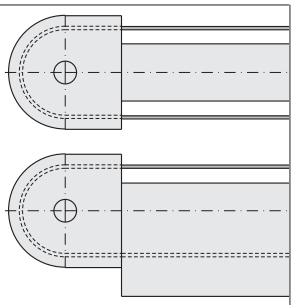
**Carriage**

| Ball bearing guide | | | | | | | | | | Wheel guide | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Return of belt | | | | | | | | | | Return of belt | | | | | | | | | |
| 5M | | 8M | | | | | | | | 5M | | 8M | | | | | | | |
| 15 | 25 | 20 | 30 | 50 | SLW | AB | SB | ARB | H2 | 15 | 25 | 20 | 30 | 50 | SC | AB | SB | ARB | H2 |
| A | A | A | A | A | 172 | 170 | 254 | 110 | 65 | A | A | A | A | A | 237.5 | 188 | 288 | 130 | 65 |
| A | A | A | A | A | 176 | 175 | 276 | 115 | 65 | A | A | A | A | A | 265 | 195 | 335 | 135 | 65 |
| A | A | A | A | A | 180 | 175 | 300 | 120 | 72 | A | A | A | A | A | 296 | 206 | 386 | 145 | 72 |
| A | A | A | A | A | 180 | 175 | 330 | 120 | 72 | A | A | A | A | A | 309 | 219 | 399 | 160 | 72 |
| I | | A | A | A | 182 | 180 | 264 | 120 | 65 | I | | A | A | A | 247.5 | 198 | 298 | 140 | 65 |
| I | | A | A | A | 186 | 185 | 286 | 125 | 65 | I | | A | A | A | 275 | 205 | 345 | 145 | 65 |
| A | A | A | A | A | 190 | 115 | 310 | 130 | 72 | A | A | A | A | A | 306 | 216 | 396 | 150 | 72 |
| A | A | A | A | A | 190 | 185 | 340 | 130 | 72 | A | A | A | A | A | 319 | 229 | 409 | 170 | 72 |
| I | I | A | A | A | 222 | 220 | 304 | 160 | 65 | I | I | A | A | A | 287.5 | 238 | 338 | 180 | 65 |
| I | I | A | A | A | 226 | 225 | 326 | 160 | 65 | I | I | A | A | A | 315 | 245 | 385 | 185 | 65 |
| I | I | A | A | A | 230 | 225 | 350 | 170 | 72 | I | I | A | A | A | 346 | 256 | 436 | 195 | 72 |
| A | A | A | A | A | 230 | 225 | 380 | 170 | 72 | A | A | A | A | A | 359 | 269 | 449 | 210 | 72 |
| I | I | I | I | | 102 | 100 | 184 | 30 | 65 | I | I | I | I | I | 167.5 | 118 | 218 | 50 | 65 |
| I | I | I | I | I | 106 | 105 | 206 | 50 | 65 | I | I | I | I | I | 195 | 125 | 265 | 65 | 65 |
| I | I | I | I | I | 110 | 105 | 230 | 50 | 72 | I | I | I | I | I | 226 | 136 | 316 | 75 | 72 |
| I | I | I | I | I | 110 | 105 | 260 | 50 | 72 | I | I | I | I | I | 239 | 149 | 329 | 90 | 72 |
| I | I | I | I | I | 122 | 120 | 204 | 60 | 65 | I | I | I | I | I | 187.5 | 138 | 238 | 75 | 65 |
| I | I | I | I | I | 126 | 125 | 226 | 65 | 65 | I | I | I | I | I | 215 | 145 | 285 | 85 | 65 |
| I | I | I | I | I | 130 | 125 | 250 | 70 | 72 | I | I | I | I | I | 246 | 156 | 336 | 95 | 72 |
| I | I | I | I | I | 130 | 125 | 280 | 70 | 72 | I | I | I | I | I | 259 | 169 | 349 | 110 | 72 |

## Linear unit complete
**with toothed belt drive**
Shaft guidance
vertical

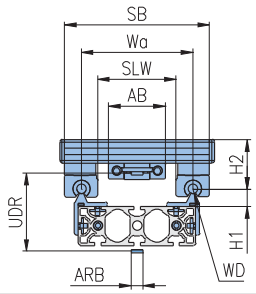
A = Return of belt outside

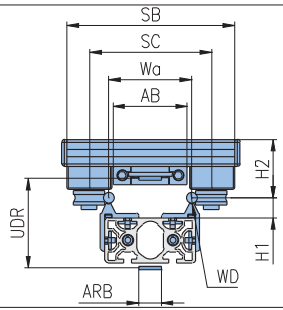
I = Return of belt inside



H1 = heigth from shaft center to upper edge of profile
Ix, Iy = moment of inertia
UDR = pinion diameter of turning unit
UZ = tooth number of pinion (turning unit)
Wa = axle distance of shaft guidance

| Linear unit complete | | Linear shaft guidance | | | | | | Turning unit | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Profile | Technical data | | | | | Type | Belt 5M | | Type | Belt 8M | |
| Design | Article-No. | Dim. | WD | Wa | H1 | Ix | Iy | | UZ | UDR | | UZ | UDR |
|  | 4.101.090090.83LNV22.12... | 90×90 L | 12 | 82 | 22 | 356 | 364 | 100 | 60 | 94.4 | 100 | 34 | 85.2 |
| | 4.101.090090.83LNV22.16... | 90×90 L | 16 | 84 | 26 | 424 | 405 | 100 | 60 | 94.4 | 150 | 38 | 95.4 |
| | 4.101.090090.83LNV22.20... | 90×90 L | 20 | 82 | 32 | 533 | 484 | 150 | 72 | 113.5 | 150 | 40 | 100.5 |
| | 4.101.090090.83LNV22.25... | 90×90 L | 25 | 78 | 36 | 659 | 542 | 150 | 72 | 113.5 | 150 | 44 | 110.7 |
| | 4.101.090090.83NV22.12... | 90×90 | 12 | 82 | 22 | 480 | 456 | 100 | 60 | 94.4 | 150 | 56 | 141.2 |
| | 4.101.090090.83NV22.16... | 90×90 | 16 | 84 | 26 | 565 | 496 | | | | | 64 | 161.6 |
| | 4.101.100100.83NV22.12... | 100×100 | 12 | 92 | 22 | 637 | 617 | 100 | 60 | 94.4 | 150 | 38 | 95.4 |
| | 4.101.100100.83NV22.16... | 100×100 | 16 | 94 | 26 | 727 | 661 | 100 | 60 | 94.4 | 100 | 36 | 90.3 |
| | 4.101.100100.83NV22.20... | 100×100 | 20 | 92 | 32 | 897 | 767 | 150 | 72 | 113.5 | 150 | 44 | 110.7 |
| | 4.101.100100.83NV22.25... | 100×100 | 25 | 88 | 36 | 1,087 | 842 | 150 | 72 | 113.5 | 150 | 48 | 120.9 |
|  | 4.101.030100.84HV22.12... | 30×100 | 12 | 92 | 22 | 50 | 321 | 100 | 60 | 94.4 | 100 | 32 | 80.2 |
| | 4.101.030100.84HV22.16... | 30×100 | 16 | 94 | 26 | 75 | 37 | 100 | 60 | 94.4 | 100 | 36 | 90.3 |
| | 4.101.030150.84HV22.12... | 30×150 | 12 | 142 | 22 | 71 | 971 | 100 | 60 | 94.4 | 100 | 32 | 80.2 |
| | 4.101.030150.84HV22.16... | 30×150 | 16 | 144 | 26 | 102 | 1,072 | 100 | 60 | 94.4 | 100 | 36 | 90.3 |
| | 4.101.040120.84LHV22.12... | 40×120 L | 12 | 112 | 22 | 82 | 82 | 100 | 60 | 94.4 | 100 | 36 | 90.3 |
| | 4.101.040120.84LHV22.16... | 40×120 L | 16 | 114 | 26 | 113 | 606 | 100 | 60 | 94.4 | 150 | 38 | 95.4 |
| | 4.101.040120.84LHV22.20... | 40×120 L | 20 | 112 | 32 | 170 | 762 | 150 | 72 | 113.5 | 150 | 44 | 110.7 |
| | 4.101.040120.84LHV22.25... | 40×120 L | 25 | 108 | 36 | 237 | 879 | 150 | 72 | 113.5 | 150 | 48 | 120.9 |
| | 4.101.040160.104LHV22.12... | 40×160 L | 12 | 152 | 22 | 98 | 1,111 | 100 | 40 | 62.5 | 100 | 36 | 90.3 |
| | 4.101.040160.104LHV22.16... | 40×160 L | 16 | 154 | 26 | 133 | 1,225 | 100 | 44 | 68.9 | 150 | 40 | 100.5 |
| | 4.101.040160.104LHV22.20... | 40×160 L | 20 | 152 | 32 | 198 | 1,515 | 150 | 72 | 113.5 | 150 | 44 | 110.7 |
| | 4.101.040160.104LHV22.25... | 40×160 L | 25 | 148 | 36 | 277 | 1,742 | 150 | 72 | 113.5 | 150 | 48 | 120.9 |
| | 4.101.045090.64HV22.12... | 45×90 | 12 | 82 | 22 | 100 | 312 | 100 | 44 | 68.9 | 150 | 38 | 95.4 |
| | 4.101.045090.64HV22.16... | 45×90 | 16 | 84 | 26 | 135 | 347 | 100 | 48 | 75.3 | 150 | 44 | 110.7 |
| | 4.101.045090.64HV22.20... | 45×90 | 20 | 82 | 32 | 200 | 431 | 150 | 72 | 113.5 | 150 | 44 | 110.7 |
| | 4.101.045090.64HV22.25... | 45×90 | 25 | 78 | 36 | 276 | 489 | 150 | 72 | 113.5 | 150 | 48 | 120.9 |
| | 4.101.050100.65HV22.12... | 50×100 | 12 | 92 | 22 | 135 | 430 | 100 | 40 | 62.5 | 150 | 40 | 100.5 |
| | 4.101.050100.65HV22.16... | 50×100 | 16 | 94 | 26 | 176 | 474 | 100 | 44 | 68.9 | 150 | 44 | 110.7 |
| | 4.101.050100.65HV22.20... | 50×100 | 20 | 92 | 32 | 252 | 580 | 100 | 48 | 75.3 | 100 | 32 | 80.2 |
| | 4.101.050100.65HV22.25... | 50×100 | 25 | 88 | 36 | 341 | 655 | 150 | 72 | 113.5 | 150 | 56 | 141.2 |
| | 4.101.050150.85HV22.12... | 50×150 | 12 | 142 | 22 | 167 | 1,170 | 150 | 72 | 113.5 | 150 | 40 | 100.5 |
| | 4.101.050150.85HV22.16... | 50×150 | 16 | 144 | 26 | 213 | 1,270 | 150 | 72 | 113.5 | 150 | 44 | 110.7 |
| | 4.101.050150.85HV22.20... | 50×150 | 20 | 142 | 32 | 298 | 1,523 | 150 | 72 | 113.5 | 150 | 48 | 120.9 |
| | 4.101.050150.85HV22.25... | 50×150 | 25 | 138 | 36 | 400 | 1,719 | 150 | 72 | 113.5 | 150 | 56 | 141.2 |
| | 4.101.080160.124HV22.12... | 80×160 | 12 | 152 | 22 | 446 | 1,536 | 100 | 40 | 62.5 | 150 | 56 | 141.2 |
| | 4.101.080160.124HV22.16... | 80×160 | 16 | 154 | 26 | 519 | 1,651 | 100 | 44 | 68.9 | 150 | 56 | 141.2 |
| | 4.101.080160.124HV22.20... | 80×160 | 20 | 152 | 32 | 656 | 1,941 | 100 | 48 | 75.3 | | 64 | 161.6 |
| | 4.101.080160.124HV22.25... | 80×160 | 25 | 148 | 36 | 814 | 2,168 | | | | | 64 | 161.6 |
| | 4.101.100200.124HV22.12... | 100×200 | 12 | 192 | 22 | 1,040 | 3,530 | 100 | 40 | 62.5 | | 64 | 161.6 |
| | 4.101.100200.124HV22.16... | 100×200 | 16 | 194 | 26 | 1,147 | 3,711 | 100 | 48 | 75.3 | | 64 | 161.6 |
| | 4.101.100200.124HV22.20... | 100×200 | 20 | 192 | 32 | 1,359 | 4,176 | 100 | 48 | 75.3 | | 72 | 182.0 |
| | 4.101.100200.124HV22.25... | 100×200 | 25 | 188 | 36 | 1,603 | 4,550 | 100 | 48 | 75.3 | | 72 | 182.0 |
|  | 4.101.100200.124VV22.12... | 100×200 | 12 | 92 | 22 | 3,531 | 988 | 100 | 60 | 94.4 | 150 | 38 | 95.4 |
| | 4.101.100200.124VV22.16... | 100×200 | 16 | 94 | 26 | 3,792 | 1,032 | 100 | 60 | 94.4 | 100 | 36 | 90.3 |
| | 4.101.100200.124VV22.20... | 100×200 | 20 | 92 | 32 | 4,340 | 1,138 | 150 | 72 | 113.5 | 150 | 44 | 110.7 |
| | 4.101.100200.124VV22.25... | 100×200 | 25 | 88 | 36 | 4,901 | 1,213 | 150 | 72 | 113.5 | 150 | 48 | 120.9 |

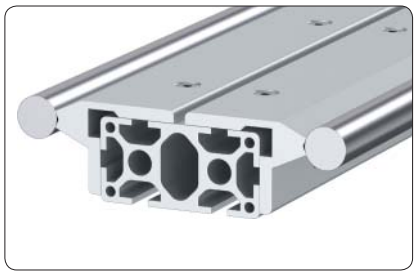


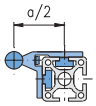
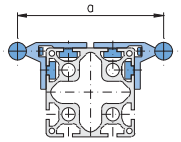
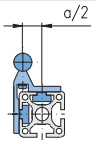
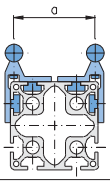
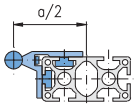
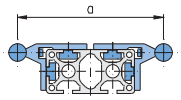
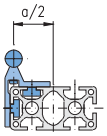
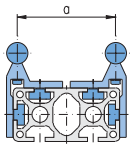
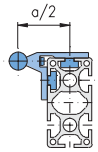
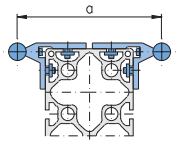
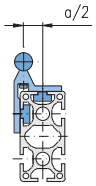
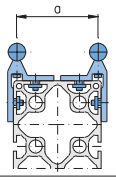

WD = diameter of shaft guidance
AB = width of drive unit
ARB = belt width of drive unit
H2 = heigth from shaft center to upper edge of carriage
SB = width of carriage
SC = center distance from ball bearing to carriage
SLW = clear width of carriage

| Carriage | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ball bearing guide | | | | | | | | | | Wheel guide | | | | | | | | | | |
| Return of belt | | | | | | | | | | Return of belt | | | | | | | | | | |
| 5M | | 8M | | | | | | | | 5M | | 8M | | | | | | | | |
| 15 | 25 | 20 | 30 | 50 | SLW | AB | SB | ARB | H2 | 15 | 25 | 20 | 30 | 50 | SC | AB | SB | ARB | H2 |
| | | | | | | | | | | I | | | | | 125.5 | 76 | 176 | 15 | 65 |
| | | | | | | | | | | I | | I | | | 147 | 77 | 217 | 20 | 65 |
| | | | | | | | | | | I | | | | | 164 | 74 | 254 | 15 | 72 |
| | | | | | | | | | | I | | | | | 165 | 75 | 255 | 15 | 72 |
| | | | | | | | | | | A | | | | | 125.5 | 76 | 176 | 15 | 65 |
| | | | | | | | | | | | | A | | | 147 | 77 | 217 | 20 | 65 |
| | | | | | | | | | | I | I | I | | | 135.5 | 86 | 186 | 25 | 65 |
| | | | | | | | | | | I | I | I | I | | 157 | 87 | 227 | 30 | 65 |
| | | | | | | | | | | I | I | I | | | 174 | 84 | 264 | 25 | 72 |
| | | | | | | | | | | I | I | I | | | 175 | 85 | 265 | 25 | 72 |
| | | | | | | | | | | A | A | A | | | 135.5 | 86 | 186 | 25 | 65 |
| | | | | | | | | | | A | A | A | A | | 157 | 87 | 227 | 30 | 65 |
| A | A | A | A | | 99 | 95 | 188 | 30 | 65 | A | A | A | A | A | 185.5 | 136 | 236 | 75 | 65 |
| A | A | A | A | | 91 | 95 | 200 | 30 | 65 | A | A | A | A | A | 207 | 137 | 277 | 75 | 65 |
| A | | | | | 69 | 70 | 158 | 15 | 65 | A | A | A | A | A | 155.5 | 106 | 206 | 50 | 65 |
| A | | | | | 61 | 65 | 170 | 15 | 65 | A | A | A | A | A | 177 | 107 | 247 | 50 | 65 |
| | | | | | | | | | | A | A | A | A | A | 194 | 104 | 284 | 45 | 72 |
| | | | | | | | | | | A | A | A | A | A | 195 | 105 | 285 | 45 | 72 |
| I | | A | A | A | 109 | 105 | 198 | 50 | 65 | I | | A | A | A | 195.5 | 146 | 246 | 85 | 65 |
| I | | A | A | | 101 | 100 | 210 | 45 | 65 | I | | A | A | A | 217 | 147 | 287 | 85 | 65 |
| A | A | A | A | | 92 | 95 | 215 | 30 | 72 | A | A | A | A | A | 234 | 144 | 324 | 85 | 72 |
| A | | | | | 70 | 70 | 229 | 15 | 72 | A | A | A | A | A | 235 | 145 | 325 | 85 | 72 |
| | | | | | | | | | | I | | | | | 125.5 | 76 | 176 | 15 | 65 |
| | | | | | | | | | | I | | A | | | 147 | 77 | 217 | 20 | 65 |
| | | | | | | | | | | I | | | | | 164 | 74 | 254 | 15 | 72 |
| | | | | | | | | | | I | | | | | 165 | 75 | 255 | 15 | 72 |
| | | | | | | | | | | A | A | A | | | 135.5 | 86 | 186 | 25 | 65 |
| | | | | | | | | | | I | I | A | A | | 157 | 87 | 227 | 30 | 65 |
| | | | | | | | | | | I | I | I | | | 174 | 84 | 264 | 25 | 72 |
| | | | | | | | | | | A | A | A | | | 175 | 85 | 265 | 25 | 72 |
| A | A | A | A | | 99 | 95 | 188 | 40 | 65 | A | A | A | A | A | 185.5 | 136 | 236 | 75 | 65 |
| A | A | A | A | | 91 | 90 | 200 | 30 | 65 | A | A | A | A | A | 207 | 137 | 277 | 75 | 65 |
| A | A | A | | | 82 | 80 | 205 | 25 | 72 | A | A | A | A | A | 224 | 134 | 314 | 75 | 72 |
| | | | | | | | | | | A | A | A | A | A | 225 | 135 | 315 | 75 | 72 |
| I | | A | A | A | 109 | 105 | 198 | 50 | 65 | I | | A | A | A | 195.5 | 146 | 246 | 85 | 65 |
| I | | A | A | | 101 | 100 | 210 | 45 | 65 | I | | A | A | A | 217 | 147 | 287 | 85 | 65 |
| I | | A | A | | 92 | 95 | 215 | 30 | 72 | I | | A | A | A | 234 | 144 | 324 | 85 | 72 |
| | | | | | 70 | 70 | 229 | 15 | 72 | | | | | | 235 | 145 | 325 | 85 | 72 |
| I | I | A | A | A | 149 | 145 | 238 | 90 | 65 | I | I | A | A | A | 235.5 | 186 | 286 | 125 | 65 |
| I | I | A | A | A | 141 | 140 | 250 | 85 | 65 | I | I | A | A | A | 257 | 187 | 327 | 130 | 65 |
| I | I | A | A | A | 132 | 130 | 255 | 70 | 72 | I | I | A | A | A | 274 | 184 | 364 | 125 | 72 |
| A | A | A | A | A | 110 | 105 | 269 | 50 | 72 | A | A | A | A | A | 275 | 185 | 365 | 125 | 72 |
| | | | | | | | | | | I | I | I | | | 135.5 | 86 | 186 | 25 | 65 |
| | | | | | | | | | | I | I | I | I | | 157 | 87 | 227 | 30 | 65 |
| | | | | | | | | | | I | I | I | | | 174 | 84 | 264 | 25 | 72 |
| | | | | | | | | | | I | I | I | | | 175 | 85 | 265 | 25 | 72 |

## Construction form



**Position**
N = neutral
H = horizontal
V = vertical

| | Position | | Shaft guidance | |
|---|---|---|---|---|
| | Base | Shaft profile | single sided | double sided |
| **NH** (neutral, horizontal) | N | H |  1) |  |
| **NV** (neutral, vertical) | N | V |  1) |  |
| **HH** (horizontal, horizontal) | H | H |  2) |  |
| **HV** (horizontal, vertical) | H | V |  3) |  |
| **VH** (vertical, horizontal) | V | H |  3) |  |
| **VV** (vertical, vertical) | V | V |  2) |  |

1), 2), 3): identical

## Linear shaft guidance, complete

| | | |
|---|---|---|
| **4.119.00.□□□□□□. □□□□□□□□ .□□. □ / □□□□** | **Key** | |
| 4.119.00.□□□□□□. □□□□□□□□ .□□. □ / □□□□ | Profile | • dimension |
| 4.119.00.□□□□□□. □□□□□□□□ .□□. □ / □□□□ | | • orientation [1] |
| 4.119.00.□□□□□□. □□□□□□□□ .□□. □ / □□□□ | Shaft | • orientation [2] |
| 4.119.00.□□□□□□. □□□□□□□□ .□□. □ / □□□□ | | • number [3] |
| 4.119.00.□□□□□□. □□□□□□□□ .□□. □ / □□□□ | | • assembly [4] |
| 4.119.00.□□□□□□. □□□□□□□□ .□□. □ / □□□□ | | • Ø |
| 4.119.00.□□□□□□. □□□□□□□□ .□□. □ / □□□□ | | • material [5] |
| 4.119.00.□□□□□□. □□□□□□□□ .□□. □ / □□□□ | Length | |

[1] H = horizontal
N = neutral
V = vertical

[2] H = horizontal
V = vertical

[3] 1 = single sided
2 = double sided

[4] 2 = with guide profile

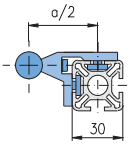
[5]

| | Shaft | mounting elements |
|---|---|---|
| 1 = | tempering steel | steel, galvanised |
| 2 = | X46Cr13 | steel, galvanised |
| 3 = | X46Cr13 | VA |

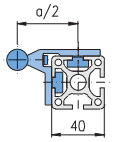
## LWF-1 complete
**(Linear shaft guidance, single sided)**

**Legend**
Descr. = description
Dim. = dimension
L1 = orientation of base profile
L2 = orientation of linear shaft guidance
Ø = diameter of shaft in mm
a = axle distance in mm
Ix, Iy = moment of inertia in $cm^4$
G = weight in kg/m

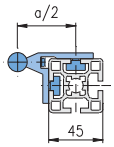
**Orientation**
N = neutral
H = horizontal
V = vertical



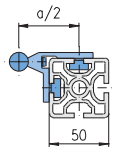

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 30×30 | N | H | 12 | 37 | 9 | 20 | 3.0 | 4.119.00.030030.43NH12.12... |
| LWF-1 | 30×30 | N | H | 16 | 41 | 9 | 31 | 3.7 | 4.119.00.030030.43NH12.16... |



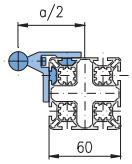

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 40×40 | N | H | 12 | 42 | 24 | 40 | 4.2 | 4.119.00.040040.43NH12.12... |
| LWF-1 | 40×40 | N | H | 16 | 46 | 25 | 56 | 4.9 | 4.119.00.040040.43NH12.16... |
| LWF-1 | 40×40 | N | H | 20 | 52 | 29 | 85 | 6.2 | 4.119.00.040040.43NH12.20... |
| LWF-1 | 40×40 | N | H | 25 | 56 | 30 | 119 | 7.8 | 4.119.00.040040.43NH12.25... |



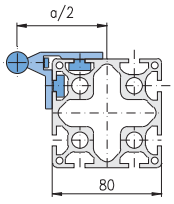

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 45×45 | N | H | 12 | 44.5 | 32 | 50 | 4.5 | 4.119.00.045045.43NH12.12... |
| LWF-1 | 45×45 | N | H | 16 | 48.5 | 34 | 68 | 5.2 | 4.119.00.045045.43NH12.16... |
| LWF-1 | 45×45 | N | H | 20 | 54.5 | 37 | 100 | 6.5 | 4.119.00.045045.43NH12.20... |
| LWF-1 | 45×45 | N | H | 25 | 58.5 | 39 | 138 | 8.1 | 4.119.00.045045.43NH12.25... |



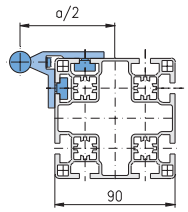

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 50×50 | N | H | 12 | 47 | 46 | 67 | 5.3 | 4.119.00.050050.43NH12.12... |
| LWF-1 | 50×50 | N | H | 16 | 51 | 49 | 88 | 6.0 | 4.119.00.050050.43NH12.16... |
| LWF-1 | 50×50 | N | H | 20 | 57 | 54 | 126 | 7.3 | 4.119.00.050050.43NH12.20... |
| LWF-1 | 50×50 | N | H | 25 | 61 | 56 | 172 | 8.9 | 4.119.00.050050.43NH12.25... |



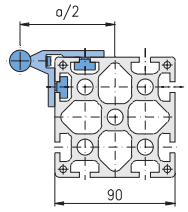

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 60×60 L | N | H | 12 | 52 | 64 | 87 | 4.7 | 4.119.00.060060.83LNH12.12... |
| LWF-1 | 60×60 L | N | H | 16 | 56 | 64 | 108 | 5.5 | 4.119.00.060060.83LNH12.16... |



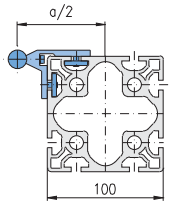

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 80×80 | N | H | 12 | 62 | 205 | 239 | 8.1 | 4.119.00.080080.83NH12.12... |
| LWF-1 | 80×80 | N | H | 16 | 66 | 209 | 272 | 8.8 | 4.119.00.080080.83NH12.16... |
| LWF-1 | 80×80 | N | H | 20 | 72 | 232 | 350 | 10.1 | 4.119.00.080080.83NH12.20... |
| LWF-1 | 80×80 | N | H | 25 | 76 | 241 | 435 | 11.7 | 4.119.00.080080.83NH12.25... |



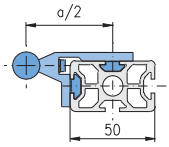

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 90×90 L | N | H | 12 | 67 | 252 | 210 | 7.5 | 4.119.00.090090.83LNH12.12... |
| LWF-1 | 90×90 L | N | H | 16 | 71 | 280 | 350 | 8.2 | 4.119.00.090090.83LNH12.16... |
| LWF-1 | 90×90 L | N | H | 20 | 77 | 302 | 432 | 9.5 | 4.119.00.090090.83LNH12.20... |
| LWF-1 | 90×90 L | N | H | 25 | 81 | 316 | 524 | 11.1 | 4.119.00.090090.83LNH12.25... |



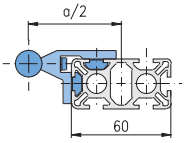

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 90×90 | N | H | 12 | 67 | 346 | 386 | 11.7 | 4.119.00.090090.83NH12.12... |
| LWF-1 | 90×90 | N | H | 16 | 71 | 36 | 437 | 12.4 | 4.119.00.090090.83NH12.16... |
| LWF-1 | 90×90 | N | H | 20 | 77 | 386 | 527 | 13.7 | 4.119.00.090090.83NH12.20... |
| LWF-1 | 90×90 | N | H | 25 | 81 | 402 | 637 | 15.3 | 4.119.00.090090.83NH12.25... |



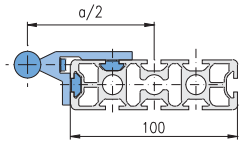

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 100×100 | N | H | 12 | 72 | 479 | 523 | 11.9 | 4.119.00.100100.83NH12.12... |
| LWF-1 | 100×100 | N | H | 16 | 76 | 496 | 577 | 12.6 | 4.119.00.100100.83NH12.16... |
| LWF-1 | 100×100 | N | H | 20 | 82 | 531 | 684 | 13.9 | 4.119.00.100100.83NH12.20... |
| LWF-1 | 100×100 | N | H | 25 | 86 | 552 | 808 | 15.5 | 4.119.00.100100.83NH12.25... |



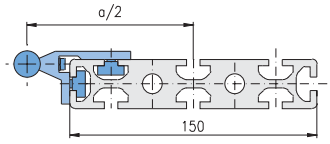

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 30×50 | H | H | 12 | 47 | 13 | 51 | 4.1 | 4.119.00.030050.44HH12.12... |
| LWF-1 | 30×50 | H | H | 16 | 51 | 14 | 69 | 4.7 | 4.119.00.030050.44HH12.16... |



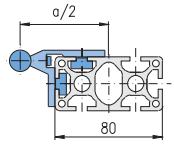

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 30×60 | H | H | 12 | 52 | 13 | 68 | 4.2 | 4.119.00.030060.64HH12.12... |
| LWF-1 | 30×60 | H | H | 16 | 56 | 14 | 87 | 4.8 | 4.119.00.030060.64HH12.16... |



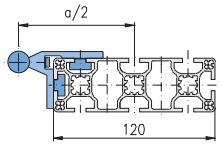

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 30×100 | H | H | 12 | 72 | 19 | 220 | 5.5 | 4.119.00.030100.84HH12.12... |
| LWF-1 | 30×100 | H | H | 16 | 76 | 20 | 260 | 6.1 | 4.119.00.030100.84HH12.16... |



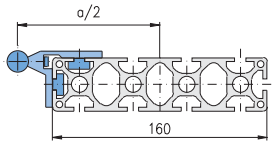

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 30×150 | H | H | 12 | 97 | 33 | 733 | 10.0 | 4.119.00.030150.84HH12.12... |
| LWF-1 | 30×150 | H | H | 16 | 101 | 34 | 819 | 10.6 | 4.119.00.030150.84HH12.16... |



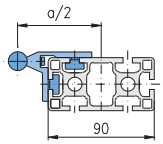

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 40×80 | H | H | 12 | 62 | 36 | 160 | 6.0 | 4.119.00.040080.65HH12.12... |
| LWF-1 | 40×80 | H | H | 16 | 66 | 38 | 193 | 6.7 | 4.119.00.040080.65HH12.16... |
| LWF-1 | 40×80 | H | H | 20 | 72 | 42 | 252 | 8.0 | 4.119.00.040080.65HH12.20... |
| LWF-1 | 40×80 | H | H | 25 | 76 | 44 | 320 | 9.6 | 4.119.00.040080.65HH12.25... |



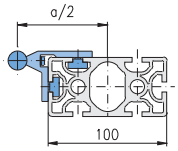

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 40×120 | L | H | 12 | 82 | 39 | 351 | 5.9 | 4.119.00.040120.84LHH12.12... |
| LWF-1 | 40×120 | L | H | 16 | 86 | 41 | 400 | 6.6 | 4.119.00.040120.84LHH12.16... |
| LWF-1 | 40×120 | L | H | 20 | 92 | 45 | 491 | 7.9 | 4.119.00.040120.84LHH12.20... |
| LWF-1 | 40×120 | L | H | 25 | 96 | 46 | 589 | 9.5 | 4.119.00.040120.84LHH12.25... |



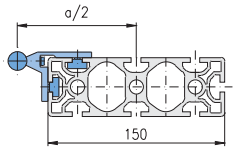

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 40×160 | L | H | 12 | 102 | 50 | 764 | 7.8 | 4.119.00.040160.104LHH12.12... |
| LWF-1 | 40×160 | L | H | 16 | 106 | 52 | 846 | 8.5 | 4.119.00.040160.104LHH12.16... |
| LWF-1 | 40×160 | L | H | 20 | 112 | 57 | 1,007 | 9.8 | 4.119.00.040160.104LHH12.20... |
| LWF-1 | 40×160 | L | H | 25 | 116 | 58 | 1,174 | 11.4 | 4.119.00.040160.104LHH12.25... |



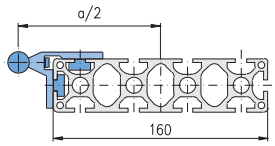

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 45×90 | H | H | 12 | 67 | 50 | 226 | 6.6 | 4.119.00.045090.64HH12.12... |
| LWF-1 | 45×90 | H | H | 16 | 71 | 53 | 268 | 7.3 | 4.119.00.045090.64HH12.16... |
| LWF-1 | 45×90 | H | H | 20 | 77 | 58 | 337 | 8.6 | 4.119.00.045090.64HH12.20... |
| LWF-1 | 45×90 | H | H | 25 | 81 | 60 | 420 | 10.2 | 4.119.00.045090.64HH12.25... |



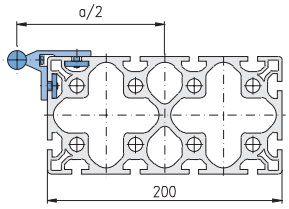

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 50×100 | H | H | 12 | 72 | 76 | 324 | 8.1 | 4.119.00.050100.65HH12.12... |
| LWF-1 | 50×100 | H | H | 16 | 76 | 80 | 371 | 8.8 | 4.119.00.050100.65HH12.16... |
| LWF-1 | 50×100 | H | H | 20 | 82 | 87 | 462 | 10.1 | 4.119.00.050100.65HH12.20... |
| LWF-1 | 50×100 | H | H | 25 | 86 | 89 | 565 | 11.7 | 4.119.00.050100.65HH12.25... |



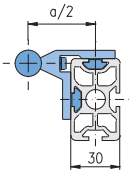

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 50×150 | H | H | 12 | 97 | 103 | 894 | 10.3 | 4.119.00.050150.85HH12.12... |
| LWF-1 | 50×150 | H | H | 16 | 101 | 107 | 979 | 11.0 | 4.119.00.050150.85HH12.16... |
| LWF-1 | 50×150 | H | H | 20 | 107 | 115 | 1,151 | 12.3 | 4.119.00.050150.85HH12.20... |
| LWF-1 | 50×150 | H | H | 25 | 111 | 118 | 1,334 | 13.9 | 4.119.00.050150.85HH12.25... |



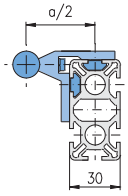

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 80×160 | H | H | 12 | 102 | 330 | 1,227 | 12.7 | 4.119.00.080160.124HH12.12... |
| LWF-1 | 80×160 | H | H | 16 | 106 | 340 | 1,324 | 13.4 | 4.119.00.080160.124HH12.16... |
| LWF-1 | 80×160 | H | H | 20 | 112 | 362 | 1,527 | 14.7 | 4.119.00.080160.124HH12.20... |
| LWF-1 | 80×160 | H | H | 25 | 116 | 375 | 1,743 | 16.3 | 4.119.00.080160.124HH12.25... |



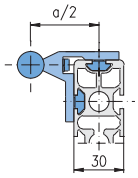

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 100×200 | H | H | 12 | 122 | 858 | 3,044 | 19.7 | 4.119.00.100200.124HH12.12... |
| LWF-1 | 100×200 | H | H | 16 | 126 | 877 | 3,193 | 20.4 | 4.119.00.100200.124HH12.16... |
| LWF-1 | 100×200 | H | H | 20 | 132 | 919 | 3,519 | 21.7 | 4.119.00.100200.124HH12.20... |
| LWF-1 | 100×200 | H | H | 25 | 136 | 946 | 3,863 | 23.3 | 4.119.00.100200.124HH12.25... |



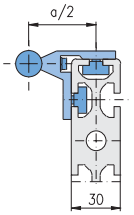

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 30×50 | V | H | 12 | 37 | 32 | 26 | 4.1 | 4.119.00.030050.44VH12.12... |
| LWF-1 | 30×50 | V | H | 16 | 41 | 34 | 39 | 4.7 | 4.119.00.030050.44VH12.16... |



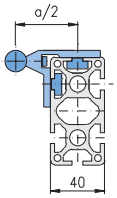

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 30×60 | V | H | 12 | 37 | 46 | 27 | 4.2 | 4.119.00.030060.64VH12.12... |
| LWF-1 | 30×60 | V | H | 16 | 41 | 49 | 40 | 4.8 | 4.119.00.030060.64VH12.16... |



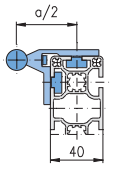

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 30×100 | V | H | 12 | 37 | 183 | 34 | 5.5 | 4.119.00.030100.84VH12.12... |
| LWF-1 | 30×100 | V | H | 16 | 41 | 193 | 49 | 6.1 | 4.119.00.030100.84VH12.16... |



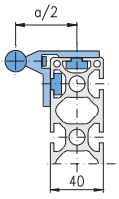

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 30×150 | V | H | 12 | 37 | 672 | 50 | 10.0 | 4.119.00.030150.84VH12.12... |
| LWF-1 | 30×150 | V | H | 16 | 41 | 707 | 68 | 10.6 | 4.119.00.030150.84VH12.16... |



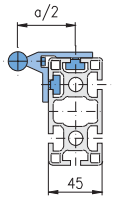

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 40×80 | V | H | 12 | 42 | 129 | 55 | 6.0 | 4.119.00.040080.65VH12.12... |
| LWF-1 | 40×80 | V | H | 16 | 46 | 136 | 74 | 6.7 | 4.119.00.040080.65VH12.16... |
| LWF-1 | 40×80 | V | H | 20 | 52 | 150 | 110 | 8.0 | 4.119.00.040080.65VH12.20... |
| LWF-1 | 40×80 | V | H | 25 | 56 | 156 | 153 | 9.6 | 4.119.00.040080.65VH12.25... |



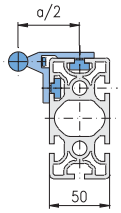

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 40×120 L | V | H | 12 | 42 | 308 | 57 | 5.9 | 4.119.00.040120.84LVH12.12... |
| LWF-1 | 40×120 L | V | H | 16 | 46 | 323 | 76 | 6.6 | 4.119.00.040120.84LVH12.16... |
| LWF-1 | 40×120 L | V | H | 20 | 52 | 112 | 354 | 7.9 | 4.119.00.040120.84LVH12.20... |
| LWF-1 | 40×120 L | V | H | 25 | 56 | 370 | 156 | 9.5 | 4.119.00.040120.84LVH12.25... |



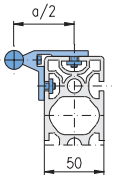

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 40×160 L | V | H | 12 | 42 | 704 | 70 | 7.8 | 4.119.00.040160.104LVH12.12... |
| LWF-1 | 40×160 L | V | H | 16 | 46 | 737 | 91 | 8.5 | 4.119.00.040160.104LVH12.16... |
| LWF-1 | 40×160 L | V | H | 20 | 52 | 810 | 131 | 9.8 | 4.119.00.040160.104LVH12.20... |
| LWF-1 | 40×160 L | V | H | 25 | 56 | 855 | 181 | 11.4 | 4.119.00.040160.104LVH12.25... |



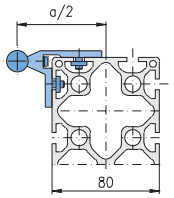

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 45×90 | V | H | 12 | 44.5 | 191 | 71 | 6.6 | 4.119.00.045090.64VH12.12... |
| LWF-1 | 45×90 | V | H | 16 | 48.5 | 200 | 92 | 7.3 | 4.119.00.045090.64VH12.16... |
| LWF-1 | 45×90 | V | H | 20 | 54.5 | 220 | 133 | 8.6 | 4.119.00.045090.64VH12.20... |
| LWF-1 | 45×90 | V | H | 25 | 58.5 | 229 | 183 | 10.2 | 4.119.00.045090.64VH12.25... |



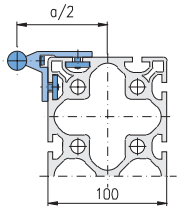

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 50×100 | V | H | 12 | 47 | 283 | 100 | 8.1 | 4.119.00.050100.65VH12.12... |
| LWF-1 | 50×100 | V | H | 16 | 51 | 297 | 124 | 8.8 | 4.119.00.050100.65VH12.16... |
| LWF-1 | 50×100 | V | H | 20 | 57 | 325 | 172 | 10.1 | 4.119.00.050100.65VH12.20... |
| LWF-1 | 50×100 | V | H | 25 | 61 | 340 | 230 | 11.7 | 4.119.00.050100.65VH12.25... |



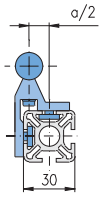

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 50×150 | V | H | 12 | 47 | 833 | 128 | 10.3 | 4.119.00.050150.85VH12.12... |
| LWF-1 | 50×150 | V | H | 16 | 51 | 868 | 154 | 11.0 | 4.119.00.050150.85VH12.16... |
| LWF-1 | 50×150 | V | H | 20 | 57 | 945 | 206 | 12.3 | 4.119.00.050150.85VH12.20... |
| LWF-1 | 50×150 | V | H | 25 | 61 | 995 | 271 | 13.9 | 4.119.00.050150.85VH12.25... |



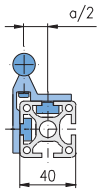

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 80×160 | V | H | 12 | 62 | 1,160 | 366 | 12.7 | 4.119.00.080160.124VH12.12... |
| LWF-1 | 80×160 | V | H | 16 | 66 | 1,202 | 409 | 13.4 | 4.119.00.080160.124VH12.16... |
| LWF-1 | 80×160 | V | H | 20 | 72 | 1,299 | 493 | 14.7 | 4.119.00.080160.124VH12.20... |
| LWF-1 | 80×160 | V | H | 25 | 76 | 1,365 | 594 | 16.3 | 4.119.00.080160.124VH12.25... |



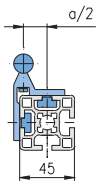

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 100×200 | V | H | 12 | 72 | 2,958 | 904 | 19.7 | 4.119.00.100200.124VH12.12... |
| LWF-1 | 100×200 | V | H | 16 | 76 | 3,034 | 964 | 20.4 | 4.119.00.100200.124VH12.16... |
| LWF-1 | 100×200 | V | H | 20 | 82 | 3,218 | 1,087 | 21.7 | 4.119.00.100200.124VH12.20... |
| LWF-1 | 100×200 | V | H | 25 | 86 | 3,355 | 1,232 | 23.3 | 4.119.00.100200.124VH12.25... |



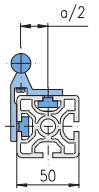

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 30×30 | N | V | 12 | 11 | 20 | 9 | 3.0 | 4.119.00.030030.43NV12.12... |
| LWF-1 | 30×30 | N | V | 16 | 12 | 31 | 9 | 3.7 | 4.119.00.030030.43NV12.16... |



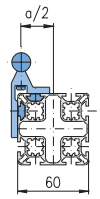

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 40×40 | N | V | 12 | 16 | 40 | 24 | 4.2 | 4.119.00.040040.43NV12.12... |
| LWF-1 | 40×40 | N | V | 16 | 17 | 56 | 25 | 4.9 | 4.119.00.040040.43NV12.16... |
| LWF-1 | 40×40 | N | V | 20 | 16 | 85 | 29 | 6.2 | 4.119.00.040040.43NV12.20... |
| LWF-1 | 40×40 | N | V | 25 | 14 | 119 | 30 | 7.8 | 4.119.00.040040.43NV12.25... |



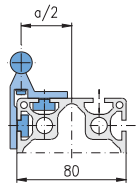

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 45×45 | N | V | 12 | 18.5 | 50 | 32 | 4.5 | 4.119.00.045045.43NV12.12... |
| LWF-1 | 45×45 | N | V | 16 | 19.5 | 68 | 34 | 5.2 | 4.119.00.045045.43NV12.16... |
| LWF-1 | 45×45 | N | V | 20 | 18.5 | 100 | 37 | 6.5 | 4.119.00.045045.43NV12.20... |
| LWF-1 | 45×45 | N | V | 25 | 16.5 | 138 | 39 | 8.1 | 4.119.00.045045.43NV12.25... |



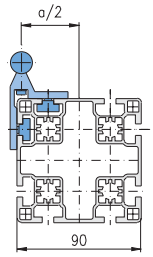

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 50×50 | N | V | 12 | 21 | 67 | 46 | 5.3 | 4.119.00.050050.43NV12.12... |
| LWF-1 | 50×50 | N | V | 16 | 22 | 88 | 49 | 6.0 | 4.119.00.050050.43NV12.16... |
| LWF-1 | 50×50 | N | V | 20 | 21 | 126 | 54 | 7.3 | 4.119.00.050050.43NV12.20... |
| LWF-1 | 50×50 | N | V | 25 | 19 | 172 | 56 | 8.9 | 4.119.00.050050.43NV12.25... |



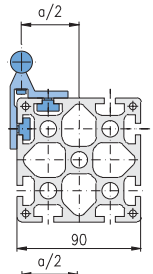

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 60×60 L | N | V | 12 | 26 | 87 | 64 | 4.7 | 4.119.00.060060.83LNV12.12... |
| LWF-1 | 60×60 L | N | V | 16 | 27 | 108 | 64 | 5.5 | 4.119.00.060060.83LNV12.16... |



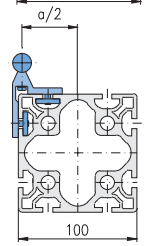

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 80×80 | N | V | 12 | 36 | 239 | 205 | 8.1 | 4.119.00.080080.83NV12.12... |
| LWF-1 | 80×80 | N | V | 16 | 37 | 272 | 209 | 8.8 | 4.119.00.080080.83NV12.16... |
| LWF-1 | 80×80 | N | V | 20 | 36 | 350 | 232 | 10.1 | 4.119.00.080080.83NV12.20... |
| LWF-1 | 80×80 | N | V | 25 | 34 | 435 | 241 | 11.7 | 4.119.00.080080.83NV12.25... |



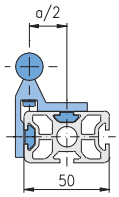

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 90×90 L | N | V | 12 | 41 | 290 | 252 | 7.5 | 4.119.00.090090.83LNV12.12... |
| LWF-1 | 90×90 L | N | V | 16 | 41 | 350 | 280 | 8.2 | 4.119.00.090090.83LNV12.16... |
| LWF-1 | 90×90 L | N | V | 20 | 41 | 432 | 302 | 9.5 | 4.119.00.090090.83LNV12.20... |
| LWF-1 | 90×90 L | N | V | 25 | 39 | 524 | 316 | 11.1 | 4.119.00.090090.83LNV12.25... |



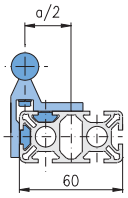

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 90×90 | N | V | 12 | 41 | 386 | 346 | 11.7 | 4.119.00.090090.83NV12.12... |
| LWF-1 | 90×90 | N | V | 16 | 41 | 437 | 360 | 12.4 | 4.119.00.090090.83NV12.16... |
| LWF-1 | 90×90 | N | V | 20 | 41 | 527 | 386 | 13.7 | 4.119.00.090090.83NV12.20... |
| LWF-1 | 90×90 | N | V | 25 | 39 | 637 | 402 | 15.3 | 4.119.00.090090.83NV12.25... |



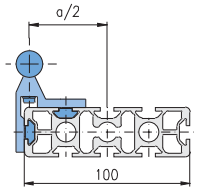

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 100×100 | N | V | 12 | 46 | 523 | 479 | 11.9 | 4.119.00.100100.83NV12.12... |
| LWF-1 | 100×100 | N | V | 16 | 47 | 577 | 496 | 12.6 | 4.119.00.100100.83NV12.16... |
| LWF-1 | 100×100 | N | V | 20 | 46 | 684 | 531 | 13.9 | 4.119.00.100100.83NV12.20... |
| LWF-1 | 100×100 | N | V | 25 | 44 | 808 | 552 | 15.5 | 4.119.00.100100.83NV12.25... |



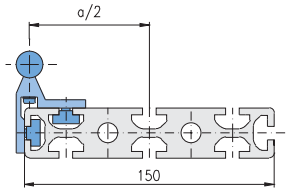

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 30×50 | H | V | 12 | 21 | 26 | 32 | 4.1 | 4.119.00.030050.44HV12.12... |
| LWF-1 | 30×50 | H | V | 16 | 22 | 39 | 34 | 4.7 | 4.119.00.030050.44HV12.16... |



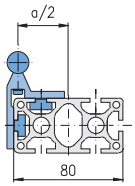

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 30×60 | H | V | 12 | 26 | 27 | 46 | 4.2 | 4.119.00.030060.64HV12.12... |
| LWF-1 | 30×60 | H | V | 16 | 27 | 40 | 49 | 4.8 | 4.119.00.030060.64HV12.16... |



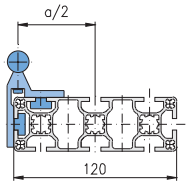

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 30×100 | H | V | 12 | 46 | 34 | 183 | 5.5 | 4.119.00.030100.84HV12.12... |
| LWF-1 | 30×100 | H | V | 16 | 47 | 49 | 193 | 6.1 | 4.119.00.030100.84HV12.16... |



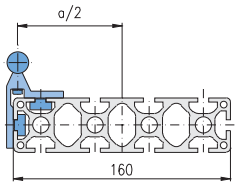

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 30×150 | H | V | 12 | 71 | 50 | 672 | 10.0 | 4.119.00.030150.84HV12.12... |
| LWF-1 | 30×150 | H | V | 16 | 72 | 68 | 707 | 10.6 | 4.119.00.030150.84HV12.16... |



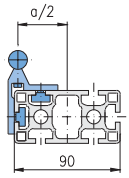

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 40×80 | H | V | 12 | 36 | 55 | 129 | 6.0 | 4.119.00.040080.65HV12.12... |
| LWF-1 | 40×80 | H | V | 16 | 37 | 74 | 136 | 6.7 | 4.119.00.040080.65HV12.16... |
| LWF-1 | 40×80 | H | V | 20 | 36 | 110 | 150 | 8.0 | 4.119.00.040080.65HV12.20... |
| LWF-1 | 40×80 | H | V | 25 | 34 | 153 | 156 | 9.6 | 4.119.00.040080.65HV12.25... |



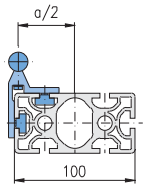

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 40×120 L | H | V | 12 | 56 | 57 | 308 | 5.9 | 4.119.00.040120.84LHV12.12... |
| LWF-1 | 40×120 L | H | V | 16 | 57 | 76 | 323 | 6.6 | 4.119.00.040120.84LHV12.16... |
| LWF-1 | 40×120 L | H | V | 20 | 56 | 354 | 112 | 7.9 | 4.119.00.040120.84LHV12.20... |
| LWF-1 | 40×120 L | H | V | 25 | 54 | 156 | 370 | 9.5 | 4.119.00.040120.84LHV12.25... |



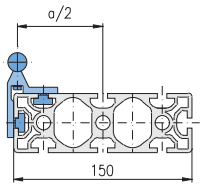

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 40×160 L | H | V | 12 | 76 | 70 | 704 | 7.8 | 4.119.00.040160.104LHV12.12... |
| LWF-1 | 40×160 L | H | V | 16 | 77 | 91 | 737 | 8.5 | 4.119.00.040160.104LHV12.16... |
| LWF-1 | 40×160 L | H | V | 20 | 76 | 131 | 810 | 9.8 | 4.119.00.040160.104LHV12.20... |
| LWF-1 | 40×160 L | H | V | 25 | 74 | 181 | 855 | 11.4 | 4.119.00.040160.104LHV12.25... |



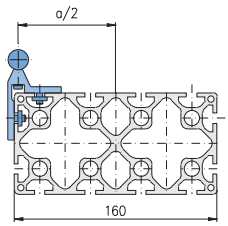

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 45×90 | H | V | 12 | 41 | 71 | 191 | 6.6 | 4.119.00.045090.64HV12.12... |
| LWF-1 | 45×90 | H | V | 16 | 42 | 92 | 200 | 7.3 | 4.119.00.045090.64HV12.16... |
| LWF-1 | 45×90 | H | V | 20 | 41 | 133 | 220 | 8.6 | 4.119.00.045090.64HV12.20... |
| LWF-1 | 45×90 | H | V | 25 | 39 | 183 | 229 | 10.2 | 4.119.00.045090.64HV12.25... |



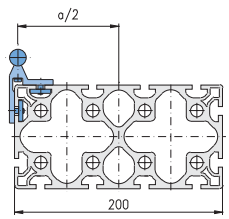

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 50×100 | H | V | 12 | 46 | 100 | 283 | 8.1 | 4.119.00.050100.65HV12.12... |
| LWF-1 | 50×100 | H | V | 16 | 47 | 124 | 297 | 8.8 | 4.119.00.050100.65HV12.16... |
| LWF-1 | 50×100 | H | V | 20 | 46 | 172 | 325 | 10.1 | 4.119.00.050100.65HV12.20... |
| LWF-1 | 50×100 | H | V | 25 | 44 | 230 | 340 | 11.7 | 4.119.00.050100.65HV12.25... |



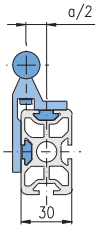

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 50×150 | H | V | 12 | 71 | 128 | 833 | 10.3 | 4.119.00.050150.85HV12.12... |
| LWF-1 | 50×150 | H | V | 16 | 72 | 154 | 868 | 11.0 | 4.119.00.050150.85HV12.16... |
| LWF-1 | 50×150 | H | V | 20 | 71 | 206 | 945 | 12.3 | 4.119.00.050150.85HV12.20... |
| LWF-1 | 50×150 | H | V | 25 | 69 | 271 | 995 | 13.9 | 4.119.00.050150.85HV12.25... |



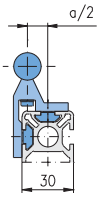

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 80×160 | H | V | 12 | 76 | 366 | 1,160 | 12.7 | 4.119.00.080160.124HV12.12... |
| LWF-1 | 80×160 | H | V | 16 | 77 | 409 | 1,202 | 13.4 | 4.119.00.080160.124HV12.16... |
| LWF-1 | 80×160 | H | V | 20 | 76 | 493 | 1,299 | 14.7 | 4.119.00.080160.124HV12.20... |
| LWF-1 | 80×160 | H | V | 25 | 74 | 594 | 1,365 | 16.3 | 4.119.00.080160.124HV12.25... |



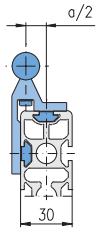

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 100×200 | H | V | 12 | 96 | 904 | 2,958 | 19.7 | 4.119.00.100200.124HV12.12... |
| LWF-1 | 100×200 | H | V | 16 | 97 | 964 | 3,034 | 20.4 | 4.119.00.100200.124HV12.16... |
| LWF-1 | 100×200 | H | V | 20 | 96 | 1,087 | 3,218 | 21.7 | 4.119.00.100200.124HV12.20... |
| LWF-1 | 100×200 | H | V | 25 | 94 | 1,232 | 3,355 | 23.3 | 4.119.00.100200.124HV12.25... |



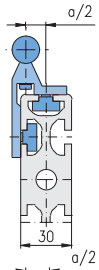

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 30×50 | V | V | 12 | 11 | 51 | 13 | 4.1 | 4.119.00.030050.44VV12.12... |
| LWF-1 | 30×50 | V | V | 16 | 12 | 69 | 14 | 4.7 | 4.119.00.030050.44VV12.16... |



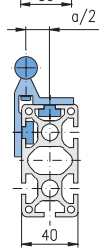

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 30×60 | V | V | 12 | 11 | 68 | 13 | 4.2 | 4.119.00.030060.64VV12.12... |
| LWF-1 | 30×60 | V | V | 16 | 12 | 87 | 14 | 4.8 | 4.119.00.030060.64VV12.16... |



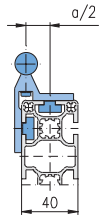

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 30×100 | V | V | 12 | 11 | 220 | 19 | 5.5 | 4.119.00.030100.84VV12.12... |
| LWF-1 | 30×100 | V | V | 16 | 12 | 260 | 20 | 6.1 | 4.119.00.030100.84VV12.16... |



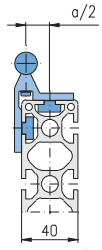

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 30×150 | V | V | 12 | 11 | 733 | 33 | 10.0 | 4.119.00.030150.84VV12.12... |
| LWF-1 | 30×150 | V | V | 16 | 12 | 819 | 34 | 10.6 | 4.119.00.030150.84VV12.16... |



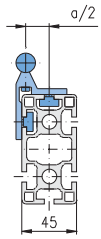

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 40×80 | V | V | 12 | 16 | 160 | 36 | 6.0 | 4.119.00.040080.65VV12.12... |
| LWF-1 | 40×80 | V | V | 16 | 17 | 193 | 38 | 6.7 | 4.119.00.040080.65VV12.16... |
| LWF-1 | 40×80 | V | V | 20 | 16 | 252 | 42 | 8.0 | 4.119.00.040080.65VV12.20... |
| LWF-1 | 40×80 | V | V | 25 | 14 | 320 | 44 | 9.6 | 4.119.00.040080.65VV12.25... |



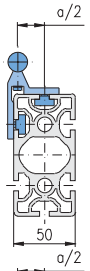

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 40×120 L | V | V | 12 | 16 | 351 | 39 | 5.9 | 4.119.00.040120.84LVV12.12... |
| LWF-1 | 40×120 L | V | V | 16 | 17 | 400 | 41 | 6.6 | 4.119.00.040120.84LVV12.16... |
| LWF-1 | 40×120 L | V | V | 20 | 16 | 491 | 45 | 7.9 | 4.119.00.040120.84LVV12.20... |
| LWF-1 | 40×120 L | V | V | 25 | 14 | 589 | 46 | 9.5 | 4.119.00.040120.84LVV12.25... |



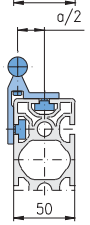

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 40×160 L | V | V | 12 | 16 | 764 | 50 | 7.8 | 4.119.00.040160.104LVV12.12... |
| LWF-1 | 40×160 L | V | V | 16 | 17 | 846 | 52 | 8.5 | 4.119.00.040160.104LVV12.16... |
| LWF-1 | 40×160 L | V | V | 20 | 16 | 1,007 | 57 | 9.8 | 4.119.00.040160.104LVV12.20... |
| LWF-1 | 40×160 L | V | V | 25 | 14 | 1,174 | 58 | 11.4 | 4.119.00.040160.104LVV12.25... |



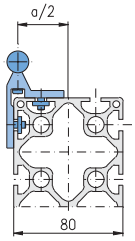

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 45×90 | V | V | 12 | 18.5 | 226 | 50 | 6.6 | 4.119.00.045090.64VV12.12... |
| LWF-1 | 45×90 | V | V | 16 | 18.5 | 268 | 53 | 7.3 | 4.119.00.045090.64VV12.16... |
| LWF-1 | 45×90 | V | V | 20 | 18.5 | 337 | 58 | 8.6 | 4.119.00.045090.64VV12.20... |
| LWF-1 | 45×90 | V | V | 25 | 16.5 | 420 | 60 | 10.2 | 4.119.00.045090.64VV12.25... |



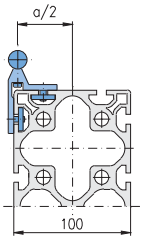

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 50×100 | V | V | 12 | 21 | 324 | 76 | 8.1 | 4.119.00.050100.65W12.12... |
| LWF-1 | 50×100 | V | V | 16 | 22 | 371 | 80 | 8.8 | 4.119.00.050100.65W12.16... |
| LWF-1 | 50×100 | V | V | 20 | 21 | 462 | 87 | 10.1 | 4.119.00.050100.65W12.20... |
| LWF-1 | 50×100 | V | V | 25 | 19 | 565 | 89 | 11.7 | 4.119.00.050100.65W12.25... |




| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 50×150 | V | V | 12 | 21 | 894 | 103 | 10.3 | 4.119.00.050150.85W12.12... |
| LWF-1 | 50×150 | V | V | 16 | 22 | 979 | 107 | 11.0 | 4.119.00.050150.85W12.16... |
| LWF-1 | 50×150 | V | V | 20 | 21 | 1,151 | 115 | 12.3 | 4.119.00.050150.85W12.20... |
| LWF-1 | 50×150 | V | V | 25 | 19 | 1,334 | 118 | 13.9 | 4.119.00.050150.85W12.25... |

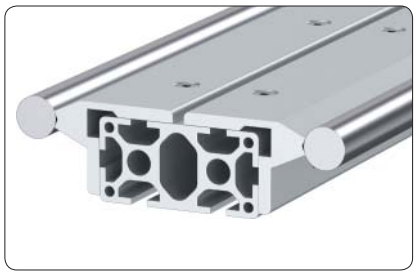



| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 80×160 | V | V | 12 | 36 | 1,227 | 330 | 12.7 | 4.119.00.080160.124W12.12... |
| LWF-1 | 80×160 | V | V | 16 | 37 | 1,324 | 340 | 13.4 | 4.119.00.080160.124W12.16... |
| LWF-1 | 80×160 | V | V | 20 | 36 | 1,527 | 362 | 14.7 | 4.119.00.080160.124W12.20... |
| LWF-1 | 80×160 | V | V | 25 | 34 | 1,743 | 375 | 16.3 | 4.119.00.080160.124W12.25... |



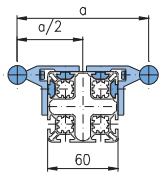

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a/2 | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-1 | 100×200 | V | V | 12 | 46 | 3,044 | 858 | 19.7 | 4.119.00.100200.124W12.12... |
| LWF-1 | 100×200 | V | V | 16 | 47 | 3,193 | 877 | 20.4 | 4.119.00.100200.124W12.16... |
| LWF-1 | 100×200 | V | V | 20 | 46 | 3,519 | 919 | 21.7 | 4.119.00.100200.124W12.20... |
| LWF-1 | 100×200 | V | V | 25 | 44 | 3,863 | 946 | 23.3 | 4.119.00.100200.124W12.25... |

## LWF-2 complete
**(Linear shaft guidance, double sided)**

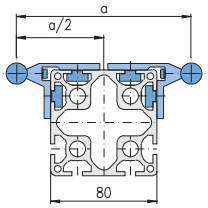


**Legend**
Descr. = description
Dim. = dimension
L1 = orientation of base profile
L2 = orientation of linear shaft guidance
Ø = diameter of shaft in mm
a = axle distance in mm
Ix, Iy = moment of inertia in $cm^4$
G = weight in kg/m

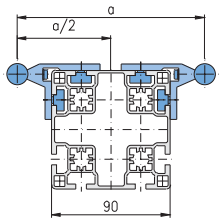
**Orientation**
N = neutral
H = horizontal
V = vertical



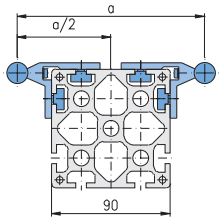

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-2 | 60×60 L | N | H | 12 | 104 | 76 | 182 | 6.7 | 4.119.00.060060.83LNH22.12... |
| LWF-2 | 60×60 L | N | H | 16 | 112 | 80 | 258 | 8.1 | 4.119.00.060060.83LNH22.16... |



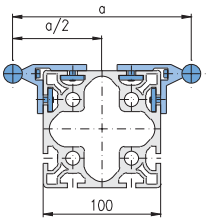

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-2 | 80×80 | N | H | 12 | 124 | 246 | 377 | 10.3 | 4.119.00.080080.83NH22.12... |
| LWF-2 | 80×80 | N | H | 16 | 132 | 253 | 475 | 11.7 | 4.119.00.080080.83NH22.16... |
| LWF-2 | 80×80 | N | H | 20 | 144 | 283 | 703 | 14.2 | 4.119.00.080080.83NH22.20... |
| LWF-2 | 80×80 | N | H | 25 | 152 | 293 | 984 | 17.4 | 4.119.00.080080.83NH22.25... |



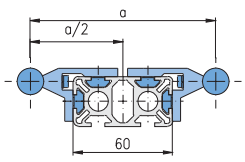

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-2 | 90×90 L | N | H | 12 | 134 | 294 | 455 | 9.7 | 4.119.00.090090.83LNH22.12... |
| LWF-2 | 90×90 L | N | H | 16 | 142 | 309 | 585 | 11.1 | 4.119.00.090090.83LNH22.16... |
| LWF-2 | 90×90 L | N | H | 20 | 154 | 335 | 829 | 17.8 | 4.119.00.090090.83LNH22.20... |
| LWF-2 | 90×90 L | N | H | 25 | 162 | 346 | 1,148 | 16.8 | 4.119.00.090090.83LNH22.25... |



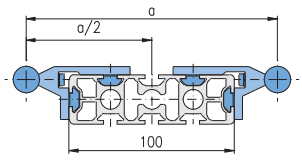

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-2 | 90×90 | N | H | 12 | 134 | 408 | 547 | 13.9 | 4.119.00.090090.83NH22.12... |
| LWF-2 | 90×90 | N | H | 16 | 142 | 430 | 677 | 15.3 | 4.119.00.090090.83NH22.16... |
| LWF-2 | 90×90 | N | H | 20 | 154 | 468 | 921 | 17.8 | 4.119.00.090090.83NH22.20... |
| LWF-2 | 90×90 | N | H | 25 | 162 | 488 | 1,240 | 21.0 | 4.119.00.090090.83NH22.25... |



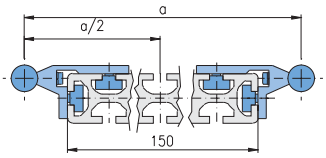

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-2 | 100×100 | N | H | 12 | 144 | 558 | 717 | 14.1 | 4.119.00.100100.83NH22.12... |
| LWF-2 | 100×100 | N | H | 16 | 152 | 583 | 850 | 15.5 | 4.119.00.100100.83NH22.16... |
| LWF-2 | 100×100 | N | H | 20 | 164 | 635 | 1,143 | 18.0 | 4.119.00.100100.83NH22.20... |
| LWF-2 | 100×100 | N | H | 25 | 172 | 661 | 1,501 | 21.2 | 4.119.00.100100.83NH22.25... |



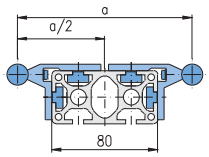

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-2 | 30×60 | H | H | 12 | 104 | 17 | 158 | 5.9 | 4.119.00.030060.64HH22.12... |
| LWF-2 | 30×60 | H | H | 16 | 112 | 18 | 235 | 7.3 | 4.119.00.030060.64HH22.16... |



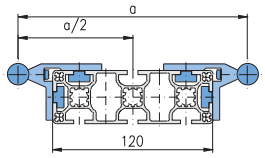

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-2 | 30×100 | H | H | 12 | 144 | 24 | 421 | 7.5 | 4.119.00.030100.84HH22.12... |
| LWF-2 | 30×100 | H | H | 16 | 152 | 26 | 554 | 8.9 | 4.119.00.030100.84HH22.16... |



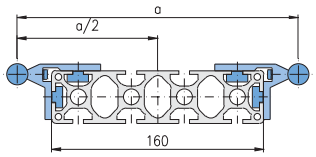

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-2 | 30×150 | H | H | 12 | 194 | 40 | 1,115 | 12.0 | 4.119.00.030150.84HH22.12... |
| LWF-2 | 30×150 | H | H | 16 | 202 | 42 | 1,341 | 13.4 | 4.119.00.030150.84HH22.16... |



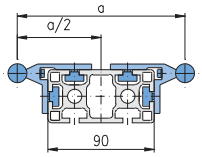

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-2 | 40×80 | H | H | 12 | 124 | 47 | 308 | 8.2 | 4.119.00.040080.65HH22.12... |
| LWF-2 | 40×80 | H | H | 16 | 132 | 49 | 420 | 9.6 | 4.119.00.040080.65HH22.16... |
| LWF-2 | 40×80 | H | H | 20 | 144 | 56 | 634 | 12.1 | 4.119.00.040080.65HH22.20... |
| LWF-2 | 40×80 | H | H | 25 | 152 | 58 | 915 | 15.3 | 4.119.00.040080.65HH22.25... |



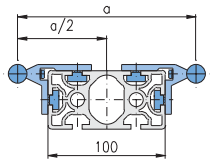

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-2 | 40×120 L | H | H | 12 | 164 | 49 | 659 | 8.1 | 4.119.00.040120.84LHH22.12... |
| LWF-2 | 40×120 L | H | H | 16 | 172 | 52 | 826 | 9.5 | 4.119.00.040120.84LHH22.16... |
| LWF-2 | 40×120 L | H | H | 20 | 184 | 59 | 1,199 | 12.0 | 4.119.00.040120.84LHH22.20... |
| LWF-2 | 40×120 L | H | H | 25 | 192 | 61 | 1,643 | 15.2 | 4.119.00.040120.84LHH22.25... |



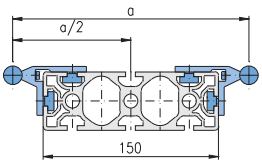

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-2 | 40×160 L | H | H | 12 | 204 | 62 | 1,263 | 10.0 | 4.119.00.040160.104LHH22.12... |
| LWF-2 | 40×160 L | H | H | 16 | 212 | 65 | 1,510 | 11.4 | 4.119.00.040160.104LHH22.16... |
| LWF-2 | 40×160 L | H | H | 20 | 224 | 73 | 2,070 | 13.9 | 4.119.00.040160.104LHH22.20... |
| LWF-2 | 40×160 L | H | H | 25 | 232 | 75 | 2,716 | 17.1 | 4.119.00.040160.104LHH22.25... |



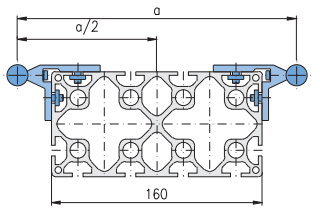

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-2 | 45×90 | H | H | 12 | 134 | 63 | 403 | 8.8 | 4.119.00.045090.64HH22.12... |
| LWF-2 | 45×90 | H | H | 16 | 142 | 67 | 532 | 10.2 | 4.119.00.045090.64HH22.16... |
| LWF-2 | 45×90 | H | H | 20 | 154 | 75 | 777 | 12.7 | 4.119.00.045090.64HH22.20... |
| LWF-2 | 45×90 | H | H | 25 | 162 | 77 | 1,095 | 15.9 | 4.119.00.045090.64HH22.25... |



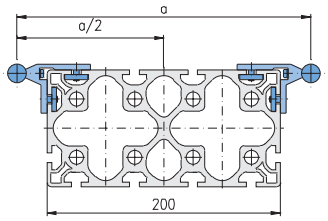

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-2 | 50×100 | H | H | 12 | 144 | 93 | 530 | 10.3 | 4.119.00.050100.65HH22.12... |
| LWF-2 | 50×100 | H | H | 16 | 152 | 98 | 663 | 11.7 | 4.119.00.050100.65HH22.16... |
| LWF-2 | 50×100 | H | H | 20 | 164 | 109 | 956 | 14.2 | 4.119.00.050100.65HH22.20... |
| LWF-2 | 50×100 | H | H | 25 | 172 | 112 | 1,314 | 17.4 | 4.119.00.050100.65HH22.25... |



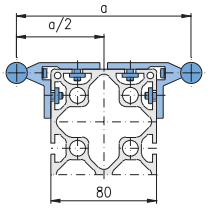

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-2 | 50×150 | H | H | 12 | 194 | 122 | 1,313 | 12.5 | 4.119.00.050150.85HH22.12... |
| LWF-2 | 50×150 | H | H | 16 | 202 | 129 | 1,539 | 13.9 | 4.119.00.050150.85HH22.16... |
| LWF-2 | 50×150 | H | H | 20 | 214 | 141 | 2,052 | 16.4 | 4.119.00.050150.85HH22.20... |
| LWF-2 | 50×150 | H | H | 25 | 222 | 144 | 2,640 | 19.6 | 4.119.00.050150.85HH22.25... |



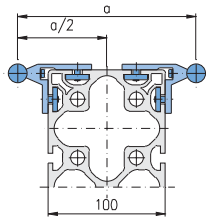

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-2 | 80×160 | H | H | 12 | 204 | 380 | 1,688 | 14.9 | 4.119.00.080160.124HH22.12... |
| LWF-2 | 80×160 | H | H | 16 | 212 | 397 | 1,936 | 16.3 | 4.119.00.080160.124HH22.16... |
| LWF-2 | 80×160 | H | H | 20 | 224 | 430 | 2,500 | 18.8 | 4.119.00.080160.124HH22.20... |
| LWF-2 | 80×160 | H | H | 25 | 232 | 446 | 3,142 | 22.0 | 4.119.00.080160.124HH22.25... |



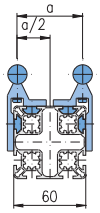

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-2 | 100×200 | H | H | 12 | 244 | 953 | 3,717 | 21.9 | 4.119.00.100200.124HH22.12... |
| LWF-2 | 100×200 | H | H | 16 | 252 | 985 | 4,060 | 23.3 | 4.119.00.100200.124HH22.16... |
| LWF-2 | 100×200 | H | H | 20 | 264 | 1,055 | 4,858 | 25.8 | 4.119.00.100200.124HH22.20... |
| LWF-2 | 100×200 | H | H | 25 | 272 | 1,096 | 5,733 | 29.0 | 4.119.00.100200.124HH22.25... |



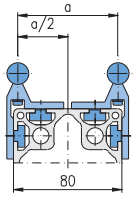

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-2 | 80×160 | V | H | 12 | 124 | 1,376 | 496 | 14.9 | 4.119.00.080160.124VH22.12... |
| LWF-2 | 80×160 | V | H | 16 | 132 | 1,441 | 599 | 16.3 | 4.119.00.080160.124VH22.16... |
| LWF-2 | 80×160 | V | H | 20 | 144 | 1,580 | 822 | 18.8 | 4.119.00.080160.124VH22.20... |
| LWF-2 | 80×160 | V | H | 25 | 152 | 1,666 | 1,104 | 22.0 | 4.119.00.080160.124VH22.25... |



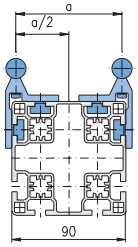

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-2 | 100×200 | V | H | 12 | 144 | 3,370 | 1,088 | 21.9 | 4.119.00.100200.124VH22.12... |
| LWF-2 | 100×200 | V | H | 16 | 152 | 3,499 | 1,221 | 23.3 | 4.119.00.100200.124VH22.16... |
| LWF-2 | 100×200 | V | H | 20 | 164 | 3,799 | 1,514 | 25.8 | 4.119.00.100200.124VH22.20... |
| LWF-2 | 100×200 | V | H | 25 | 172 | 4,007 | 1,872 | 29.0 | 4.119.00.100200.124VH22.25... |



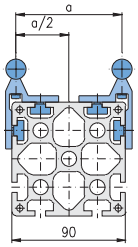

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-2 | 60×60 L | N | V | 12 | 52 | 117 | 112 | 6.9 | 4.119.00.060060.83LNV22.12... |
| LWF-2 | 60×60 L | N | V | 16 | 54 | 152 | 135 | 8.3 | 4.119.00.060060.83LNV22.16... |



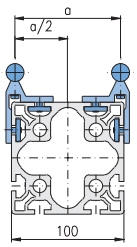

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-2 | 80×80 | N | V | 12 | 72 | 305 | 295 | 10.3 | 4.119.00.080080.83NV22.12... |
| LWF-2 | 80×80 | N | V | 16 | 74 | 359 | 318 | 11.7 | 4.119.00.080080.83NV22.16... |
| LWF-2 | 80×80 | N | V | 20 | 72 | 476 | 387 | 14.2 | 4.119.00.080080.83NV22.20... |
| LWF-2 | 80×80 | N | V | 25 | 68 | 601 | 431 | 17.4 | 4.119.00.080080.83NV22.25... |



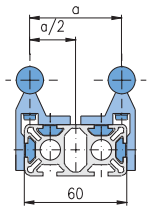

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-2 | 90×90 L | N | V | 12 | 82 | 356 | 364 | 9.7 | 4.119.00.090090.83LNV22.12... |
| LWF-2 | 90×90 L | N | V | 16 | 84 | 424 | 405 | 11.1 | 4.119.00.090090.83LNV22.16... |
| LWF-2 | 90×90 L | N | V | 20 | 82 | 533 | 484 | 13.6 | 4.119.00.090090.83LNV22.20... |
| LWF-2 | 90×90 L | N | V | 25 | 78 | 659 | 542 | 16.8 | 4.119.00.090090.83LNV22.25... |



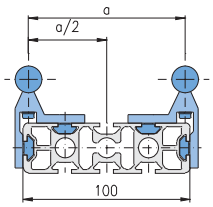

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-2 | 90×90 | N | V | 12 | 82 | 480 | 456 | 13.9 | 4.119.00.090090.83NV22.12... |
| LWF-2 | 90×90 | N | V | 16 | 84 | 565 | 496 | 15.3 | 4.119.00.090090.83NV22.16... |
| LWF-2 | 90×90 | N | V | 20 | 82 | 708 | 575 | 17.8 | 4.119.00.090090.83NV22.20... |
| LWF-2 | 90×90 | N | V | 25 | 78 | 876 | 634 | 21.0 | 4.119.00.090090.83NV22.25... |



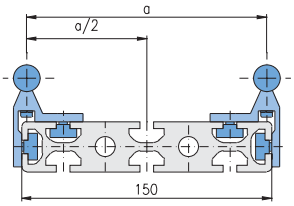

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-2 | 100×100 | N | V | 12 | 92 | 637 | 617 | 14.1 | 4.119.00.100100.83NV22.12... |
| LWF-2 | 100×100 | N | V | 16 | 94 | 727 | 661 | 15.5 | 4.119.00.100100.83NV22.16... |
| LWF-2 | 100×100 | N | V | 20 | 92 | 897 | 767 | 18.0 | 4.119.00.100100.83NV22.20... |
| LWF-2 | 100×100 | N | V | 25 | 88 | 1,087 | 842 | 21.2 | 4.119.00.100100.83NV22.25... |



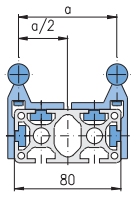

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-2 | 30×60 | H | V | 12 | 52 | 40 | 94 | 5.9 | 4.119.00.030060.64HV22.12... |
| LWF-2 | 30×60 | H | V | 16 | 54 | 61 | 109 | 7.3 | 4.119.00.030060.64HV22.16... |



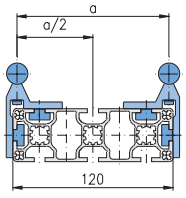

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-2 | 30×100 | H | V | 12 | 92 | 50 | 321 | 7.5 | 4.119.00.030100.84HV22.12... |
| LWF-2 | 30×100 | H | V | 16 | 94 | 75 | 37 | 8.9 | 4.119.00.030100.84HV22.16... |



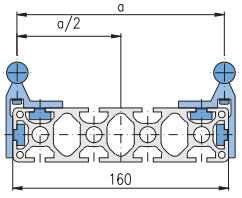

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-2 | 30×150 | H | V | 12 | 142 | 71 | 971 | 12.0 | 4.119.00.030150.84HV22.12... |
| LWF-2 | 30×150 | H | V | 16 | 144 | 102 | 1,072 | 13.4 | 4.119.00.030150.84HV22.16... |



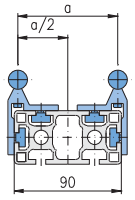

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-2 | 40×80 | H | V | 12 | 72 | 80 | 225 | 8.2 | 4.119.00.040080.65HV22.12... |
| LWF-2 | 40×80 | H | V | 16 | 74 | 110 | 253 | 9.6 | 4.119.00.040080.65HV22.16... |
| LWF-2 | 40×80 | H | V | 20 | 72 | 168 | 318 | 12.1 | 4.119.00.040080.65HV22.20... |
| LWF-2 | 40×80 | H | V | 25 | 68 | 234 | 362 | 15.3 | 4.119.00.040080.65HV22.25... |



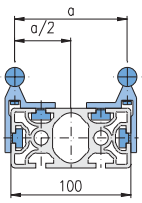

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-2 | 40×120 L | H | V | 12 | 112 | 82 | 82 | 8.1 | 4.119.00.040120.84LHV22.12... |
| LWF-2 | 40×120 L | H | V | 16 | 114 | 113 | 606 | 9.5 | 4.119.00.040120.84LHV22.16... |
| LWF-2 | 40×120 L | H | V | 20 | 112 | 170 | 762 | 12.0 | 4.119.00.040120.84LHV22.20... |
| LWF-2 | 40×120 L | H | V | 25 | 108 | 237 | 879 | 15.2 | 4.119.00.040120.84LHV22.25... |



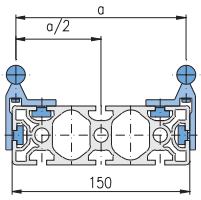

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-2 | 40×160 L | H | V | 12 | 152 | 98 | 1,111 | 10.0 | 4.119.00.040160.104LHV22.12... |
| LWF-2 | 40×160 L | H | V | 16 | 154 | 133 | 1,225 | 11.4 | 4.119.00.040160.104LHV22.16... |
| LWF-2 | 40×160 L | H | V | 20 | 152 | 198 | 1,515 | 13.9 | 4.119.00.040160.104LHV22.20... |
| LWF-2 | 40×160 L | H | V | 25 | 148 | 277 | 1,742 | 17.1 | 4.119.00.040160.104LHV22.25... |



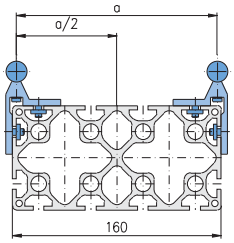

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-2 | 45×90 | H | V | 12 | 82 | 100 | 312 | 8.8 | 4.119.00.045090.64HV22.12... |
| LWF-2 | 45×90 | H | V | 16 | 84 | 135 | 347 | 10.2 | 4.119.00.045090.64HV22.16... |
| LWF-2 | 45×90 | H | V | 20 | 82 | 200 | 431 | 12.7 | 4.119.00.045090.64HV22.20... |
| LWF-2 | 45×90 | H | V | 25 | 78 | 276 | 489 | 15.9 | 4.119.00.045090.64HV22.25... |



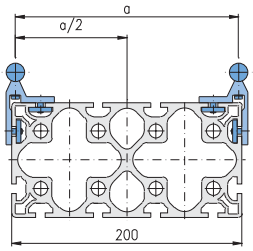

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-2 | 50×100 | H | V | 12 | 92 | 135 | 430 | 10.3 | 4.119.00.050100.65HV22.12... |
| LWF-2 | 50×100 | H | V | 16 | 94 | 176 | 474 | 11.7 | 4.119.00.050100.65HV22.16... |
| LWF-2 | 50×100 | H | V | 20 | 92 | 252 | 580 | 14.2 | 4.119.00.050100.65HV22.20... |
| LWF-2 | 50×100 | H | V | 25 | 88 | 341 | 655 | 17.4 | 4.119.00.050100.65HV22.25... |



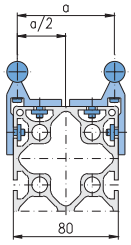

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-2 | 50×150 | H | V | 12 | 142 | 167 | 1,170 | 12.5 | 4.119.00.050150.85HV22.12... |
| LWF-2 | 50×150 | H | V | 16 | 144 | 213 | 1,270 | 13.9 | 4.119.00.050150.85HV22.16... |
| LWF-2 | 50×150 | H | V | 20 | 142 | 298 | 1,523 | 16.4 | 4.119.00.050150.85HV22.20... |
| LWF-2 | 50×150 | H | V | 25 | 138 | 400 | 1,719 | 19.6 | 4.119.00.050150.85HV22.25... |



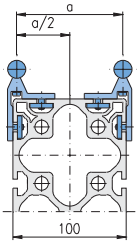

| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-2 | 80×160 | H | V | 12 | 152 | 446 | 1,536 | 14.9 | 4.119.00.080160.124HV22.12... |
| LWF-2 | 80×160 | H | V | 16 | 154 | 519 | 1,651 | 16.3 | 4.119.00.080160.124HV22.16... |
| LWF-2 | 80×160 | H | V | 20 | 152 | 656 | 1,941 | 18.8 | 4.119.00.080160.124HV22.20... |
| LWF-2 | 80×160 | H | V | 25 | 148 | 814 | 2,168 | 22.0 | 4.119.00.080160.124HV22.25... |




| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-2 | 100×200 | H | V | 12 | 192 | 1,040 | 3,530 | 21.9 | 4.119.00.100200.124HV22.12... |
| LWF-2 | 100×200 | H | V | 16 | 194 | 1,147 | 3,711 | 23.3 | 4.119.00.100200.124HV22.16... |
| LWF-2 | 100×200 | H | V | 20 | 192 | 1,359 | 4,176 | 25.8 | 4.119.00.100200.124HV22.20... |
| LWF-2 | 100×200 | H | V | 25 | 188 | 1,603 | 4,550 | 29.0 | 4.119.00.100200.124HV22.25... |

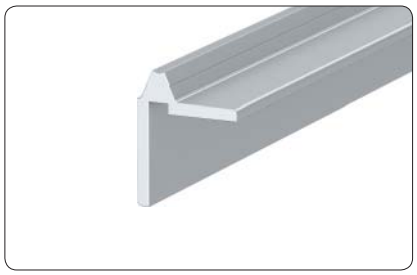



| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-2 | 80×160 | V | V | 12 | 72 | 1,494 | 414 | 14.9 | 4.119.00.080160.124VV22.12... |
| LWF-2 | 80×160 | V | V | 16 | 74 | 1,655 | 442 | 16.3 | 4.119.00.080160.124VV22.16... |
| LWF-2 | 80×160 | V | V | 20 | 72 | 1,966 | 507 | 18.8 | 4.119.00.080160.124VV22.20... |
| LWF-2 | 80×160 | V | V | 25 | 68 | 2,295 | 550 | 22.0 | 4.119.00.080160.124VV22.25... |




| Descr. | Base profile Dim. | L1 | Shaft L2 | Ø | a | Moment of i. Ix | Iy | G kg/m | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| LWF-2 | 100×200 | V | V | 12 | 92 | 3,531 | 988 | 21.9 | 4.119.00.100200.124VV22.12... |
| LWF-2 | 100×200 | V | V | 16 | 94 | 3,792 | 1,032 | 23.3 | 4.119.00.100200.124VV22.16... |
| LWF-2 | 100×200 | V | V | 20 | 92 | 4,340 | 1,138 | 25.8 | 4.119.00.100200.124VV22.20... |
| LWF-2 | 100×200 | V | V | 25 | 88 | 4,901 | 1,213 | 29.0 | 4.119.00.100200.124VV22.25... |

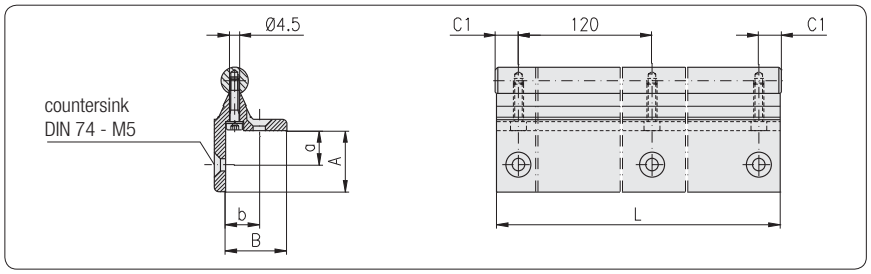
## for shaft-Ø12

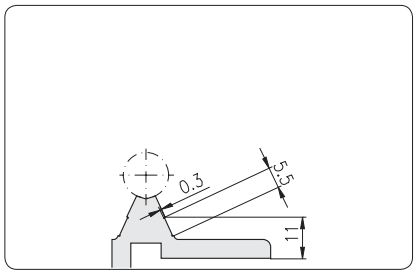


**Technical data**

material: Al Mg Si 0,5 F 25
surface: neutral anodised
length: 6 m

height and side tolerance:
- to specified length: ± 0.2 mm
- within one bar: 0.1 mm



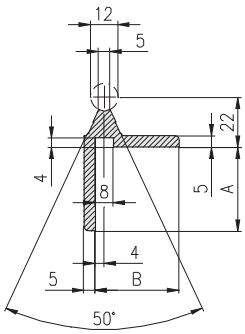

**Calculation of C1:**

C1 = 1/2·(L-n·120)

n = maximum number of divisions

Cut to length: 4.119.0□.12.□□□□□□□□-02/... (/... = length in mm)

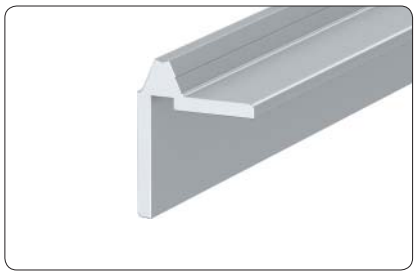
### Type A




| Moment of inertia | cm⁴ | Ix = 8.5 | Iy = 6.6 |
|---|---|---|---|
| Moment of resistance | cm³ | Wx = 2.6 | Wy = 2.2 |
| Weight (G) | kg/m | | |

| Description | A | a | B | b | G | Article-No. |
|---|---|---|---|---|---|---|
| Shaft guidance profile 12A | 37 | - | 37 | - | 1.30 | 4.119.0A.12.37003700.60 |
| Shaft guidance profile 12A | 27 | 15.0 | 27 | 15.0 | 1.03 | 4.119.0A.12.27152715.60 |
| Shaft guidance profile 12A | 27 | 15.0 | 37 | 15.0 | 1.17 | 4.119.0A.12.27153715.60 |
| Shaft guidance profile 12A | 27 | 15.0 | 37 | 25.0 | 1.17 | 4.119.0A.12.27153725.60 |
| Shaft guidance profile 12A | 37 | 20.0 | 37 | 20.0 | 1.30 | 4.119.0A.12.37203720.60 |
| Shaft guidance profile 12A | 37 | 22.5 | 37 | 22.5 | 1.30 | 4.119.0A.12.37223722.60 |
| Shaft guidance profile 12A | 37 | 25.0 | 27 | 15.0 | 1.17 | 4.119.0A.12.37252715.60 |
| Shaft guidance profile 12A | 37 | 25.0 | 37 | 25.0 | 1.30 | 4.119.0A.12.37253725.60 |

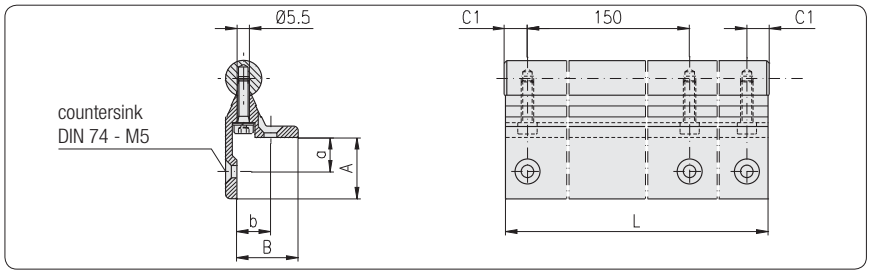
## for shaft-Ø16

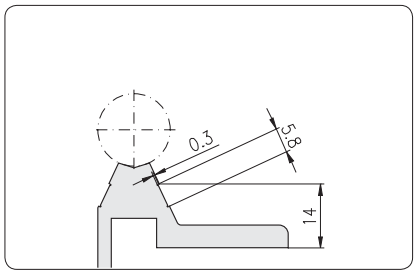


**Technical data**

material: Al Mg Si 0,5 F 25
surface: neutral anodised
length: 6 m

height and side tolerance:
- to specified length: ± 0.2 mm
- within one bar: 0.1 mm



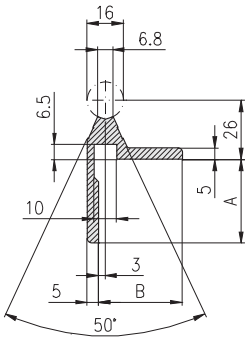

**Calculation of C1:**

C1 = 1/2·(L-n·150)

n = maximum number of divisions

Cut to length: 4.119.0□.16.□□□□□□□□-02/... (/... = length in mm)

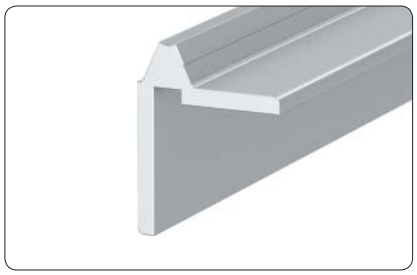
### Type A




| | | | | | |
|---|---|---|---|---|---|
| Moment of inertia | cm⁴ | Ix = 10.1 | | Iy = 6.6 | |
| Moment of resistance | cm³ | Wx = 3.0 | | Wy = 2.2 | |
| Weight (G) | kg/m | | | | |

| Description | A | a | B | b | G | Article-No. |
|---|---|---|---|---|---|---|
| Shaft guidance profile 16A | 37 | - | 37 | - | 1.30 | 4.119.0A.16.37003700.60 |
| Shaft guidance profile 16A | 27 | 15.0 | 27 | 15.0 | 1.03 | 4.119.0A.16.27152715.60 |
| Shaft guidance profile 16A | 27 | 15.0 | 37 | 15.0 | 1.17 | 4.119.0A.16.27153715.60 |
| Shaft guidance profile 16A | 27 | 15.0 | 37 | 25.0 | 1.17 | 4.119.0A.16.27153725.60 |
| Shaft guidance profile 16A | 37 | 15.0 | 27 | 15.0 | 1.17 | 4.119.0A.16.37152715.60 |
| Shaft guidance profile 16A | 37 | 20.0 | 37 | 20.0 | 1.30 | 4.119.0A.16.37203720.60 |
| Shaft guidance profile 16A | 37 | 22.5 | 37 | 22.5 | 1.30 | 4.119.0A.16.37223722.60 |
| Shaft guidance profile 16A | 37 | 25.0 | 27 | 15.0 | 1.17 | 4.119.0A.16.37252715.60 |
| Shaft guidance profile 16A | 37 | 25.0 | 37 | 25.0 | 1.30 | 4.119.0A.16.37253725.60 |

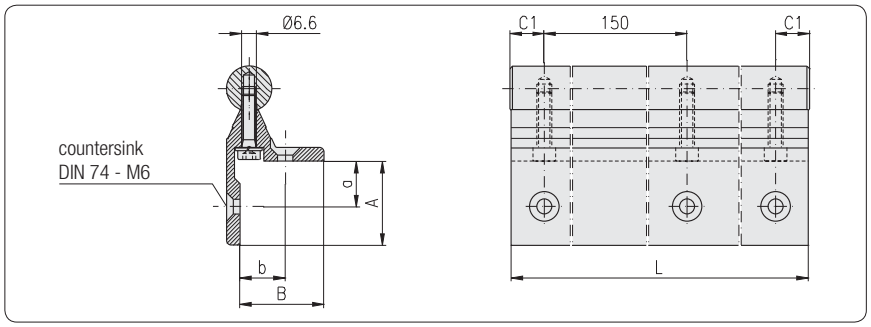
## for shaft-Ø20

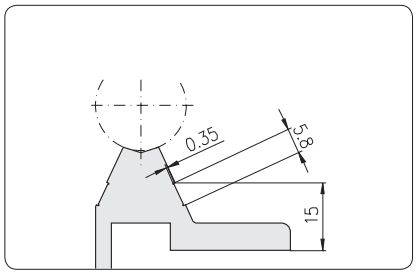


**Technical data**

material: Al Mg Si 0,5 F 25
surface: neutral anodised
length: 6 m

height and side tolerance:
- to specified length: ± 0.2 mm
- within one bar: 0.1 mm



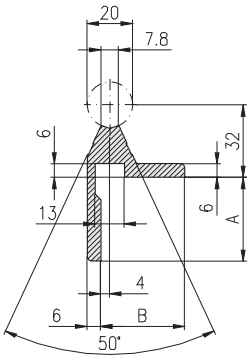

**Calculation of C1:**

C1 = 1/2·(L-n·150)

n = maximum number of divisions

Cut to length: 4.119.0□.20.□□□□□□□□-02/... ( /... = length in mm)

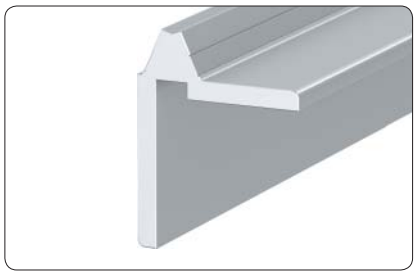
### Type A




| | | | | | |
|---|---|---|---|---|---|
| Moment of inertia | $cm^4$ | Ix = 14.6 | | Iy = | 8.4 |
| Moment of resistance | $cm^3$ | Wx = 4.0 | | Wy = | 2.8 |
| Weight (G) | kg/m | | | | |

| Description | A | a | B | b | G | Article-No. |
|---|---|---|---|---|---|---|
| Shaft guidance profile 20A | 37 | - | 37 | - | 1.7 | 4.119.0A.20.37003700.60 |
| Shaft guidance profile 20A | 37 | 20.0 | 37 | 20.0 | 1.7 | 4.119.0A.20.37203720.60 |
| Shaft guidance profile 20A | 37 | 22.5 | 37 | 22.5 | 1.7 | 4.119.0A.20.37223722.60 |
| Shaft guidance profile 20A | 37 | 25.0 | 37 | 25.0 | 1.7 | 4.119.0A.20.37253725.60 |

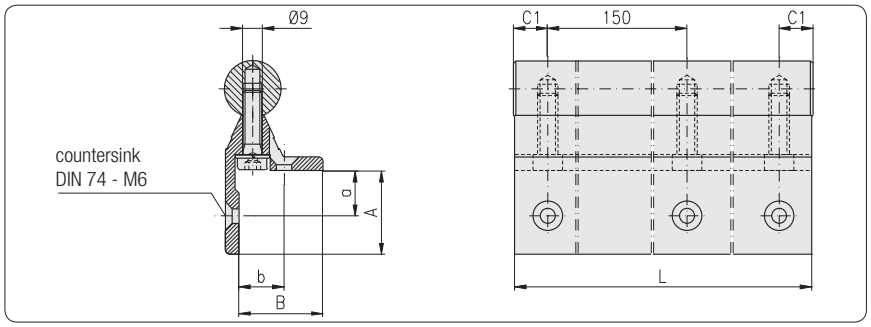
## for shaft-Ø25

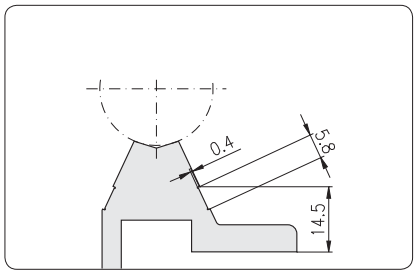


**Technical data**

material: Al Mg Si 0,5 F 25
surface: neutral anodised
length: 6 m

height and side tolerance:
- to specified length: ± 0.2 mm
- within one bar: 0.1 mm



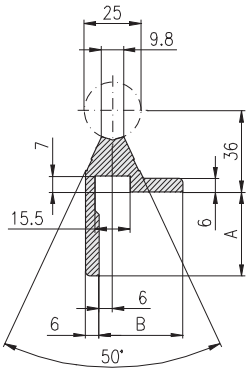

**Calculation of C1:**

C1 = 1/2·(L-n·150)

n = maximum number of divisions

Cut to length: 4.119.0□.25.□□□□□□□□-02/... ( /... = length in mm)

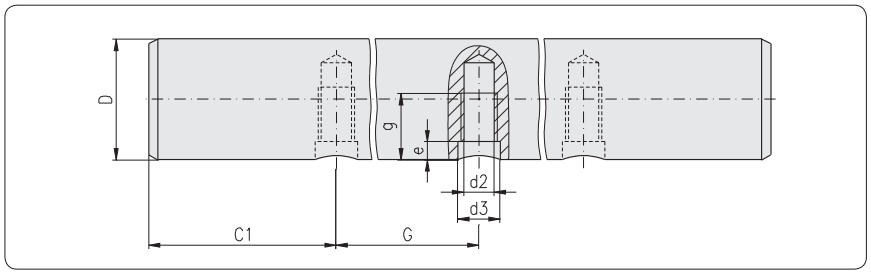
### Type A




| | | | | | |
|---|---|---|---|---|---|
| Moment of inertia | $cm^4$ | Ix = 16.6 | | Iy = 8.7 | |
| Moment of resistance | $cm^3$ | Wx = 4.4 | | Wy = 2.9 | |
| Weight (G) | kg/m | | | | |

| Description | A | a | B | b | G | Article-No. |
|---|---|---|---|---|---|---|
| Shaft guidance profile 25A | 37 | - | 37 | - | 1.9 | 4.119.0A.25.37003700.60 |
| Shaft guidance profile 25A | 37 | 20.0 | 37 | 20.0 | 1.9 | 4.119.0A.25.37203720.60 |
| Shaft guidance profile 25A | 37 | 22.5 | 37 | 22.5 | 1.9 | 4.119.0A.25.37223722.60 |
| Shaft guidance profile 25A | 37 | 25.0 | 37 | 25.0 | 1.9 | 4.119.0A.25.37253725.60 |

## Shafts

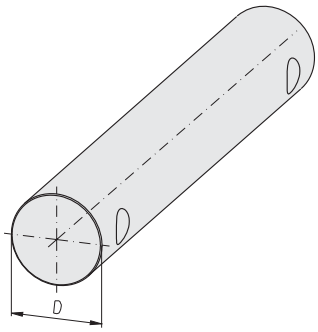



| D | d1 | d2 | d3 | g | e | $C_{1\ min}$ [1)] | G |
|---|---|---|---|---|---|---|---|
| 12 mm | M5 | M4 | 5 | 8 | 2.0 | 10 | 120 |
| 16 mm | M6 | M5 | 6 | 9 | 2.5 | 10 | 150 |
| 20 mm | M8 | M6 | 7 | 11 | 3.0 | 10 | 150 |
| 25 mm | M10 | M8 | 9 | 15 | 3.0 | 15 | 150 |

[1)] For applications with axial thread C1 has to be adapted for the drilling depth of the axial thread
☞ 48

**Calculation of C1:**
C1 = 1/2·(L-n·G)
n = maximum number of divisions

### Coated steel

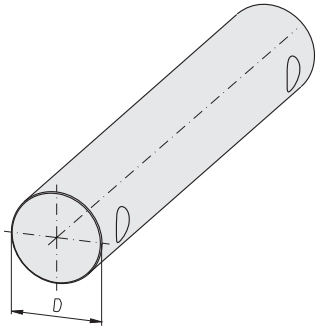



**Technical data**

material: coated steel
surface: edge layer hardened, polished
coat hardness: 670 + 170HV (59 + 6HRC)
length of bar: 6 m, ends unchamfered
weight (G): kg/m

| Description | D | Roundness | Parallelism | G | Article-No. |
|---|---|---|---|---|---|
| Shaft | 12 h6 | 5 µm | 8 µm | 0.89 | 4.119.0W.21.12.60 |
| Shaft | 16 h6 | 5 µm | 8 µm | 1.57 | 4.119.0W.21.16.60 |
| Shaft | 20 h6 | 6 µm | 9 µm | 2.45 | 4.119.0W.21.20.60 |
| Shaft | 25 h6 | 6 µm | 9 µm | 3.83 | 4.119.0W.21.25.60 |

### Noncorroding steel X46Cr13

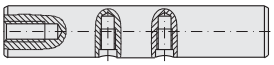
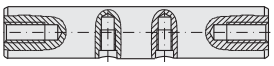



**Technical data**

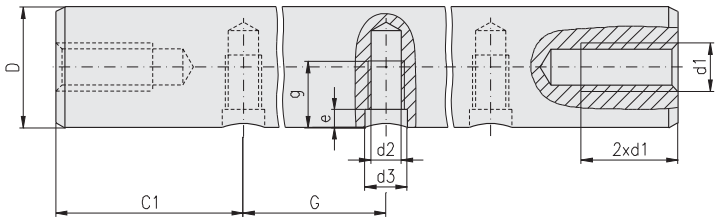
material: X46Cr13
surface: polished
coat hardness: 560 + 60HV (54 + 3HRC)
length of bar: 6 m, ends unchamfered
weight (G): kg/m

| Description | D | Roundness | Parallelism | G | Article-No. |
|---|---|---|---|---|---|
| Shaft X46Cr13 | 12 h6 | 5 µm | 8 µm | 0.89 | 4.119.0W.22.12.60 |
| Shaft X46Cr13 | 16 h6 | 5 µm | 8 µm | 1.57 | 4.119.0W.22.16.60 |
| Shaft X46Cr13 | 20 h6 | 6 µm | 9 µm | 2.45 | 4.119.0W.22.20.60 |
| Shaft X46Cr13 | 25 h6 | 6 µm | 9 µm | 3.83 | 4.119.0W.22.25.60 |

## Machining of shafts

| Description | |
|---|---|
|  | Machining of shaft - 1 axial thread |
|  | Machining of shaft - 2 axial threads |
|  | Machining of shaft - 1 axial and radial thread |
|  | Machining of shaft - 2 axial and radial threads |

## Dimensions for machining of shafts




| D | d1 | d2 | d3 | g | e | $C_{1\ min}$ [1)] | G |
|---|---|---|---|---|---|---|---|
| 12 mm | M5 | M4 | 5 | 8 | 2.0 | 10 | 120 |
| 16 mm | M6 | M5 | 6 | 9 | 2.5 | 10 | 150 |
| 20 mm | M8 | M6 | 7 | 11 | 3.0 | 10 | 150 |
| 25 mm | M10 | M8 | 9 | 15 | 3.0 | 15 | 150 |

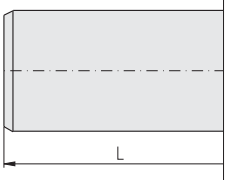
[1)] For applications with axial thread C1 has to be adapted for the drilling depth of the axial thread

**Calculation of C1:**

C1 = 1/2·(L-n·G)

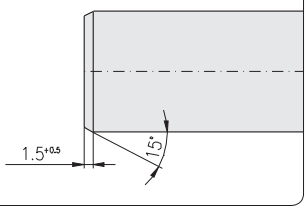
n = maximum number of divisions

## Straightness tolerance for shafts cut to length




| Length | Tolerance |
|---|---|
| 0 - 400 | ± 0.5 |
| 400 - 1,000 | ± 0.8 |
| 1,000 - 2,000 | ± 1.2 |
| 2,000 - 4,000 | ± 2.0 |
| 4,000 - 6,000 | ± 3.0 |

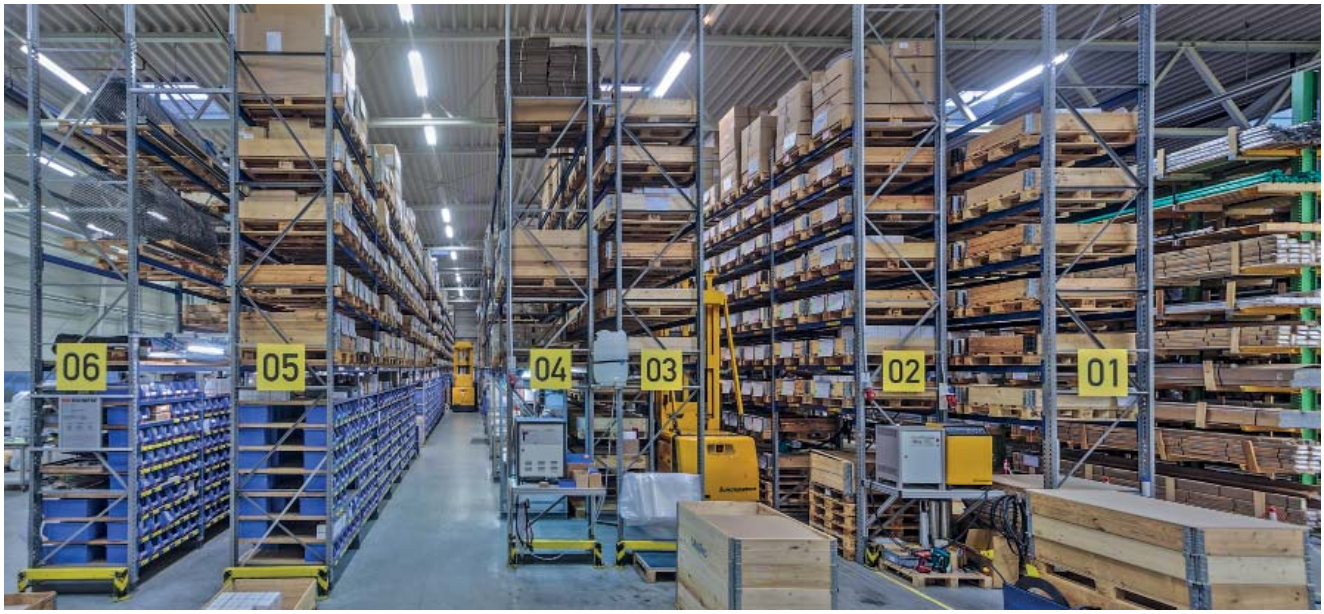
## Chamfer on a shaft side



**Order example**
for shafts

| | | | |
|---|---|---|---|
| bar 6m | 4.119.0W.11.12.60 | | |
| cut to length | 4.119.0W.11.12– □□□□□□/□□□□ | | |
| | 4.119.0W.11.12– S □□□□□□/□□□□ | left | cut |
| | 4.119.0W.11.12– □ F □□□□□/□□□□ | left | chamfer |
| | 4.119.0W.11.12– □□ A □□□□/□□□□ | left | axial thread |
| | 4.119.0W.11.12– □□□ S □□□/□□□□ | right | cut |
| | 4.119.0W.11.12– □□□□ F □□/□□□□ | right | chamfer |
| | 4.119.0W.11.12– □□□□□ A □/□□□□ | right | axial thread |
| | 4.119.0W.11.12– □□□□□□/□□□□ | length in mm | |

MayTec GmbH plant in Olching

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