

Cable carrier configuration

EasyTrax® series



- 1 Very short steel end connectors
- 2 Plastic chain links
- 3 Extensive unsupported
- 4 Link system repels dust and chips
- 5 Smooth surface for smooth running
- 6 Inside openable (design 040)
- 7 Dividers and height separations for cable separation

Features

- » High torsional rigidity
- » Optimised dividers to protect cables: rounded inner and outer profile
- » Extensive unsupported length
- » New dirt-resistant design of the chain links to protect against dust and chips
- » Smooth surface for optimum running
- » Closed and openable designs
- » Very short end connectors
- » Fixable dividers

- » Optimised stroke system
- » High side stability
- » Space-saving design for small spaces

















Optimised divider design to protect cables



New design of chain links. Link system repels dust, chips and dirt



Very short end connectors

QuickTrax[®] series

UNIFLEX Advanced series

> TKP35 series

TKK series

Type Opening variant Stay variant Addi-B_{i-} grid [mm] Cable-B_i [mm] h_G [mm] **t** [mm] $B_{\boldsymbol{k}}$ KR tional d_{max} load ≤[kg/m] [mm] [mm] [mm] [mm] X mm 爻 \longleftrightarrow **TKK39** 020 46 - 95 39 50 39 - 99 60 - 120 39 10 31 040 39 50 60 - 120 39 46 - 95 10 31 39 - 99_

TKK series | Overview

Unsuppo	rted arrai	ngement	Glidin	g arrange	ment	I	Inner Distribution Movement						Page
$\begin{array}{c} \textbf{Travel} \\ \textbf{length} \\ \leq [m] \end{array}$	v _{max} ≤[m/s]	$a_{\text{max}} \le [\text{m/s}^2]$	$\begin{array}{c} \textbf{Travel} \\ \textbf{length} \\ \leq [m] \end{array}$	v max ≤[m/s]	a_{max} ≤[m/s ²]	TS0	TS1	TS2	TS3	vertical hanging or standing	lying on the side	rotating arrangement	Pa
			$\stackrel{\longleftrightarrow}{\blacksquare}$					H		vertica or	lyingo	arr	
4.8	3	9	120	2.5	9	•	•	-	-	•	•	•	230
4.8	3	9	-	-	-	•	•	-	-	•	•	•	231

TKK39







Inner height 39 mm



Inner width 39 - 99 mm



Bending radii 46 – 95 mm

Stay variants



Design 020......page **230**

- » Weight-optimised, closed plastic frame with particularly high torsional rigidity.
- » Outside/inside: closed.



Design 040......page **231**

Frame with inside opening crossbar

- » Weight-optimised plastic frame with particularly high torsional rigidity.
- » Crossbars can be opened at any position on one side.
- » Inside: openable.



TRAXLINE® cables for cable carriers

 $\mbox{Hi-flex}$ electric cables which were specially developed, optimised and tested for use in cable carriers can be found at

tsubaki-kabelschlepp.com/traxline.

Additional product information online



Installation instructions, etc.:
Additional information via your smartphone or online at

tsubaki-kabelschlepp.com/ downloads



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

Sable carrier

Cable carrier configuration

Configuration guidelines

Materials information

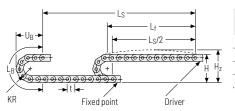
QuickTrax® series

UNIFLEX Advanced series

TKP35 series

TKK39 | Installation dim. | Unsupported · Gliding

Unsupported arrangement



KR	Н	Hz	L_B	U_{B}
[mm]	[mm]	[mm]	[mm]	[mm]
46	142	172	222	149
58	166	196	260	161
70	190	220	298	173
95	240	270	376	198

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 applica-

Intrinsic cable carrier weight $q_k = 1.56 \text{ kg/m}$. The maximum additional load changes with deviating inner widths.



Speed up to 3 m/s

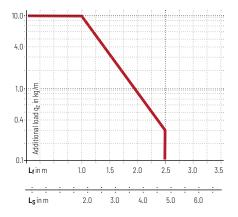
Travel length up to 4.8 m



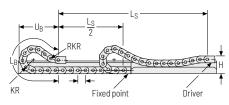
Acceleration up to 9 m/s²



Additional load up to 10 ka/m



Gliding arrangement



KR [mm]	H [mm]	n _{RKR}	L _B [mm]	U_B [mm]
46	142	0	222	149
58	150	2	405	196
70	150	3	551	257
95	150	4	770	341



Speed up to 2.5 m/s



The gliding cable carrier must be guided in a channel. See p. 866.



Travel length up to 120 m



Only design 020 can be used for a gliding arrangement.

Subject to change without notice.

EasyTrax® series

Cable carrier

Cable carrier configuration

Configuration guidelines

Materials information

> MON0 series

JuickTrax[®] series

UNIFLEX Advanced series

> TKP35 series

TKK series

Stay variant 020 -

closed frame

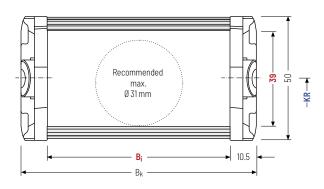
- » Weight-optimised, closed plastic frame with particularly high torsional rigidity.
- » Outside/inside: closed.





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





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_k

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

Cable carrier length L_k rounded to pitch t

h _i	h _G	B i]	B_k	KR	q k
[mm]	[mm]	[mm		[mm]	[mm]	[kg/m]
39	50	39 59	74 99	B _i + 21	46 58 70 95	1.29 - 1.71

Order example



EasyTrax® series

Stay variant 040 -

with inside opening crossbar

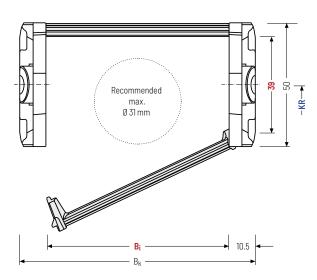
- » Weight-optimised plastic frame with particularly high torsional rigidity.
- » Crossbars can be opened at any position on one side.
- » Inside: openable.





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





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_k rounded to pitch t

h _i [mm]	h _G B _i [mm]							B _k KR [mm] [mm]				q k [kg/m]							
39	 50	.i	39		59		74		99	 B _i + 21		46		58		70		95	 1.29 - 1.72

Order example



Cable carrier

TKK39 | Inner distribution | TS0 · TS1

Divider systems

The divider system is mounted on every 2nd chain link as a standard.

Dividers, and the complete divider system (dividers with height separations) comes as diameter adjustable as standard (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.

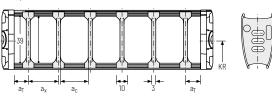
The arresting cams snap into the catch profiles in the crossbars (version B).

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
Α	5	10	7	-	-
B*	9.5	10	7	2	-

^{*} not for design 020

The dividers can be moved in the cross section.

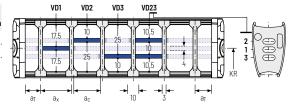


Divider system TS1 with continuous height separation*

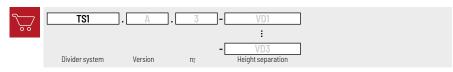
Vers.				a_{x grid} [mm]	
Α	5	10	7	-	2
В	9.5	10	7	2	2

^{*} not for design 020

The dividers can be moved in the cross section.



Order example

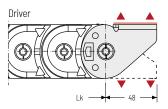


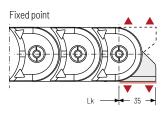
Please state the designation of the divider system (TS0, TS1,...), the version, and the number of dividers per cross section $[n_T]$.

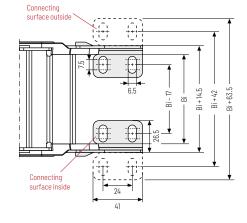
When using divider systems with height separation (TS1), please additionally state the position (e.g. VD1) viewed from the left driver belt. You are welcome to add a sketch to your order.

End connectors - steel

The steel 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

Connection point Connection type

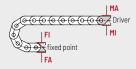
F - fixed point M - driver A - connecting surface outside

connecting surface inside

Connecting surface

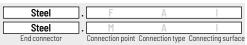
A - threaded joint outside (standard)

I - threaded joint inside



Order example







We recommend the use of strain reliefs at the driver and fixed point. See from p. 924.

Additional product information online



Subject to change without notice.

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

tsubaki-kabelschlepp.com/ downloads



Configure your cable carrier here: online-engineer.de