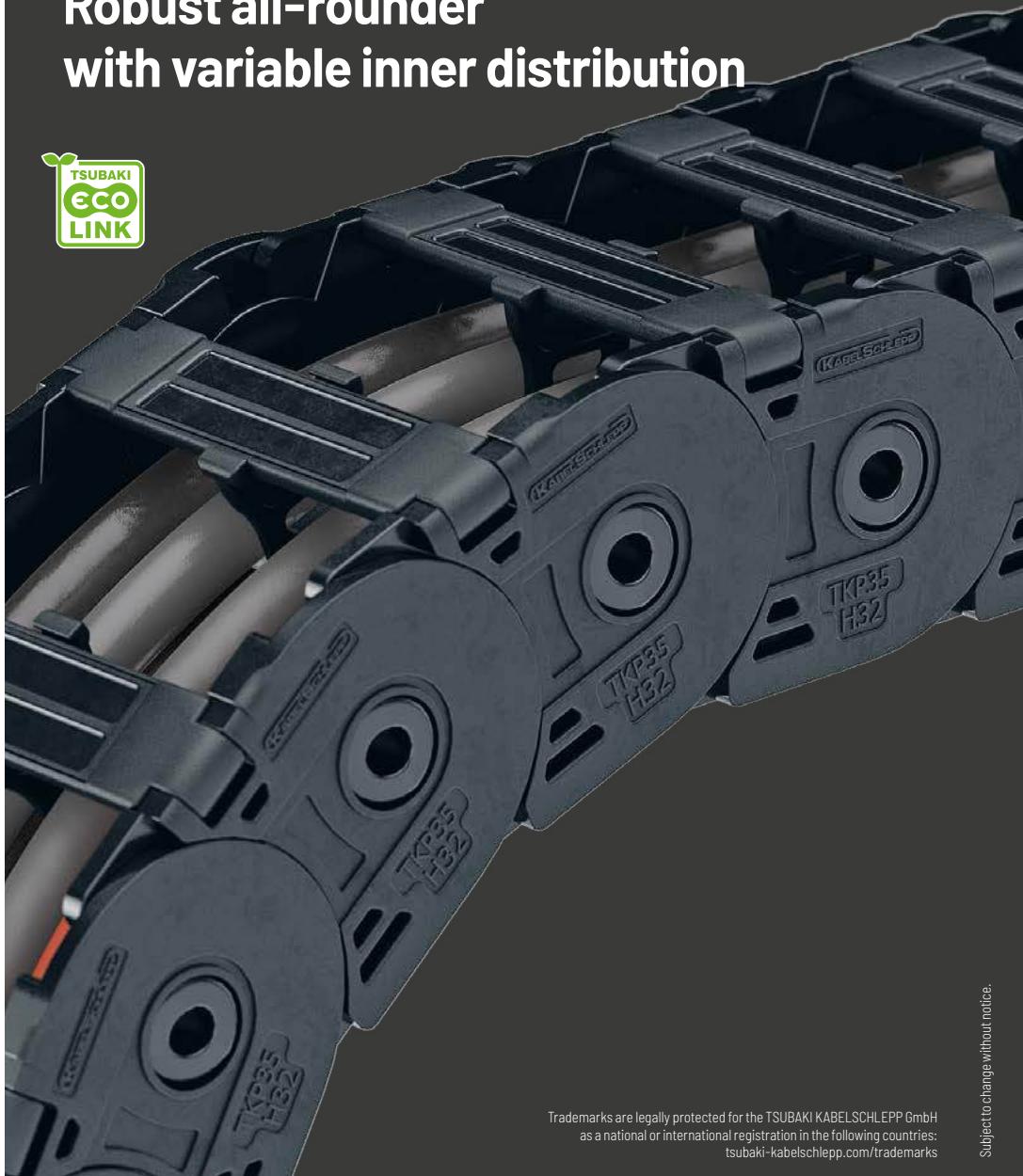
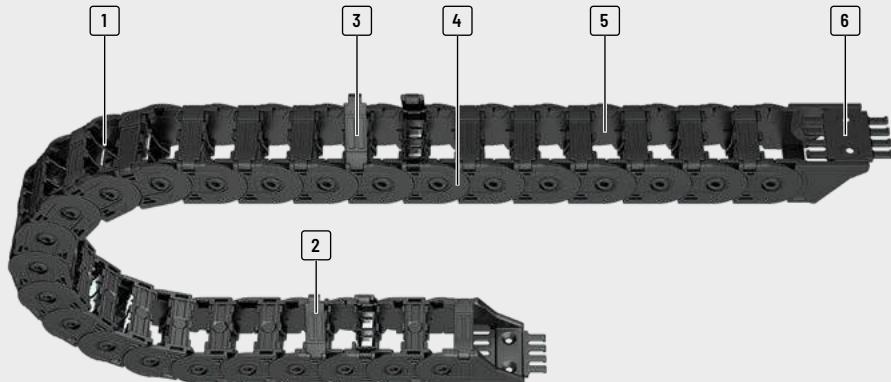


# TKP35 series

Robust all-rounder  
with variable inner distribution



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1	2	3	4	5	6	Configuration guidelines	Cable carrier configuration	Cable carrier
Dividers and height partitions for cable separation	Designs with inward or outward opening crossbars	Easy and quick to open at any position	Integrated noise damping	Interior space is gentle on the cables without sharp edges	End connectors with optional strain relief	Materials information	MONO series	MONO series

## Features

- » Robust and extremely rigid stroke system
- » Quiet operation due to internal dampening system
- » Weight-optimized cable carrier geometry
- » Interior without sharp edges, design that protects the cable
- » Variable inner distribution
- » Vertical moveable dividers or with arresting cams, can be attached at 2-mm increments (not B<sub>1</sub> 16)
- » Easy-to-open versions, left or right (not B<sub>1</sub> 16)
- » Quick and easy to open
- » Optional strain relief can be fully integrated into the end connector



Reliable cable separation through fixable dividers



Design 030 with outside opening and detachable crossbars on both sides



Design 040 with inside opening and detachable crossbars on both sides



Optimised utilisation of the interior space; vertical and horizontal inner distribution possible

EasyTrax® series	TKK series	UNIFLEX Advanced series	QuickTrax® series	MONO series	Materials information	Configuration guidelines	Cable carrier configuration	Type	Cable carrier		Additional load $\leq$ [kg/m]	Cable- $d_{max}$ [mm]	
									Opening variant	Stay variant			
<b>TKP35</b>													
				030	32	40	16 - 50	26 - 62	-	35	48 - 125	2	25
				040	32	40	25 - 50	37 - 62	-	35	48 - 125	2	25

EasyTrax <sup>®</sup> series	TKK series	TKP35 series	UNIFLEX Advanced series	QuickTrax <sup>®</sup> series	MONO series	Materials information	Configuration guidelines	Cable carrier configuration	Cable carrier	Page			
Travel length $\leq$ [m]	$v_{\max} \leq$ [m/s]	$a_{\max} \leq$ [m/s $^2$ ]	Travel length $\leq$ [m]	$v_{\max} \leq$ [m/s]	$a_{\max} \leq$ [m/s $^2$ ]	TS0	TS1	TS2	TS3	vertical hanging or standing	lying on the side	rotating arrangement	Page
2.3	5	20	-	-	-	•	•	-	-	•	•	•	220
2.3	5	20	-	-	-	•	•	-	-	•	•	•	221

# TKP35

Cable carrier

Cable carrier configuration

Configuration guidelines

Materials information

QuickTrax® series

UNIFLEX Advanced series

TKP35 series

TKK series

EasyTrax® series



**Pitch**  
35 mm



**Inner height**  
32 mm



**Inner widths**  
16 - 50 mm



**Bending radii**  
48 - 125 mm

## Stay variants



**Design 030** ..... page 220

**Frame with outside opening crossbars on both sides**

- » Weight-optimised plastic frame with particularly high torsional rigidity.
- » Can be opened at any position on both sides.
- » **Outside:** opening and detachable crossbars.

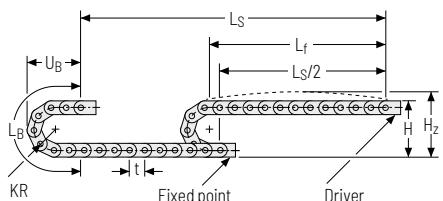


**Design 040** ..... page 221

**Frame with inside opening crossbars on both sides**

- » Weight optimised plastic frame with high torsional rigidity.
- » Can be opened at any position on both sides.
- » **Inside:** opening and detachable crossbars.

## Unsupported arrangement

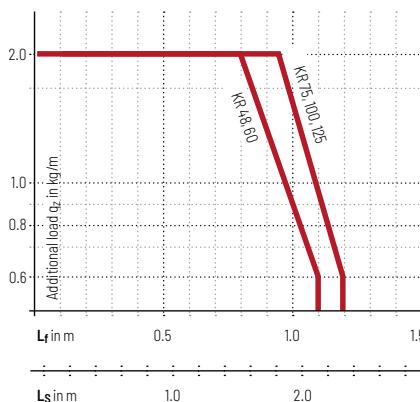
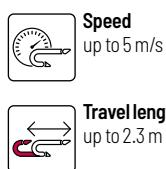


KR [mm]	H [mm]	Hz [mm]	Lb [mm]	Ub [mm]
48	146	176	220	103
60	170	200	258	115
75	200	230	306	130
100	250	280	384	155
125	300	330	463	180

**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  $q_k = 0.5 \text{ kg/m}$  with  $B_1 16 \text{ mm}$ . For other inner widths, the maximum additional load changes.



EasyTrax® series

Cable carrier configuration

Configuration guidelines

Materials information

MONO series

QuickTrax® series

UNIFLEX Advanced series

TKP35 series

TKK series

EasyTrax® series

### TRAXLINE® cables for cable carriers



Hi-flex electric cables which were specially developed, optimised and tested for use in cable carriers can be found at [tsubaki-kabelschlepp.com/traxline](http://tsubaki-kabelschlepp.com/traxline).

### Additional product information online



Installation instructions, etc.:  
Additional info via your smartphone or  
check online at  
[tsubaki-kabelschlepp.com/downloads](http://tsubaki-kabelschlepp.com/downloads)



Configure your cable carrier here:  
[online-engineer.de](http://online-engineer.de)

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

- » Weight-optimised plastic frame with particularly high torsional rigidity.
- » Can be opened at any position on both sides.
- » **Outside:** opening and detachable crossbars.



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



B<sub>i</sub> 16 – 50 mm

### Configuration guidelines

### Materials information

### MONO series

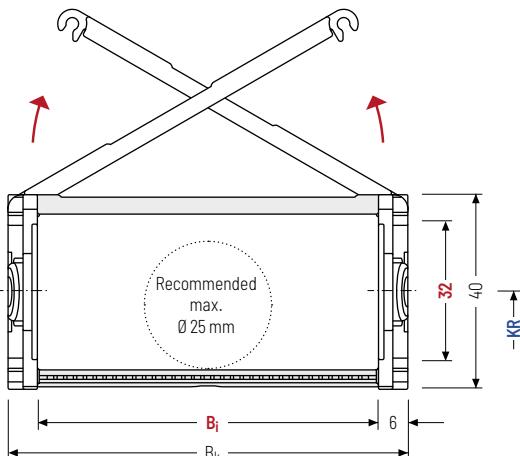
### QuickTrax® series

### UNIFLEX Advanced series

### TKP35 series

### TKK series

### EasyTrax® series



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<sub>k</sub> rounded to pitch t

h <sub>i</sub> [mm]	h <sub>G</sub> [mm]	B <sub>i</sub> [mm]	B <sub>k</sub> [mm]	KR [mm]	q <sub>k</sub> [kg/m]
32	40	16 25 38 50	50	B <sub>i</sub> + 12*	48 60 75 100 125

\*For B<sub>i</sub> 16 = B<sub>i</sub> + 10

### Order example



TKP35  
Type

030  
Stay variant

50  
B<sub>i</sub> [mm]

100  
KR [mm]

700  
L<sub>k</sub> [mm]

VS  
Stay arrangement

## Stay variant 040 – with inside opening and detachable crossbars

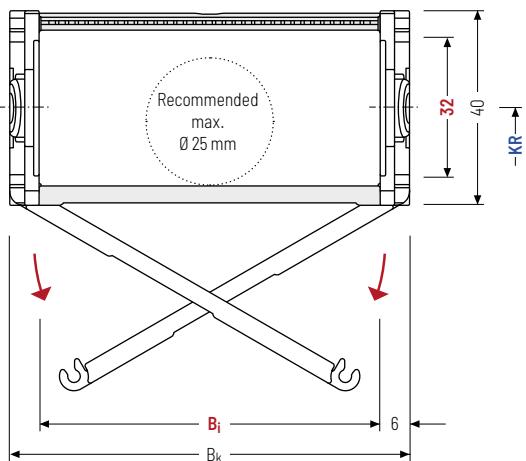
- » Weight-optimised plastic frame with particularly high torsional rigidity.
- » Can be opened at any position on both sides.
- » **Inside:** opening and detachable crossbars.



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



B<sub>i</sub> 25 – 50 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<sub>k</sub> rounded to pitch t

h <sub>i</sub> [mm]	h <sub>G</sub> [mm]	B <sub>i</sub> [mm]	B <sub>k</sub> [mm]	B <sub>i</sub> + 12	KR [mm]	q <sub>k</sub> [kg/m]
32	40	25	38	50	48	0.6 – 0.8

### Order example

TKP35 Type . 040 Stay variant . B<sub>i</sub> 50 [mm] . KR 100 [mm] – L<sub>k</sub> 700 [mm] . VS Stay arrangement

## Divider systems

The divider system is mounted on every 2<sup>nd</sup> chain link as a standard.

As a standard, dividers or the complete divider system (dividers with height separations) are movable in the cross section (**version A**).

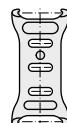
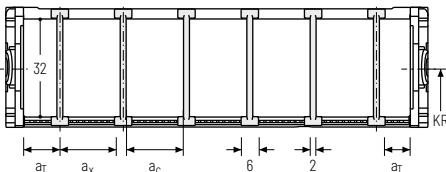
For applications with lateral accelerations and applications with the cable carrier rotated by 90°, the dividers can easily be fixed on the stay through rotation.

The arresting cams snap into the catch profiles in the covers (**version B**).

### Divider system TSO without height separation

Vers.	$a_T$ min [mm]	$a_x$ min [mm]	$a_c$ min [mm]	$a_x$ grid [mm]	$n_T$ min
A	3	6	4	-	-
B	4.5* / 5	6	4	2	-

\* Only B: 25

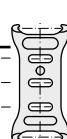
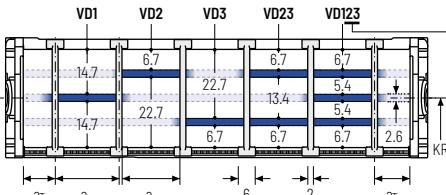


### Divider system TS1 with continuous height separation

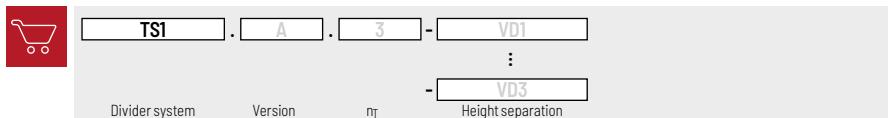
Vers.	$a_T$ min [mm]	$a_x$ min [mm]	$a_c$ min [mm]	$a_x$ grid [mm]	$n_T$ min
A	3	6	4	-	2
B	4.5* / 5	6	4	2	2

\* Only B: 25

The dividers can be moved in the cross section.



### Order example

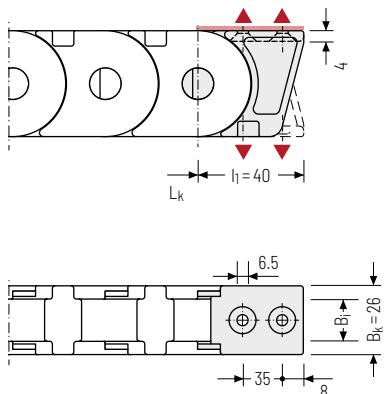


Please state the designation of the divider system (**TS0, TS1, ...**), the version, and the number of dividers per cross section [ $n_T$ ].

When using divider systems with height separation (TS1), please additionally state the position (e.g. VD1) viewed from the left driver belt. You are welcome to add a sketch to your order.

### Single-part end connectors - plastic (suitable for $B_i$ 16)

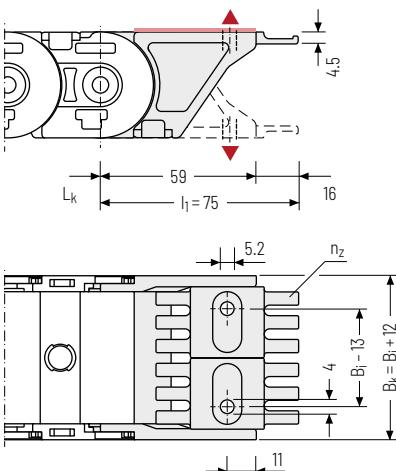
The plastic end connectors can be **connected from above or below**. The connection type can be changed by altering the position of the end connector.



▲ Assembly options

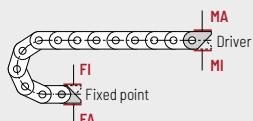
### Single-part end connectors - plastic (suitable for $B_i$ 25 – 50)

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



The end connectors are optionally also available without strain relief comb.

$B_i$ [mm]	$B_{EF}$ [mm]	$n_z$
25	37	2
38	50	4
50	62	6



#### Connection point

F – fixed point  
M – driver

#### Connection type

A – threaded joint outside (standard)  
I – threaded joint inside

### Order example

	End connector	F	A
	End connector	M	A

End connector      Connection point      Connection type