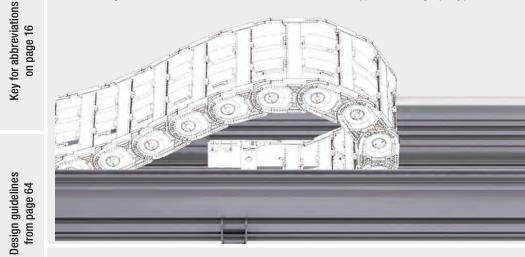
Aluminium guide channels in the modular system

- Modular system with many mounting options.
- Standard lengths and sets.

ays & guide channels

Ippor

- Lightweight design for high speeds.
- Slide and roller support made of high-quality plastic.



Channel side wall

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

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.

- Standard- and Heavy-Duty-Version
- Variable fixation in standard stainless steel
- UMB mounting kit for assembly of the cable carrier

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.

technik@kabelschlepp.de

Technical support:

Subject to change.

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









Alu Guide System (TKAL) | Dimensions

Dimensions

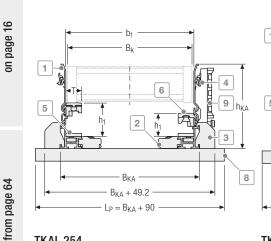
ays & guide channels Support

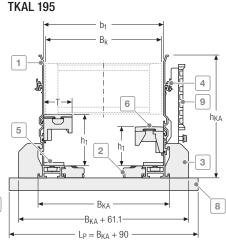
Key for abbreviations

Design guidelines

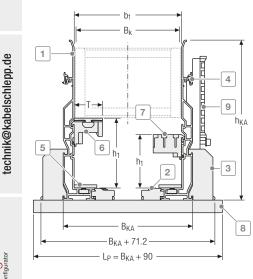
Technical support:

TKAL 134



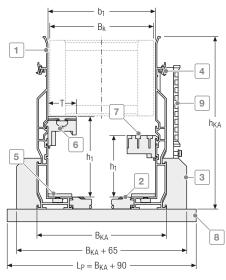


TKAL 254



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.

TKAL 274



1 Channel profile

- 2 Internal mounting kit
- 3 External mounting kit
- 4 Joint connectors
- 5 Damping band (optional)

7 Stable roller support made of plastic

9 Strain relief holder kit

8 C-Rail

Conline-engineer.de

Alu Guide System (TKAL) | Dimensions

UNIFLEX Advanced series

Туре	Channel type	h 1 [mm]	h _{KA} [mm]	b 1 [mm]	b 2 [mm]	b 3 [mm]	B _{KA} [mm]	T [mm]
UA1455 page	164							
Glide shoes	134	40	134	B _k + 7	B _k + 50	B _k -69	B _k + 25	25
UA1555 page	174							
Glide shoes	134	53	134	B _k + 9	B _k + 52	B _k -67	B _k + 27	25
UA1665 page	184							
Glide shoes	195	61,5	195	B _k + 10	B _k + 60,15	B _k -82.4	B _k + 28,6	45
UA1775 page	194							
Glide shoes	195	81	195	B _k + 9	B _k + 59,15	B _k -83.4	B _k + 27,6	45
UA1995 page	202							
Glide shoes	254	116	254	B _k + 10,4	B _k + 71,9	B _k -81	B _k + 45	45

K series

Туре	Channel type	h 1 [mm]	h _{KA} [mm]	b 1 [mm]	b 2 [mm]	b 3 [mm]	B _{KA} [mm]	T [mm]
K0650 page 3	312							
Slide discs	134	56.5	134	B _k + 13	B _k + 56	$B_k - 63$	B _k + 31	25
K0900 page 3	326							
Slide discs	195	81	195	B _k + 19	B _k + 69.15	$B_{k} - 73.4$	B _k + 23.6	45

M series

Туре	Channel type	h ₁ [mm]	h _{ka} [mm]	b 1 [mm]	b 2 [mm]	b 3 [mm]	B _{KA} [mm]	T [mm]		
M0650 page	402									
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	M0950 page 418									
Glide shoes	195	81	195	B _k + 5	B _k + 55.15	B _k -87.4	B _k + 23.6	45		
Offroad glide shoes	195	86	195	B _k + 5	B _k + 55.15	B _k -87.4	B _k +23.6	45		
M1250 page	444									
Offroad glide shoes	274	103	274	B _k + 6	B _k + 67.5	B _k – 97.4	B _k + 40.6	45		
M1300 page	418									
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.

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tsubaki-kabelschlepp.com/ channel

Alu Guide System (TKAL) | Dimensions · Technical Data

QUANTUM® series

Туре	Channel type	h 1 [mm]	h _{KA} [mm]	b 1 [mm]	b 2 [mm]	b 3 [mm]	B _{KA} [mm]	T [mm]
Q040 page 5	20							
_	134	40	134	B _k + 4	B _k + 47	B _k -72	B _k + 22	25
Q060 page 5	26							
Glide shoes	195	66.5	195	B _k + 9	B _k + 59.2	B _k -83.4	B _k + 27.6	45
Q080 page 5	36							
Glide shoes	195	86	195	B _k + 13	B _k + 63.2	B _k -79.4	B _k + 31.6	45
Q100 page 5	50							
Glide shoes	274	108	274	B _k + 13	B _k + 74.5	B _k -90.4	B _k + 47.6	45

TKA series

Туре	Channel type	h 1 [mm]	h _{KA} [mm]	b 1 [mm]	b 2 [mm]	b 3 [mm]	B _{KA} [mm]	T [mm]	
TKA38 page 610									
-	134	36.5	134	B _k + 4	B _k + 47	B _k -72	B _k + 22	25	
TKA45 page 6	616								
-	134	53	134	B _k + 5	B _k + 48	B _k -71	B _k + 23	25	
TKA55 page 624									
_	195	66.5	195	B _k + 5	B _k + 55.2	B _k -87.4	$B_{k} + 23.6$	45	

UAT series

Туре	Channel type	h 1 [mm]	h _{KA} [mm]	b 1 [mm]	b 2 [mm]	b 3 [mm]	B _{KA} [mm]	T [mm]
UAT1555 pag	je 636							
-	195	66.5	195	B _k + 5	$B_{k} + 55.2$		B _k + 23.6	45

TKHD series

Туре	Channel type	h 1 [mm]	h _{KA} [mm]	b 1 [mm]	b 2 [mm]	b 3 [mm]	B _{KA} [mm]	T [mm]		
TKHD85 page	9482									
Glide shoes	254	90	254	B _k + 6	B _k + 67.5	B _k -85.4	B _k + 40.6	45		
TKHD90 page	e 488									
Glide shoes	274	127.5	274	B _k + 6	B _k + 67.5	B _k -97.4	B _k + 40.6	45		
TKHD85-R pa	age 494									
_	254	84.5	254	B _k + 6	B _k + 67.5	B _k -85.4	B _k + 40.6	45		
TKHD90-R page 500										
_	274	117	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.

Key for abbreviations on page 16

Support ays & guide channels

Alu Guide System (TKAL) | Fixing Elements

Support trays & guide channels

tsubaki-kabelschlepp.com/

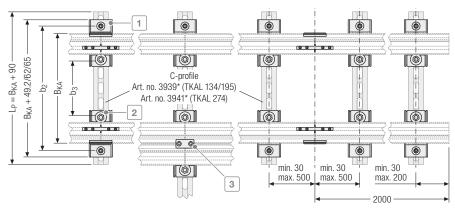
channel

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.

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.

Twin channel connector 3 (optional)

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



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.

Holder set strain relief (optional)

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



2 x

All pictures of the mounting kit are exemplary.

Order example

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 LKA'
- Type of fastening (internal/ external)
- Delivery (unmounted/mounted)
- Support height h₁
- Fixing with C-profile
- Inner width of guide channel b₁

* More information can be found on page 895