Support trays and guide channels

Reliable unrolling and optimum gliding for long travel lengths

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Support trays and guide channels | Overview

Type	One-piece	Multi-piece	Standard length [mm]	Custom length	Material: StVz	Material: V2A	Material: V4A	Material: Al alloy	Easy alignment	Variable width	Flexible distances of the channel mounting	Channel mounting: inside	Channel mounting: outside	Channel bottom: open	Channel bottom: closed	Robust design	Page
Support trays																	
	•	•	2000/ 3000	•	•	•	•	–	•	•	–	•	–	•	•	–	858
Standard channel																	
	•	–	2000/ 3000	•	•	•	•	–	•	–	•	–	•	•	•	•	870
Steel Guide System (TKSG)																	
	–	•	1000/ 2000	–	•	•	•	–	•	•	–	–	•	•	–	•	880
Channel enclosure																	
	–	•	1000/ 2000	–	•	•	•	–	•	•	–	–	•	–	•	•	885
Alu Guide System (TKAL)																	
	–	•	2000	•	–	–	–	•	•	•	•	•	•	•	–	•	886
Easy Guide System (TKEG)																	
	•	•	2000	•	•	•	•	–	•	–	•	–	•	–	•	–	894
Vertical Guide System (TKVG)																	
	–	•	3000	•	–	–	–	•	•	–	•	–	•	–	•	•	914

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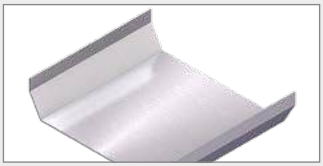
Support trays

An even surface is required for reliable unrolling of the unsupported cable carrier. If this is not already provided on site, a support tray has to be used. If required, we supply our cable carriers with a suitable support tray for your application. This ensures quiet movement of the lower run with reduced wear, reducing costs and design work.

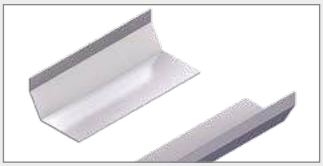
All support trays are available in zinc plated sheet steel or stainless steel. The selection depends on the conditions of use. The simple design allows easy fixing and omits complex individual constructions. The standard lengths are 2000 mm / 3000 mm. Special lengths on request.



One part (standard) ..... Page 860

Support tray, one part, closed

- Steel profile, folded on both sides.
- Available in zinc plated sheet steel or stainless steel.
- Available for all cable carrier types
- Standard lengths 2000 / 3000 mm, special lengths in 1 mm sections.



Two parts ..... Page 861

Support tray, two parts, open

- Steel profiles, folded on one side.
- Available in zinc plated sheet steel or stainless steel.
- Available for all cable carrier types.
- Standard lengths 2000 / 3000 mm, special lengths in 1 mm sections.

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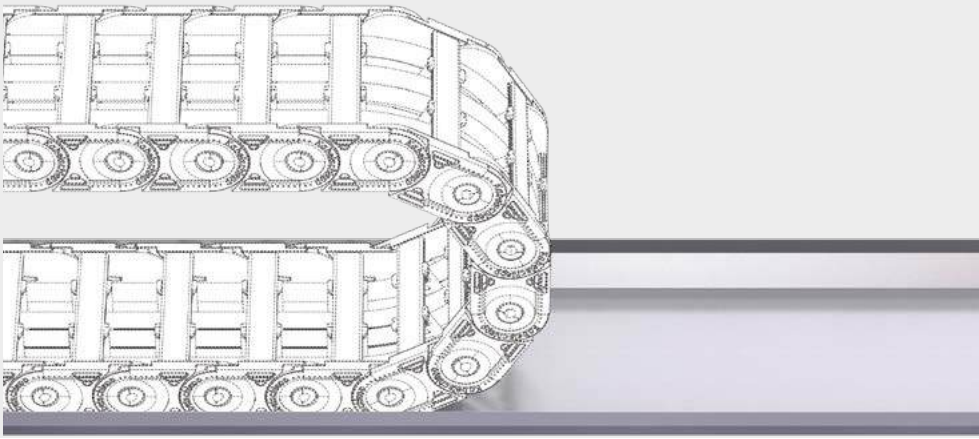
to change without notice.

Support Trays | Overview

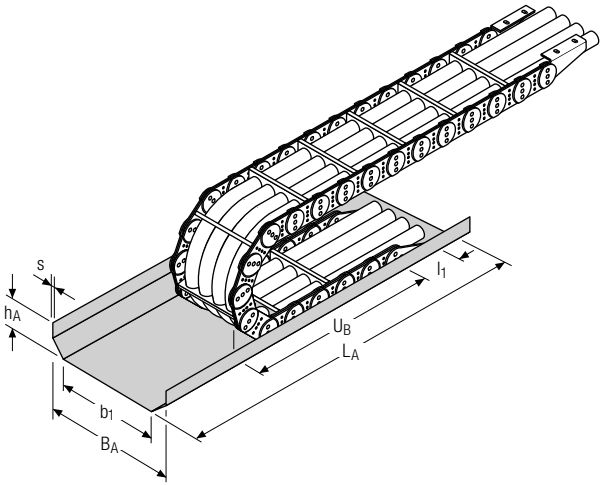
One part – closed (standard)

- Steel profile, folded on both sides.
- Zinc plated sheet steel or stainless steel.
- Available for all cable carrier types.
- Standard lengths 2000 / 3000 mm, special lengths in 1 mm sections.



Zinc plated sheet steel / stainless steel

Standard lengths 2000 / 3000 mm
Special lengths on request



Calculating the support tray length

Support tray length L_A

$$L_A = \frac{L_S}{2} + U_B + l_1$$

(for standard connection)

With upstream strain relief on the fixed point, the support trays have to be made accordingly longer.

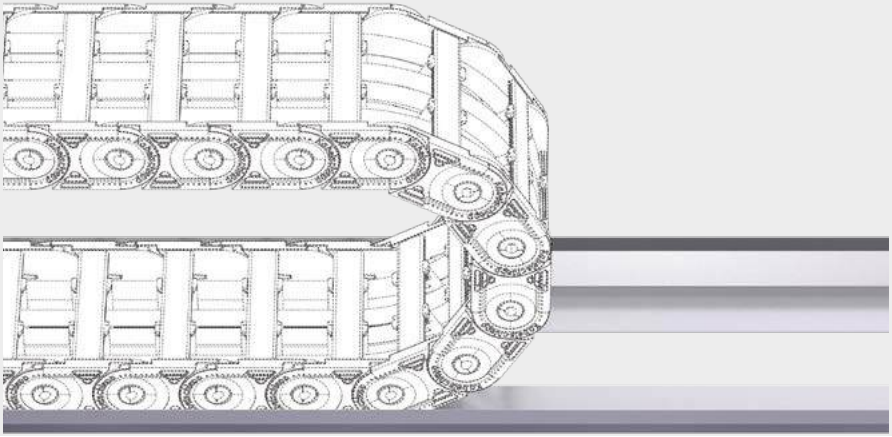
The use of a one part support tray depends on the the cable carrier. Please contact us.

Subject to change without notice.

Support Trays | Overview

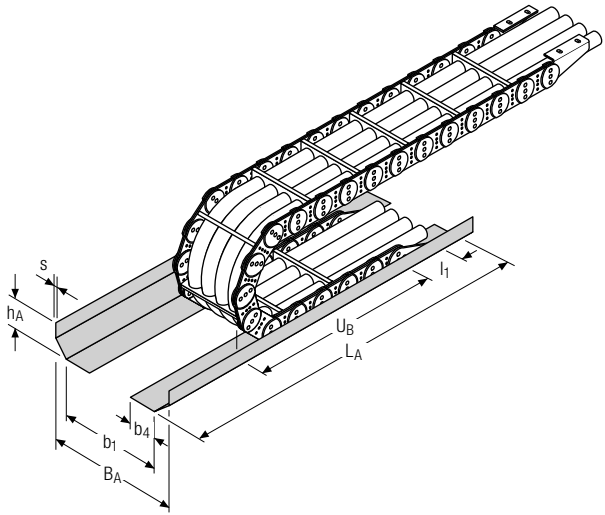
Two parts – open

- Steel profiles, folded on one side.
- Zinc plated sheet steel or stainless steel.
- Available for all cable carrier types.
- Standard lengths 2000 / 3000 mm, special lengths in 1 mm sections.
- Variable widths.



Zinc plated sheet steel / stainless steel

Standard lengths 2000 / 3000 mm
Special lengths on request



Calculating the support tray length

Support tray length L_A

$$L_A = \frac{L_S}{2} + U_B + l_1$$

(for standard connection)

With upstream strain relief on the fixed point, the support trays have to be made accordingly longer

The use of a two part support tray depends on the the cable carrier. Please contact us.

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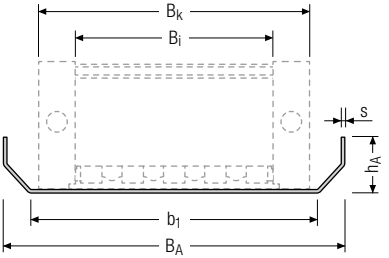
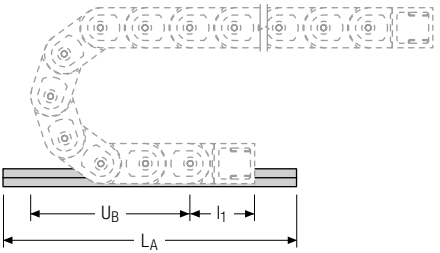
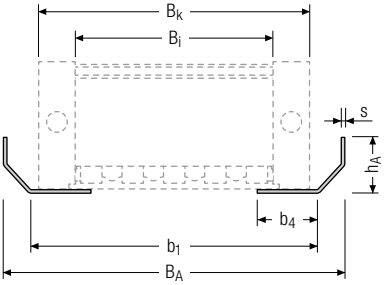
Dimensions

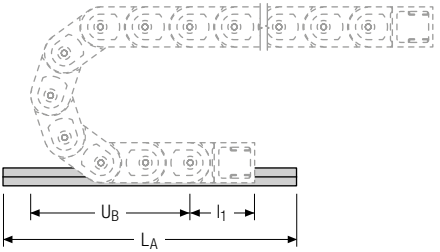
One part – closed (standard)





Two parts – open





UNIFLEX *Advanced* series

B_k [mm]	b_1 [mm]	b_4 [mm]	B_A [mm]	h_A [mm]	s [mm]
UA1455 | page 162					
B_i + 16	B_k + 6	25	B_k + 21	20	1.5
UA1555 | page 172					
B_i + 18	B_k + 6	30	B_k + 21	20	1.5
UA1665 | page 182					
B_i + 22	B_k + 15	40	B_k + 40	30	2
UA1775 | page 196					
B_i + 26	B_k + 15	55	B_k + 40	30	2
UA1995 | page 204/348					
B_i + 30	B_k + 20	60	B_k + 60	50	2

The use of a two part support tray strongly depends on the inner width used in the cable carrier. For small inner widths, we recommend using one part support trays.
Please contact us.

Subject to change without notice.

Dimensions

TKP35 series

B_k [mm]	b_1 [mm]	b_4 [mm]	B_A [mm]	h_A [mm]	s [mm]
TKP35 | page 218					
$B_i + 12$	$B_k + 6$	25	$B_k + 21$	20	1.5

EasyTrax® series

B_k [mm]	b_1 [mm]	b_4 [mm]	B_A [mm]	h_A [mm]	s [mm]
ET1455 | page 258					
$B_i + 16$	$B_k + 6$	25	$B_k + 21$	20	1.5

K series

B_k [mm]	b_1 [mm]	b_4 [mm]	B_A [mm]	h_A [mm]	s [mm]
K0650 | page 306					
$B_i + 28$	$B_k + 15$	40	$B_k + 40$	30	2
K0900 | page 322					
$B_i + 31$	$B_k + 15$	55	$B_k + 40$	30	2

M series

B_k [mm]	b_1 [mm]	b_4 [mm]	B_A [mm]	h_A [mm]	s [mm]
M0475 | page 372					
$B_i + 17$	$B_k + 6$	30	$B_k + 21$	20	1.5
M0650 | page 380					
$B_i + 34$	$B_k + 15$	40	$B_k + 40$	30	2
M0950 | page 400					
$B_i + 39$	$B_k + 15$	55	$B_k + 40$	30	2
M1250 | page 428					
$B_i + 45$	$B_k + 20$	60	$B_k + 60$	50	3
M1300 | page 416					
$B_i + 50$	$B_k + 20$	55	$B_k + 60$	50	3

Subject to change without notice.

Support Trays | Dimensions · Technical Data

Dimensions

TKHP series

B_k [mm]	b_1 [mm]	b_4 [mm]	B_A [mm]	h_A [mm]	s [mm]
TKHP85 | page 468					
$B_i + 54$	$B_k + 15$	60	$B_k + 40$	30	3
TKHP90 | page 474					
$B_i + 70$	$B_k + 20$	70	$B_k + 60$	70	3

XL series

B_k [mm]	b_1 [mm]	b_4 [mm]	B_A [mm]	h_A [mm]	s [mm]
XL1650 | page 496					
$B_i + 68$	$B_k + 20$	70	$B_k + 60$	70	3

QUANTUM® series

B_k [mm]	b_1 [mm]	b_4 [mm]	B_A [mm]	h_A [mm]	s [mm]
Q040 | page 506					
$B_i + 40$	$B_k + 6$	30	$B_k + 21$	20	1.5
Q060 | page 512					
$B_i + 52$	$B_k + 15$	40	$B_k + 40$	30	2
Q080 | page 522					
$B_i + 72$	$B_k + 15$	55	$B_k + 40$	30	2
Q100 | page 536					
$B_i + 82$	$B_k + 20$	60	$B_k + 60$	50	3

TKR series

B_k [mm]	b_1 [mm]	b_4 [mm]	B_A [mm]	h_A [mm]	s [mm]
TKR0200 | page 560					
$B_i + 16$	$B_k + 6$	25	$B_k + 21$	20	1.5
TKR0260 | page 566					
$B_i + 26$	$B_k + 15$	40	$B_k + 40$	30	2
TKR0280 | page 572					
$B_i + 30$	$B_k + 15$	40	$B_k + 40$	30	2

The use of a two part support tray strongly depends on the inner width used in the cable carrier. For small inner widths, we recommend using one part support trays.
Please contact us.

Subject to change without notice.

Dimensions

TKA series

B_k [mm]	b_1 [mm]	b_4 [mm]	B_A [mm]	h_A [mm]	s [mm]
TKA38 | page 596					
B_i + 16	B_k + 6	25	B_k + 21	20	1.5
TKA45 | page 602					
B_i + 16	B_k + 6	25	B_k + 21	20	1.5
TKA55 | page 610					
B_i + 21	B_k + 15	40	B_k + 40	30	2

LS/LSX series

B_k [mm]	b_1 [mm]	b_4 [mm]	B_A [mm]	h_A [mm]	s [mm]
LS/LSX1050 | page 734					
B_{St} + 16/18	B_k + 15	55	B_k + 40	30	2

S/SX series

B_k [mm]	b_1 [mm]	b_4 [mm]	B_A [mm]	h_A [mm]	s [mm]
S/SX0650 | page 748					
B_{St} + 15/17	B_k + 15	40	B_k + 40	30	2
S/SX0950 | page 758					
B_{St} + 19/21	B_k + 15	55	B_k + 40	30	2
S/SX1250 | page 770					
B_{St} + 24/26	B_k + 20	60	B_k + 60	50	3
S/SX1800 | page 794					
B_{St} + 29/32	B_k + 20	70	B_k + 60	50	3
S/SX2500 | page 804					
B_{St} + 32	B_k + 25	100	B_k + 75	80	3
S/SX3200 | page 810					
B_{St} + 40	B_k + 25	100	B_k + 75	80	3

We will also be happy to manufacture support trays for types 5000 to 9000. Please contact us.

Order

Support trays

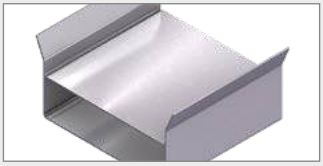
To order the support tray, we need the following information:

- Number of support trays
- Material
- Version of support tray (one part/two parts)
- Part length
- Total length of support tray
- Cable carrier type
- Height of support tray h_A
- Inner width of support tray b_1

Subject to change without notice.

Guide channels

Guide channels are important elements for the reliable functioning with long travel lengths. The upper run of the cable carrier slides on the lower run and on the sliding area of the guide channel behind the fixed point. Guide channels prevent the upper run from slipping off the lower run, ensuring quiet running with low wear. For vertical applications such as elevators or storage and retrieval systems, a vertical channel provides optimum guiding.



Standard channel ..... Page **870**

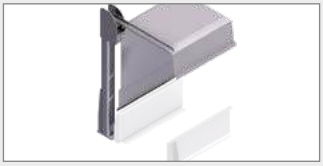
Sheet steel guide channels

- Simple version with customized fixing options.
- Zinc plated sheet steel or stainless steel.
- Standard lengths.

Steel Guide System (TKSG) ..... Page **880**

Guide channels in the modular system

- Modular system with optimized design for long travel lengths.
- Zinc plated sheet steel or stainless steel.
- Easy installation.



Channel enclosure ..... Page **885**

Cover for guide channels

- Optimum protection against external influences.
- Easy access for inspection.
- Modular design.

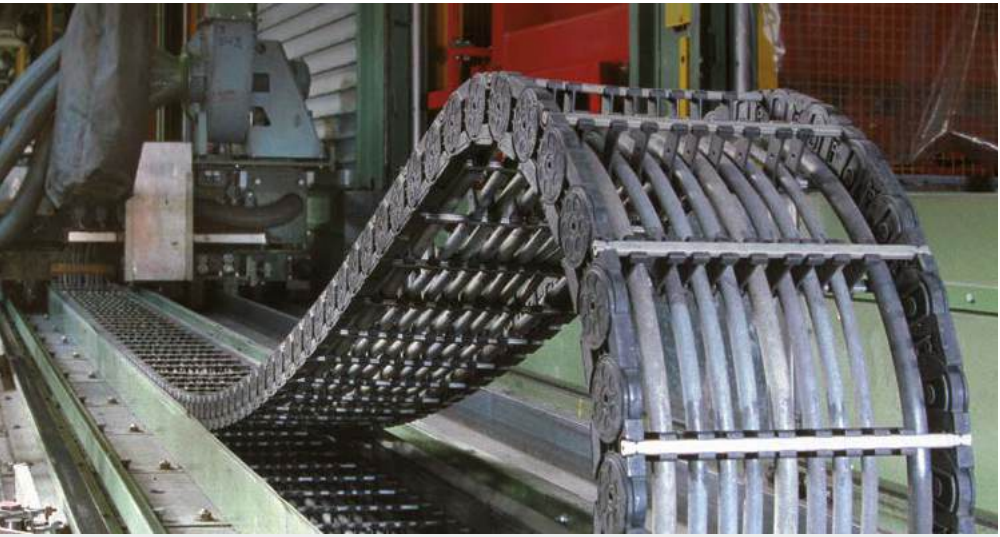
Alu Guide System (TKAL) ..... Seite **886**

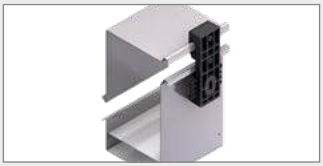
Aluminium guide channels in the modular system

- Modular system with many mounting options.
- Standard lengths and sets.
- Lightweight design for high speeds.

Technical data on p. 868

Subject to change without notice.





Easy Guide System (TKEG) ..... Page **894**

Guide channels for multifunctional use

- Flexible use in many areas of application.
- Made of zinc plated sheet steel or stainless steel.

Vertical Guide System (TKVG) ..... Page **914**

Guide channels for vertical hanging applications

- Ready-to-install channel system made of aluminum.
- Standardized module.
- Easy installation.
- For elevators, storage and retrieval systems and many other applications.

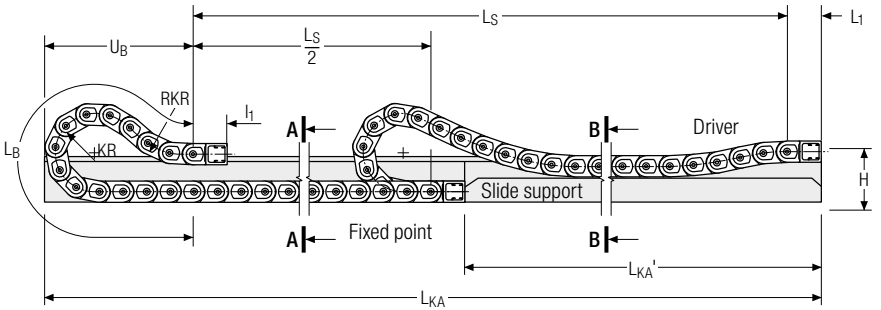
Assembly profiles ..... Page **915**

Assembly profiles for guide channels

- Assembly profiles with sloping sides can be used for all guide channels for fastening
- Lengths in 50 mm grid possible

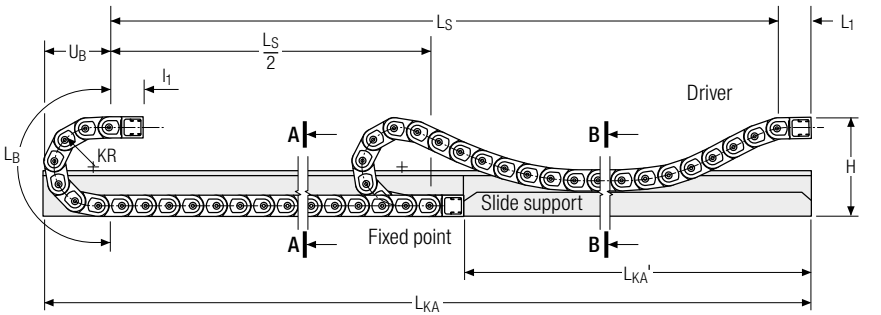
Subject to change without notice.

One-sided arrangement – with lower driver connection and reverse bending radius (standard)



Calculating the channel length	Calculating the connection height	Calculating the slide support length
Channel length L_{KA}	**Connection height H**	**slide support length L_{KA}'**
$L_{KA} = L_S + U_B + L_1$	$H = 3\ h_G$	$L_{KA}' = L_S / 2$

One-sided arrangement – high connection



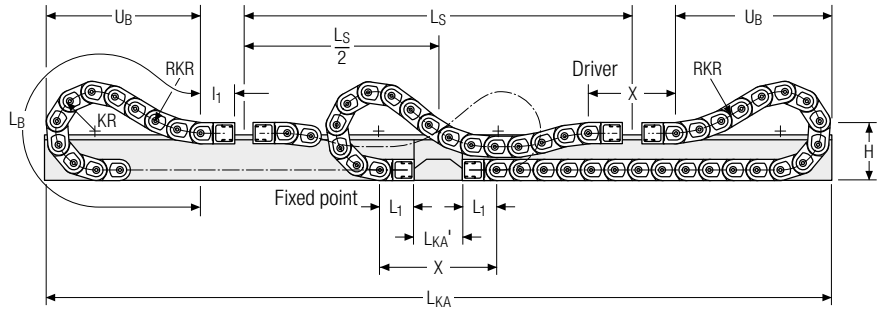
Calculating the channel length	Connection height high connection	Calculating the slide support length
Channel length L_{KA}	**Connection height H**	**slide support length L_{KA}'**
$L_{KA} = L_S + U_B + L_1$	$H = 2 \times KR + h_G$	$L_{KA}' = L_S / 2$

TSUBAKI KABELSCHLEPP Technical Support

Increased wear on the cable carrier can occur in applications with a **high driver connection**. Please use our technical support at technik@kabelschlepp.de for the configuration of your application.
We will be happy to help you.

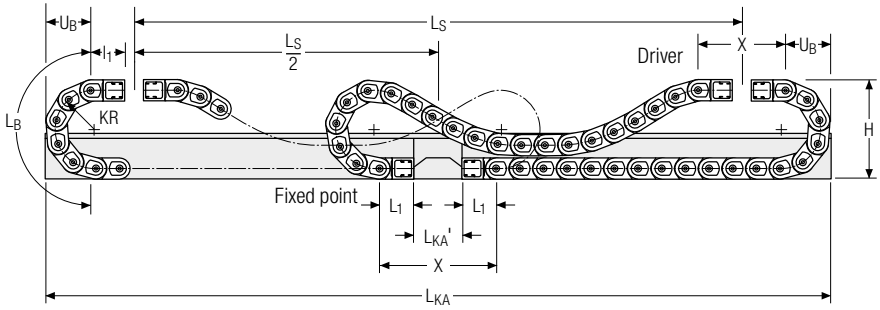
Subject to change without notice.

Opposite arrangement – with lower driver connection and reverse bending radius (standard)



Calculating the channel length	Calculating the connection height	Calculating the slide support length
Channel length L_{KA}	**Connection height H**	**slide support length L_{KA}'**
$L_{KA} = L_S + 2\ U_B + X$	$H = 3\ h_G$	$L_{KA}' = X - 2\ L_1$

Opposite arrangement – high connection



Calculating the channel length	Connection height high connection	Calculating the slide support length
Channel length L_{KA}	**Connection height H**	**slide support length L_{KA}'**
$L_{KA} = L_S + 2\ U_B + X$	$H = 2 \times KR + h_G$	$L_{KA}' = X - 2\ L_1$

Depending on the chain size, the inner channel width is 4-6 mm larger than the width of the guided cable carrier. Depending on the travel length, the connection height of the cable carrier must be reduced. Please contact us! We will be happy to calculate the suitable guide channel for your application.

The calculated channel and support lengths are rounded to a reasonable production or installation dimension of the section lengths. A possible travel reserve must be taken into account. Standard section lengths are specified for each channel design.

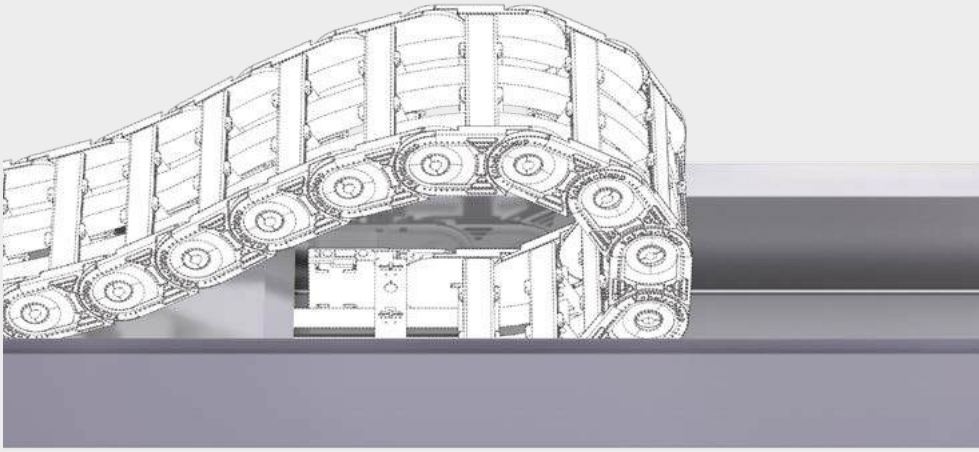
For different distances between the fixed points and drivers in your application please contact us.

Subject to change without notice.

Standard Channel | Overview

Sheet steel guide channels

- Simple version with customized fixing options.
- Zinc plated sheet steel or stainless steel.
- Standard lengths.



Zinc plated sheet steel / stainless steel

Standard lengths 2000 / 3000 mm
Special lengths on request

Features

- Universal installation – the channel side walls do not require aligning as there are no single side walls
- Large support widths through sturdy U-design
- Optionally available as a corrosion resistant, sea water resistant version
- Easy fixing options:
  - standard angle brackets for screwing
  - welded on directly on site
  - different fixing variants

Individual solutions

We can also manufacture customized sheet steel guide channels for your application, taking into account virtually any request regarding customized shapes and fixing options.

Information on dimensions can be found from p. 872

Subject to change without notice.

Standard Channel | Versions

One-sided arrangement

For one-sided arrangement of the cable carrier, the cable carrier slides behind the fixed point on a continuous slide support with run-on bevels.

Closed design

One part channel closed at the bottom and one part slide support with run-on bevels.

Open design

One part channel closed at the bottom and divided slide support with run-on bevels.

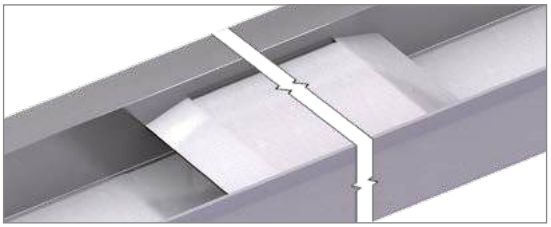
Dirt and liquids can drop through without restrictions.

Opposite arrangement

For opposite arrangement, a slide support is also attached for bridging between the fixed point connections.

Closed design

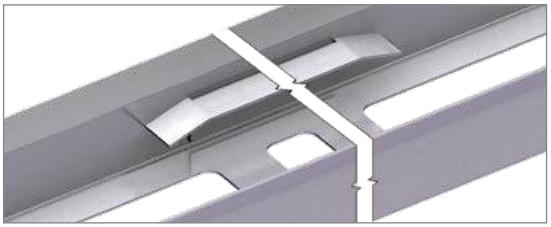
One part channel closed at the bottom and one part slide support with run-on bevels.



Open design

One part channel closed at the bottom and divided slide support with run-on bevels.

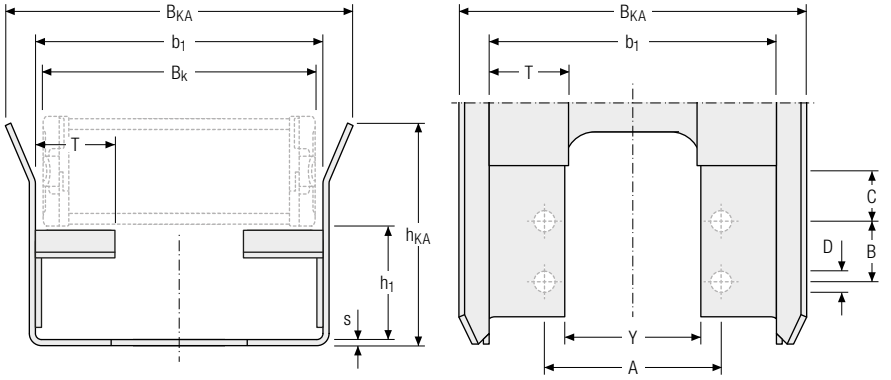
Dirt and liquids can drop through without restrictions.



A special slide support can be adhered to reduce sliding resistance and abrasion between cable carrier and support. We recommend the use of special slide supports for velocities > 0.5 m/s and for frequent move cycles.

Subject to change without notice.

Dimensions



From $h_{KA} \geq 200$ mm, the guide channel flanks are additionally stabilized with alignment flanges or with connecting flanges.

The dimension y refers only to open guide channel versions.

UNIFLEX *Advanced* series

Type	h_1 [mm]	h_{KA} [mm]	b_1 [mm]	B_{KA} [mm]	s [mm]	A [mm]	B [mm]	C [mm]	D [mm]	T* [mm]	Y** [mm]
UA1455 | page 162											
–	36	70 (KR < 100) 125 (KR ≥ 100)	$B_k + 4$	$B_k + 24$	2	$b_1 - 34.0$ (FA-A)	–	40	6.2	30	$b_1 - 65$
						$b_1 - 34.5$ (FA-L)					
			$B_k + 7$			$b_1 - 13.5$ (FU)		50	5.3		$b_1 - 40$
Glide shoes	38.5	70 (KR < 100) 125 (KR ≥ 100)	$B_k + 7$	$B_k + 27$	2	$b_1 - 37.0$ (FA-A)	–	40	6.2	30	$b_1 - 65$
						$b_1 - 37.5$ (FA-A)					
						$b_1 - 16.5$ (FU)		50	5.3		$b_1 - 40$
UA1555 | page 172											
–	50	117 (KR < 200) 200 (KR ≥ 200)	$B_k + 5$	$B_k + 25$	2	$b_1 - 43$ (FA)	–	50	6.5	30	$b_1 - 85$
						$b_1 - 16$ (FU)	22.5		5.3		$b_1 - 40$
Glide shoes	53	117 (KR < 200) 200 (KR ≥ 200)	$B_k + 9$	$B_k + 29$	2	$b_1 - 47$ (FA)	–	50	6.5	30	$b_1 - 85$
						$b_1 - 21$ (FU)	22.5		5.3		$b_1 - 40$
UA1665 | page 182											
–	60	117 (KR < 200) 200 (KR ≥ 200)	$B_k + 5$	$B_k + 25$	2	$b_1 - 47$ (FA)	–	60	8.5	30	$b_1 - 85$
						$b_1 - 14$ (FU)	22.5		5.3		$b_1 - 40$
Glide shoes	63	117 (KR < 200) 200 (KR ≥ 200)	$B_k + 10$	$B_k + 30$	2	$b_1 - 52$ (FA)	–	60	8.5	30	$b_1 - 85$
						$b_1 - 19$ (FU)	22.5		5.3		$b_1 - 40$

The designations for dimension A refer to the version of the cable carrier connection.

* Dimension T for leg length support brackets (guiding channel open type for $B_k \geq 90$ mm).

** Dimension Y for guiding channel open for $B_k \geq 90$ mm).

The cable carrier outer width without attachments B_k is taken into account for calculating the inner width of guide channel b_1 and the overall width B_{KA}.

Subject to change without notice.

UNIFLEX *Advanced* series

Type	h_1 [mm]	h_{KA} [mm]	b_1 [mm]	B_{KA} [mm]	s [mm]	A [mm]	B [mm]	C [mm]	D [mm]	T* [mm]	Y** [mm]
UA1775 | page 196											
–	77	150 (KR < 200) 300 (KR ≥ 200)	$B_k + 5$	$B_k + 25$	2	$b_1 - 19.6$ (FU)	20	60	8.5	30	$b_1 - 60$
Glide shoes	81.5	150 (KR < 200) 300 (KR ≥ 200)	$B_k + 10$	$B_k + 30$	2	$b_1 - 24.6$ (FU)	20	60	8.5	30	$b_1 - 65$
UA1995 | page 204/348											
–	110	150 (KR < 200) 300 (KR ≥ 200)	$B_k + 6$	$B_k + 26$	2	$b_1 - 28$ (FU)	35	60	8.5	30	$b_1 - 60$
Glide shoes	116.5	150 (KR < 200) 300 (KR ≥ 200)	$B_k + 11$	$B_k + 31$	2	$b_1 - 28$ (FU)	35	60	8.5	30	$b_1 - 60$

The designations for dimension A refer to the version of the cable carrier connection.

Dimensions

TKK39 series

Type	h_1 [mm]	h_{KA} [mm]	b_1 [mm]	B_{KA} [mm]	s [mm]	A [mm]	B [mm]	C [mm]	D [mm]	T [mm]	Y [mm]
TKK39 | page 224											
–	50	117	$B_k + 5$	$B_k + 25$	2	$b_1 - 43$	24	40	5.2	30	$b_1 - 40$

The designations for dimension A refer to the version of the cable carrier connection.

K series

When using aluminum hole stays, slide discs have to be placed on the side tabs between cable carrier and channel wall for spacing.

Type	h_1 [mm]	h_{KA} [mm]	b_1 [mm]	B_{KA} [mm]	s [mm]	A [mm]	B [mm]	C [mm]	D [mm]	T [mm]	Y [mm]
K0650 | page 306											
–	57.5	117 (KR < 200) 200 (KR ≥ 200)	$B_k + 5$	$B_k + 25$	2	$b_1 - 19$ (FU)	40	30	6.5	30	$b_1 - 65$
Slide discs	57.5	117 (KR < 200) 200 (KR ≥ 200)	$B_k + 13$	$B_k + 33$	2	$b_1 - 27$ (FA) $b_1 - 27$ (FU)	40	30	6.5	30	$b_1 - 65$
K0900 | page 322											
–	78.5	150 (KR < 200) 300 (KR ≥ 200)	$B_k + 5$	$B_k + 25$	2	$b_1 - 20.5$ (FU)	50	30	6.5	30	$b_1 - 65$
Slide discs	78.5	150 (KR < 200) 300 (KR ≥ 200)	$B_k + 19$	$B_k + 39$	2	$b_1 - 34.0$ (FA) $b_1 - 34.5$ (FU)	50	30	6.5	30	$b_1 - 75$

The designations for dimension A refer to the version of the cable carrier connection.

The cable carrier outer width without attachments B_k is taken into account for calculating the inner width of guide channel b_1 and the overall width B_{KA}.

Subject to change without notice.

Dimensions

M series

Type	h_1 [mm]	h_{KA} [mm]	b_1 [mm]	B_{KA} [mm]	s [mm]	A [mm]	B [mm]	C [mm]	D [mm]	T [mm]	Y [mm]
M0475 | page 372											
Glide shoes	41.5	70 (KR < 100) 125 (KR ≥ 100)	$B_k + 4$	$B_k + 24$	2	$b_1 - 39.0$ (FI)	24	30	6.5	30	$b_1 - 55$
M0650 | page 380											
Glide shoes	60.6	117 (KR < 200) 200 (KR ≥ 200)	$B_k + 5$	$B_k + 25$	2	$b_1 - 55$ (FAI) $b_1 - 24$ (FU)	30 22.5	30	6.5	30	$b_1 - 70$
Offroad glide shoes	62.2	117 (KR < 200) 200 (KR ≥ 200)	$B_k + 5$	$B_k + 25$	2	$b_1 - 55$ (FAI) $b_1 - 24$ (FU)	30 22.5	30	6.5	30	$b_1 - 65$
M0950 | page 400											
Glide shoes	83.5	150 (KR < 200) 300 (KR ≥ 200)	$B_k + 5$	$B_k + 25$	2	$b_1 - 70.0$ (FAI) $b_1 - 19.5$ (FU)	40 35	30	8.5	30	$b_1 - 100$ $b_1 - 60$
Offroad glide shoes	86	150 (KR < 200) 300 (KR ≥ 200)	$B_k + 5$	$B_k + 25$	2	$b_1 - 70.0$ (FAI) $b_1 - 19.5$ (FU)	40 35	30	8.5	30	$b_1 - 100$ $b_1 - 60$
M1250 | page 428											
Glide shoes	99.5	200 (KR < 300) 400 (KR ≥ 300)	$B_k + 6$	$B_k + 26$	3	$b_1 - 83$ (FAI) $b_1 - 23$ (FU)	50 35	30	10.5 11	30	$b_1 - 125$ $b_1 - 65$
Offroad glide shoes	103	200 (KR < 300) 400 (KR ≥ 300)	$B_k + 6$	$B_k + 26$	3	$b_1 - 83$ (FAI) $b_1 - 23$ (FU)	50 35	30	10.5 11	30	$b_1 - 125$ $b_1 - 65$
M1300 | page 416											
–	120	250 (KR < 320) 400 (KR ≥ 320)	$B_k + 6$	$B_k + 26$	3	$b_1 - 27$ (FU)	35	30	11	40	$b_1 - 75$
Glide shoes	127	250 (KR < 320) 400 (KR ≥ 320)	$B_k + 6$	$B_k + 26$	3	$b_1 - 27$ (FU)	35	30	11	40	$b_1 - 75$

The designations for dimension A refer to the version of the cable carrier connection.

Our engineers will be happy to help with your project planning – please contact us.

The cable carrier outer width without attachments B_k is taken into account for calculating the inner width of guide channel b_1 and the overall width B_{KA}.

Subject to change without notice.

Dimensions

TKHP series

Type	h_1 [mm]	h_{KA} [mm]	b_1 [mm]	B_{KA} [mm]	s [mm]	A [mm]	B [mm]	C [mm]	D [mm]	T [mm]	Y [mm]
TKHP85 | page 468											
Glide shoes	90.5	200 (KR < 350) 400 (KR ≥ 350)	$B_k + 6$	$B_k + 26$	2	$b_1 - 100$ (FAI)	80	45	12	40	$b_1 - 80$
TKHP85-R + TKHP85-RSD | page 480											
–	–	200 (KR < 350) 400 (KR ≥ 350)	$B_k + 6$	$B_k + 26$	2	$b_1 - 100$ (FAI)	80	45	12	40	$b_1 - 80$
TKHP90 | page 474											
Glide shoes	127.5	200 (KR < 310) 400 (KR ≥ 310)	$B_k + 6$	$B_k + 26$	2	$b_1 - 96$ (FAI)	40	40	12	65	$b_1 - 65$
TKHP90-R + TKHP90-RSD | page 486											
–	–	200 (KR < 310) 400 (KR ≥ 310)	$B_k + 6$	$B_k + 26$	2	$b_1 - 96$ (FAI)	40	40	12	65	$b_1 - 65$

The designations for dimension A refer to the version of the cable carrier connection.

XL | XLT series

Type	h_1 [mm]	h_{KA} [mm]	b_1 [mm]	B_{KA} [mm]	s [mm]	A [mm]	B [mm]	C [mm]	D [mm]	T [mm]	Y [mm]
XL1650 | page 496											
–	140	300 (KR < 350) 400 (KR ≥ 350)	$B_k + 6$	$B_k + 26$	3	$b_1 - 99$ (FAI)	50	40	13.5	40	$b_1 - 130$
Glide shoes	147	300 (KR < 350) 400 (KR ≥ 350)	$B_k + 6$	$B_k + 26$	3	$b_1 - 99$ (FAI)	50	40	13.5	40	$b_1 - 130$

The designations for dimension A refer to the version of the cable carrier connection.

The cable carrier outer width without attachments B_k is taken into account for calculating the inner width of guide channel b_1 and the overall width B_{KA}.

Information on the fixing options for the standard channel can be found on page 878

Subject to change without notice.

Dimensions

QUANTUM® series

Type	h_1 [mm]	h_{KA} [mm]	b_1 [mm]	B_{KA} [mm]	s [mm]	A [mm]	B [mm]	C [mm]	D [mm]	T [mm]	Y [mm]
Q040 | page 506											
–	40	70 (KR < 110) 125 (KR ≥ 110)	$B_k + 4$	$B_k + 24$	2	$b_1 - 18$ (FU)	14	30	6.6	40	$b_1 - 35$
Q60 | page 512											
Glide shoes	66	117 (KR < 190) 200 (KR ≥ 190)	$B_k + 9$	$B_k + 29$	2	$b_1 - 29$ (FU)	29	30	6.6	40	$b_1 - 45$
Q080 | page 522											
Glide shoes	88	150 (KR < 200) 300 (KR ≥ 200)	$B_k + 13$	$B_k + 33$	2	$b_1 - 38$ (FU)	35	40	9	40	$b_1 - 70$
Q100 | page 536											
Glide shoes	108	250 (KR < 300) 400 (KR ≥ 300)	$B_k + 13$	$B_k + 33$	2	$b_1 - 43$ (FU)	35	40	11	40	$b_1 - 105$

The designations for dimension A refer to the version of the cable carrier connection.

TKA series

Type	h_1 [mm]	h_{KA} [mm]	b_1 [mm]	B_{KA} [mm]	s [mm]	A [mm]	B [mm]	C [mm]	D [mm]	T [mm]	Y [mm]
TKA30 | page 590											
–	29.15	70 (KR < 95) 125 (KR ≥ 95)	$B_k + 4$	$B_k + 24$	2	$b_1 - 31$ (FU)	–	50	6.5	–	–
TKA38 | page 596											
–	36.75	70 (KR < 95) 125 (KR ≥ 95)	$B_k + 4$	$B_k + 24$	2	$b_1 - 10.5$ (FU)	–	50	4.5	25	$b_1 - 55$
TKA45 | page 602											
–	51	117 (KR < 200) 200 (KR ≥ 200)	$B_k + 5$	$B_k + 25$	2	$b_1 - 12$ (FU)	–	50	5.5	25	$b_1 - 60$
TKA55 | page 610											
–	65	117 (KR < 200) 200 (KR ≥ 200)	$B_k + 5$	$B_k + 25$	2	$b_1 - 16$ (FU)	–	60	5.5	25	$b_1 - 75$

The designations for dimension A refer to the version of the cable carrier connection.

The cable carrier outer width without attachments B_k is taken into account for calculating the inner width of guide channel b_1 and the overall width B_{KA}.

Subject to change without notice.

Dimensions

UAT series

Type	h_1 [mm]	h_{KA} [mm]	b_1 [mm]	B_{KA} [mm]	s [mm]	A [mm]	B [mm]	C [mm]	D [mm]	T [mm]	Y [mm]
UAT1555 | page 622											
–	69	117 (KR < 200) 200 (KR ≥ 200)	$B_k + 5$	$B_k + 25$	2	$b_1 - 15$ (FU)	25 40	40	5.5	30	$b_1 - 80$

The designations for dimension A refer to the version of the cable carrier connection.

S/SX series | S/SX tubes

Type	h_1 [mm]	h_{KA} [mm]	b_1 [mm]	B_{KA} [mm]	s [mm]	A [mm]	B [mm]	C [mm]	D [mm]	T [mm]	Y [mm]
S/SX 0650 | page 748											
Glide shoes	56	125 (KR ≤ 155) 200 (KR > 155	$B_k + 10$	$B_k + 30$	2	$b_1 - 47$	45	15	6.4	30	$b_1 - 70$
S/SX 0950 | page 758											
Glide shoes	73	150 (KR ≤ 200) 300 (KR > 200)	$B_k + 14$	$B_k + 34$	2	$b_1 - 77$	65	20	8.4	30	$b_1 - 100$
S/SX 1250 | page 770											
Glide shoes	99	200 (KR ≤ 300) 400 (KR > 300)	$B_k + 12$	$B_k + 32$	3	$b_1 - 76$	80	25	10.5	30	$b_1 - 100$
Offroad glide shoes	104	200 (KR ≤ 300) 400 (KR > 300)	$B_k + 12$	$B_k + 32$	3	$b_1 - 76$	80	25	10.5	50	$b_1 - 100$
S/SX 1800 | page 794											
Glide shoes	155	300 (KR ≤ 435) 500 (KR > 435)	$B_k + 17$	$B_k + 37$	3	$b_1 - 94$	115	30	13	50	$b_1 - 120$

The designations for dimension A refer to the version of the cable carrier connection.

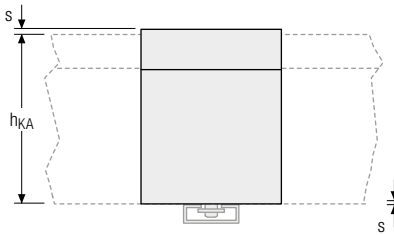
The cable carrier outer width without attachments B_k is taken into account for calculating the inner width of guide channel b_1 and the overall width B_{KA}.

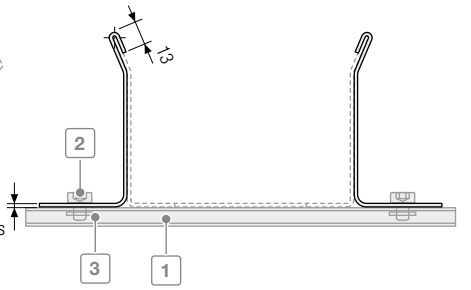
Subject to change without notice.

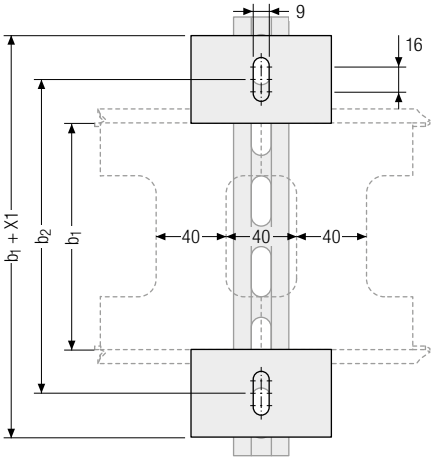
Standard fixing with angle brackets (standard)

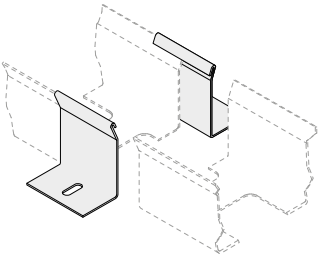
The angle brackets are mounted at the joins, ensuring precise connection of the joint areas in addition to fixing the channel to the substructure.

- Optimum alignment of the joins
- Reduced installation times
- Minimum number of screw connections
- Reliable fixing, even under rough conditions









The figure shows an open channel version

s [mm]	X1 [mm]	b_2 [mm]
2	104	$b_1 + 54$
3	106	$b_1 + 56$

The sheet metal thickness “s” corresponds to the respective wall thickness “s” of the channel.

As a standard, the angle brackets included with the delivery are installed on all joins as well as at both ends of a channel. If you require more angle brackets beyond this, please state this when ordering.

Calculating C-profile length

C-profile length L_P

$L_P = b_1 + 106$

C-profile length L_P rounded to 50 mm

Suitable perforated C-profiles can be found from page 915

Fixing kit (optional)

The delivery scope of the standard channel does not include the optional joining clamp fixing kit.

Fixing kit
1 C-rail (length depends on b_1)
2 Hexagon socket screws
3 Slide nut

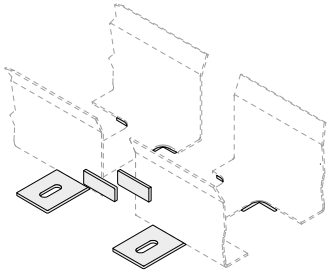
The length of the C-rail depends on the channel width and is supplied in standard lengths. Please contact us if you require custom lengths.

Subject to change without notice.

Fixing with alignment flanges and floor fixing plate

The fixing tabs are mounted at the joins, ensuring precise connection of the joint areas in addition to fixing the channel to the substructure.

- Optimum alignment of the joins
- Reduced installation times
- Minimum number of screw connections
- Push-to-connect system



C-profile length L_P

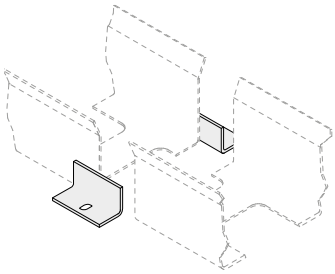
C-profile length L_P rounded to 50 mm

$L_P = b_1 + 105$

Fixing with floor fixing bracket

The floor fixing brackets are mounted at the joins, ensuring precise connection of the joint areas in addition to fixing the channel to the substructure.

- Easy alignment of the joins
- Reduced installation times
- Minimized number of screw connections



C-profile length L_P

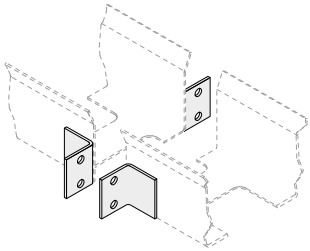
C-profile length L_P rounded to 50 mm

$L_P = b_1 + 66$

Fixing with lateral connecting flange

The unsupported connecting flanges are mounted at the joins, ensuring precise connection of the joint areas in addition to fixing the channel to the substructure.

- Unsupported joins without support (self supporting) through flange connections
- Reliable, secure connection even with extreme vibrations or in un-supported channel arrangements



Order

Standard channel

To order the standard channel, please provide the following information:

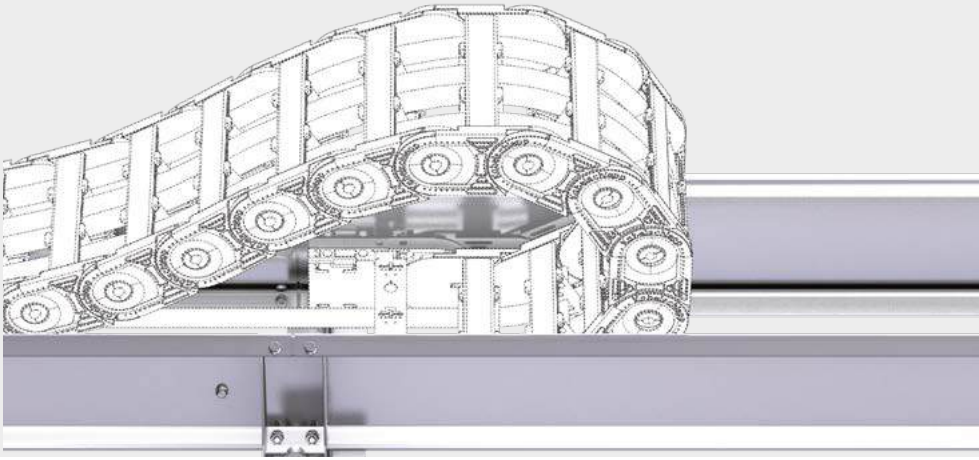
- Number of guide channels
- Material
- Version of guide channel
- Part length
- Total length of channel
- Slide support length L_{KA}'
- Floor fixing
- Join connection
- Slide support height h_1
- Outer height of guide channel h_{KA}
- inner width of guide channel b_1

Subject to change without notice.

Steel Guide System (TKSG) | Overview

Guide channels in the modular system

- Modular system with optimized design for long travel lengths.
- Available in zinc plated sheet steel or stainless steel.
- Easy installation.



Zinc plated sheet steel / stainless steel

Standard lengths 1000 / 2000 mm
Special lengths on request

Features

- Especially suitable for cranes and applications with long travel lengths
- Simple design for short installation times
- No accumulation of dirt through open construction
- Fast and easy installation thanks to pre-assembled sidebands and channel brackets
- Complete system for screw-fitting
- All components without welds

Subject to change without notice.

Steel Guide System (TKSG) | Versions

One-sided arrangement

For one-sided arrangement of the cable carrier, the cable carrier slides behind the fixed point on a continuous slide support with run-off bevels.

Open design

Channel profile with and without slide supports incl. run-on bevels.

Dirt and liquids can drop through without restrictions.

Opposite arrangement

For opposite arrangement, a slide support is also attached for bridging between the fixed point connections.

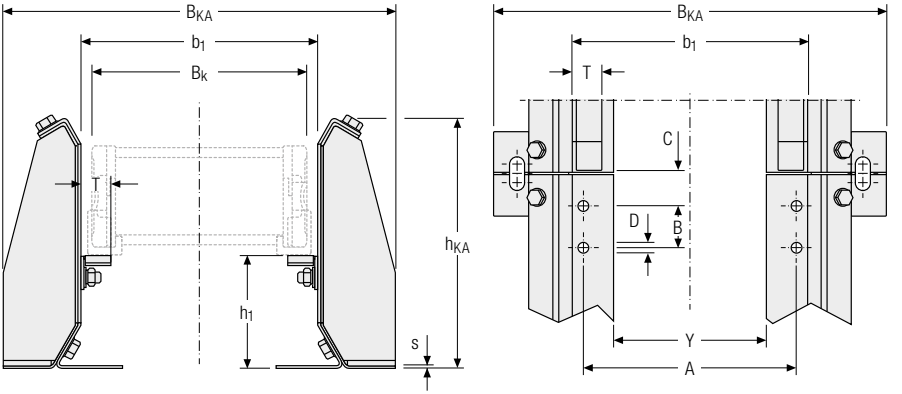
Open design

Channel profile with and without slide supports incl. run-on bevels.

Dirt and liquids can drop through without restrictions.

Subject to change without notice.

Dimensions



Dimensions

UNIFLEX *Advanced*

Type	h_1 [mm]	h_{KA} [mm]	b_1 [mm]	B_{KA} [mm]	s [mm]	A [mm]	B [mm]	C [mm]	D [mm]	T [mm]	Y [mm]
UA1555 | page 172											
Glide shoes	53	124	$B_k + 9$	$B_k + 139$	2	$b_1 - 47$ (FA) $b_1 - 21$ (FU)	– 22.5	25 22.5	6.4 5.5	24	$b_1 - 69$
UA1665 | page 182											
Glide shoes	63.5	124 (KR < 200) 176 (KR ≥ 200)	$B_k + 10$	$B_k + 140$	2	$b_1 - 52$ (FA) $b_1 - 19$ (FU)	– 22.5	30.5 25	8.4 5.5	24 25	$b_1 - 69$ $b_1 - 66$
UA1775 | page 196											
Glide shoes	83.5	176 (KR < 200) 209 (KR ≥ 200)	$B_k + 10$	$B_k + 140$	2	$b_1 - 52$ (FA) $b_1 - 19$ (FU)	20	30	8.5	25	$b_1 - 66$ $b_1 - 70$
UA1995 | page 204/348											
Glide shoes	116.5	258	$B_k + 11$	$B_k + 141$	2	$b_1 - 28$ (FU)	35	30	8.5	50	$b_1 - 100$

M series

Type	h_1 [mm]	h_{KA} [mm]	b_1 [mm]	B_{KA} [mm]	s [mm]	A [mm]	B [mm]	C [mm]	D [mm]	T [mm]	Y [mm]
M0650 | page 380											
Glide shoes	60.5	124 (KR < 200) 176 (KR ≥ 200)	$B_k + 5$	$B_k + 135$	2	$b_1 - 55$ (FAI)	30	25	6.4	24 25	$b_1 - 69$ $b_1 - 66$
Offroad glide shoes	63.5					$b_1 - 24$ (FU)	22.5	30.5	6.5		

The cable carrier outer width without attachments B_k is taken into account for calculating the inner width of guide channel b_1 and the overall width B_{KA}.

The dimension A refers only to the connection holes.

Subject to change without notice.

Dimensions

M series

Type	h_1 [mm]	h_{KA} [mm]	b_1 [mm]	B_{KA} [mm]	s [mm]	A [mm]	B [mm]	C [mm]	D [mm]	T [mm]	Y [mm]
M0950 | page 400											
Glide shoes	83.5	176 (KR < 200) 209 (KR ≥ 200)	$B_k + 5$	$B_k + 135$	2	$b_1 - 70$ (FAI)	40	30	8.4	25	$b_1 - 66$ $b_1 - 70$
Offroad glide shoes	86.5					$b_1 - 19.5$ (FU)	35	34.5	8.5		
M1250 | page 428											
Glide shoes	99.5	209 (KR < 300) 258 (KR ≥ 300)	$B_k + 6$	$B_k + 136$	2	$b_1 - 83$ (FAI)	50	35	10.5	50	$b_1 - 70$ $b_1 - 90$
Offroad glide shoes	103					$b_1 - 23$ (FU)	35	40.5	11		
M1300 | page 416											
Glide shoes	127.5	258	$B_k + 6$	$B_k + 136$	2	$b_1 - 27$ (FU)	35	30	11	50	$b_1 - 90$

TKHP series

Type	h_1 [mm]	h_{KA} [mm]	b_1 [mm]	B_{KA} [mm]	s [mm]	A [mm]	B [mm]	C [mm]	D [mm]	T [mm]	Y [mm]
TKHP85 | page 468											
Glide shoes	90.5	209	$B_k + 6$	$B_k + 136$	2	$b_1 - 100$ (FAI)	80	25	12	35	$b_1 - 70$
TKHP90 | page 474											
Glide shoes	127.5	258	$B_k + 6$	$B_k + 136$	2	$b_1 - 96$ (FAI)	40	25	12	50	$b_1 - 90$
TKHP85-R + TKHP85-RSD | page 480											
–	84	209	$B_k + 6$	$B_k + 136$	2	$b_1 - 100$ (FAI)	80	25	12	35	$b_1 - 70$
TKHP90-R + TKHP90-RSD | page 486											
–	117	258	$B_k + 6$	$B_k + 136$	2	$b_1 - 96$ (FAI)	40	25	12	50	$b_1 - 90$

S/SX series

Type	h_1 [mm]	h_{KA} [mm]	b_1 [mm]	B_{KA} [mm]	s [mm]	A [mm]	B [mm]	C [mm]	D [mm]	T [mm]	Y [mm]
S/SX0650 | page 748											
Glide shoes	56	124	$B_k + 10$	$B_k + 140$	2	$b_1 - 47$ (FAI)	45	25	6,4	24	$b_1 - 69$
S/SX0950 | page 758											
Glide shoes	73	176	$B_k + 10$	$B_k + 140$	2	$b_1 - 77$ (FAI)	65	30	8,4	27	$b_1 - 66$
S/SX1250 | page 770											
Offroad glide shoes	103	209 (KR < 350) 258 (KR ≥ 350)	$B_k + 12$	$B_k + 142$	2	$b_1 - 76$ (FAI)	80	35	10,5	50	$b_1 - 100$
S/SX1252 | page 770											
Offroad glide shoes	103	209 (KR < 350) 258 (KR ≥ 350)	$B_k + 12$	$B_k + 142$	2	$b_1 - 76$ (FAI)	80	35	10,5	50	$b_1 - 100$

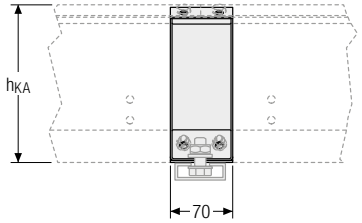
The cable carrier outer width without attachments B_k is taken into account for calculating the inner width of guide channel b_1 and the overall width B_{KA}.

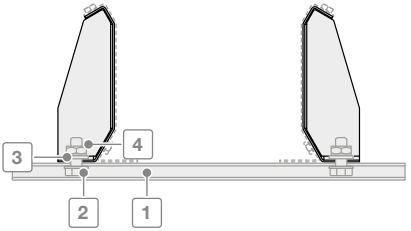
Subject to change without notice.

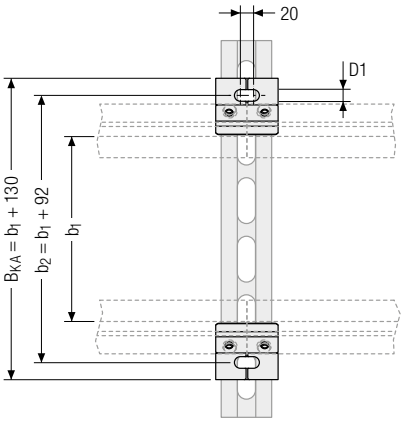
Fixing with channel brackets

The channel brackets are mounted at the joins, ensuring precise connection of the joins in addition to fixing the channel to the substructure.

- Optimum alignment of the joins
- Reduced installation times
- No welds
- Minimum number of screw connections
- Reliable fixing under rough conditions
- High stability







h_{KA} [mm]	D1 [mm]	s [mm]
123	11	2
175	11	2
208	11	2
257	11	2

The sheet metal thickness “s” corresponds to the respective wall thickness “s” of the channel.

As a standard, the channel brackets included with the delivery are installed on all joins as well as at both ends of a channel. If you require more channel brackets beyond this, please state this when ordering.

Calculating C-profile length

C-profile length L_P
$L_P = B_{KA} + 50$ mm
C-profile length L_P rounded to 50 mm

Suitable perforated C-profiles can be found from page 915

Fixing material (optional)

The delivery scope of the Steel Guide System (TKSG) does not include the optional joining clamp fixing kit.

Fixing material
1 C-rail (length depends on b_1)
2 T-head bolt M10
3 Hex nut
4 Washer

Order

To order the Steel Guide System (TKSG), please provide the following information:

- Number of guide channels
- Total length of channel
- Support length L_{KA}'
- Ouer height of guide channel h_{KA}
- Inner width of guide channel b_1
- Material
- Support height h_1
- Delivery (unmounted/mounted)
- Fixing with or without C-profile

Subject to change without notice.

Channel Enclosure | Overview

Cover for guide channels

Protection against external influences: Maintenance-friendly enclosure

- Easy inspection of the cable carrier.
- Openable at any position.
- Protection of the cable carrier system against external influences (coarse dirt, falling parts, snow, ice).
- Disassembly without screws.
- To open without tools.
- Secured against accidental closing in opening position.
- Can be used with any TSUBAKI KABELSCHLEPP channel system.
- Modular design.

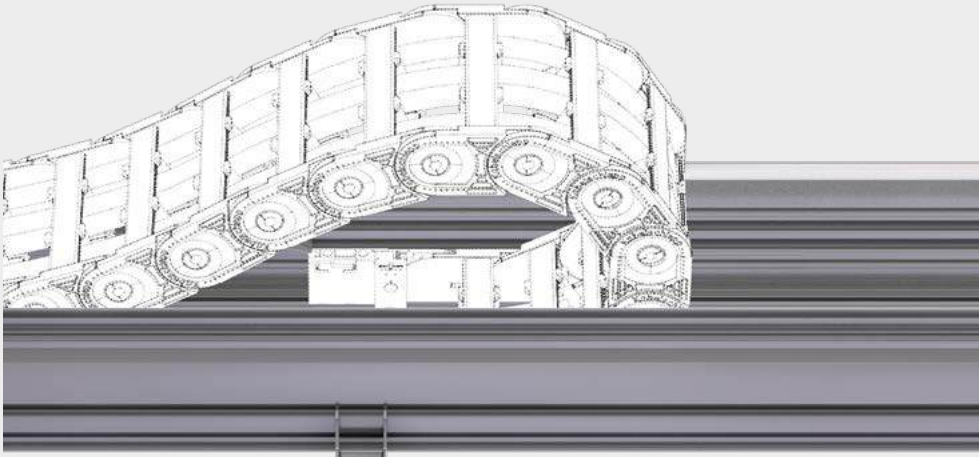
Our engineers will be happy to help with your project planning – please contact us.

Subject to change without notice.

Alu Guide System (TKAL) | Overview

Aluminium guide channels in the modular system

- Modular system with many mounting options.
- Standard lengths and sets.
- Lightweight design for high speeds.
- Slide and roller support made of high-quality plastic.



Channel side wall
Al alloy

Standard lengths 1000 / 2000 mm
Special lengths on request

Features

- Safe operation on long travel length
- Seawater resistant
- Twin channel connectors for parallel arrangement of several channels
- Standard- and Heavy-Duty-Version
- Variable fixation in standard stainless steel
- UMB mounting kit for assembly of the cable carrier

The Alu Guide System (TKAL) for long travel applications and high loads ensures secure guidance and smooth running of the energy chain in a gliding and rolling application.

The standardized channel profiles of 1000 / 2000 mm in length can be individually adjusted to the width of the chain. They can be quickly and easily be installed with the help of a mounting kit. Such UMB mounting kits are also available for attaching the fixed-point of the energy chain.

The optional damping band additionally reduces noise emission and guarantees an even quieter running of the chain.

TSUBAKI KABELSCHLEPP also offer the Alu Guide System (TKAL) together with the appropriate energy chain as well as with the ready-to-install TOTALTRAX® System including cables.

Assembly instruction

Subject to change without notice.

Alu Guide System (TKAL) | Versions

One-sided arrangement

For One-sided arrangement of the cable carrier, the cable carrier slides behind the fixed point on a slide support with run-on bevels.

Open design

Channel with and without supports incl. run-on bevels.

Dirt and water can drop through without restrictions.

Opposite arrangement

For opposite arrangement, a slide support with a minimum length of 500 mm is also attached for bridging between the fixed point connections.

Open design

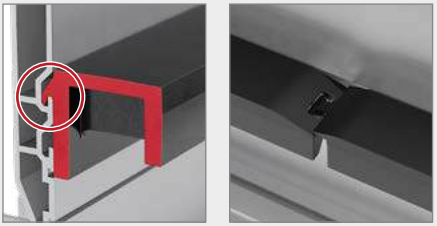
Channel with and without supports incl. run-on bevels.

Dirt and water can drop through without restrictions.

Glide and roll support made of plastic

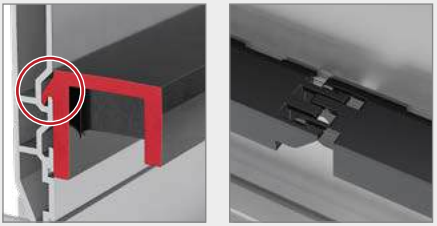
Glide support

- Simple and quick mounting by hooking in
- Slip-free hold in channel fastening groove
- 500 mm long, loadable up to 100 kg
- Compensation of linear expansion by toothing at the joints – continuous glide surface
- Optimized, rounded approach slope without bend



Roll support (TKAL 254/274)

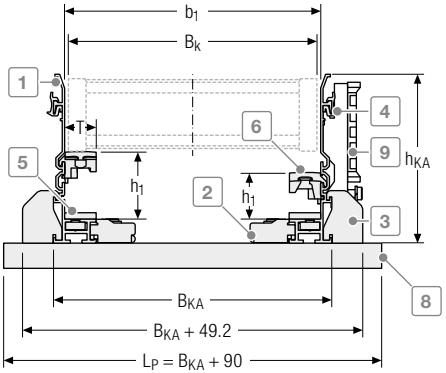
- Simple and quick mounting by hooking in
- Slip-free hold in channel fastening groove
- 500 mm long, loadable up to 100 kg
- Compensation of linear expansion by toothing at the joints – continuous roll surface
- Minimal noise emission



Subject to change without notice.

Dimensions

TKAL 134



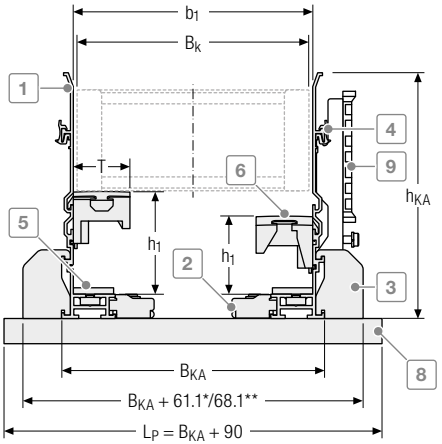
1 Channel profile
2 Internal mounting kit
3 External mounting kit
4 Joint connectors
5 Damping band (optional)
6 Stable gliding support made of plastic
7 Stable roller support made of plastic
8 C-Rail
9 Strain relief holder kit

Using holder inside double-sided
b_1 min.: 118 mm.

Using holder outside double-sided
b_1 min.: 50 mm.

C-profile length L_P rounded to 50 mm

TKAL 195



1 Channel profile
2 Internal mounting kit
3 External mounting kit
4 Joint connectors
5 Damping band (optional)
6 Stable gliding support made of plastic
7 Stable roller support made of plastic
8 C-Rail
9 Strain relief holder kit

Using holder inside double-sided
b_1 min.: 134 mm.

Using holder outside double-sided
b_1 min.: 90 mm.

C-profile length L_P rounded to 50 mm

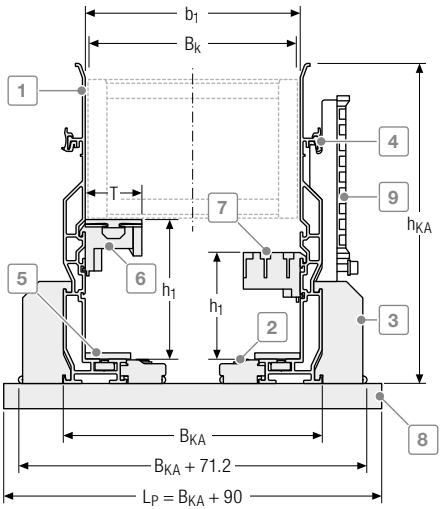
* for C-profiles 3938/3939 ** for C-profiles 3940/3941

As a standard, the mounting kits included with the delivery are installed on all joins as well as at both ends of a channel. If you require more angle brackets beyond this, please state this when ordering.

Subject to change without notice.

Dimensions

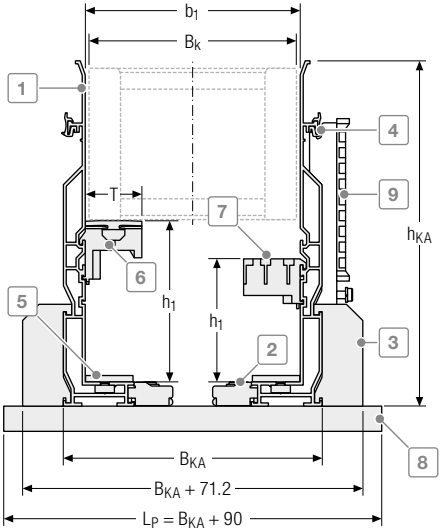
TKAL 254



1 Channel profile
2 Internal mounting kit
3 External mounting kit
4 Joint connectors
5 Damping band (optional)
6 Stable gliding support made of plastic
7 Stable roller support made of plastic
8 C-Rail
9 Strain relief holder kit

Using holder inside double-sided
b_1 min.: 134 mm.
Using holder outside double-sided
b_1 min.: 90 mm.
C-profile length L_P rounded to 50 mm

TKAL 274



1 Channel profile
2 Internal mounting kit
3 External mounting kit
4 Joint connectors
5 Damping band (optional)
6 Stable gliding support made of plastic
7 Stable roller support made of plastic
8 C-Rail
9 Strain relief holder kit

Using holder inside double-sided
b_1 min.: 146 mm.
Using holder outside double-sided
b_1 min.: 90 mm.
C-profile length L_P rounded to 50 mm

As a standard, the mounting kits included with the delivery are installed on all joins as well as at both ends of a channel. If you require more angle brackets beyond this, please state this when ordering.

Subject to change without notice.

Alu Guide System (TKAL) | Dimensions

UNIFLEX *Advanced* series

Type	Channel type	h_1 [mm]	h_{KA} [mm]	b_1 [mm]	b_2 [mm]	b_3 [mm]	B_{KA} [mm]	T [mm]
UA1455 | page 162								
Glide shoes	134	40	**134**	**$B_k + 7$**	$B_k + 50$	$B_k - 69$	$B_k + 25$	25
UA1555 | page 172								
Glide shoes	134	53	**134**	**$B_k + 9$**	$B_k + 52$	$B_k - 67$	$B_k + 27$	25
UA1665 | page 182								
Glide shoes	195	61,5	**195**	**$B_k + 10$**	$B_k + 60,15$	$B_k - 82.4$	$B_k + 28,6$	45
UA1775 | page 196								
Glide shoes	195	81	**195**	**$B_k + 9$**	$B_k + 59,15$	$B_k - 83.4$	$B_k + 27,6$	45
UA1995 | page 204								
Glide shoes	254	116	**254**	**$B_k + 10,4$**	$B_k + 71,9$	$B_k - 81$	$B_k + 45$	45

K series

Type	Channel type	h_1 [mm]	h_{KA} [mm]	b_1 [mm]	b_2 [mm]	b_3 [mm]	B_{KA} [mm]	T [mm]
K0650 | page 306								
–	134	56,5	**134**	**$B_k + 5$**	$B_k + 48$	$B_k - 71$	$B_k + 23$	25
Slide discs	134	56,5	**134**	**$B_k + 13$**	$B_k + 56$	$B_k - 63$	$B_k + 31$	25
K0900 | page 322								
–	195	81	**195**	**$B_k + 5$**	$B_k + 55,15$	$B_k - 87.4$	$B_k + 23.6$	25
Slide discs	195	81	**195**	**$B_k + 19$**	$B_k + 69,15$	$B_k - 73.4$	$B_k + 37.6$	45

M series

Type	Channel type	h_1 [mm]	h_{KA} [mm]	b_1 [mm]	b_2 [mm]	b_3 [mm]	B_{KA} [mm]	T [mm]
M0650 | page 380								
Glide shoes	195	61.5	**195**	**$B_k + 5$**	$B_k + 55.15$	$B_k - 87.4$	$B_k + 23.6$	45
Offroad glide shoes	195	61.5	**195**	**$B_k + 5$**	$B_k + 55.15$	$B_k - 87.4$	$B_k + 23.6$	45
M0950 | page 400								
Offroad glide shoes	195	86	**195**	**$B_k + 5$**	$B_k + 55.15$	$B_k - 87.4$	$B_k + 23.6$	45
M1250 | page 428								
Offroad glide shoes	274	103	**274**	**$B_k + 6$**	$B_k + 67.5$	$B_k - 97.4$	$B_k + 40.6$	45
M1300 | page 416								
Glide shoes	274	127.5	**274**	**$B_k + 6$**	$B_k + 67.5$	$B_k - 97.4$	$B_k + 40.6$	45

The cable carrier outer width without attachments B_k is taken into account for calculating the inner width of guide channel b_1 and the overall width B_{KA}.

Our engineers will be happy to help with your project planning – please contact us.

Subject to change without notice.

TKHP series

Type	Channel type	h_1 [mm]	h_{KA} [mm]	b_1 [mm]	b_2 [mm]	b_3 [mm]	B_{KA} [mm]	T [mm]
TKHP85 | page 468								
Glide shoes	254	90	**254**	**$B_k + 6$**	$B_k + 67.5$	$B_k - 85.4$	$B_k + 40.6$	45
TKHP90 | page 474								
Glide shoes	274	127.5	**274**	**$B_k + 6$**	$B_k + 67.5$	$B_k - 97.4$	$B_k + 40.6$	45
TKHP85-R + TKHP85-RSD | page 480								
–	254	84.5	**254**	**$B_k + 6$**	$B_k + 67.5$	$B_k - 85.4$	$B_k + 40.6$	45
TKHP90-R + TKHP90-RSD | page 486								
–	274	117	**274**	**$B_k + 6$**	$B_k + 67.5$	$B_k - 97.4$	$B_k + 40.6$	45

QUANTUM® series

Type	Channel type	h_1 [mm]	h_{KA} [mm]	b_1 [mm]	b_2 [mm]	b_3 [mm]	B_{KA} [mm]	T [mm]
Q040 | page 506								
–	134	40	**134**	**$B_k + 4$**	$B_k + 47$	$B_k - 72$	$B_k + 22$	25
Q060 | page 512								
Glide shoes	195	66.5	**195**	**$B_k + 9$**	$B_k + 59.15$	$B_k - 83.4$	$B_k + 27.6$	45
Q080 | page 522								
Glide shoes	195	86	**195**	**$B_k + 13$**	$B_k + 63.15$	$B_k - 79.4$	$B_k + 31.6$	45
Q100 | page 536								
Glide shoes	274	108	**274**	**$B_k + 13$**	$B_k + 74.5$	$B_k - 90.4$	$B_k + 47.6$	45

TKA series

Type	Channel type	h_1 [mm]	h_{KA} [mm]	b_1 [mm]	b_2 [mm]	b_3 [mm]	B_{KA} [mm]	T [mm]
TKA38 | page 596								
–	134	36.5	**134**	**$B_k + 4$**	$B_k + 47$	$B_k - 72$	$B_k + 22$	25
TKA45 | page 602								
–	134	53	**134**	**$B_k + 5$**	$B_k + 48$	$B_k - 71$	$B_k + 23$	25
TKA55 | page 610								
–	195	66.5	**195**	**$B_k + 5$**	$B_k + 55.15$	$B_k - 87.4$	$B_k + 23.6$	45

UAT series

Type	Channel type	h_1 [mm]	h_{KA} [mm]	b_1 [mm]	b_2 [mm]	b_3 [mm]	B_{KA} [mm]	T [mm]
UAT1555 | page 622								
–	195	66.5	**195**	**$B_k + 5$**	$B_k + 55.15$	$B_k - 87.4$	$B_k + 23.6$	45

The cable carrier outer width without attachments B_k is taken into account for calculating the inner width of guide channel b_1 and the overall width B_{KA}.

Our engineers will be happy to help with your project planning – please contact us.

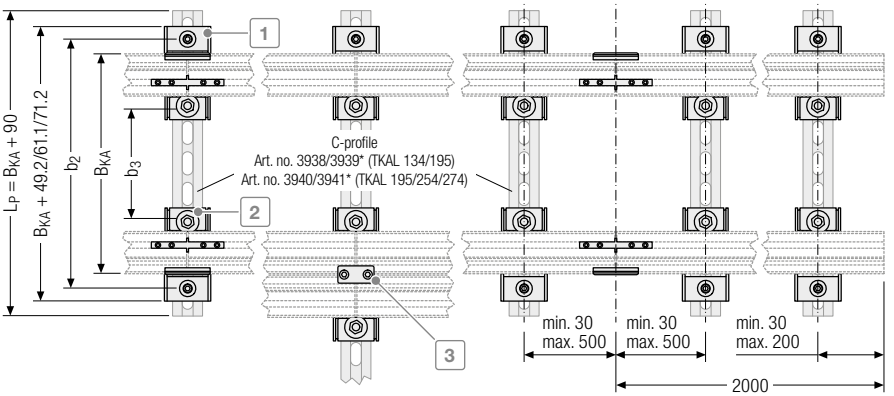
Subject to change without notice.

Standard and heavy duty

The internal or external mounting kits made of stainless steel are mounted at the joints, ensuring precise connection of the joints in addition to fastening the channel to the substructure.

Flying joint

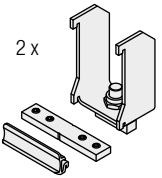
The internal and external mounting kits made of stainless steel are mounted with a spacing of 30-500 mm from the joints, ensuring fastening of the channel to the substructure. The mounting kit does not necessarily have to be mounted at the joints.



External mounting kit 1

The mounting brackets are mounted at the outside of the channel.

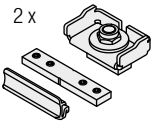
The additional joint connectors ensure precise connection of the joints.



Internal mounting kit 2

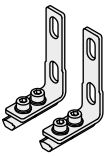
The mounting brackets are mounted at the inside of the channel.

The additional joint connectors ensure precise connection of the joints.



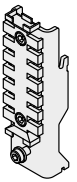
UMB mounting kit

The UMB mounting kit for fixed point ensures optimum fastening of the cable carrier in the channel and depends on the cable carrier type.



Holder set strain relief (optional)

The holders are mounted on the outside of the channel for fixed installation of cables.



Twin channel connector 3 (optional)

The twin channel connectors enable the parallel arrangement of several channels.

All pictures of the mounting kit are exemplary.

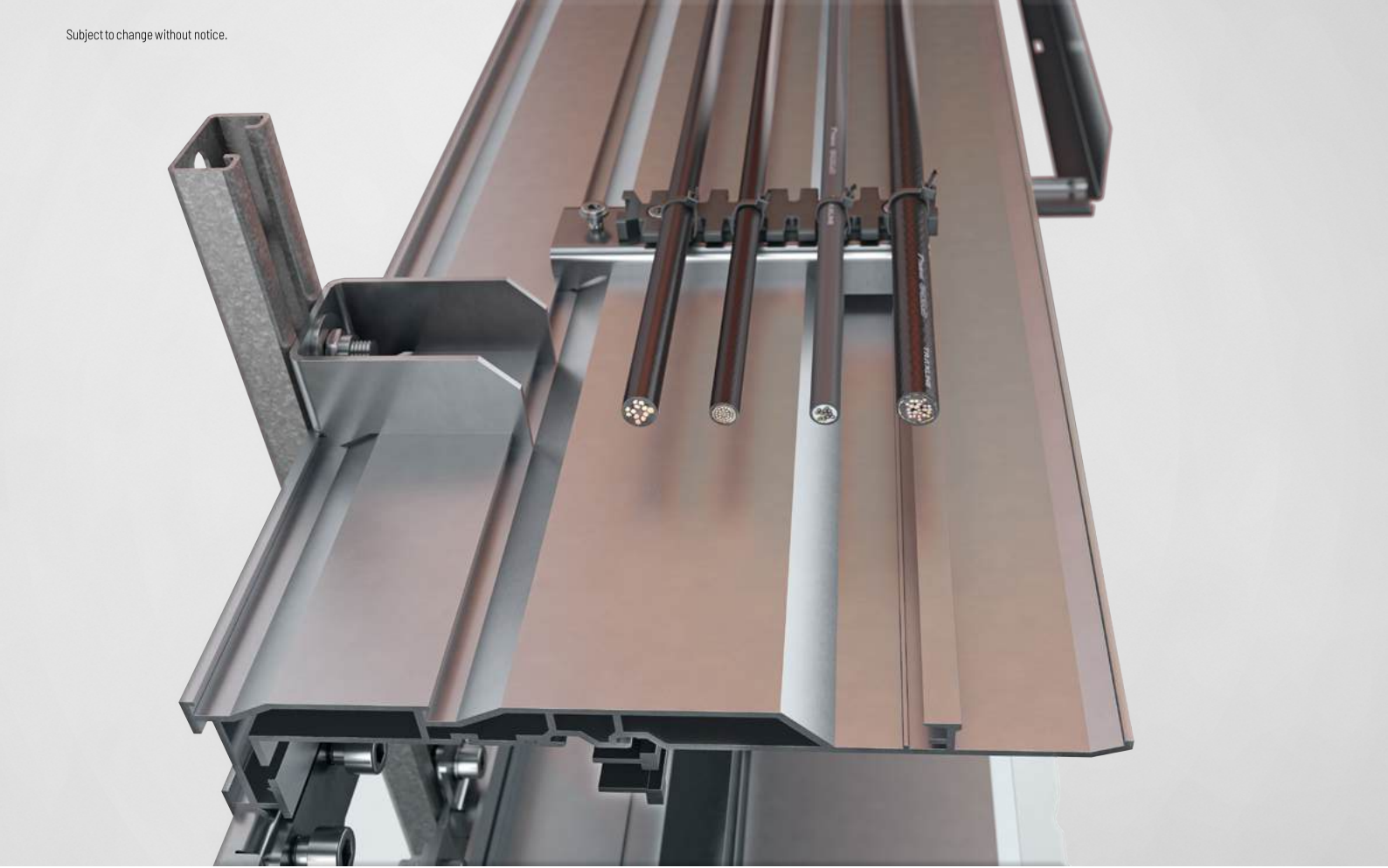
Order

To order the Alu Guide System, please provide the following information or the used cable carrier:

- Number of guide channels
- Total length of channel
- Support length L_{KA}'
- Type of fastening (internal/external)
- Delivery (unmounted/mounted)
- Support height h_1
- Fixing with C-profile
- Inner width of guide channel b_1

* More information can be found on page 915

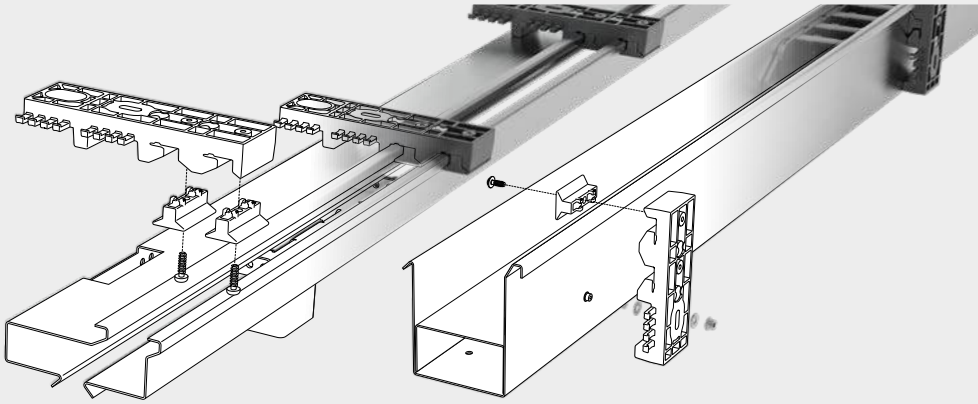
Subject to change without notice.



Easy Guide System (TKEG) | Overview

Guide channels for multifunctional use

- Flexible use in many areas of application.
- Made of zinc plated sheet steel or stainless steel.
- Easy and fast horizontal or vertical arrangement.
- On its side laying installation possible.



Zinc plated sheet steel or stainless steel

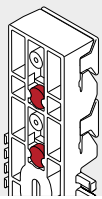
Standard lengths 2000 mm
Special lengths on request

Features

- Space-saving design
- Installation possible horizontal or laying on its side
- Easy and fast assembly by only one fitter
- Saves additional cable channels through installation of permanent cables directly on the holder (securely behind the channel)
- System remains horizontally adjustable after installation
- Mounting holes for the cable carriers and cable ducts every 850 mm
- Brackets are installed with screws or weld studs
- No complex steel structure necessary
- Suitable for all I-beams and box beams
- The same mounting brackets for different trough sizes/chain types
- Can be installed “flying”

- Closed design
  - Guiding for suspended chains
  - Allows operation of the cable carrier laying on its side
  - Mechanical protection
  - Protection against lateral acceleration
  - Protection against the cable carrier "banging" during acceleration and deceleration

With magnets as mounting aids for easy positioning of the holder and placing of the fastenings such as drilled holes or welded studs.



Our engineers will be happy to help with your project planning – please contact us.

Subject to change without notice.

One-sided arrangement with central feed

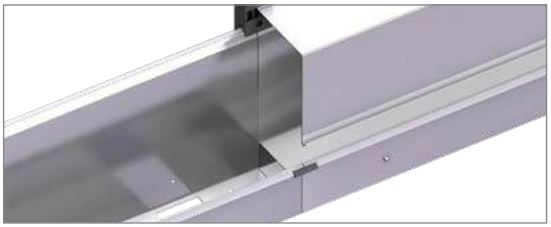
For single-sided arrangement of the cable carrier with central feed, the cable carrier slides behind the fixed point on a continuous slide plate.

Closed design – standing without enclosure (Variant A)

One-part channel in version with open top and one-part slide plate.

Closed design – standing with enclosure (Variant B)

One-part channel in version with closed top (enclosure) and one-part slide plate.



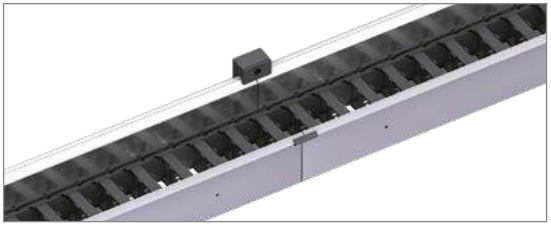
For central feed, permanent cables can be placed directly on the holder (securely behind the channel)

One-sided arrangement with end feed

For single-sided arrangement of the cable carrier with end feed, the cable carrier slides behind the fixed point on itself.

Closed design – standing without enclosure (Variant A)

One-part channel in version with open top and one-part slide plate.



Closed design – standing with enclosure (Variant B)

One-part channel in version with closed top (enclosure) and one-part slide plate.

Subject to change without notice.

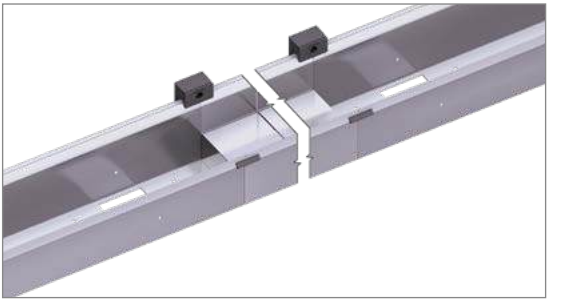
Easy Guide System (TKEG) | Versions

Opposite arrangement

For opposite arrangement, a slide support is also attached for bridging between the fixed point connections.

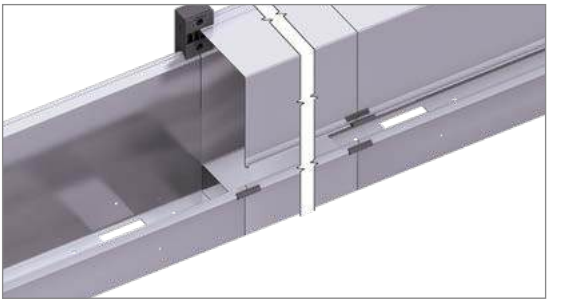
Closed design – standing without enclosure
(Variant A)

One-part channel in version with open top and one-part slide plate.



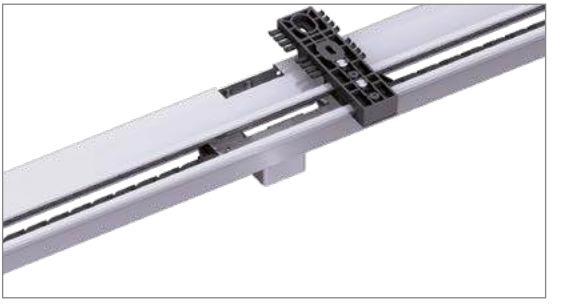
Closed design – standing with enclosure
(Variant B)

One-part channel in version with closed top (enclosure) and one-part slide plate.



Closed design – laying on its side with enclosure
(Variant C)

One-part channel laying on its side in enclosed version (enclosure) incl. driver sledge.

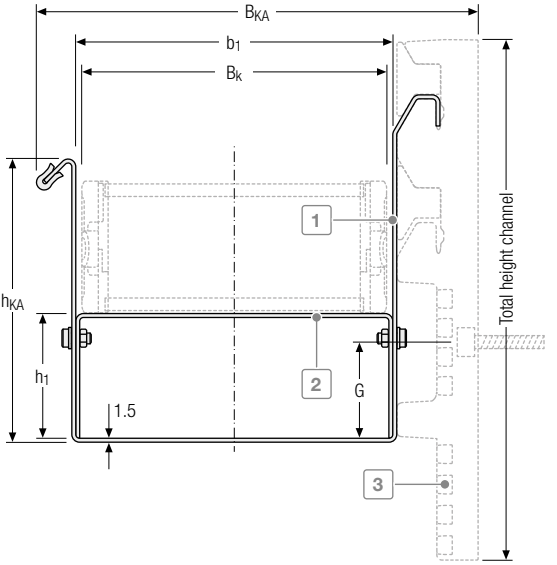


Subject to change without notice.

Subject to change without notice.

Easy Guide System (TKEG) | Dimensions

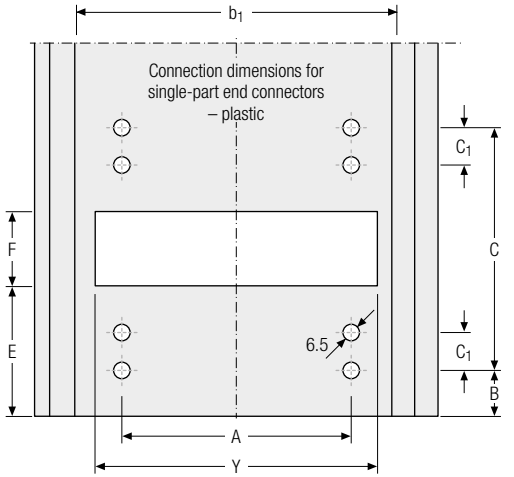
Dimensions | standing without enclosure (Variant A)



1 Guide channel
2 Stable gliding support made of zinc plated sheet steel or stainless steel
3 Holder

Slide support height

$h_1 = h_G$



Subject to change without notice.

Easy Guide System (TKEG) | Dimensions

QuickTrax® series

B_i [mm]	KR [mm]	h_1 [mm]	h_{KA} [mm]	Total height channel [mm]	b_1 [mm]	B_{KA} [mm]	A [mm]	B [mm]	C [mm]	C_1 [mm]	E [mm]	F [mm]	G [mm]	Y [mm]
QT0320 with channel holder 202 | page 138														
25	75	25.5	54	202	42	90.7	10	79	140	14	129	40	39	27
50	100				67	115.7	35							52
QT0320 with channel holder 155 | page 138														
25	75	25.5	54	156.5	42	90.7	10	79	140	14	129	40	39	27
50	100				67	115.7	35							52

EasyTrax® series

B_i [mm]	KR [mm]	h_1 [mm]	h_{KA} [mm]	Total height channel [mm]	b_1 [mm]	B_{KA} [mm]	A [mm]	B [mm]	C [mm]	C_1 [mm]	E [mm]	F [mm]	G [mm]	Y [mm]
ET0320 with channel holder 202 | page 252														
25	75	25.5	54	202	42	90.7	10	79	140	14	129	40	39	27
50	100				67	115.7	35							52
ET0320 with channel holder 155 | page 252														
25	75	25.5	54	156.5	42	90.7	10	79	140	14	129	40	39	27
50	100				67	115.7	35							52

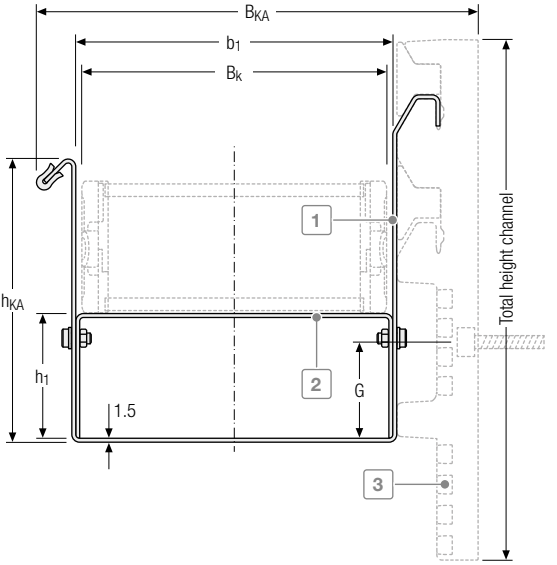
The cable carrier outer width without attachments B_k is taken into account for calculating the inner width of guide channel b_1 and the overall width B_{KA}.

Information on the fixing options for the Easy Guide Systems can be found on page 913

Subject to change without notice.

Easy Guide System (TKEG) | Dimensions

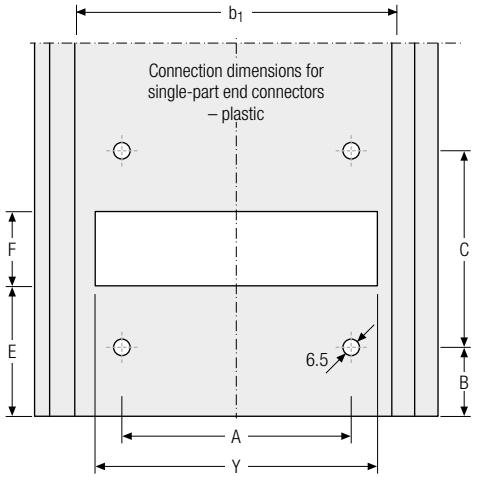
Dimensions | standing without enclosure (Variant A)



1 Guide channel
2 Stable gliding support made of zinc plated sheet steel or stainless steel
3 Holder

Slide support height

$h_1 = h_G$



Subject to change without notice.

Easy Guide System (TKEG) | Dimensions

UNIFLEX *Advanced* series

B_i [mm]	KR [mm]	h_1 [mm]	h_{KA} [mm]	Total height channel [mm]	b_1 [mm]	B_{KA} [mm]	A [mm]	B [mm]	C [mm]	E [mm]	F [mm]	G [mm]	Y [mm]
UA1455 with channel holder 202 | page 162													
58	125	36	100	202	79	127.7	43.5	73	152	123	52	39	64
78					99	147.7	63.5						84
103					124	172.7	88.5						109
UA1455 with channel holder 155 | page 162													
58	125	36	100	156.5	79	127.7	43.5	73	152	123	52	39	64
78					99	147.7	63.5						84
103					124	172.7	88.5						109
UA1555 with channel holder 202 | S page eite 172													
50	125	50	115	202	73	121.7	30	61	176	111	76	39	58
75					98	146.7	55						83
100					123	171.7	80						108
UA1555 with channel holder 155 | page 172													
50	125	50	115	156.5	73	121.7	30	61	176	111	76	39	58
75					98	146.7	55						83
100					123	171.7	80						108

Standard version of the cable carrier in the Easy Guide System without glide shoes.

The cable carrier outer width without attachments B_k is taken into account for calculating the inner width of guide channel b_1 and the overall width B_{KA}.

Our engineers will be happy to help with your project planning – please contact us.

Information on the fixing options for the Easy Guide Systems can be found on page 913

Subject to change without notice.

Easy Guide System (TKEG) | Dimensions

Dimensions | Ground holder (Variant A)

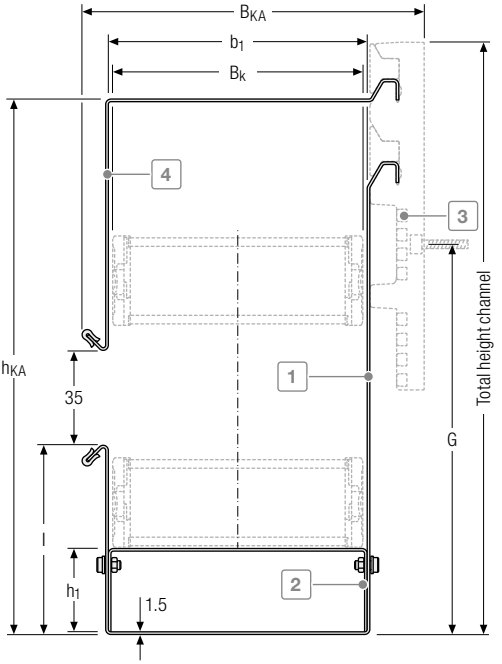
Subject to change without notice.

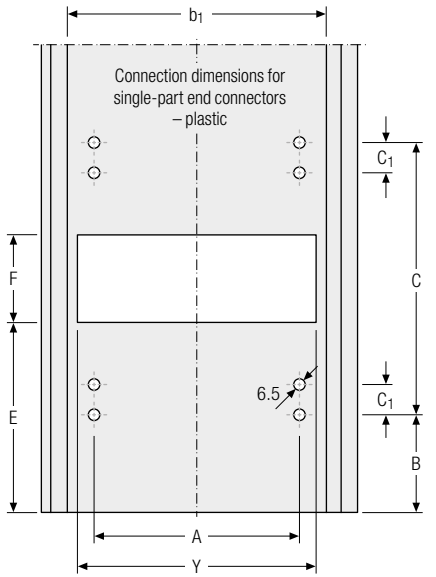
Easy Guide System (TKEG) | Dimensions

Dimensions | Ceiling holder (Variant A)

Subject to change without notice.

Dimensions | standing with enclosure (Variant B)





1 Guide channel
2 Stable gliding support made of zinc plated sheet steel or stainless steel
3 Holder
4 Enclosure

Slide support height

$h_1 = h_G$

Subject to change without notice.

Easy Guide System (TKEG) | Dimensions

QuickTrax® series

B_i [mm]	KR [mm]	h_1 [mm]	h_{KA} [mm]	Total height channel [mm]	b_1 [mm]	B_{KA} [mm]	A [mm]	B [mm]	C [mm]	C_1 [mm]	E [mm]	F [mm]	G [mm]	I [mm]	Y [mm]
QT0320 with channel holder 202 | page 138															
25	100	25.5	236.5	269.5	42	90.7	10	79	140	14	129	40	152	54	27
50					67	115.7	35								52
QT0320 with channel holder 155 | page 138															
25	100	25.5	236.5	269.5	42	90.7	10	79	140	14	129	40	152	54	27
50					67	115.7	35								52

EasyTrax® series

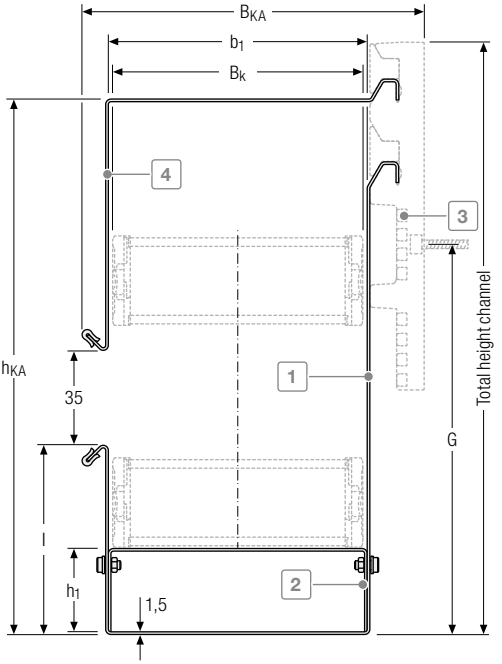
B_i [mm]	KR [mm]	h_1 [mm]	h_{KA} [mm]	Total height channel [mm]	b_1 [mm]	B_{KA} [mm]	A [mm]	B [mm]	C [mm]	C_1 [mm]	E [mm]	F [mm]	G [mm]	I [mm]	Y [mm]
ET0320 with channel holder 202 | page 252															
25	100	25.5	236.5	269.5	42	90.7	10	79	140	14	129	40	152	54	27
50					67	115.7	35								52
ET0320 with channel holder 155 | page 252															
25	100	25.5	236.5	269.5	42	90.7	10	79	140	14	129	40	152	54	27
50					67	115.7	35								52

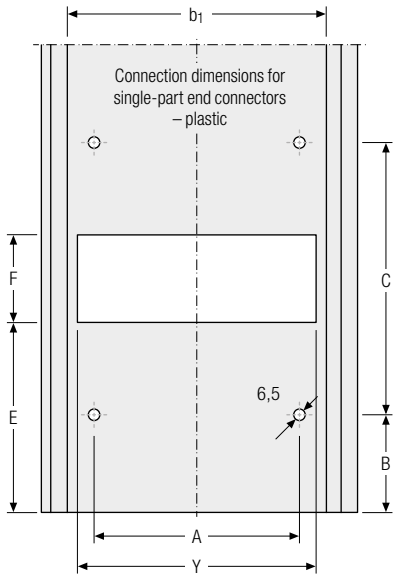
The cable carrier outer width without attachments B_k is taken into account for calculating the inner width of guide channel b_1 and the overall width B_{KA}.

Information on the fixing options for the Easy Guide Systems can be found on page 913

Subject to change without notice.

Dimensions | standing with enclosure (Variant B)





1 Guide channel
2 Stable gliding support made of zinc plated sheet steel or stainless steel
3 Holder
4 Enclosure

Slide support height

$h_1 = h_G$

Subject to change without notice.

Easy Guide System (TKEG) | Dimensions

UNIFLEX *Advanced* series

B_i [mm]	KR [mm]	h_1 [mm]	h_{KA} [mm]	Total height channel [mm]	b_1 [mm]	B_{KA} [mm]	A [mm]	B [mm]	C [mm]	E [mm]	F [mm]	G [mm]	I [mm]	Y [mm]
UA1455 with channel holder 202 | page 162														
58	125	36	297	330	79	127.7	43.5	73	152	123	52	212.5	100	64
78					99	147.7	63.5							84
103					124	172.7	88.5							109
UA1455 with channel holder 155 | page 162														
58	125	36	297	330	79	127.7	43.5	73	152	123	52	212.5	100	64
78					99	147.7	63.5							84
103					124	172.7	88.5							109
UA1555 with channel holder 202 | page 172														
50	125	50	311	344	73	121.7	30	61	176	121	76	226.5	111	58
75					98	146.7	55							83
100					123	171.7	80							108
UA1555 with channel holder 155 | page 172														
50	125	50	311	344	73	121.7	30	61	176	121	76	226.5	111	58
75					98	146.7	55							83
100					123	171.7	80							108

Standard version of the cable carrier in the Easy Guide System without glide shoes.

The cable carrier outer width without attachments B_k is taken into account for calculating the inner width of guide channel b_1 and the overall width B_{KA}.

Our engineers will be happy to help with your project planning – please contact us.

Information on the fixing options for the Easy Guide Systems can be found on page 913

Subject to change without notice.

Easy Guide System (TKEG) | Dimensions

Dimensions | Ground holder (Variant B)

Subject to change without notice.

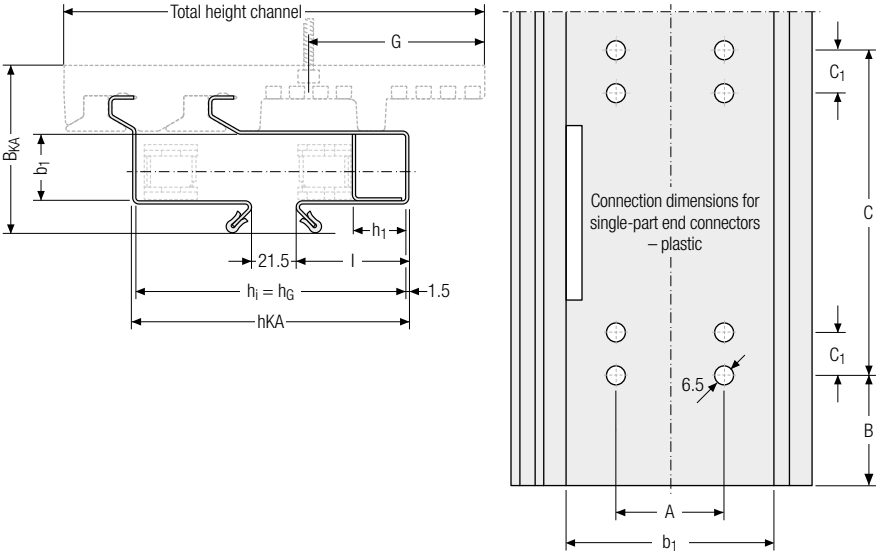
Easy Guide System (TKEG) | Dimensions

Dimensions | Ceiling holder (Variant B)

Subject to change without notice.

Easy Guide System (TKEG) | Dimensions

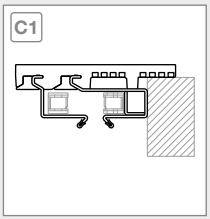
Dimensions | laying on its side (Variant C)

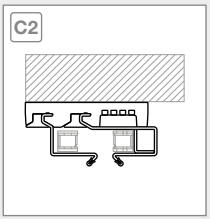


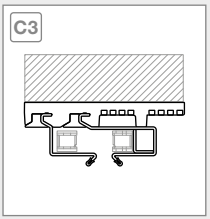
QuickTrax® series | UNIFLEX *Advanced* series

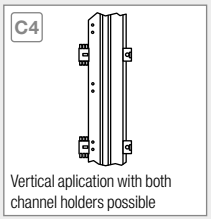
B_i [mm]	KR [mm]	h_{KA} [mm]	Total height channel [mm]	b_1 [mm]	B_{KA} [mm]	A [mm]	B [mm]	C [mm]	C_1 [mm]	G [mm]	l [mm]
QT0320 | UA1320 with channel holder 202 | page 138 + 156											
15	48	132.5	202	32	80.7	–	85	128	14	37,5	54
25				42	90.7	10					
50				67	115.7	35.5					
QT0320 | UA1320 with channel holder 155 | page 138 + 156											
15	48	132.5	165.5	32	80.7	–	85	128	14	84,5	54
25				42	90.7	10					
50				67	115.7	35.5					

Mounting options









Vertical aplication with both channel holders possible

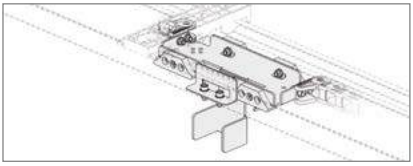
Information on the fixing options for the Easy Guide Systems can be found on page 913

Subject to change without notice.

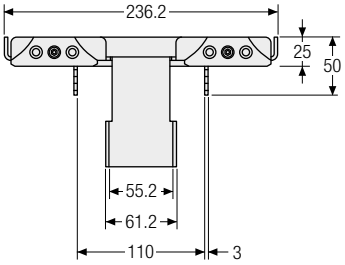
Easy Guide System (TKEG) | Dimensions

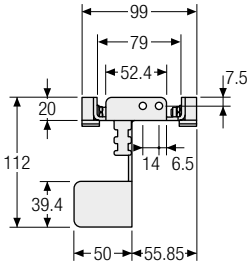
Dimensions | laying on its side (Variant C) | Driver sledge

For the version of the Easy Guide System laying on its side, the correct carrier sledge has to be used for each cable carrier width.

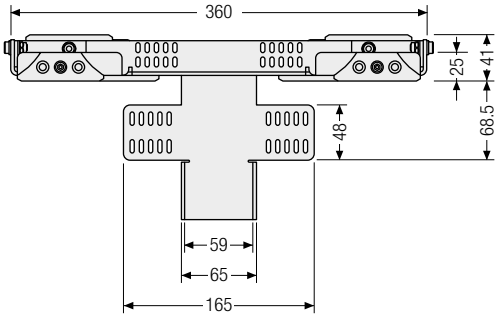


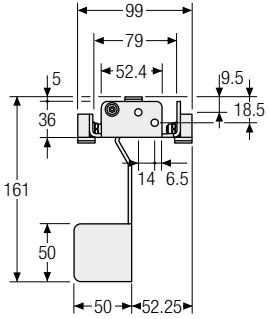
Driver sledge 79-112 for B_i 15



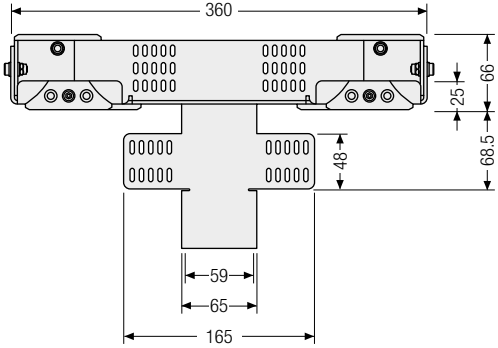


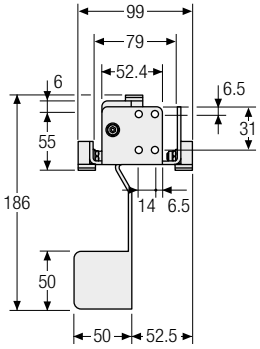
Driver sledge 156-360 for B_i 25





Driver sledge 175-360 for B_i 50

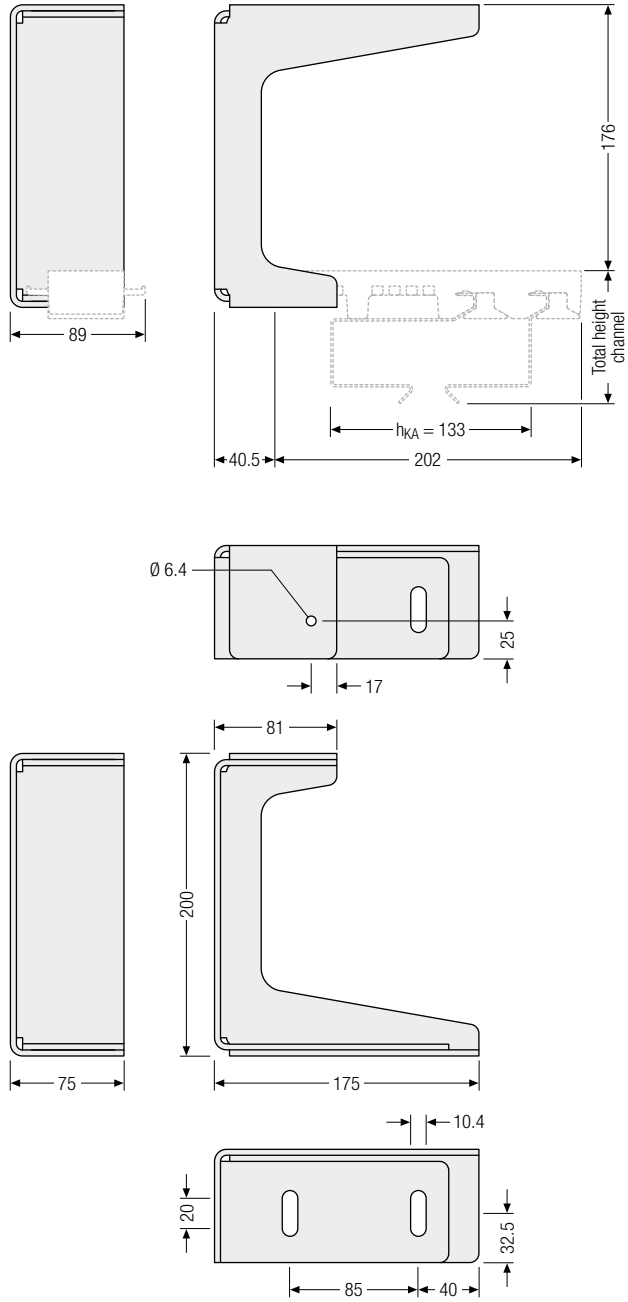


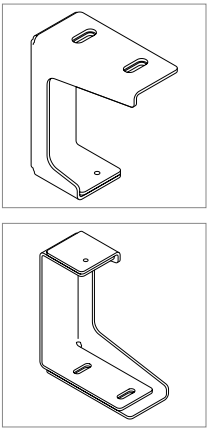


Subject to change without notice.

Easy Guide System (TKEG) | Dimensions

Dimensions | Ground holder (Variant C)



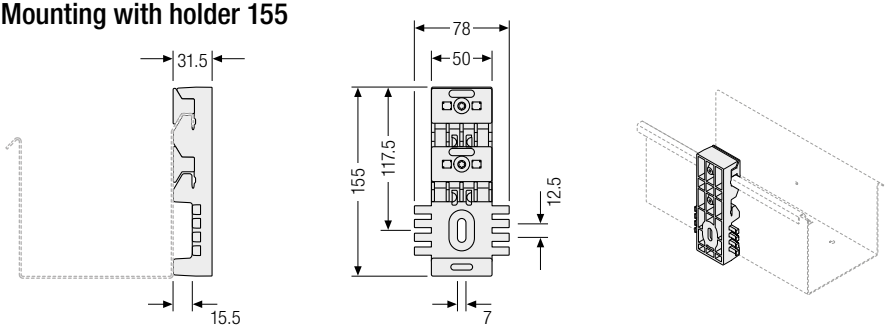


Subject to change without notice.

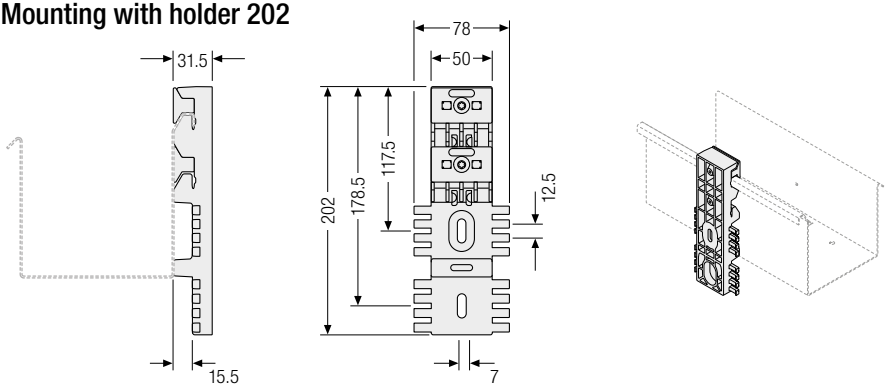
Easy Guide System (TKEG) | Fixing Elements

For variant C (laying on its side), the holders have to be mounted on the joins. For variant A and B, the holders can be installed in any position.

Mounting with holder 155



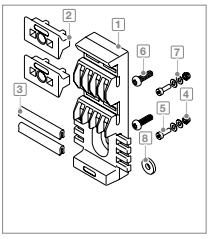
Mounting with holder 202

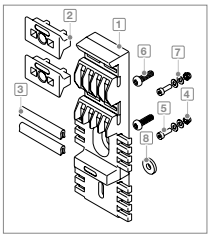


Mounting kit

Set for fixing the holders on the channel.

Installation kit			
1	Holder	5	Screw M4 x 12
2	Holder clamp	6	Screw
3	Join connector	7	Washer
4	Nut	8	Washer





Order example

To order the Easy Guide System, please provide the following information and the used cable carrier:

- Variant of channel (A, B or C)
- Number of guide channels
- Total length of channel
- Support length L_{KA}'
- Variant of holder (H155/H202)
- Type of fastening (Wall/ceiling/floor)

Subject to change without notice.

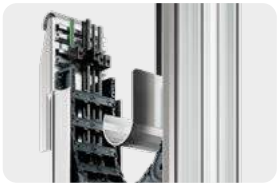
Vertical Guide System (TKVG) | Overview

Guide channels for vertical hanging applications

- Ready-to-install channel system made of aluminum.
- Standardized module.
- Easy installation.
- For elevators, storage and retrieval systems and many other applications.

Aluminum channel system for UNIFLEX *Advanced*

The ready-to-install channel system for vertical hanging applications from TSUBAKI KABELSCHLEPP is ideal for use in fast moving storage and retrieval systems with high lateral accelerations. Other typical fields of application are lifters, elevators, construction elevators, crane elevators or lifts. As a ready-to-connect complete system including driver, cables and strain reliefs, it is very easy to install. Standard parts result in short delivery times and a cost efficient solution. This allows energy and data to be transferred within one system reliably and without interruptions.



Features

- Standardized for UNIFLEX *Advanced* 1555
- Available from 75 mm inner width and 125 mm bending radius
- Other series and types on request
- Suitable for extremely long travel lengths
- Fixed point offset possible
- Fixed point connection alternatively left or right
- Cable outlet on the driver alternatively towards the front or rear
- Standard lengths of the aluminum profile. Custom lengths also possible on request
- Mounting distance of the channel brackets flexibly adaptable
- Optional C-rails for assembly
- Attachment parts in galvanized steel or stainless steel
- Restraint system:
  - Smart retrofitting for stacker cranes
  - Wear reduction and longer service life
  - Less noise emission and audibly quieter operation
  - Stabilization of the energy chain at high accelerations
  - Modular design with many connection options

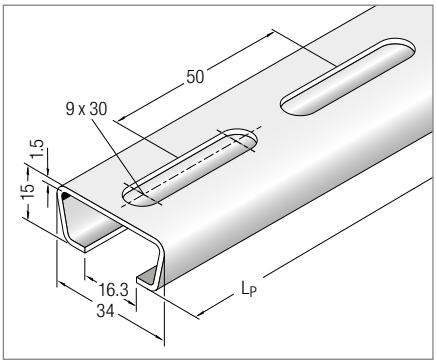
Our engineers will be happy to help with project planning – please contact us

Subject to change without notice.

Assembly profiles for guide channels | Overview

- Assembly profiles with sloping sides can be used for all guide channels for fastening
- Lengths in 50 mm grid possible

C-profile, perforated, 34 x 15 mm

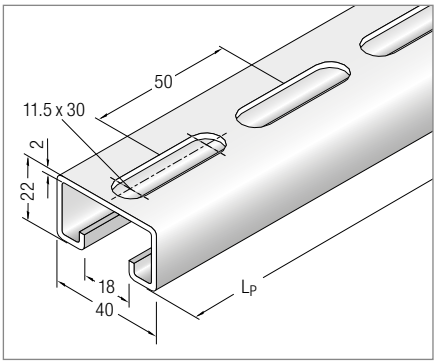


(slot width 16 – 17 mm)

Material	Article no.
Steel	3938
Stainless steel (ER 1S)	3939

Attach profile with cheese-head screws M8 – DIN 6912

C-profile, perforated, 40 x 22 mm



(slot width 18 mm)

Material	Article no.
Steel	3940
Stainless steel (ER 1S)	3941

Attach profile with cheese-head screws M8 – DIN 6912

Subject to change without notice.