# TKR series

Extremely quiet and low-vibration for highly dynamic applications\*



Subject to change without notice.

UNIFLEX Advanced series

XL series

QUANTUM® series

TKR series

TKA series

- 1 Variable connection for quick assembly
- 2 Easy and quick to open
- **3** Extremely quiet and low-vibration operation
- 4 Can be opened at any position
- **5** Fixable dividers
- 6 Many separation options for the cables
- 7 Chain link and joint connection with captive connection

## **Features**

- » Long service life
- » Ideal for highly dynamic applications
- » High side stability















» Modular design allows easy shortening and extending



Ideal for highly dynamic applications



UMB end connector to the connection from the face side, from the top or from the bottom



Molded, captive connecting elements

#### Cleanroom compatible and long service life

The movable connectors are directly molded on the chain links. In contrast to conventional bore-hole bolt connections, hardly any wear occurs (link abrasion), which makes the TKR type excellent for use in clean rooms.

The special design of the connecting elements additionally increases the service life of the system.

Subject to change without notice.

Addi-

tional

load

 $\leq$  [kg/m]

2

2,5

8

10

2,4

Cable-

 $d_{\text{max}}$ 

[mm]

17,5

22

32

41

25

UNIFLEX Advanced series

## TKR series | Overview

		rted arrar	ngement		g arrange	ment	lı	nner Dis	tributio	1		vemer		Page
		<b>v</b> max ≤[m/s]	$\mathbf{a}_{\text{max}}$ $\leq [\text{m/s}^2]$	Travel length ≤ [m]	<b>v</b> max ≤[m/s]	$\mathbf{a}_{\text{max}}$ $\leq [\text{m/s}^2]$	TS0	TS1	TS2	TS3	vertical hanging or standing	lying on the side	rotating arrangement	<b>a</b>
											vertica	lying c	arr	
	1,75	5	200*	_	_	_	•	•	_	_	•	_	_	546
-														
	0.75	F	000*											550
-	2,75	5	200*	-			•	•		_	•	_		552
-	3,9	5	200*	-	-	-	•	•	_	•	•	-	-	558
-														
	4,9	5	200*	-	-	-	•	•	-	•	•	-	-	564
	2,8	5	200*	_	_	_	•	•	_	_	•	_	_	570
-														

The TKR features extremely quiet and low-vibration operation. The so-called polygon effect is reduced to a minimum. Ideal areas of application are in particular in handling and assembly systems, robots, metrology devices,

pick-and-place machines, printing and textile machines. Due to the **very quiet running**, the TKR types are ideal for **low-vibration applications with linear drives**.

QUANTUM® series

TKR series

TKA series

XL series

TKR series

# **TKR0150**



Pitch 15 mm



Inner height 22 mm



Inner widths 20 - 60 mm



Bending radii 40 - 75 mm

## Stay variants



**Design 030** page **546** 

#### Frame with outside detachable crossbar

- Low-vibration plastic frame with particularly long service life thanks to molded chain links.
- **Outside:** Swivable and detachable.



#### TOTALTRAX® complete systems

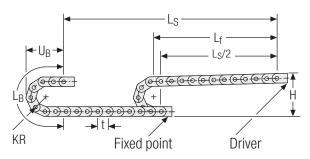
Benefit from the advantages of the TOTALTRAX® complete system. A complete delivery from one source – with a warranty certificate on request! Learn more at tsubaki-kabelschlepp.com/totaltrax



#### TRAXLINE® cables for cable carriers

Hi-flex electric cables which were especially developed, optimized and tested for use in cable carriers can be found at tsubaki-kabelschlepp.com/traxline

#### **Unsupported arrangement**



KR	Н	$L_B$	$U_B$
[mm]	[mm]	[mm]	[mm]
40	120	156	70
50	140	187	80
75	190	266	105

**Load diagram for unsupported length** depending on the additional load.

Sagging of the cable carrier is technically permitted for extended travel lengths, depending on the specific application.

Intrinsic cable carrier weight  $q_k = 0.3 \ \text{kg/m}$  at  $B_i$  20 mm. For other inner widths, the maximum additional load changes.



**Speed** up to 5 m/s



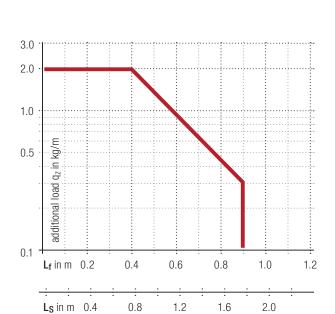
Acceleration up to 200 m/s<sup>2\*</sup>



**Travel length** up to 1.75 m



**Additional load** up to 2.0 kg/m



## More product information online



Assembly instructions etc.: Additional info via your smartphone or check online at tsubaki-kabelschlepp.com/ downloads



Configure your custom cable carrier here: online-engineer.de

UAI series

<sup>\*</sup> For values > 20 m/s<sup>2</sup>, please contact us, we are happy to advise you!

TKHD series

XL series

QUANTUM® series

TKR series

TKA series

## TKR0150.030 | Dimensions · Technical data

**Stay variant 030 –** with outside opening and detachable crossbars

- Low-vibration plastic frame with particularly long service life thanks to molded chain links.
- Swivable and detachable on one side in any position.
- **Outside:** Swivable and detachable.

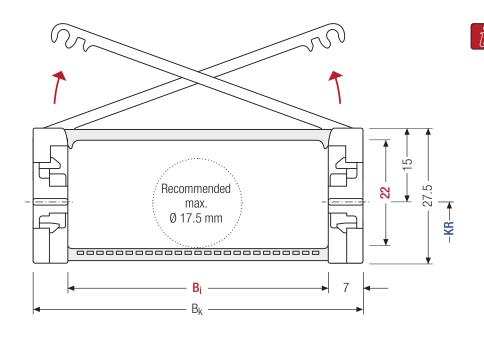




Stay arrangement on each chain link (VS: fully-stayed)



B<sub>i</sub> 20 – 60 mm



The maximum cable diameter strongly depends on the bending radius and the desired cable type. Please contact us.

## Calculating the cable carrier length

#### Cable carrier length Lk

$$L_k \approx \frac{L_S}{2} + L_B$$

Cable carrier length L<sub>k</sub> rounded to pitch t for even number of chain links

hį	hG		Bi		$B_k$		KR		$q_k$
[mm]	[mm]		[mm]		[mm]		[mm]		[kg/m]
22	27.5	20	40	60	B <sub>i</sub> + 14	40	50	75	0.3 - 0.5

#### Order example



#### **Divider systems**

As standard, the divider system is mounted on every  $2^{\rm nd}$  chain link

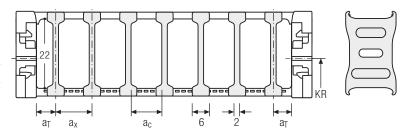
As a standard, dividers and the complete divider system (dividers with height separations) can be moved in the cross section (version A).

The dividers are easily attached to the stay for applications with transverse accelerations and for applications laying on the side by simply turning them.

The arresting cams click into place in the locking grids in the crossbars (version B).

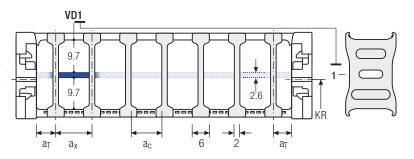
### **Divider system TS0** without height separation

Vers.				a <sub>x grid</sub> [mm]	n <sub>T</sub> min
Α	5	6	4	_	_
В	6	6	4	2	<u> </u>
			• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •



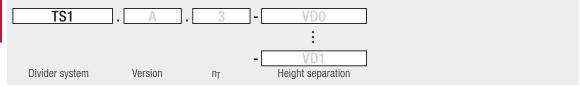
#### Divider system TS1 with continuous height separation

Vers.			a <sub>c min</sub> [mm]	a <sub>x grid</sub> [mm]	n <sub>T</sub>
Α	5	6	4	_	2
В	6	6	4	2	2



#### Order example





Please state the designation of the divider system (TS0, TS1 ...), version and number of dividers per cross section  $[n_T]$ .

If using divider systems with height separation **(TS1)** please also state the positions [e.g. VD1] viewed from the left driver belt. You are welcome to add a sketch to your order.

PR0TUM<sup>®</sup> series

> K series

UNIFLEX Advanced series

> M series

TKHD series

XL series

QUANTUM® Series

TKR series

TKA series

series

K series

UNIFLEX Advanced series

> M series

TKHD series

XL series

QUANTUM® Series

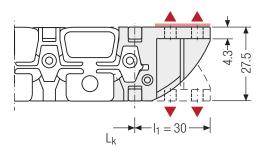
### TKR series

TKA series

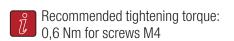
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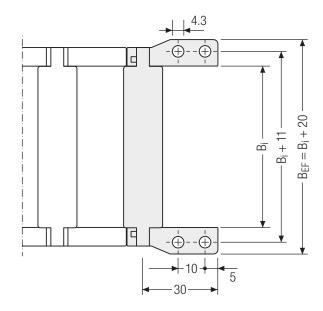
#### One-part end connectors - plastic

The plastic end connectors can be **connected from above or from below**. The connection type can be changed by changing the orientation of the end connector.



▲ Assembly options





#### **Connection point**

F – fixed point

M – driver

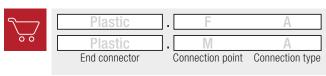
#### **Connection type**

A – threaded joint outside (standard)

threaded joint inside

#### Order example

Fixed point



MA

<del>(o (o (o √,</del> Driver

We recommend the use of strain reliefs at the driver and fixed point. See from p. 908.

#### More product information online



Assembly instructions etc.: Additional info via your smartphone or check online at tsubaki-kabelschlepp.com/ downloads



Configure your custom cable carrier here: online-engineer.de



PROTUM<sup>®</sup> series

K series

ā.

UNIFLEX Advanced series

> M series

TKHD series

XL series

QUANTUM® series

TKR series

TKA series

XL series

TKR series

# **TKR0200**



Pitch 20 mm



Inner height 28 mm



Inner widths 40 - 120 mm



Bending radii 55 - 150 mm

## Stay variants



**Design 030** page **552** 

#### Frame with outside detachable crossbar

- Low-vibration plastic frame with particularly long service life thanks to molded chain links.
- Outside: Swivable and detachable
- Inside: detachable







#### TOTALTRAX® complete systems

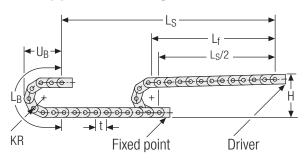
Benefit from the advantages of the TOTALTRAX® complete system. A complete delivery from one source – with a warranty certificate on request! Learn more at tsubaki-kabelschlepp.com/totaltrax



#### TRAXLINE® cables for cable carriers

Hi-flex electric cables which were especially developed, optimized and tested for use in cable carriers can be found at tsubaki-kabelschlepp.com/traxline

#### **Unsupported arrangement**



KR [mm]	<b>H</b> [mm]	L <sub>B</sub> [mm]	<b>U<sub>B</sub></b> [mm]
55	182	253	116
75	222	316	136
95	262	379	156
150	372	552	211

**Load diagram for unsupported length** depending on the additional load.

Sagging of the cable carrier is technically permitted for extended travel lengths, depending on the specific application.

Intrinsic cable carrier weight  $q_k = 0.6 \ \text{kg/m}$  at  $B_i$  40 mm. For other inner widths, the maximum additional load changes.



**Speed** up to 5 m/s



Acceleration up to 200 m/s<sup>2\*</sup>

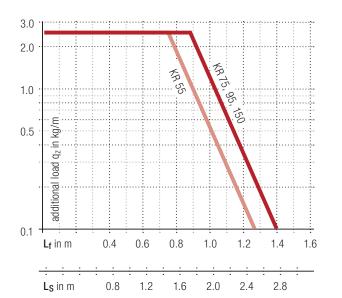


**Travel length** up to 2.75 m



**Additional load** up to 2.5 kg/m

<sup>\*</sup> For values > 20 m/s<sup>2</sup>, please contact us, we are happy to advise you!



## More product information online



Subject to change without notice.

Assembly instructions etc.: Additional info via your smartphone or check online at tsubaki-kabelschlepp.com/ downloads



Configure your custom cable carrier here: online-engineer.de

TKHD series

XL series

QUANTUM® series

TKR series

TKA series

## TKR0200.030 | Dimensions · Technical data

**Stay variant 030 –** with outside opening and detachable crossbars

- Low-vibration plastic frame with particularly long service life thanks to molded chain links.
- Swivable and detachable on one side in any position.
- **Outside:** Swivable and detachable
- Inside: detachable

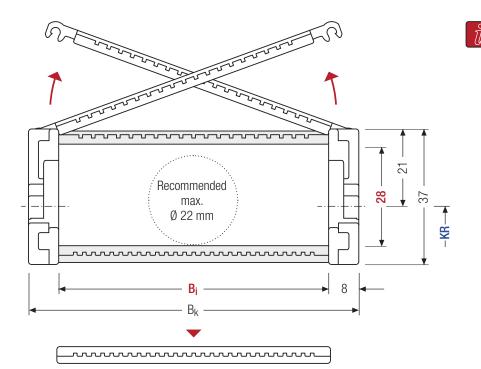




Stay arrangement on each chain link (VS: fully-stayed)



B<sub>i</sub> 40 – 120 mm



The maximum cable diameter strongly depends on the bending radius and the desired cable type.
Please contact us.

## Calculating the cable carrier length

#### Cable carrier length L<sub>k</sub>

$$L_k \approx \frac{L_S}{2} + L_B$$

Cable carrier length  $L_{k}$  rounded to pitch t for odd number of chain links

hį	hG	B <sub>i</sub>	$B_k$	KR	q <sub>k</sub>
[mm]	[mm]	[mm]	[mm]	[mm]	[kg/m]
28	37	40 50 60 80 100 120	DI I IO	55 75 95 150	0.6 – 1.0

#### Order example



UNIFLEX Advanced series

#### **Divider systems**

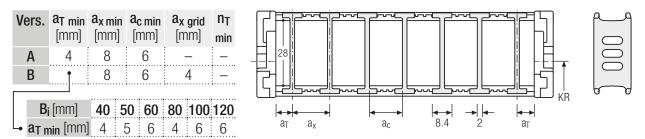
As standard, the divider system is mounted on every 2<sup>nd</sup> chain link.

As a standard, dividers and the complete divider system (dividers with height separations) can be moved in the cross section (version A).

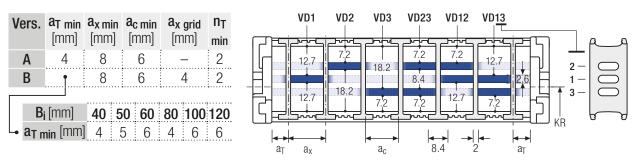
Fixable dividers are available for applications with lateral accelerations and for applications lying on the side.

The arresting cams click into place in the locking grids in the crossbars (version B).

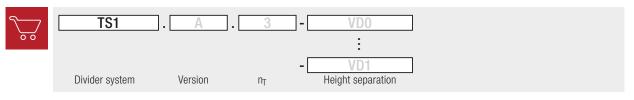
### **Divider system TS0** without height separation



#### **Divider system TS1** with continuous height separation



#### Order example



Please state the designation of the divider system (TS0, TS1 ...), version and number of dividers per cross section  $[n_T]$ .

If using divider systems with height separation **(TS1)** please also state the positions [e.g. VD1] viewed from the left driver belt. You are welcome to add a sketch to your order.

UAT series

TKA series

QUANTUM®

## TKR0200 | End connectors | UMB

ROTUM® series

K series

UNIFLEX Advanced series

> M series

TKHD series

XL series

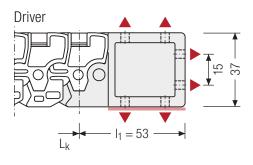
QUANTUM® Series

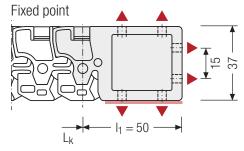
TKR series

TKA series

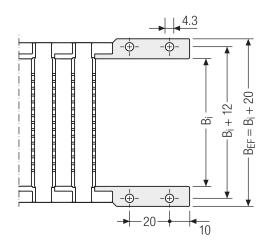
#### UMB end connectors UMB - plastic

The universal mounting brackets (UMB) are made from plastic and can **be mounted from the top, from the bottom or face on**.

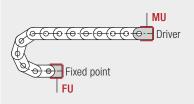




▲ Assembly options



Recommended tightening torque: 0,6 Nm for screws M4



#### **Connection point**

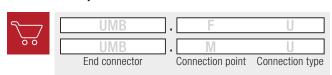
F – fixed point

M – driver

#### **Connection type**

U – universal mounting bracket

#### Order example



We recommend the use of strain reliefs at the driver and fixed point. See from p. 908.

### More product information online



Assembly instructions etc.: Additional info via your smartphone or check online at tsubaki-kabelschlepp.com/ downloads



Configure your custom cable carrier here: online-engineer.de

> K series

UNIFLEX Advanced series

> M series

> TKHD series

XL series

QUANTUM® series

TKR series

TKA series

XL series

TKR series

# **TKR0260**



Pitch 26 mm



Inner height 40 mm



Inner widths 50 - 200 mm



Bend radii 75 - 150 mm

## Stay variants



**Design 030** page **558** 

#### Frame with outside detachable crossbar

- Low-vibration plastic frame with particularly long service life thanks to molded chain links.
- Outside: Swivable and detachable
- Inside: detachable



#### TOTALTRAX® complete systems

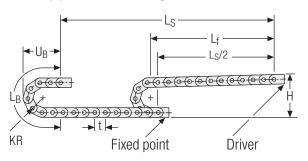
Benefit from the advantages of the TOTALTRAX® complete system. A complete delivery from one source – with a warranty certificate on request! Learn more at tsubaki-kabelschlepp.com/totaltrax



#### TRAXLINE® cables for cable carriers

Hi-flex electric cables which were especially developed, optimized and tested for use in cable carriers can be found at tsubaki-kabelschlepp.com/traxline

#### **Unsupported arrangement**



KR	H	L <sub>B</sub>	U <sub>B</sub>
[mm]	[mm]	[mm]	[mm]
75	238	340	156
100	288	418	181
125	338	497	206
150	388	575	231

**Load diagram for unsupported length** depending on the additional load.

Sagging of the cable carrier is technically permitted for extended travel lengths, depending on the specific application.

Intrinsic cable carrier weight  $q_k = 1.5 \ \text{kg/m}$  at  $B_i$  50 mm. For other inner widths, the maximum additional load changes.



**Speed** up to 5 m/s



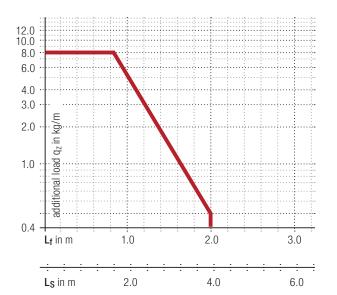
Acceleration up to 200 m/s<sup>2\*</sup>



Travel length up to 3.9 m



**Additional load** up to 8.0 kg/m



## More product information online



Assembly instructions etc.:
Additional info via your smartphone or check online at

tsubaki-kabelschlepp.com/downloads



Configure your custom cable carrier here:

online-engineer.de

**QUANTUM®** 

<sup>\*</sup> For values > 20 m/s<sup>2</sup>, please contact us, we are happy to advise you!

TKHD series

XL series

QUANTUM® series

TKR series

TKA series

## TKR0260.030 | Dimensions · Technical data

**Stay variant 030 –** with outside opening and detachable crossbars

- Low-vibration plastic frame with particularly long service life thanks to molded chain links.
- Swivable and detachable on one side in any position.
- **Outside:** Swivable and detachable
- Inside: detachable

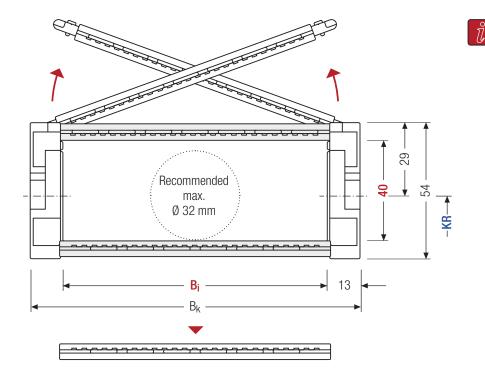




Stay arrangement on each chain link (VS: fully-stayed)



B<sub>i</sub> 50 – 200 mm



The maximum cable diameter strongly depends on the bending radius and the desired cable type. Please contact us.

## Calculating the cable carrier length

#### Cable carrier length Lk

$$L_k \approx \frac{L_S}{2} + L_B$$

Cable carrier length L<sub>k</sub> rounded to pitch t for odd number of chain links

hį	hG	B <sub>i</sub>	$B_k$	KR	$q_k$
[mm]	[mm]	[mm]	[mm]	[mm]	[kg/m]
40	54	50 62 75 87 100 125 150 200			: 1.0 2.7

#### Order example



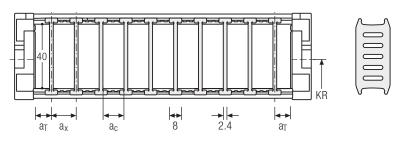
As standard, the divider system is mounted on every 2<sup>nd</sup> chain link.

As a standard, dividers and the complete divider system (dividers with height separations) can be moved in the cross section (version A).

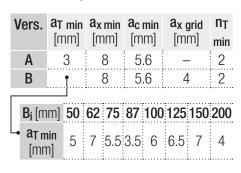
Fixable dividers are available for applications with lateral accelerations and for applications lying on the side. The arresting cams click into place in the locking grids in the crossbars (version B).

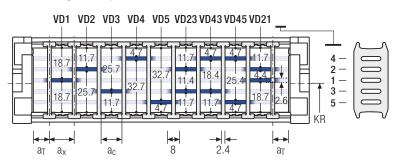
### Divider system TS0 without height separation

Vers.	a <sub>T mir</sub> [mm]	a <sub>x min</sub> [mm]	a <sub>c n</sub> [mr		a <sub>x (</sub>	n <sub>T</sub>	
Α	3	8	5.6	3	_	-	
В	<b>†</b>	8	5.6	3	4		
B <sub>i</sub> [m  → a <sub>T m</sub>		<b>62 75</b> 7 5.5	: :		:		<b>200</b>
[mn	n] <sup>3</sup>	7 0.0	0.0		0.0		4



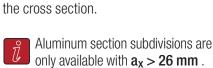
#### **Divider system TS1** with continuous height separation

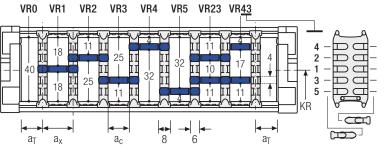




#### Divider system TS3 with height separation made of aluminum partitions

Vers.				a <sub>x min</sub> a <sub>c mir</sub> [mm] [mm]			a <sub>x grid</sub> [mm]		n <sub>T</sub>
Α	3		26		20		_		2
В	В		2	28 22		2	4		2
				· · · · · · · · · · · · · · · · · · ·		• • • • • • • • • • • • • • • • • • • •			·····
B <sub>i</sub> [m	m]	50	62	75	87	100	125	150	200
L a <sub>T m</sub> [mn		5	7	5.5	3.5	6	6.5	7	4





UAI series

QUANTUM® series

TKHD series

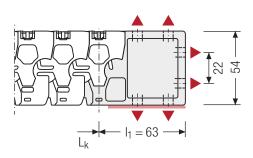
XL series

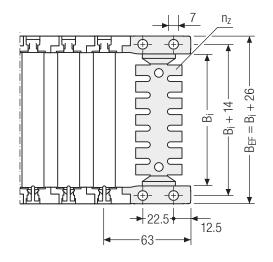
QUANTUM® series

## TKR0260 | End connectors | UMB

## UMB end connectors UMB – plastic

The universal mounting brackets (UMB) are made from plastic and can be mounted from the top, from the bottom or face on.

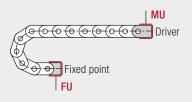




#### ▲ Assembly options

<b>B</b> i [mm]	<b>B</b> EF [mm]	n <sub>z</sub>
50	76	2 x 3
62	88	_
75	101	2 x 5
87	113	_
100	126	2 x 7
125	151	2 x 9
150	176	2 x 11
200	226	_

Recommended tightening torque: 0.6 Nm for screws M4



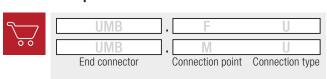
## Connection point

F – fixed pointM – driver

#### **Connection type**

U – universal mounting bracket

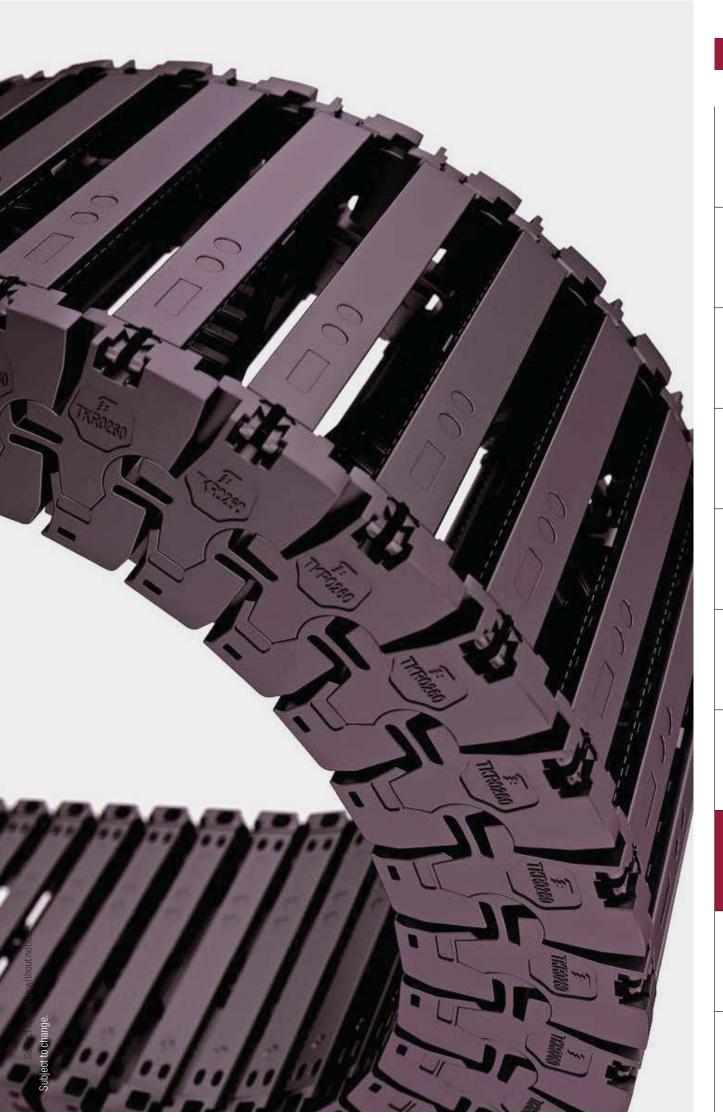
### Order example



We recommend the use of strain reliefs at the driver and fixed point. See from p. 908.

TKR eries

TKA series



K series

UNIFLEX Advanced series

M series

TKHD series

XL series

QUANTUM® series

TKR series

TKA series

# **TKR0280**



Pitch 28 mm



Inner height 52 mm



Inner widths 50 - 200 mm



Bending radii 75 - 200 mm

## Stay variants



**Design 030** page **564** 

#### Frame with outside detachable crossbar

- Low-vibration plastic frame with particularly long service life thanks to molded chain links.
- Outside: Swivable and detachable
- Inside: detachable



#### TOTALTRAX® complete systems

Benefit from the advantages of the TOTALTRAX® complete system. A complete delivery from one source – with a warranty certificate on request! Learn more at tsubaki-kabelschlepp.com/totaltrax

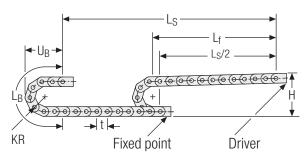


#### TRAXLINE® cables for cable carriers

Hi-flex electric cables which were especially developed, optimized and tested for use in cable carriers can be found at tsubaki-kabelschlepp.com/traxline

## TKR0280 | Installation dim. | Unsupported

#### **Unsupported arrangement**



KR [mm]	H [mm]	L <sub>B</sub> [mm]	U <sub>B</sub> [mm]
75	252	348	167
100	302	427	192
150	402	584	242
200	502	741	292

**Load diagram for unsupported length** depending on the additional load.

Sagging of the cable carrier is technically permitted for extended travel lengths, depending on the specific application.

Intrinsic cable carrier weight  $q_k = 2.0 \ \text{kg/m}$  at  $B_i$  50 mm. For other inner widths, the maximum additional load changes.



**Speed** up to 5 m/s



Acceleration up to 200 m/s<sup>2\*</sup>

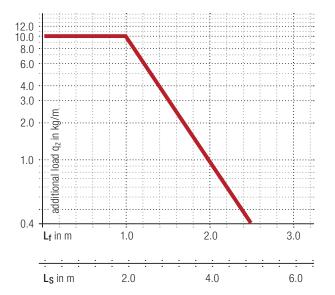


Travel length up to 4.9 m



Additional load up to 10.0 kg/m

\* For values > 20 m/s<sup>2</sup>, please contact us, we are happy to advise you!



## More product information online



Assembly instructions etc.: Additional info via your smartphone or check online at tsubaki-kabelschlepp.com/ downloads



Configure your custom cable carrier here: online-engineer.de

UAI series

TKHD series

XL series

QUANTUM® series

TKR series

TKA series

## TKR0280.030 | Dimensions · Technical data

**Stay variant 030 –** with outside opening and detachable crossbars

- Low-vibration plastic frame with particularly long service life thanks to molded chain links.
- Swivable and detachable on one side in any position.
- **Outside:** Swivable and detachable
- Inside: detachable

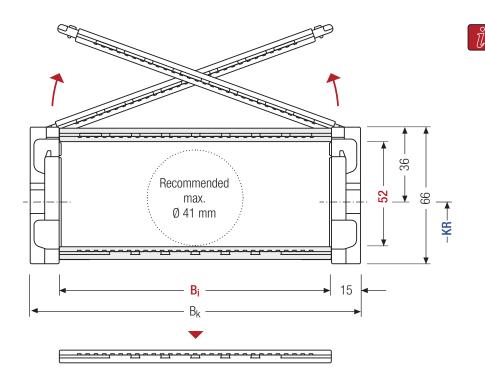




Stay arrangement on each chain link (VS: fully-stayed)



 $B_{i} 50 - 200 \text{ mm}$ 



The maximum cable diameter strongly depends on the bending radius and the desired cable type. Please contact us.

## Calculating the cable carrier length

#### Cable carrier length Lk

$$L_k \approx \frac{L_S}{2} + L_B$$

Cable carrier length L<sub>k</sub> rounded to pitch t for odd number of chain links

hį	hG	B <sub>i</sub>	$B_k$	KR	$q_k$
[mm]	[mm]	[mm]	[mm]	[mm]	[kg/m]
52	66	50 62 75 87 100 125 150 200	B <sub>i</sub> + 30	<b>75 100 150 200</b>	2.0 - 3.2

#### Order example



#### **Divider systems**

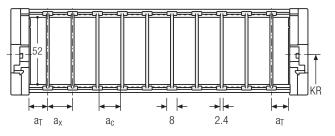
As standard, the divider system is mounted on every 2<sup>nd</sup> chain link.

As a standard, dividers and the complete divider system (dividers with height separations) can be moved in the cross section (version A).

Fixable dividers are available for applications with lateral accelerations and for applications lying on the side. The arresting cams click into place in the locking grids in the crossbars (version B).

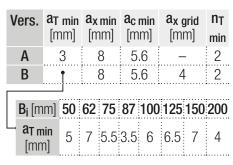
### Divider system TS0 without height separation

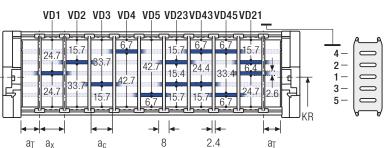
Vers.		$\begin{array}{c} a_{xmin} \\ \text{[mm]} \end{array}$		a <sub>x grid</sub> [mm]	n <sub>T</sub>
Α	3	8	5.6	_	<u> </u>
В	•	8	5.6	4	_
B <sub>i</sub> [m a <sub>T m</sub>	nin 5			<b>125 150</b> 6.5 7	<b>200</b> 4





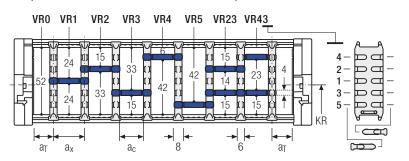
## Divider system TS1 with continuous height separation





#### **Divider system TS3** with height separation made of aluminum partitions

Vers.		a <sub>x min</sub> [mm]		a <sub>x grid</sub> [mm]	n <sub>T</sub>
Α	3	26	20	_	2
В	•	28	22	4	2
		62 75	87 100	125 150	200
⊸ a <sub>T m</sub> [mn	. n	7 5.5	3.5 6	6.5 7	4



The dividers are fixed by the partitions. the complete divider system is movable in the cross section.

Subject to change without notice.

Aluminum section subdivisions are only available with  $a_x > 26 \text{ mm}$ .

K series

UNIFLEX Advanced series

> M series

TKHD series

XL series

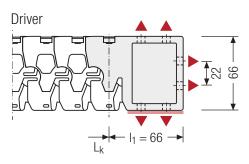
QUANTUM® series

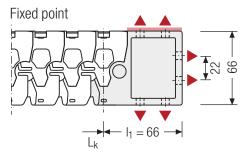
#### TKR series

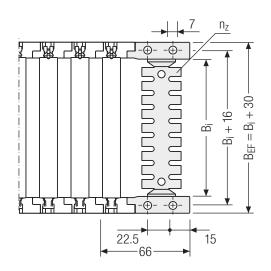
TKA series

#### UMB end connectors UMB - plastic

The universal mounting brackets (UMB) are made from plastic and can be mounted from the top, from the bottom or face on.



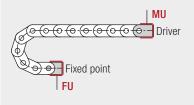




#### ▲ Assembly options

<b>B</b> i [mm]	<b>B</b> EF [mm]	n <sub>z</sub>
50	80	2 x 3
62	92	_
75	105	2 x 5
87	117	_
100	130	2 x 7
125	155	2 x 9
150	180	2 x 11
200	230	_

Recommended tightening torque: 0.6 Nm for screws M4



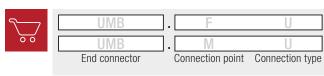
#### **Connection point**

F – fixed pointM – driver

#### Connection type

U – universal mounting bracket

#### Order example



We recommend the use of strain reliefs at the driver and fixed point. See from p. 908.





K series

UNIFLEX Advanced series

M series

TKHD series

XL series

QUANTUM® series

TKR series

TKA series

XL series

TKR series

# **TKR0370**



Pitch 37 mm



Inner height 28 mm



Inner widths 40 - 80 mm



Bending radii 55 - 100 mm

## Stay variants



### Plastic stay RE page 570

#### Frame screw-in stay

- Plastic stay for light to medium loads. Assembly without
- Outside/inside: to open by rotating.



#### TOTALTRAX® complete systems

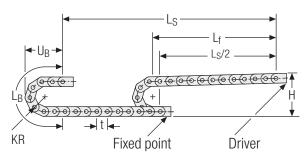
Benefit from the advantages of the TOTALTRAX® complete system. A complete delivery from one source – with a warranty certificate on request! Learn more at tsubaki-kabelschlepp.com/totaltrax



#### TRAXLINE® cables for cable carriers

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#### **Unsupported arrangement**



KR	H	L <sub>B</sub>	$U_{B}$
[mm]	[mm]	[mm]	[mm]
75	252	348	167
100	302	427	192
150	402	548	242
200	502	741	292

**Load diagram for unsupported length** depending on the additional load.

Sagging of the cable carrier is technically permitted for extended travel lengths, depending on the specific application.

Intrinsic cable carrier weight  $q_k = 0.55 \ \text{kg/m}$  at  $B_i \ 50 \ \text{mm}$ . For other inner widths, the maximum additional load changes.



**Speed** up to 5 m/s



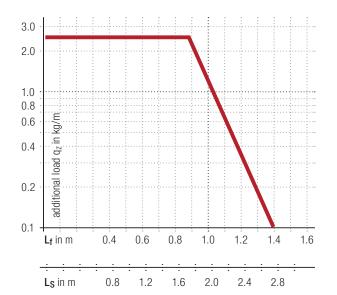
Acceleration up to 200 m/s<sup>2\*</sup>



Travel length up to 2.8 m



**Additional load** up to 2.4 kg/m



### More product information online



Assembly instructions etc.: Additional info via your smartphone or check online at tsubaki-kabelschlepp.com/ downloads



Configure your custom cable carrier here: online-engineer.de

M series

TKHD series

XL series

QUANTUM® Series

TKR series

TKA

UAI series

<sup>\*</sup> For values > 20 m/s<sup>2</sup>, please contact us, we are happy to advise you!

## TKR0370 RE | Dimensions · Technical data

## Plastic stay RE -

## screw-in frame stay

- Plastic stay for light and medium loads. Assembly without screws.
- Available in 5 widths.
- **Outside/inside:** to open by rotating.





Stay arrangement on each chain link (VS: fully-stayed)



 $B_{i} 40 - 80 \text{ mm}$ 



ri series

UNIFLEX Advanced series

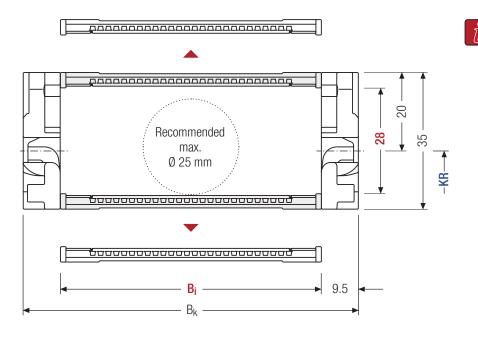
> TKHD series

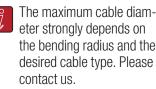
XL series

QUANTUM® series



TKA series





## Calculating the cable carrier length

#### Cable carrier length L<sub>k</sub>

$$L_k \approx \frac{L_S}{2} + L_B$$

Cable carrier length L<sub>k</sub> rounded to pitch t for odd number of chain links

h <sub>i</sub> [mm]	h <sub>G</sub> [mm]		B <sub>i</sub> [mm]			B <sub>k</sub> [mm]		KR [mm]	]	<b>q<sub>k</sub></b> [kg/m]
28	35	40								0.53 – 0.61

#### Order example



## TKR0370 RE | Inner distribution | TS0 · TS1 · TS3

#### **Divider systems**

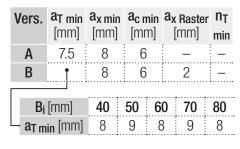
As standard, the divider system is mounted on every  $2^{\text{nd}}$  chain link.

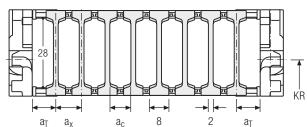
As a standard, dividers and the complete divider system (dividers with height separations) can be moved in the cross section (version A).

Fixable dividers are available for applications with lateral accelerations and for applications lying on the side.

The arresting cams click into place in the locking grids in the crossbars (version B).

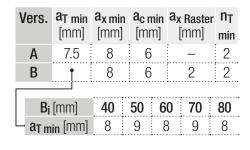
### Divider system TS0 without height separation

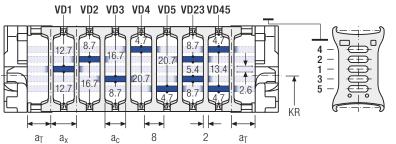






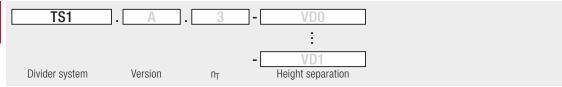
#### Divider system TS1 with continuous height separation





#### Order example





Please state the designation of the divider system (TS0, TS1 ...), version and number of dividers per cross section  $[n_T]$ .

If using divider systems with height separation **(TS1)** please also state the positions [e.g. VD1] viewed from the left driver belt. You are welcome to add a sketch to your order.

PR0TUM<sup>®</sup> series

K series

UNIFLEX Advanced series

> M series

TKHD series

XL series

QUANTUM® series

TKR

IKA series

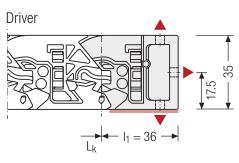
TKHD series

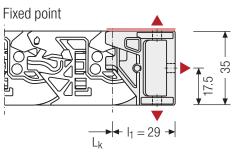
XL series

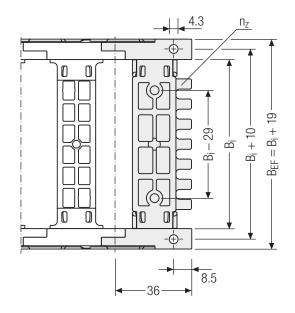
QUANTUM® series

## UMB end connectors UMB - plastic

The universal mounting brackets (UMB) are made from plastic and can be mounted from the top, from the bottom or face on.



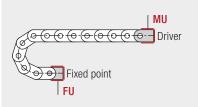




#### Assembly options

<b>B</b> i [mm]	<b>B<sub>EF</sub></b> [mm]	n <sub>z</sub>
40	59	3
50	69	4
60	79	5
70	89	6
80	99	7

Recommended tightening torque: 0.6 Nm for screws M4



#### **Connection point**

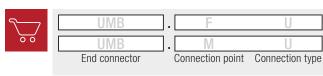
F - fixed point

M - driver

#### Connection type

U - universal mounting bracket

#### Order example





UNIFLEX Advanced series

M series

TKHD series

XL series

QUANTUM® series

TKR series

TKA series