

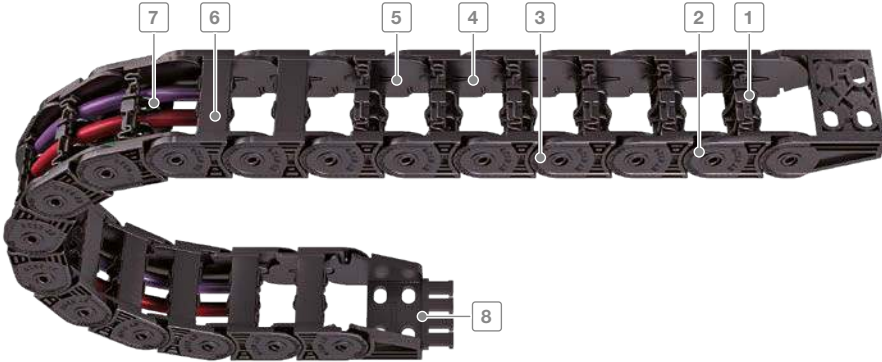
EasyTrax[®] series

Extremely fast
cable laying
thanks to easy
cable insertion



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Subject to change.



Inner heights



Inner widths

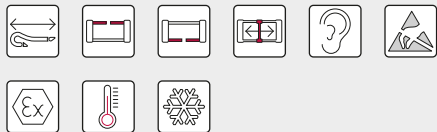


- 1 Sturdy 2-component design: solid chain body, flexible film hinge
- 2 Plastic chain links
- 3 Extensive unsupported length
- 4 Inside space is gentle on the cables – no interfering edges
- 5 Very quiet through integrated noise damping
- 6 Inside or outside openable
- 7 Dividers for cable separation
- 8 Single-part end connectors with integratable strain relief

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easytrax

Features

- Very fast cable laying by simply pressing in the cables
- Very high fill level through lateral swivelling of the lamella – lamellae do not swivel into the cable space
- Each chain link consists of two different materials:
 - Hard chain body made of glass-fibre reinforced material
 - Lamellae with flexible film hinge made of special elastic plastic
- Sturdy cable carrier design
- High torsional rigidity
- Extensive unsupported length
- Very quiet through integrated noise damping



Fast and easy installation of cables



Very high fill level



High side stability



Divider systems for reliable cable separation

Key for abbreviations
on page 16

Design guidelines
from page 64

Technical support:
technik@kabelschlepp.de

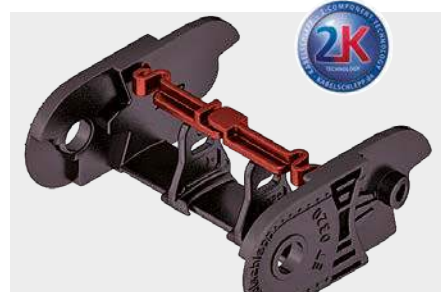
online-engineer.de
Cable Carrier Configurator

Cable carrier design

Solid plastic cable carriers: chain links and end connectors made of plastic

Each chain link consists of two different materials:

- Hard cable carrier body made of glass fiber-reinforced material
- Flexible lamellae made of elastic plastic

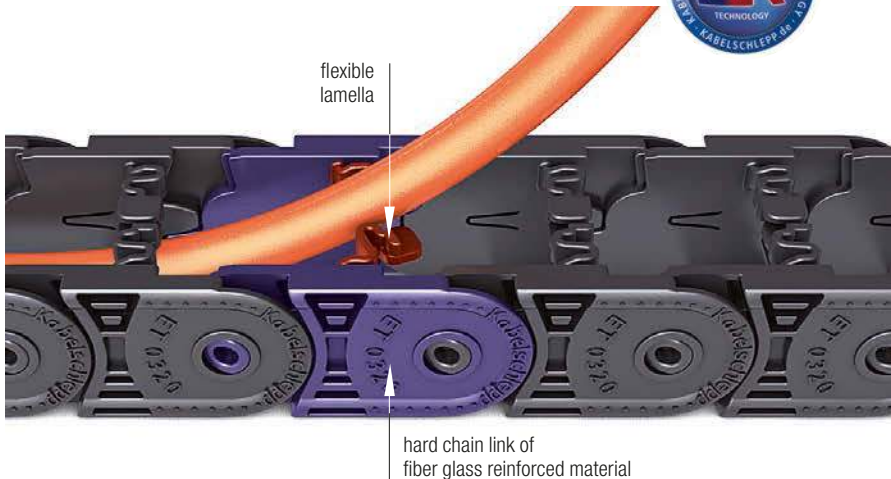
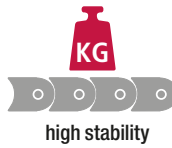


The two-component technology

The two-component technology of the EasyTrax® 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 EasyTrax® meets these requirements thanks to its innovative design and material combination of a hard cable carrier body made from fiber glass reinforced material and lamellae made of elastic plastic.



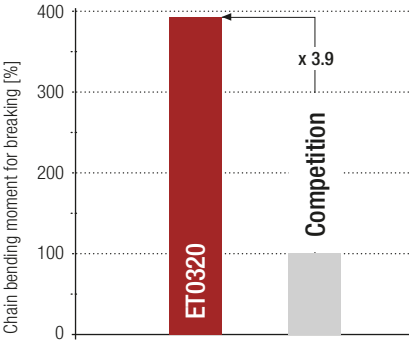
Comparison of dimensions

Manufacturer	h_i [mm]	h_G [mm]	t [mm]	Identical connection hole pattern
ET0320	18	25.5	32	yes
Competitive product	19	25	30.5	yes

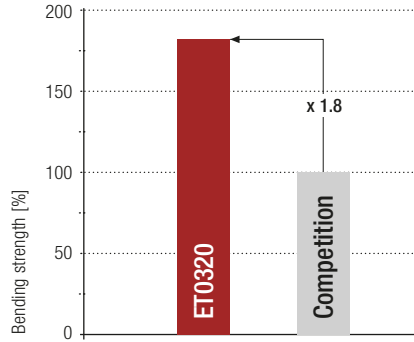
Inner heights



Comparison of bending moment



Comparison of bending strength

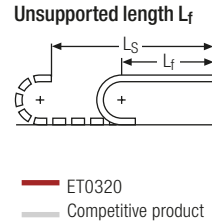
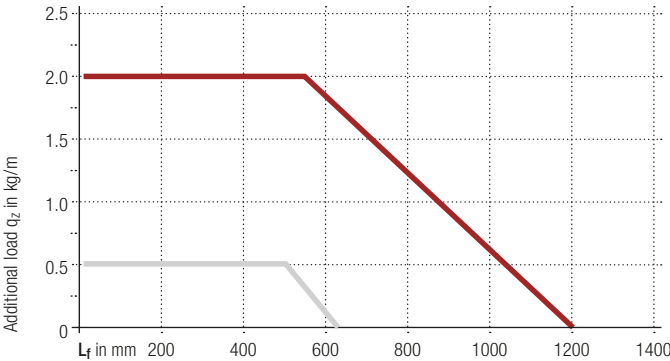


Inner widths



Load diagram

for unsupported length depending on additional load



Advantages over competitive product

- 4 times bigger additional load compared to competitive product
- Double unsupported length compared to competitive product
- Faster cable laying at a higher utilization factor
- Low noise operation due to internal damping system
- High side stability through locking in the stroke system
- Dividers can be used for cable separation

Key for abbreviations
on page 16

Design guidelines
from page 64

Technical support:
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Cable Carrier Configurator

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]
ET0115											
		040	4.6	8	7	11	–	11,5	10	0.4	3.5
ET0320											
		030	18	25.5	15–65	27–77	–	32	28–125	1.2	14
		040	18	25.5	15–65	27–77	–	32	28–125	1.2	14
ET1455											
		030	25	36	25–78	94	–	45.5	52–200	6	20
		040	25	36	25–78	94	–	45.5	52–200	6	20



Technical manual

Do you need more information on the EasyTrax® series?
Our technical manual with all information on configuring your cable carrier can be found at tsubaki-kabelschlepp.com/download.

EasyTrax® series | Overview

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	
										vertical hanging or standing	lying on the side	rotating arrangement	
0.68	3	10	–	–	–	–	–	–	–	•	–	–	202
2.90	10	50	80	2.5	25	•	–	–	–	•	–	•	206
2.90	10	50	–	–	–	•	–	–	–	•	–	•	207
4.80	10	50	120	2.5	20	•	–	–	–	•	–	•	212
4.80	10	50	–	–	–	•	–	–	–	•	–	•	213

Inner heights



Inner widths



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ET0115

Key for abbreviations
on page 16



Pitch
11.5 mm



Inner height
4.6 mm



Inner width
7 mm



Bending radius
10 mm

Stay variants

Design guidelines
from page 64



Design 040..... page 202

Frame with lamellae in the inner radius

- Weight-optimised plastic frame with particularly high torsional rigidity.
- Swivelling at any position on one side.
- **Inside:** swivelling.

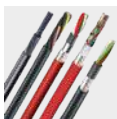
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Cable Carrier Configurator



TOTALTRAX® complete systems

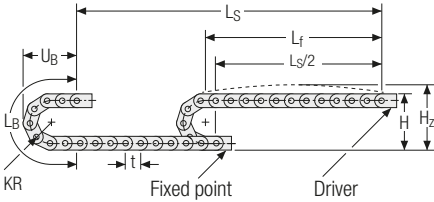
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TRAXLINE® cables for cable carriers

Hi-flex electric cables which were specially developed, optimised and tested for use in cable carriers can be found at traxline.de.

Unsupported arrangement



KR [mm]	H [mm]	H _z [mm]	L _B [mm]	U _B [mm]
10	28	38	54.5	25.5

Inner heights

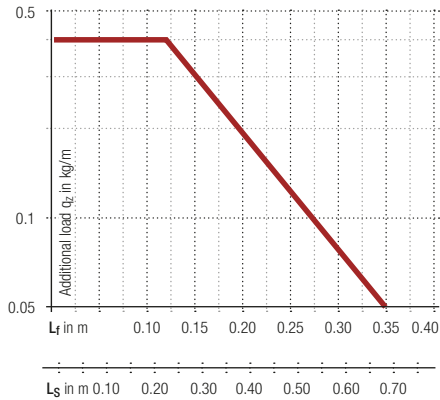


Inner widths



Load diagram for unsupported length depending on the additional load.

Intrinsic cable carrier weight $q_k = 0.044 \text{ kg/m}$ with $B_i 7 \text{ mm}$. For other inner widths, the maximum additional load changes.



Speed
up to 3 m/s



Acceleration
up to 10 m/s²



Travel length
up to 0.68 m



Additional load
up to 0.4 kg/m

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Additional product information online



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



Configure your cable carrier here:
online-engineer.de

Stay variant 040 – with lamella in the inner radius

- Weight-optimised plastic frame with particularly high torsional rigidity.
- Can be swivelled at any position on one side.
- **Inside:** swivelling.



Key for abbreviations on page 16

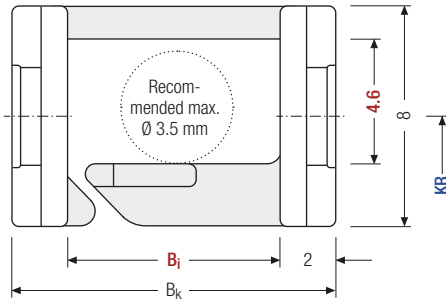


Stay arrangement on each chain link (**VS: fully-stayed**)



B_i 7 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]
4.6	8	7	B _i + 4	10	0.044

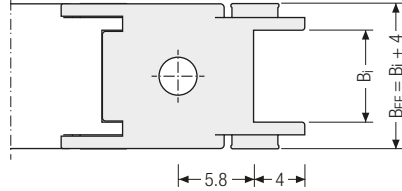
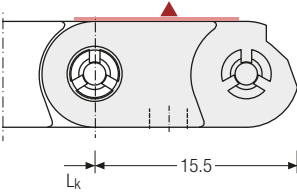
Order example

ET0115
Type
·
040
Stay variant
·
7
B_i [mm]
·
10
KR [mm]
·
1,280
L_k [mm]
-
VS
Stay arrangement

ET0115 | End connectors

End connector – plastic

The plastic end connectors can be connected **from above or below**.



Inner heights



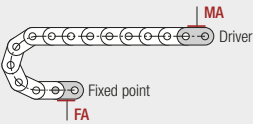
Inner widths



▲ Assembly options



The end connectors can be swivelled in the KR direction.



Connection point

- F – fixed point
- M – driver

Connection type

- A – threaded joint outside

Order example



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

ET0320

Key for abbreviations
on page 16



Pitch
32 mm



Inner height
18 mm



Inner widths
15 – 65 mm



Bending radii
28 – 125 mm

Design guidelines
from page 64



Design 030 page 206

Frame with lamellae in the outer radius

- Weight-optimised plastic frame with particularly high torsional rigidity.
- Lamellae can be swivelled at any position on one side.
- **Outside:** swivelling.



Design 040 page 207

Frame with lamellae in the inner radius

- Weight-optimised plastic frame with particularly high torsional rigidity.
- Lamellae can be swivelled at any position on one side.
- **Inside:** swivelling.

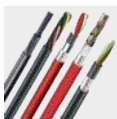
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Cable Carrier Configurator



TOTALTRAX® complete systems

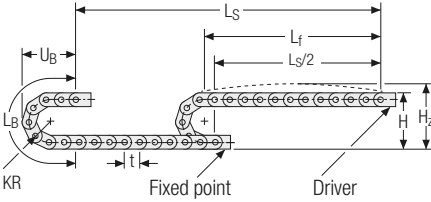
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TRAXLINE® cables for cable carriers

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Unsupported arrangement



KR [mm]	H [mm]	H ₂ [mm]	L _B [mm]	U _B [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

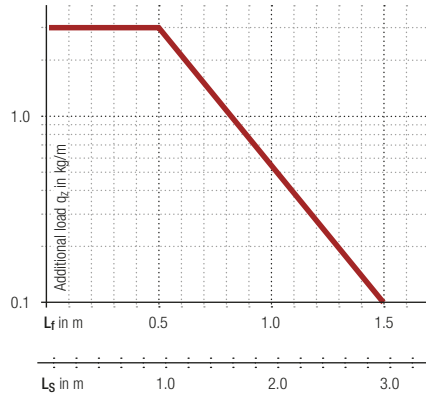


Inner widths



Load diagram for unsupported length depending on the additional load.

Intrinsic cable carrier weight $q_k = 0.40 \text{ kg/m}$ with B₁ 38 mm. For other inner widths, the maximum additional load changes.



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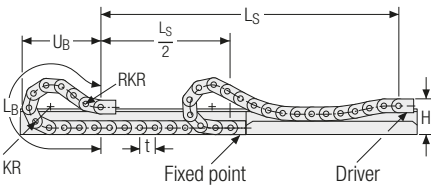
Speed
up to 10 m/s

Acceleration
up to 50 m/s²

Travel length
up to 2.9 m

Additional load
up to 1.2 kg/m

Gliding arrangement



Speed
up to 2.5 m/s

Acceleration
up to 25 m/s²

Travel length
up to 80 m

Additional load
up to 1.2 kg/m

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

Only design 030 can be used for a gliding arrangement.

Stay variant 030 – with lamellae in the outer radius

- Weight-optimised plastic frame with particularly high torsional rigidity.
- Lamellae can be swivelled at any position on one side
- **Outside:** swivelling.



Key for abbreviations
on page 16

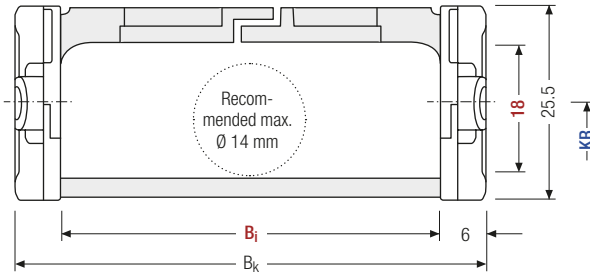


Stay arrangement on each chain link (**VS: fully-stayed**)



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]				
18	25.5	15	25	38	50	65	$B_i + 12$	28	38	48	75	100	125	0.35 – 0.45

Order example


ET0320 Type · 030 Stay variant · 50 B_i [mm] · 100 KR [mm] · 1,280 L_k [mm] · VS Stay arrangement

Stay variant 040 – with lamellae in the inner radius

- Weight-optimised plastic frame with particularly high torsional rigidity.
- Lamellae can be swivelled at any position on one side
- **Inside:** swivelling.



Inner heights



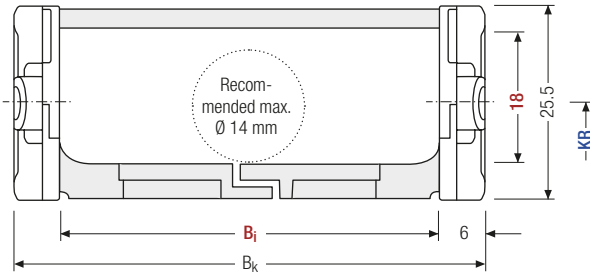
Inner widths



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



Bi 15 – 65 mm



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



Design 040 is not suitable for gliding arrangements.

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 [mm]	h_G [mm]	B_i [mm]			B_k [mm]	KR [mm]					q_k [kg/m]			
18	25.5	15	25	38	50	65	$B_i + 12$	28	38	48	75	100	125	0.35 – 0.45

Order example



ET0320 Type · 040 Stay variant · 50 B_i [mm] · 100 KR [mm] · 1.280 L_k [mm] · VS Stay arrangement

Divider systems

The divider system is mounted on every 2nd 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**).

Key for abbreviations
on page 16

Design guidelines
from page 64

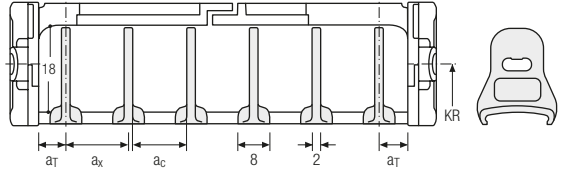
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Cable Carrier Configurator

Divider system TSO without height separation

Vers.	a _T min [mm]	a _x min [mm]	a _c min [mm]	n _T min
A	4	8	6	–

The dividers can be moved in the cross section.



Order example


TSO . A . 3
 Divider system Version n_T

Please state the designation of the divider system (**TSO**), the version, and the number of dividers per cross section [n_T]. You are welcome to add a sketch to your order.

Additional product information online



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

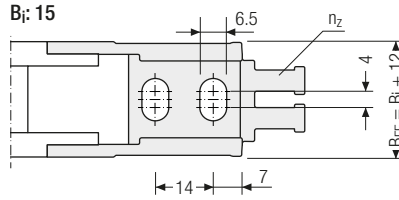
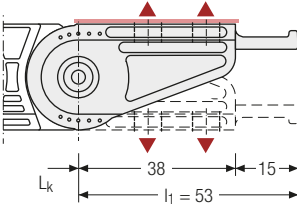


Configure your cable carrier here:
online-engineer.de

ET0320 | End connectors

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

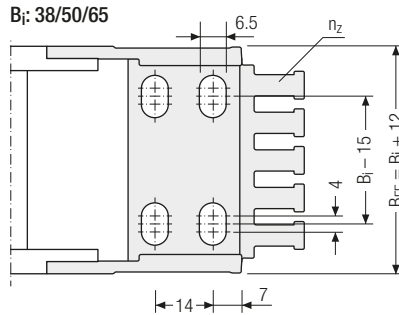
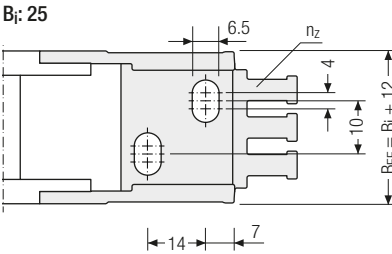
The plastic end connectors can be **connected from above or below**. The connection type can be changed by altering the position of the end connector.



Inner heights



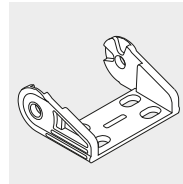
Inner widths



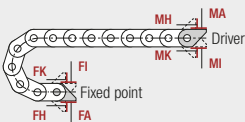
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easytrax

▲ 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 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

ET1455

Key for abbreviations
on page 16



Pitch
45.5 mm



Inner height
25 mm



Inner width
78 mm



Bending radii
52 – 200 mm

Stay variants

Design guidelines
from page 64



Design 030 page 212

Frame with lamellae in the outer radius

- Weight-optimised plastic frame with particularly high torsional rigidity.
- Lamellae can be swivelled at any position on one side.
- **Outside:** swivelling.



Design 040 page 213

Frame with lamellae in the inner radius

- Weight-optimised plastic frame with particularly high torsional rigidity.
- Lamellae can be swivelled at any position on one side.
- **Inside:** swivelling.

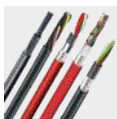
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Cable Carrier Configurator



TOTALTRAX® complete systems

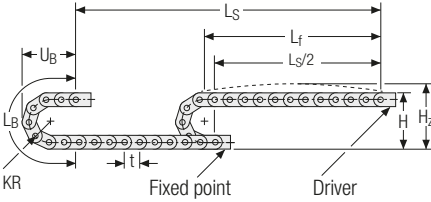
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Unsupported arrangement



KR [mm]	H [mm]	H ₂ [mm]	L _B [mm]	U _B [mm]
52	140	165	255	116
65	166	191	296	129
95	226	251	390	159
125	286	211	484	189
150	336	361	563	214
180	396	421	657	244
200	436	461	720	264

Inner heights

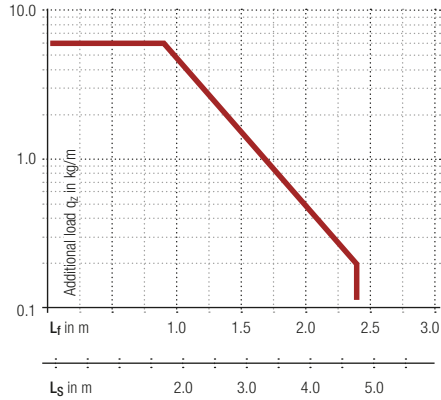


Inner widths



Load diagram for unsupported length depending on the additional load.

Intrinsic cable carrier weight $q_k = 0.75 \text{ kg/m}$ with $B_i 38 \text{ mm}$. For other inner widths, the maximum additional load changes.



Speed
up to 10 m/s

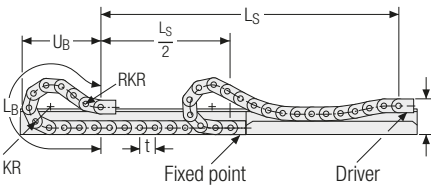
Acceleration
up to 50 m/s²

Travel length
up to 4.8 m

Additional load
up to 6.0 kg/m

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Gliding arrangement



Speed
up to 2.5 m/s

Acceleration
up to 20 m/s²

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

Only design and 030 can be used for a gliding arrangement.

Travel length
up to 120 m

Additional load
up to 6.0 kg/m

Stay variant 030 – with lamellae in the outer radius

- Weight-optimised plastic frame with particularly high torsional rigidity.
- Lamellae can be swivelled at any position on one side
- **Outside:** swivelling.



Key for abbreviations
on page 16

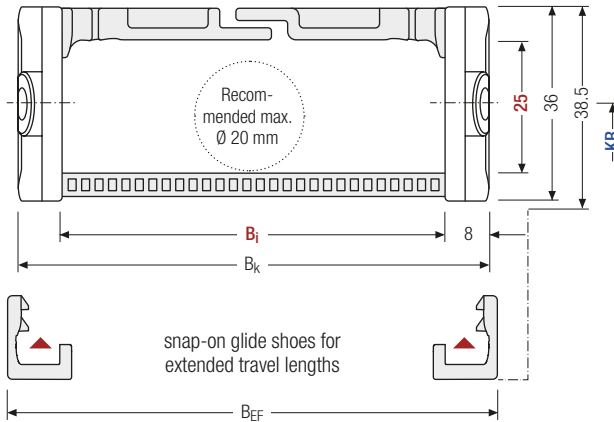


Stay arrangement on each chain link (**VS: fully-stayed**)



B_i 25 – 78 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]	h_G' [mm]	B_i [mm]				B_k [mm]	B_{EF} [mm]	KR [mm]				q_k [kg/m]
25	36	38.5	25	38	58	78	$B_i + 16$	$B_i + 19$	52	65	95	125	0.65 – 0.80
									150	180	200		

Order example



ET1455

Type

030

Stay variant

78

B_i [mm]

150

KR [mm]

1.456

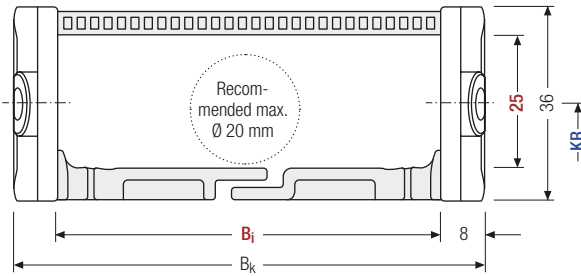
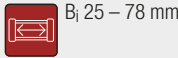
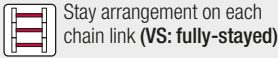
L_k [mm]

VS

Stay arrangement

Stay variant 040 – with lamellae in the inner radius

- Weight-optimised plastic frame with particularly high torsional rigidity.
- Lamellae can be swivelled at any position on one side
- **Inside:** swivelling.



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

i Design 040 is not suitable for gliding arrangements.

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 [mm]	h_G [mm]	$h_{G'}$ [mm]	B_i [mm]			B_k [mm]	B_{EF} [mm]	KR [mm]				q_k [kg/m]	
25	36	38.5	25	38	58	78	$B_i + 16$	$B_i + 19$	52 150	65 180	95 200	125	0.65 – 0.80

Order example

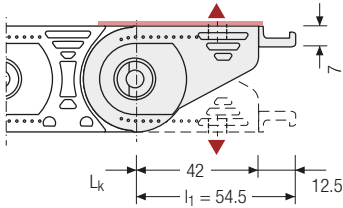
ET1455 · 040 · 78 · 150 - 1.456 VS
Type Stay variant B_i [mm] KR [mm] L_k [mm] Stay arrangement

ET1455 | End connectors

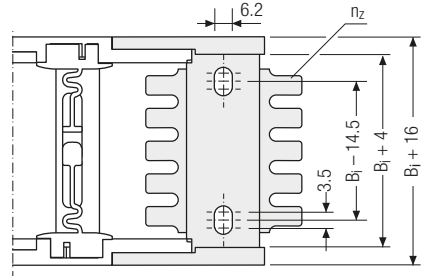
Single-part end connectors – plastic

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.

Key for abbreviations
on page 16



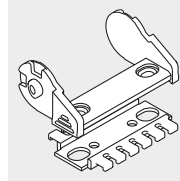
▲ Assembly options



Design guidelines
from page 64

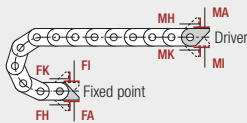
Recommended tightening torque:
6 Nm for screws M6 - 8.8

B_1 [mm]	n_z
25	2 x 2
38	2 x 3
58	2 x 4
78	2 x 6



The end connectors are optionally also available **without** strain relief comb.
Please state when ordering.

Technical support:
technik@kabelschlepp.de



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

online-engineer.de
Cable Carrier Configurator

Order example

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



EasyTrax®
series

Inner
heights



Inner
widths



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