

# QuickTrax<sup>®</sup> series

Compact and cost-effective  
cable carriers in  
two-component technology



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Inner heights



Inner widths

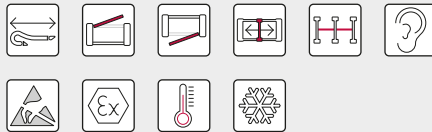


- 1 Sturdy 2-component design: hard chain body, flexible film hinge
- 2 Plastic chain links
- 3 Extensive unsupported length
- 4 Inside space is gentle on the cables – no interfering edges
- 5 Very quiet through integrated noise damping
- 6 Quick and easy to open
- 7 Inside/outside openable
- 8 Dividers and height separations for cable separation
- 9 Single-part end connectors with and without integratable strain relief

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## Features

- Extremely fast and easy cable laying thanks to crossbar with film hinge
- Each chain link consists of two different materials:
  - Hard chain body made of glass-fibre reinforced material
  - Crossbar with flexible film hinge made of elastic special plastic
- Sturdy cable carrier design
- High torsional rigidity
- Very quiet through integrated noise damping
- Extensive unsupported length



Easy to open...



...even without tools



High side stability



Reliable cable separation

Key for abbreviations on page 16

Type	Opening variant	Stay variant	$h_i$ [mm]	$h_G$ [mm]	$B_i$ [mm]	$B_k$ [mm]	$B_i$ - grid [mm]	t [mm]	KR [mm]	Additional load ≤ [kg/m]	Cable- $d_{max}$ [mm]
<b>QT0320</b>											
		030	20	25.5	15-65	27-77	-	32	28-125	3	16
		040	20	25.5	15-65	27-77	-	32	28-125	3	16

Design guidelines from page 64

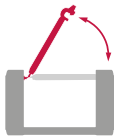
### The two-component technology of the QT0320

The two-component technology of the QT0320 combines two seemingly incompatible features: **Stability and flexibility.**

Cable carriers need to be extremely sturdy, with extensive unsupported length. At the same time, cables need to be inserted easily for fast cable laying.

The QT0320 meets these requirements thanks to its innovative design and material combination of a hard cable carrier body made from glass fiber-reinforced material and crossbars with a film hinge made from rigid special plastic.

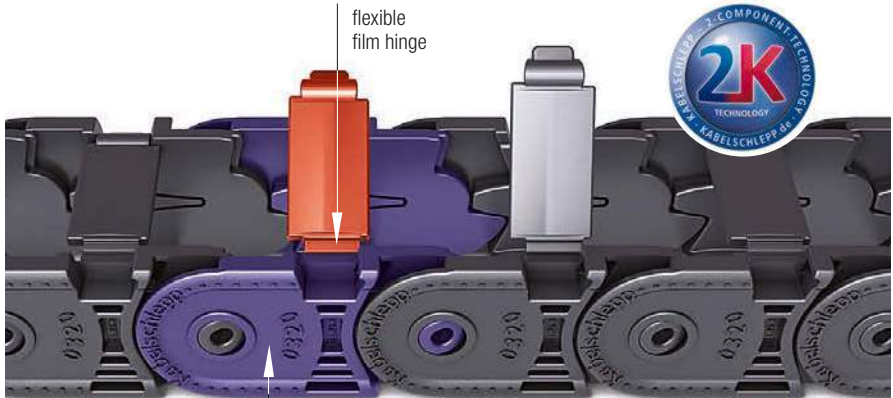
Technical support: [technik@kabelschlepp.de](mailto:technik@kabelschlepp.de)



high flexibility



high stability



flexible film hinge

hard chain link of fiber glass reinforced material

Unsupported arrangement			Gliding arrangement			Inner distribution				Installation variants			Page
Travel length ≤ [m]	$V_{max} \leq [m/s]$	$a_{max} \leq [m/s^2]$	Travel length ≤ [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	
2.9	10	50	80	2.5	25	●	●	-	-	●	●	●	134
2.9	10	50	-	-	-	●	●	-	-	●	●	●	135

Inner heights



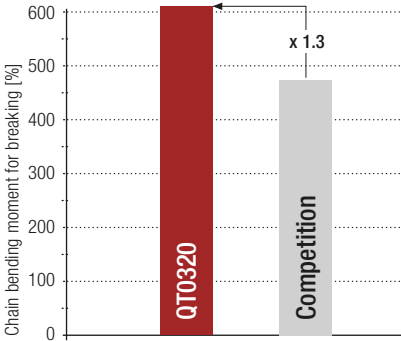
Inner widths



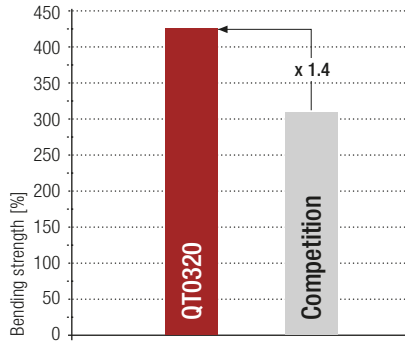
## Comparison of dimensions

Manufacturer	$h_i$ [mm]	$h_G$ [mm]	t [mm]	Identical connection hole pattern
QT0320	20.0	25.5	32.0	ja
Competitive product	17.5	23.0	30.5	ja

## Comparison of bending moment



## Comparison of bending strength



## Advantages over competitive product

- 20 % longer unsupported length compared to competitive product
- 33 % greater additional load through use of fiber glass reinforced plastic
- Greater inner height
- Low noise operation due to internal damping system
- High side stability through locking in the stroke system
- Dividers can be used for cable separation

Subject to change.

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# QT0320

Key for abbreviations  
on page 16Pitch  
32 mmInner height  
20 mmInner widths  
15 – 65 mmBending radii  
28 – 125 mm

## Stay variants

Design guidelines  
from page 64**Design 030** ..... page 134**Frame with outside opening crossbars**

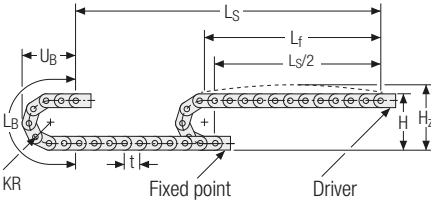
- Weight-optimised plastic frame with particularly high torsional rigidity.
- Crossbar can be opened at any position on one side.
- **Outside:** openable.

**Design 040** ..... page 135**Frame with inside opening crossbars**

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

Technical support:  
[technik@kabelschlepp.de](mailto:technik@kabelschlepp.de)

Unsupported arrangement



KR [mm]	H [mm]	H <sub>z</sub> [mm]	L <sub>B</sub> [mm]	U <sub>B</sub> [mm]
28	81.5	101.5	152	73
38	101.5	121.5	184	83
48	121.5	141.5	215	93
75	175.5	195.5	300	120
100	225.5	245.5	379	145
125	275.5	295.5	457	170

Inner heights

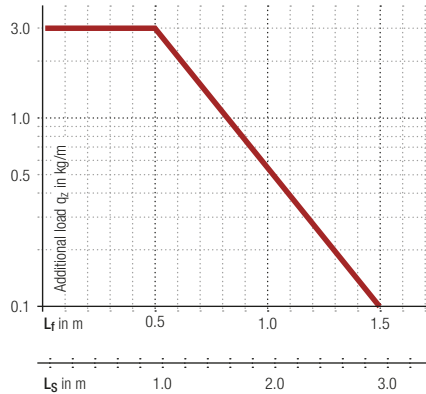


Inner widths



Load diagram for unsupported length depending on the additional load.

Intrinsic cable carrier weight  $q_k = 0.40$  kg/m with B<sub>1</sub> 38 mm. For other inner widths, the maximum additional load changes.



**Speed**  
up to 10 m/s

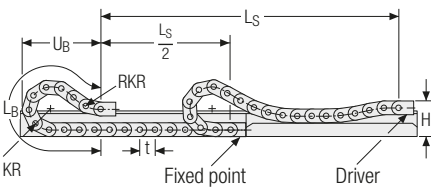
**Acceleration**  
up to 50 m/s<sup>2</sup>

**Travel length**  
up to 2.9 m

**Additional load**  
up to 3 kg/m

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Gliding arrangement



**Speed**  
up to 2.5 m/s

**Acceleration**  
up to 25 m/s<sup>2</sup>

The gliding cable carrier must be guided in a channel. See p. 706.

Only design 030 can be used for a gliding arrangement.

**Travel length**  
up to 80 m

**Additional load**  
up to 3 kg/m

## Stay variant 030 – with outside opening crossbars

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



Key for abbreviations  
on page 16

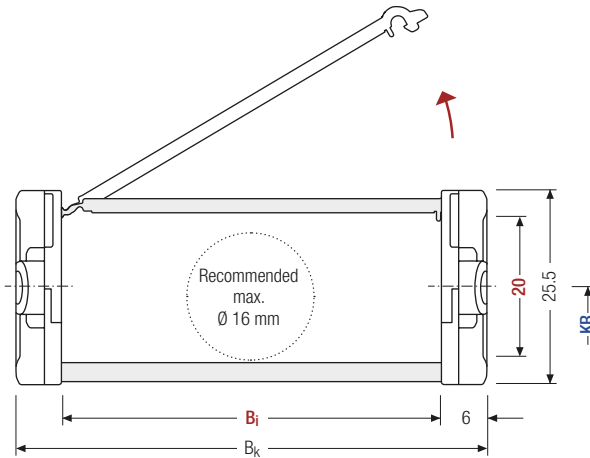


Stay arrangement on each chain link (**VS: fully-stayed**)



$B_i$  15 – 65 mm

Design guidelines  
from page 64



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  $t$

Technical support:  
technik@kabelschlepp.de

$h_i$ [mm]	$h_G$ [mm]	$B_i$ [mm]				$B_k$ [mm]	KR [mm]					$q_k$ [kg/m]		
20	25.5	15	25	38	50	65	$B_i + 12$	28	38	48	75	100	125	0.35 – 0.45

### Order example

QT0320 · 
 030 · 
 50 · 
 100 · 
 1,280 · 
 VS  
 Type      Stay variant       $B_i$  [mm]      KR [mm]       $L_k$  [mm]      Stay arrangement

Stay variant 040 – with inside opening crossbars

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



Inner heights



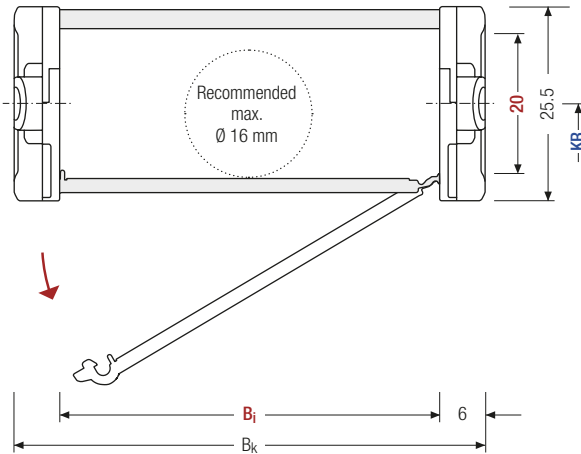
Inner widths



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



$B_i$  15 – 65 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  $L_k$

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

Cable carrier length  $L_k$  rounded to pitch  $t$

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$h_i$ [mm]	$h_G$ [mm]	$B_i$ [mm]		$B_k$ [mm]	KR [mm]			$q_k$ [kg/m]						
20	25.5	15	25	38	50	65	$B_i + 12$	28	38	48	75	100	125	0.35 – 0.45

Order example

QT0320
.
040
.
50
.
100
.
1.280
-
VS

Type      Stay variant       $B_i$  [mm]      KR [mm]       $L_k$  [mm]      Stay arrangement



## Divider systems

The divider system is mounted on each crossbar as a standard – on every 2<sup>nd</sup> chain link for stay mounting (HS).

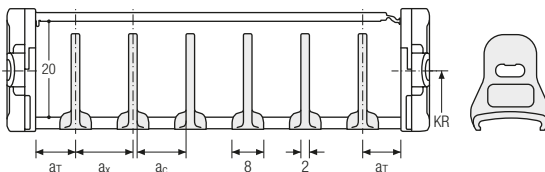
As a standard, dividers or the complete divider system (dividers with height separations) are movable in the cross section (**version A**).

Key for abbreviations  
on page 16

### Divider system TS0 without height separation

Vers.	a <sub>T</sub> min [mm]	a <sub>x</sub> min [mm]	a <sub>c</sub> min [mm]	n <sub>T</sub> min
A	4	8	6	–

The dividers can be moved in the cross section.

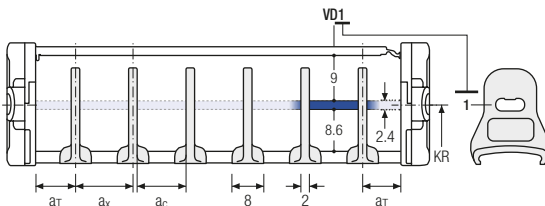


Design guidelines  
from page 64

### Divider system TS1 with continuous height separation


Vers.	a <sub>T</sub> min [mm]	a <sub>x</sub> min [mm]	a <sub>c</sub> min [mm]	n <sub>T</sub> min
A	4	8	6	2

The dividers can be moved in the cross section.



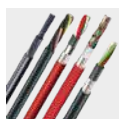
Technical support:  
technik@kabelschlepp.de

### Order example


TS1 · A · 3 - V D 0  
 :  
 - V D 1  
 Divider system      Version      n<sub>T</sub>      Height separation

Please state the designation of the divider system (**TS0, TS1,...**), the version, and the number of dividers per cross section [n<sub>T</sub>].

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.



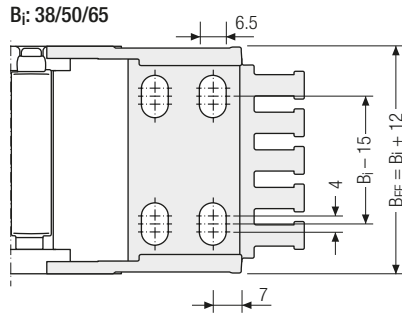
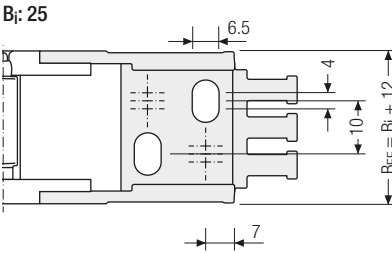
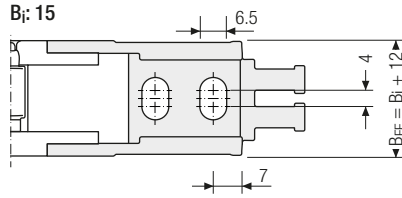
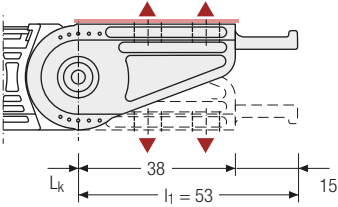
### TRAXLINE® cables for cable carriers

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

# QT0320 | End connectors

## Single-part end connectors – plastic (with integrated strain relief)

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.



Inner heights



Inner widths



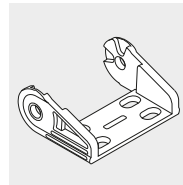
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### ▲ Assembly options

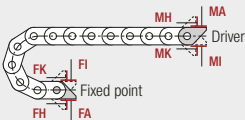
$B_i$ [mm]	$B_{EF}$ [mm]	$n_z$
15	27	2
25	37	3
38	50	4
50	62	5
65	77	6



The end connectors can not be swivelled.



The end connectors are also available as an option **without** integrated strain relief. Please state when ordering.



### Connection point

**F** – fixed point  
**M** – driver

### Connection type

**A** – threaded joint outside (standard)  
**I** – threaded joint inside  
**H** – threaded joint, rotated 90° to the outside  
**K** – threaded joint, rotated 90° to the inside

### Order example



End connector	.	F	A
End connector	.	M	A
End connector		Connection point	Connection type