

CONDUFLEX  
the power to innovate



# CONDUFLEX

## Closed designer cable carrier

- Very well sealed design
- With protective straps ideal for hot chips
- Easy replacement of the brackets where external damage has occurred
- Easy to shorten or extend at a later date
- TÜV type tested in accordance with 2 PFG 1036/10.97

Optional:  
Protective straps for  
protecting the stop grooves  
against contamination



Different  
end connectors



Completely enclosed  
cable carriers in a  
sophisticated design

Attractive appearance due to  
stainless steel crossbars and  
frame made of fiberglass  
reinforced polyamide

Optimum protection for cables  
and hoses

Quiet operation  
due to small pitch

Inside  
heights



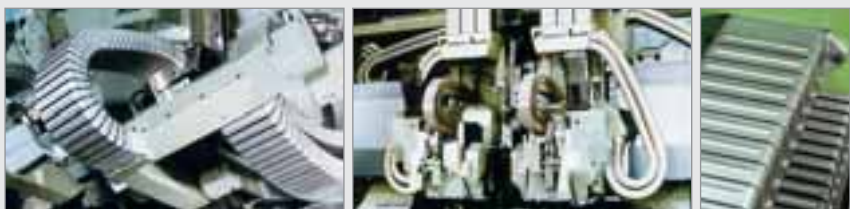
Inside  
widths



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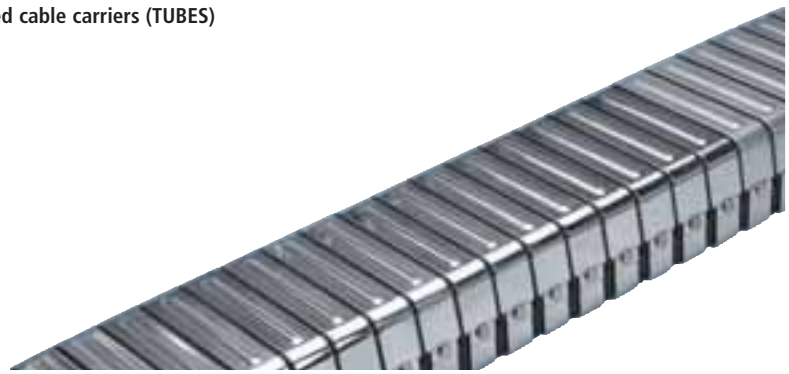
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KABELSCHLEPP  
Cable Carrier Configurator



CONDUFLEX – Designer cable carrier in use

# Types CF 055, 060, 085, 115, 120, 175

■ Closed cable carriers (TUBES)



Inside heights



Inside widths

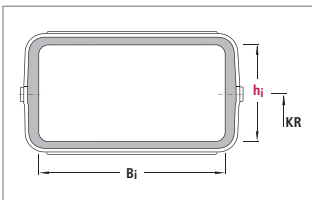


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Type	h <sub>i</sub>	B <sub>k</sub>	Maximum travel length in m	Dynamics of unsupported arrangement		Page
				Travel speed v <sub>max</sub> in m/s	Travel acceleration a <sub>max</sub> in m/s <sup>2</sup>	
CF 055	25	45	3.0	10	20	291
CF 060	40	36	3.5	10	20	291
CF 085	38	73	4.0	8	18	291
CF 115	52	102	5.0	8	16	291
CF 120	70	100	5.5	6	15	291
CF 175	72	162	6.0	6	12	291

Dimensions in mm

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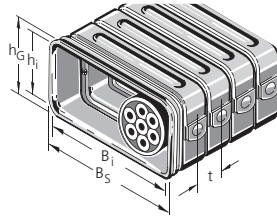
## Example of ordering

Cable carrier	CF 120	-	140	-	1200	Connection	FST/FQF
CONDUFLEX Type	Bend radius KR in mm		Conduit length L <sub>ES</sub> in mm (without connection)			Connection Fixed point/Driver	

## Types CF 055, 060, 085, 115, 120, 175

### Dimensions and intrinsic hose weight

Type	h <sub>i</sub> mm	h <sub>G</sub> mm	B <sub>i</sub> mm	B <sub>S</sub> mm	Intrinsic hose weight kg/m
CF 055*	25	38	45	62	1.25
CF 060	40	52	36	60	1.60
CF 085*	38	52	73	92	1.90
CF 115*	52	67	102	123	2.60
CF 120	70	86	100	127	3.80
CF 175*	72	94	162	190	5.20



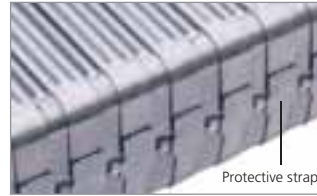
Inside heights

25  
-  
72

Inside widths

45  
-  
162

\*) KABELSCHLEPP CONDUFLEX TUBES CF 055, CF 085, CF 115 and CF 175 can be fitted with **protective straps**, to shield the impact slots of the plastic frame from contamination.



Protective strap

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### Bend radius and pitch

Type	Bend radii KR mm			
CF 055	65	100	150	—
CF 060	100	—	—	—
CF 085	100	150	200	250
CF 115	140	225	300	—
CF 120	155	200	—	—
CF 175	185	250	350	—

Pitch:

Typ CF 055: t = 20 mm

Typ CF 060: t = 20 mm

Typ CF 085: t = 20 mm

Typ CF 115: t = 25 mm

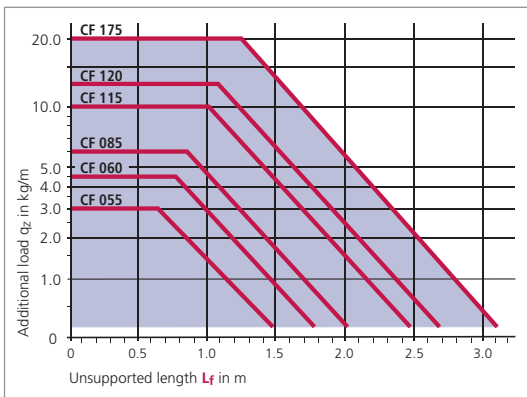
Typ CF 120: t = 25 mm

Typ CF 175: t = 30 mm

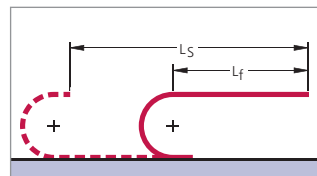
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### Load diagram

for unsupported length  $L_f$  depending on the additional load



Unsupported length  $L_f$



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# Types CF 055, 060, 085, 115, 120, 175

## Connection dimensions

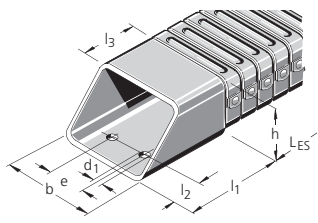
Inside heights



Inside widths



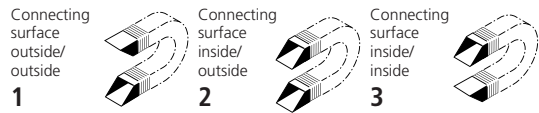
### Diagonal flange connector – SF



CONDUFLEX Type	b	h	e	d <sub>1</sub>	l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>
CF 055	55	36	22	6.5	44	12.5	20
CF 060	55	52	22	6.5	44	12.5	20
CF 085	85	50	50	6.5	70	15.0	32
CF 115	117	66	70	8.5	84	17.5	34
CF 120	120	84	70	8.5	82	17.5	48
CF 175	182	92	100	10.5	100	22.5	45

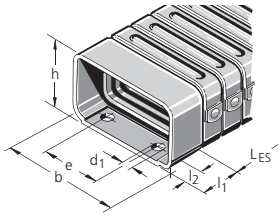
Dimensions in mm

### Connection variants for diagonal flange connectors SF



Please state the position of the connecting surfaces when ordering.

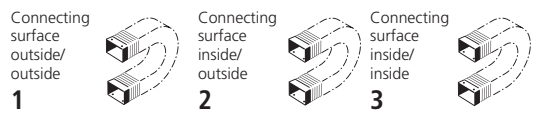
### Standard connector bracket – ST



CONDUFLEX Type	b	h	e	d <sub>1</sub>	l <sub>1</sub>	l <sub>2</sub>
CF 055	55	36	22	6.5	20	8.5
CF 060	–	–	–	–	–	–
CF 085	85	52	50	6.5	25	10.0
CF 115	116	68	65-70	8.5	35	10.0
CF 120	120	84	70	8.5	35	12.5
CF 175	182	92	100	10.5	40	15.0

Dimensions in mm

### Connection variants for standard flange connectors ST

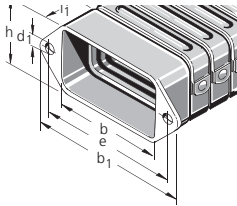


Please state the position of the connecting surfaces when ordering.

## Types CF 055, 060, 085, 115, 120, 175

### Connection dimensions

#### Cross flange connector bracket – QF



CONDUFLEX Type	b	h	b <sub>1</sub>	e	d <sub>1</sub>	l <sub>1</sub>
CF 055	55	35	90	75	6.5	20
CF 060	–	–	–	–	–	–
CF 085	85	50	120	105	6.5	25
CF 115	116	64	160	140	8.5	35
CF 120	–	–	–	–	–	–
CF 175	182	90	226	200	10.5	40

Dimensions in mm

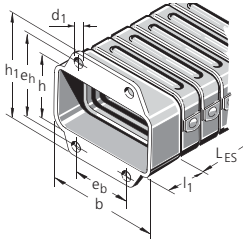
Inside heights



Inside widths



#### High flange bracket – HF



CONDUFLEX Type	b	h	h <sub>1</sub>	e <sub>b</sub>	e <sub>h</sub>	d <sub>1</sub>	l <sub>1</sub>
CF 055	55	35	70	18	55	6.5	20
CF 060	–	–	–	–	–	–	–
CF 085	85	50	85	45	70	6.5	25
CF 115	116	64	110	60	90	8.5	35
CF 120	–	–	–	–	–	–	–
CF 175	182	90	136	95	110	10.5	40

Dimensions in mm

The connectors SF, ST, QF and HF can be combined. Please state when ordering.

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coverTrax  
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# CoverTrax

## Extreme cable protection in harsh environmental conditions

- outstanding protection for the cables
- quick cable laying – inside and outside opening designs
- very quiet thanks to internal noise damping system
- large unsupported length
- high-quality visual design
- for unsupported and gliding arrangements

Dividers and height separations for cable separation

Chain links made of plastic

Extensive unsupported length

Cover system also in the connection

Very quiet thanks to integrated noise damping system

Connectors with optional strain relief

Completely detachable covers

Easy and quick to open

Gentle on the cables – interior space without projecting edges

Designs with inward\* or outward opening covers

Secure hold of the covers also under heavy load (e.g. by the use of hydraulic cables)



### Protecting cables effectively:

- The optimized cover construction provides outstanding protection against penetration of dirt and chips into the carrier interior.



Simply unlock cover with a screwdriver



Detach the cover from the chain link



Divider system TS 1



Optional strain relief comb – also placed on top of one another

Inside heights



Inside widths



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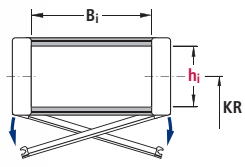
Overview CoverTrax

Design 060 with a cover that can be levered open to the inside\*

Inside heights



Inside widths



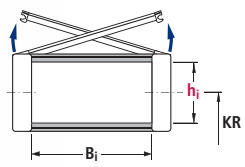
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Type	hi	Bi	Maximum travel length in m	Dynamics of unsupported arrangement		Page
				Travel speed v <sub>max</sub> in m/s	Travel acceleration a <sub>max</sub> in m/s <sup>2</sup>	
CT 1555.060	50	50-250	100	6	35	210

Dimensions in mm

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Bauart 080 with a cover that can be levered open to the outside



Type	hi	Bi	Maximum travel length in m	Dynamics of unsupported arrangement		Page
				Travel speed v <sub>max</sub> in m/s	Travel acceleration a <sub>max</sub> in m/s <sup>2</sup>	
CT 1555.080	50	50-250	100	6	35	210

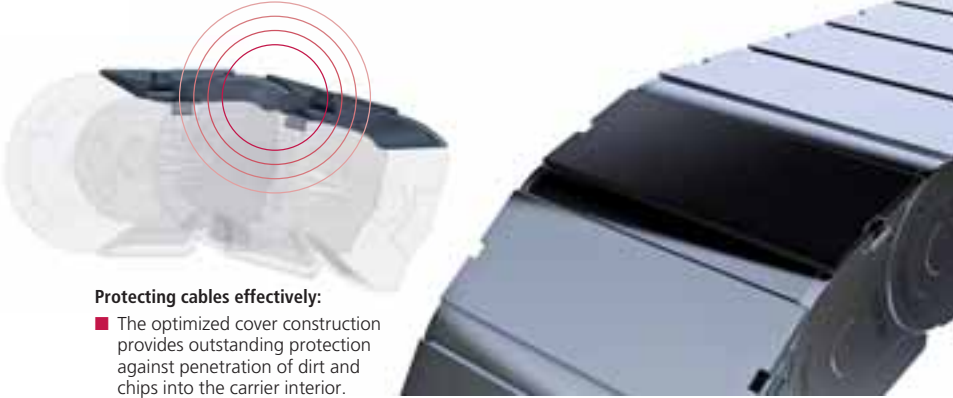
Dimensions in mm

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\* On request – please contact us.

## Extreme cable protection – CoverTrax 1555

The CoverTrax cable carrier provides outstanding protection for the routed cables and hoses. It has been developed for harsh environmental conditions with chips, dirt and dust and effectively prevents foreign bodies from entering the cable space. The optimized geometry of the chain links makes the carrier very stable, with a large unsupported length. The integrated damping system makes it very quiet. The new CoverTrax 1555 is not just remarkable for its technical attributes, but also for its new visual design, with its impressive style and functionality. For example, the almost completely smooth side band contour of the individual chain links presents hardly any gap through which foreign bodies could penetrate.



### Protecting cables effectively:

- The optimized cover construction provides outstanding protection against penetration of dirt and chips into the carrier interior.

Inside heights



Inside widths



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### Optimized geometry

The protection for the routed cables has been optimized by means of design features. Extremely small gap dimensions and the new geometry effectively prevent the penetration of foreign bodies.



- The reinforced contour of the new cover provides extremely small gap dimensions even with large carrier widths.
- The openable covers reach above the side band and deflect dirt off to the side.
- Smooth side band contour with encapsulated stroke system.

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### Easy connection – optionally with strain relief comb

With the UMB connectors you can connect the CoverTrax easily from **above**, from **below** or at the **front**. The **optional C-rails** and **Linefix saddle-type clamps** allow the cables to be fixed securely and simply. C-rails and strain relief combs are fixed with the UMB connectors and do not have to be screwed separately.

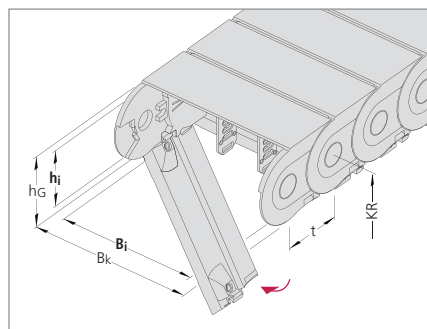


- UMB connector
- Optional strain relief comb
- Connection with LineFix on C-rail
- The UMB connectors have mounts above and below for fixing a C-rail or strain relief comb.

# Type CT 1555

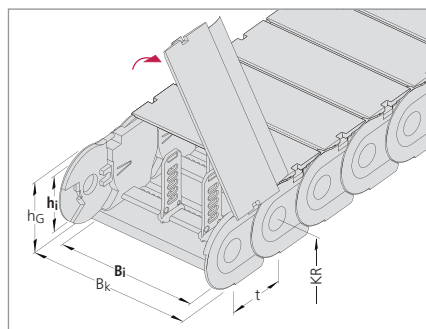
## Design 060\*

Inside: Hinged, openable (on the right/left) and detachable covers



## Design 080

Inside: Hinged, openable (on the right/left) and detachable covers



Inside heights  
50

Inside widths  
50 - 250

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### Dimensions and intrinsic chain weight

Type	h <sub>i</sub>	h <sub>G</sub>	Inside widths B <sub>i</sub>									B <sub>k</sub>	
			Intrinsic chain weight										
CT 1555	50	69	50*	75*	100*	115*	125	150*	175	200*	225*	250*	B <sub>i</sub> + 21
			2.18	2.43	2.68	2.83	2.94	3.19	3.44	3.69	3.94	4.20	

\* on request

Dimensions in mm/Weights in kg/m

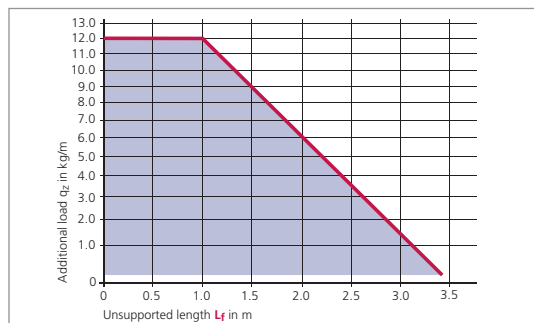
### Bend radius and pitch

Bend radii KR mm							Pitch t = 55.5 mm
100	125*	150	175*	200*	225*	250*	

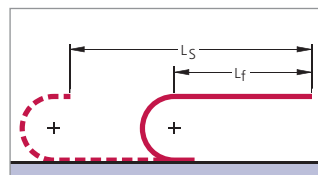
\* on request

### Bend radius and pitch

for unsupported length L<sub>f</sub> depending on the additional load



### Unsupported length L<sub>f</sub>



In the case of longer travel lengths, sag of the cable carriers is technically per-missible depending on the application. In a gliding arrangement, even longer travel lengths are possible (see page 301).

We are at your service to advise on these applications.

### Example of ordering

Cable carrier					Divider system		Connection					
CT 1555	·	080	·	175	-	150	-	1110	TS 0	/	1	FU/MU
Type		Design	Inside width B <sub>i</sub> in mm	Bend radius KR in mm	Chain length L <sub>k</sub> in mm (without connection)	Divider system	Number of dividers n <sub>T</sub>	Connection-Fixed point/Driver				

### Ordering divider systems:

Please state the designation of the divider system (TS 0, TS 1 ...) and the number of dividers. Possibly attach a sketch with the dimensions.

\* On request – please contact us.

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## Type CT 1555

### Fixing the dividers

In the standard version, dividers or the complete divider system (dividers with height separation) can be moved in the cross section. (Mounting version A)

For applications with transverse accelerations and where the carrier is rotated through 90° the dividers can be fixed simply by turning them. This causes the arresting cams to engage in the locking profiles of the covers (Version B).

If the fixed installation version is desired, please state this on the order.

Inside heights

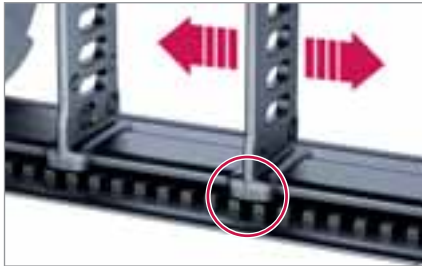


Inside widths



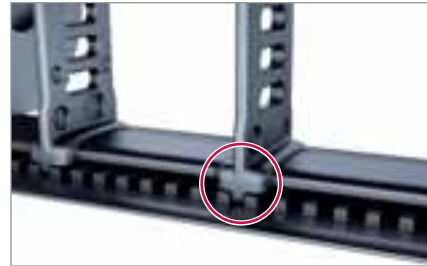
### Version A (standard)

Movable divider



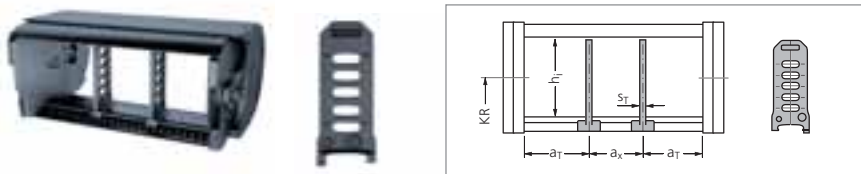
### Version B

Divider fixed in 5 mm steps.



### Divider system TS 0

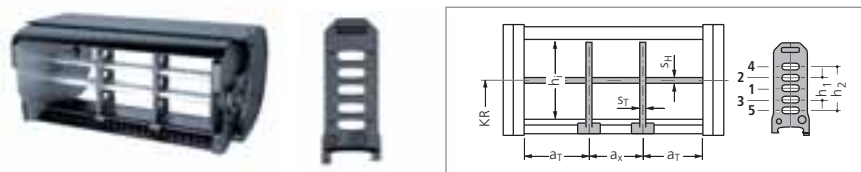
Type	h <sub>i</sub> mm	Version A			Version B			
		S <sub>T</sub> mm	a <sub>T</sub> min mm	a <sub>x</sub> min mm	S <sub>T</sub> mm	a <sub>T</sub> min mm	a <sub>x</sub> min mm	a <sub>x</sub> section mm
CT 1555	50	3	5	10	3	7.5	10	5



### Divider system TS 1

with continuous height subdivision made of aluminium

Type	h <sub>i</sub> mm	Version A			Version B			S <sub>H</sub> mm	h <sub>1</sub> mm	h <sub>2</sub> mm	
		S <sub>T</sub> mm	a <sub>T</sub> min mm	a <sub>x</sub> min mm	S <sub>T</sub> mm	a <sub>T</sub> min mm	a <sub>x</sub> min mm				a <sub>x</sub> section mm
CT 1555	50	3	5	10	3	7.5	10	5	4	14	28



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 Cable Center Configurator

Inside heights



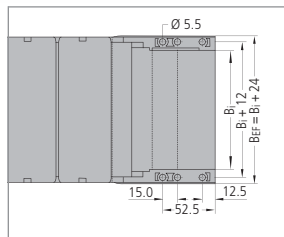
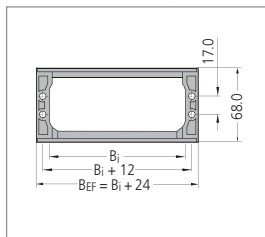
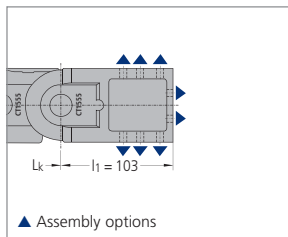
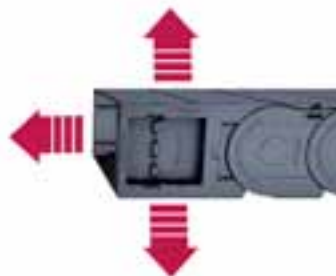
Inside widths



# Type CT 1555

## Universal mounting brackets

With plastic UMBs (Universal Mounting Brackets), you can easily connect the UNIFLEX from above, from below, or at head height.



The dimensions of the fixed point and driver connections are identical. When ordering please specify the connection type FU/MU (see ordering key on page 210).

## Both-sided strain relief combs made of plastic

The cables can be fixed securely and simply using the **optional strain relief combs**. The strain relief combs are installed between the UMBs, and do not need to be bolted on separately or mounted on a C-Rail.

Please state on the order whether strain relief combs are needed.



■ Universal mounting bracket with optional strain relief comb



■ Fixing in the UMB

Type	Bi mm	nz
CT 1555. .... .50	50	3
CT 1555. .... .75	75	5
CT 1555. .... .100	100	7
CT 1555. .... .125	125	9
CT 1555. .... .150	150	11
CT 1555. .... .175	175	13

nz = Number of teeth on one side of the comb

## Strain relief comb made of aluminum on one side

The cables can be fixed securely and simply using the **optional strain relief combs**. The strain relief combs are installed between the UMBs, and do not need to be bolted on separately or mounted on a C-Rail.

Please state on the order whether strain relief combs are needed.



■ Strain relief comb made of Aluminium

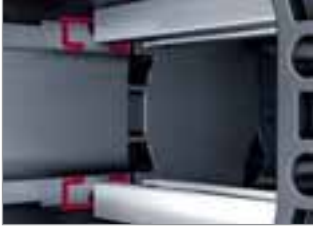
## Type CT 1555

### Strain relief devices

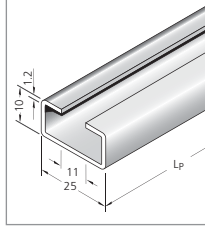
#### C-rails for LineFix bracket clamps, SZL strain reliefs and clamps

The optional C-rails are fixed by means of the universal mounting brackets and do not have to be screwed separately.

Please state in your order whether C-rails are needed.



■ Universal mounting bracket with C-rail. The UMB connectors have mounts **above and below** for fixing a C-rail



■ Integratable C-rail 25 x 10 mm, slit width 11 mm, material steel, Item-No. 3931

Inside heights



Inside widths

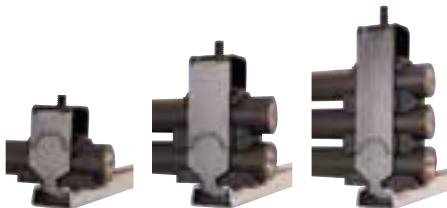


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Our LineFix strain reliefs are optimally suited for the C-rails. (LineFix bracket clamps and other strain relief devices – see Accessories chapter, from page 307 onwards).



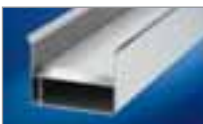
■ C-rail with LineFix strain relief



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Carrier Configurator

Guide channels  
➤ from page 301



Strain relief devices  
➤ from page 307



Cables for cable carrier systems  
➤ from page 350



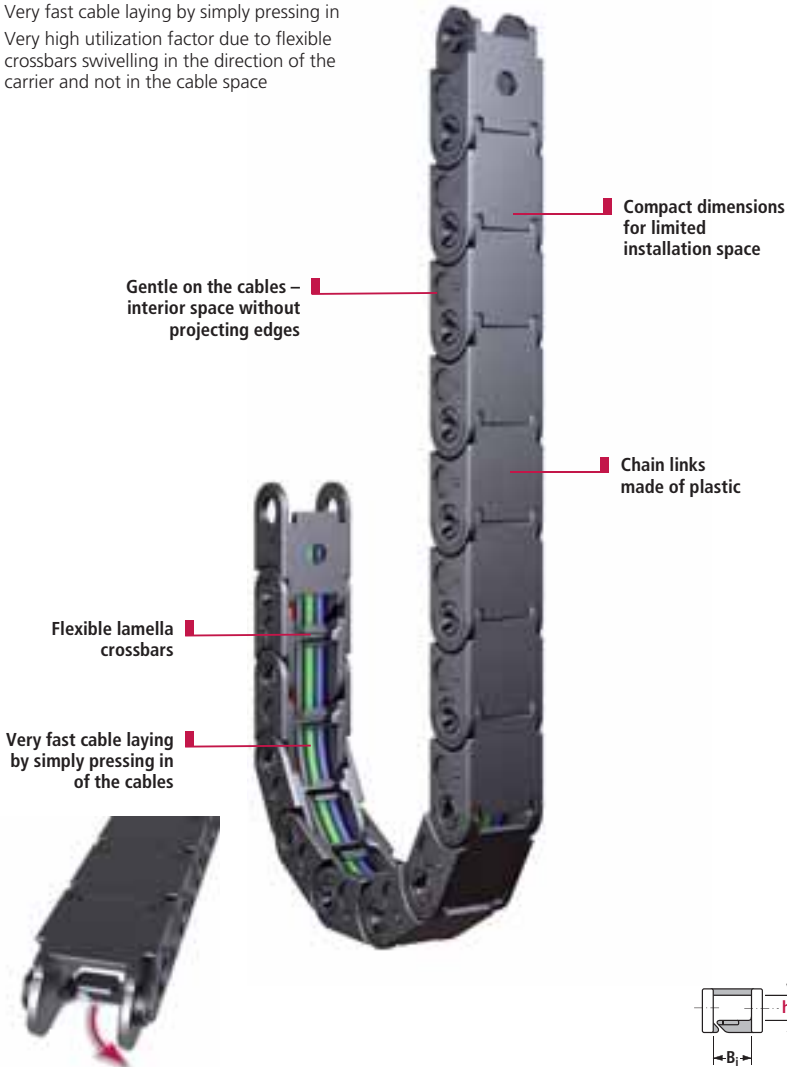
EasyTrax  
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# EasyTrax 0115

Extremely quick cable laying thanks to flexible lamella crossbars

- Very fast cable laying by simply pressing in
- Very high utilization factor due to flexible crossbars swivelling in the direction of the carrier and not in the cable space



Inside height



Inside width



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Type	h <sub>i</sub>	B <sub>i</sub>	Maximum travel length in m	Dynamics of unsupported arrangement		Page
				Travel speed v <sub>max</sub> in m/s	Travel acceleration a <sub>max</sub> in m/s <sup>2</sup>	
ET 0115.040	4.6	7	10	3	10	118

Subject to change.

Maße in mm

# Type ET 0115

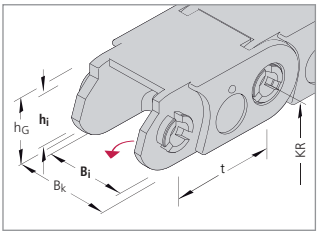
## Design 040

Inside: Simple pressing in of the cables

Inside height



Inside widths



### Dimensions and intrinsic chain weight

Type	$h_i$	$h_G$	Inside widths $B_i$ Intrinsic chain weight	$B_k$
ET 0115	4.6	8.0	7 0.044	$B_i + 4$

Dimensions in mm/Weights in kg/m

### Bend radius and pitch

Bend radii KR mm
10

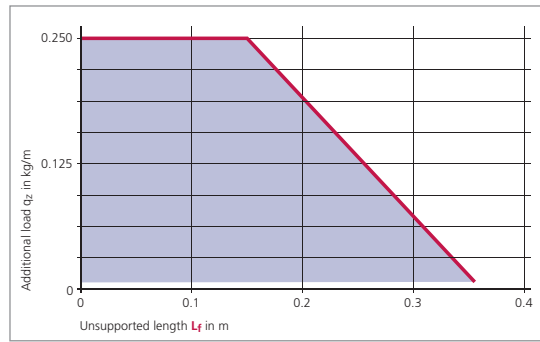
Pitch  $t = 11.5$  mm

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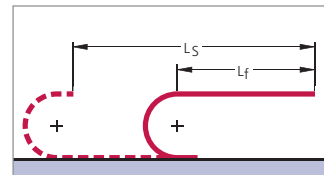
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### Load diagram

for unsupported length  $L_f$  depending on the additional load



### Unsupported length $L_f$



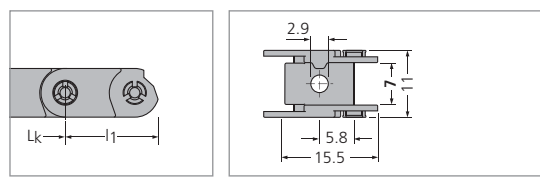
In the case of longer travel lengths, sag of the cable carriers is technically permissible depending on the application.

In a gliding arrangement, even longer travel lengths are possible (see page 301).

We are at your service to advise on these applications.

### Connection dimensions

Plastic connectors



### Example of ordering

Cable carrier

ET 0115	040	7	10	230
Type	Design	Inside width $B_i$ in mm	Bend radius KR in mm	Chain length $L_k$ in mm (without connection)

Use our free project planning service.

# EasyTrax 0320

Extremely quick cable laying, extra-stable thanks to two-component technology

- Very fast cable laying by simply pressing in the cables
- Very high utilization factor due to flexible crossbars swivelling in the direction of the carrier and not in the cable space
- Stable chain construction
- Extensive unsupported length
- High torsional rigidity
- Very quiet thanks to integrated noise damping system

Chain links made of plastic

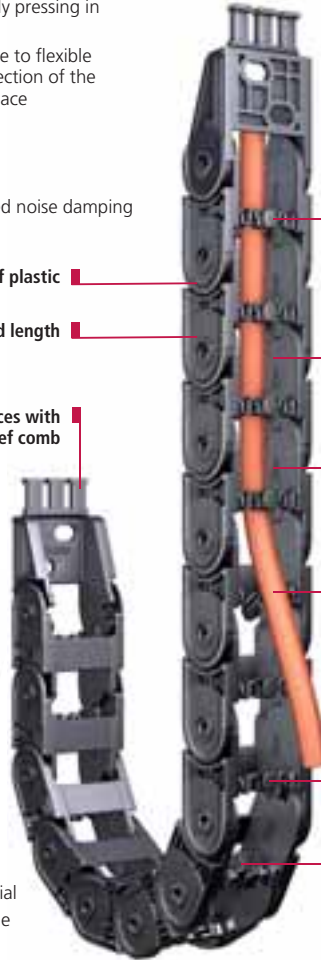
Extensive unsupported length

Connecting pieces with integrated strain relief comb



Every chain link is made of two different materials:

- Hard cable carrier body made of fiberglass-reinforced material
- Flexible lamella crossbars made of flexible special plastic



Intelligent 2-shot-design: hard cable carrier body, flexible lamella crossbars

Gentle on the cables – interior space without projecting edges

Very quiet thanks to internal noise damping system

Very fast cable laying by simply pressing in of the cables

Designs with inward or outward opening crossbars

Dividers for cable separation

EasyTrax  
0320

Selection  
BASIC LINE  
BASIC LINEPLUS

Inside height



Inside widths



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KABELSCHLEPP  
Cable Carrier Configurator



Quick and easy cable laying



Very high utilization factor



High side stability



Divider systems for reliable cable separation



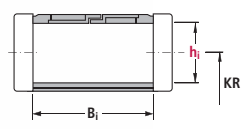
Overview EasyTrax

**Design 030:**  
Cables can be laid easily in the outer radius

Inside height



Inside widths



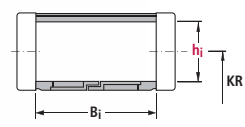
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Type	hi	Bi	Maximum travel length in m	Dynamics of unsupported arrangement		Page
				Travel speed v <sub>max</sub> in m/s	Travel acceleration a <sub>max</sub> in m/s <sup>2</sup>	
ET 0320.030	18	15-50	80	10	50	122

Dimensions in mm

**Design 040:**  
Cables can be laid easily in the inner radius

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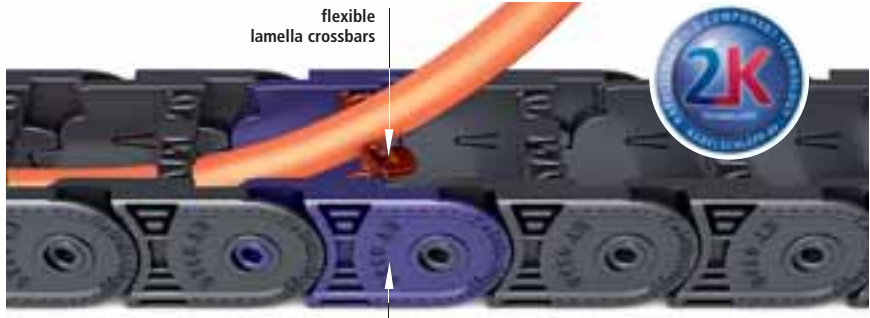


Type	hi	Bi	Maximum travel length in m	Dynamics of unsupported arrangement		Page
				Travel speed v <sub>max</sub> in m/s	Travel acceleration a <sub>max</sub> in m/s <sup>2</sup>	
ET 0320.040	18	15-50	80	10	50	122

Dimensions in mm

Use our free project planning service.

## The 2-shot-technology of EasyTrax 0320



flexible lamella crossbars

Inside height



Inside widths



BASIC LINEPLUS

Flexible lamella crossbar – simple pressing in of the cables



hard chain link of fiberglass reinforced material

Fiberglass reinforced chain link – high stability



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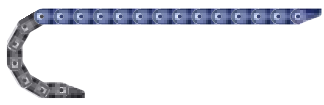
**High flexibility, high utilization factor – very quick cable laying thanks to simple pressing in of the cables.**

The elastic material of the lamella crossbar significantly shortens the assembly times. The cable carrier is laid **simply by pressing the cables in**. The defined swivel direction in the direction of the cable allows a significantly **higher utilization factor** than in systems where cables are inserted into the cable space from above. The new crossbar design also allows the use of dividers for cable separation.

**High stability – long unsupported lengths thanks to fiberglass-reinforced material.**

The use of fiberglass reinforced special plastic in the supporting area of the cable carrier makes it possible to nearly double the **unsupported length** compared to designs manufactured entirely from non-reinforced materials.

**EasyTrax – long unsupported lengths.**



**Designs completely made of non-reinforced material – long unsupported lengths can only be implemented with sag.**



■ EasyTrax – very high utilization factor. Crossbar can be swiveled in the direction of the cable.

■ Unfavorable swivel direction of the crossbars in the cable space – cables already laid jam the crossbars.

**Even greater side stability through locking in the stroke system**

The stops are locked in the bend radius stop and pretension stop. This prevents snapping out in these areas and achieves very high lateral stability.



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Cable Carrier Configurator

# Type ET 0320

Inside height

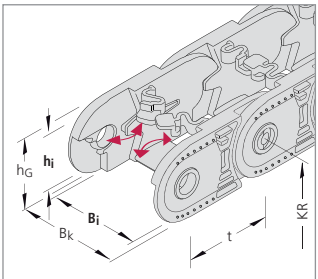


Inside widths



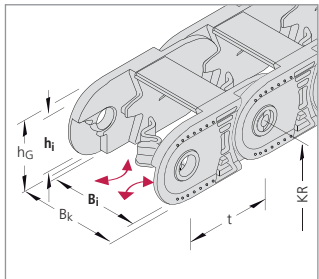
## Design 030

Outside: Simple pressing in of the cables



## Design 040

Inside: Simple pressing in of the cables



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## Dimensions and intrinsic chain weight

Type	h <sub>i</sub>	h <sub>G</sub>	Inside widths B <sub>i</sub>				B <sub>k</sub>
			Intrinsic chain weight				
ET 0320	18	25.5	15*	25	38	50*	B <sub>i</sub> + 12
			0.18	0.27	0.41	0.54	

\* on request

Dimensions in mm/Weights in kg/m

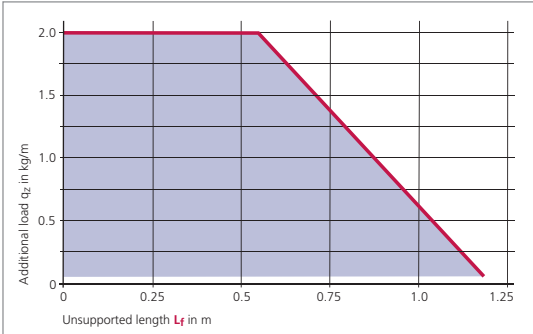
## Bend radius and pitch

Bend radii KR mm						Pitch t = 32.0 mm
28	38	48	75	100*	125*	

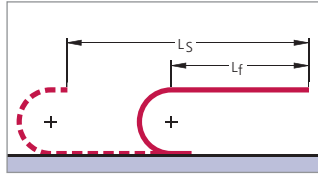
\* on request

## Load diagram

for unsupported length L<sub>f</sub> depending on the additional load



## Unsupported length L<sub>f</sub>



In the case of longer travel lengths, sag of the cable carriers is technically permissible depending on the application.

In a gliding arrangement, even longer travel lengths are possible (see page 301).

We are at your service to advise on these applications.

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## Example of ordering

Cable carrier				Divider system		Connection
ET 0320	030	38	48	640	TS 0 / 1	FA/MA
Type	Design	Inside width B <sub>i</sub> in mm	Bend radius KR in mm	Chain length L <sub>k</sub> in mm (without connection)	Divider system	Number of dividers n <sub>T</sub>
					Connection	Fixed point/Driver

### Ordering divider systems:

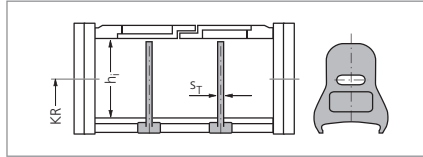
Please state the designation of the divider system (TS 0, TS 1 ...) and the number of dividers. Possibly attach a sketch with the dimensions.

## Type ET 0320

### Divider system TS 0

Type	$h_i$ mm	$S_T$ mm
ET 0320	18	2

The dividers can be moved in the cross section.



In the standard version, the divider systems are mounted on every second chain link.



Subject to change.

EasyTrax  
0320

Selection

BASIC  
LINE

BASIC  
LINEPLUS

Inside height

18

Inside widths

15  
50

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With Cable  
Center Configurator

Inside height

18

Inside widths

15  
50

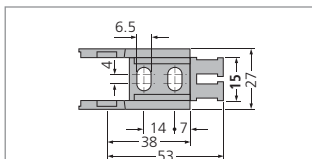
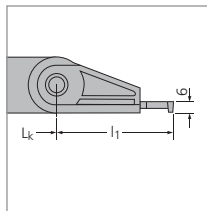
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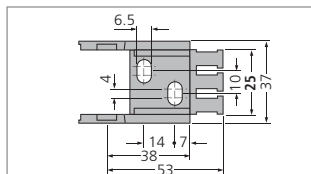
# Type ET 0320

## Connection dimensions

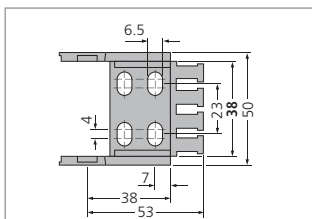
Plastic connectors with integrated strain relief



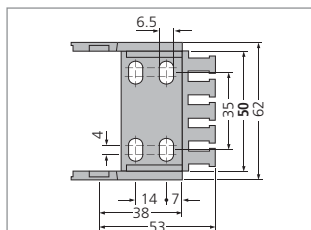
For chain width  $B_i = 15$  mm



For chain width  $B_i = 25$  mm



For chain width  $B_i = 38$  mm



For chain width  $B_i = 50$  mm

The dimensions of the fixed point and driver connections are identical.

Type	$B_i$	$B_k$	$n_z$
ET 0320. ... .15	15	27	2
ET 0320. ... .25	25	37	3
ET 0320. ... .38	38	50	4
ET 0320. ... .50	50	62	5

Dimensions in mm



Mounting brackets without a strain relief comb are also available – please contact us.



Inside height



Inside widths



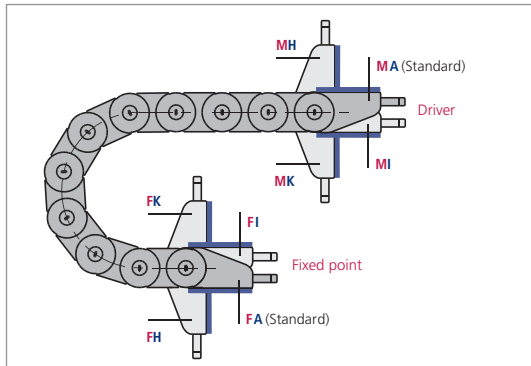
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Carrier Configurator

## Type ET 0320

### Connection variants



#### Connection point

- M** – Driver
- F** – Fixed point

#### Connection type

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

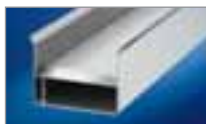


In the standard version, the connectors are mounted with the threaded joint outwards (**FA/MA**).

When ordering please specify the desired connection type (see ordering key on page 341).

The connection type can subsequently be altered simply by varying the connectors.

Guide channels  
▶ from page 301



Strain relief devices  
▶ from page 307



Cables for cable carrier systems  
▶ from page 350





kSeries  
The power to innovate



# K Series

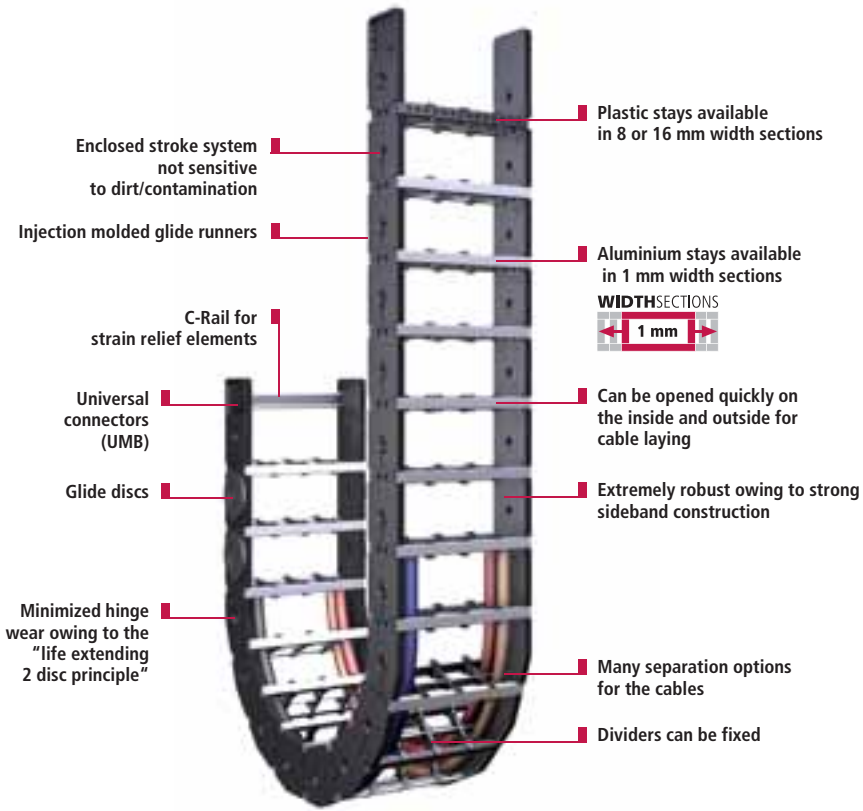
Cost-effective, robust cable carrier – also suitable for large additional loads

■ TÜV design approved in accordance with 2PFG 1036/10.97

Inside heights



Inside widths

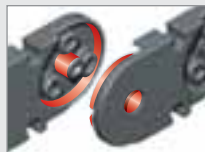


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Cable Carrier Configurator

Subject to change.



Minimized hinge wear owing to the "life extending 2 disc principle"



Glide discs for long service life for applications where the carrier is rotated through 90°



Injection molded glide runners for long service life in gliding arrangement



Many separation options for the cables

Overview K Series

Type KC with aluminium stays

Inside heights



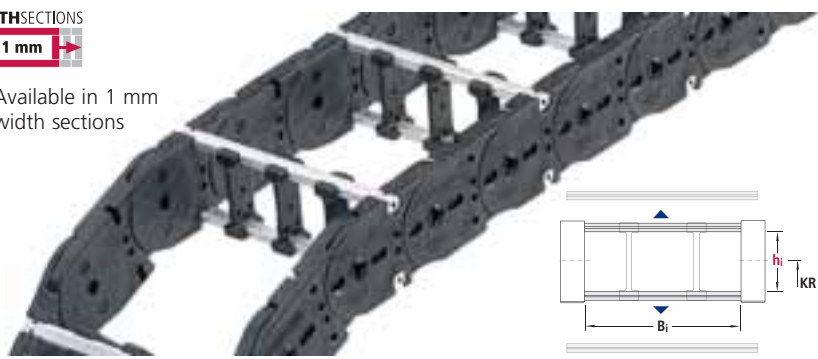
Inside widths



WIDTHSECTIONS



- Available in 1 mm width sections



Type	h <sub>i</sub>	B <sub>i</sub>	Maximum travel length in m	Dynamics of unsupported arrangement		Page
				Travel speed v <sub>max</sub> in m/s	Travel acceleration a <sub>max</sub> in m/s <sup>2</sup>	
KC 0650	38	75-400	220	8	40	137
KC 0900	58	100-500	260	6	30	137

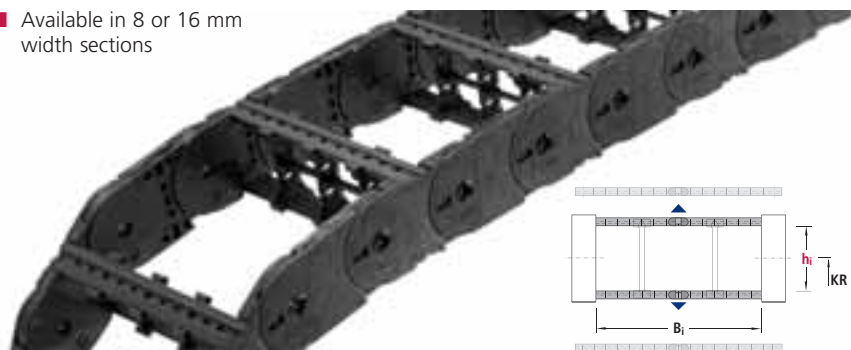
Dimensions in mm

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Type KE with plastic stays

- Available in 8 or 16 mm width sections



Type	h <sub>i</sub>	B <sub>i</sub>	Maximum travel length in m	Dynamics of unsupported arrangement		Page
				Travel speed v <sub>max</sub> in m/s	Travel acceleration a <sub>max</sub> in m/s <sup>2</sup>	
KE 0650	42	68-260	220	8	40	144
KE 0900	58	81-561	260	6	30	144

Dimensions in mm

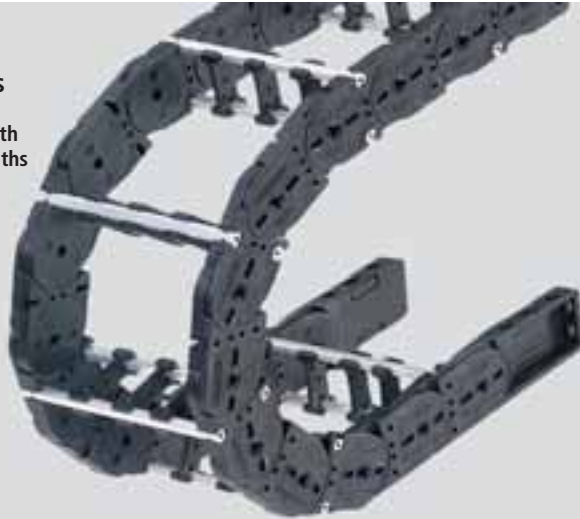
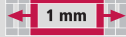
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## Type KC

with aluminium stays

- Available in 1 mm width sections (standard widths available ex-stock)

WIDTH SECTIONS



Inside heights



Inside widths



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## Stay variants

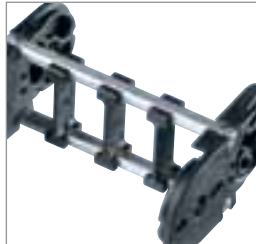
### Frame stay RS

Standard design –  
Types 0650 and 0900

For lightweight to medium loads.

**Opening options:**

**Outside/inside:** the cable carrier can be opened quickly and easily simply by rotating the stays through 90°.



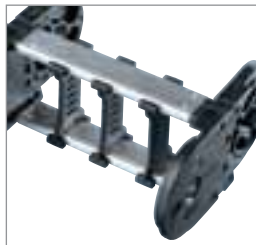
### Frame stay RV

Reinforced design –  
Type 0900

For medium to heavy loads and for large chain widths.

**Opening options:**

**Outside/inside:** the cable carrier can be opened quickly and easily simply by rotating the stays through 90°.



### Additional stay variant:



Stay variant LG  
made of aluminium:  
Optimum cable guidance in the neutral bending line

# Types KC 0650 and 0900

## Dimensions and intrinsic chain weight

Inside heights

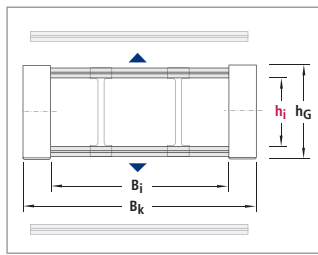


Inside widths



Type	Stay variant	h <sub>i</sub>	h <sub>G</sub>	B <sub>i</sub> min	q <sub>k</sub> min	B <sub>i</sub> max	q <sub>k</sub> max	B <sub>k</sub>
KC 0650	RS	38	57.5	75	1.87	400	3.60	B <sub>i</sub> + 28
KC 0900	RS	58	78.5	100	2.80	400	5.80	B <sub>i</sub> + 31
KC 0900	RV	58	78.5	100	3.20	500	7.00	B <sub>i</sub> + 31

WIDTH SECTIONS



Dimensions in mm/Weights in kg/m

Standard widths in 25 mm steps available **ex-stock**.

Type 0650: B<sub>i</sub> = 75, 100, 125, 150 ... 400

Type 0900: B<sub>i</sub> = 100, 125, 150, 175 ... 500

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## Bend radius and pitch

Type	Bend radii KR mm					
KC 0650	75	115	145	175	220	300
KC 0900	130	150	190	245	300	385

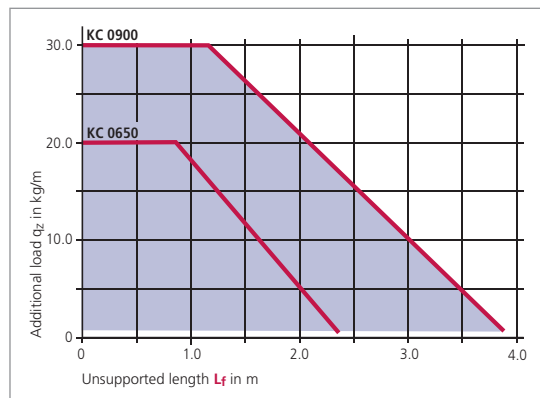
Pitch:

KC 0650: t = 65 mm

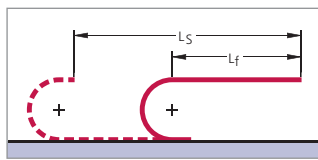
KC 0900: t = 90 mm

## Load diagram

for unsupported length L<sub>f</sub> depending on the additional load



## Unsupported length L<sub>f</sub>



In the case of longer travel lengths, sag of the cable carriers is technically permissible depending on the application.

In a gliding arrangement, even longer travel lengths are possible (see page 301).

We are at your service to advise on these applications.

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## Example of ordering

Cable carrier

KC 0900 - 225 - RV - 150 - 1890

Type Inside width B<sub>i</sub> in mm Stay variant Bend radius KR in mm Chain length L<sub>k</sub> in mm (without connection)

Divider system

TS 0 / 4

Divider system Number of dividers n<sub>T</sub>

Connection

FU/MU

Connection Fixed point/Driver

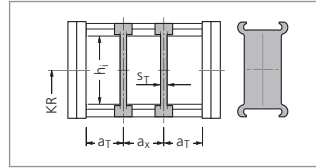
### Ordering divider systems:

Please state the designation of the divider system (TS 0, TS 1 ...) and the number of dividers. Possibly attach a sketch with the dimensions.

## Types KC 0650 and 0900

### Divider system TS 0

Type	Stay variant	h <sub>i</sub> mm	S <sub>T</sub> mm	a <sub>T</sub> min mm	a <sub>x</sub> min mm
KC 0650	RS	38	3	6,5	13
KC 0900	RS	58	4	7	14
KC 0900	RV	58	4	7	14



In the standard version, the divider systems are mounted on every second chain link.

Inside heights

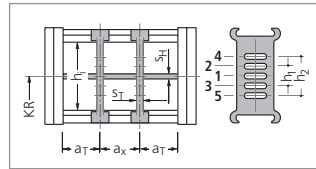


Inside widths



### Divider system TS 1 with continuous height subdivision made of aluminium

Type	Stay variant	h <sub>i</sub> mm	S <sub>T</sub> mm	a <sub>T</sub> min mm	a <sub>x</sub> min mm	S <sub>H</sub> mm	h <sub>1</sub> mm	h <sub>2</sub> mm
KC 0650	RS	38	3	6,5	13	4	15	–
KC 0900	RS	58	4	7	14	4	30	–
KC 0900	RV	58	4	7	14	4	15	30

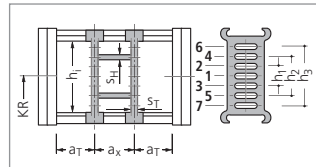


In the standard version, the divider systems are mounted on every second chain link.

### Divider system TS 3 with section subdivision, partitions made of plastic

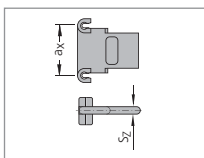
Type	Stay variant	h <sub>i</sub> mm	S <sub>T</sub> mm	a <sub>T</sub> min mm	a <sub>x</sub> min mm	S <sub>H</sub> mm	h <sub>1</sub> mm	h <sub>2</sub> mm	h <sub>3</sub> mm
KC 0650	RS	38	8	4	16*	4	14	28	–
KC 0900	RV	58	8	4	16*	4	14	28	42

The dividers are fixed by the partitions, \* When using the complete divider system is movable. plastic partitions



In the standard version, the divider systems are mounted on every second chain link.

### Dimensions of the plastic partitions for TS 3



S <sub>z</sub>	a <sub>x</sub> (center-to-center dividers)									
4	16	18	23	28	32	33	38	43	48	58
	64	68	78	80	88	96	112	128	144	160
	176	192	208	–	–	–	–	–	–	–

Dimensions in mm

Aluminium partitions in 1 mm width sections are also available.

When using partitions with a<sub>x</sub> > 112 mm there should be an additional central support with a twin divider.

Thickness of the twin dividers: KC 0650 S<sub>T</sub> = 3 mm, KC 0900 S<sub>T</sub> = 4 mm  
Twin dividers are designed for subsequent fitting in the partition system.

## Types KC 0650 and 0900

### Glide discs and injection molded glide runners

#### Inside heights



#### Inside widths



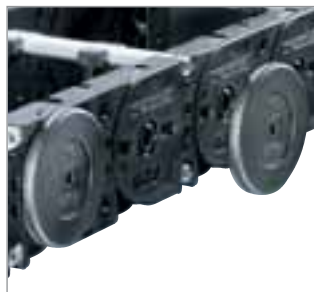
#### Glide discs

If the cable carrier is arranged rotated "through 90" (gliding on the outer side of the chain band), the glide discs attached to the side optimize the friction and wear conditions.

#### Determining the chain width with glide discs on both chain bands:

$$\text{KC 0650: } B_{EF'} = B_i + 36 \text{ mm}$$

$$\text{KC 0900: } B_{EF'} = B_i + 45 \text{ mm}$$



#### Injection molded glide runners

guarantee the long service life of the cable carrier in the case of long travel lengths and large additional loads.



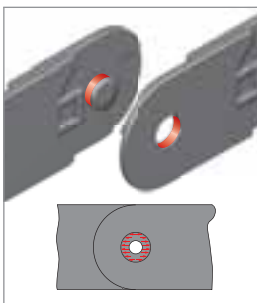
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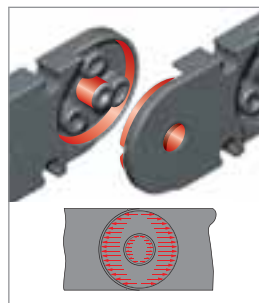
### Minimized hinge wear owing to the "life extending 2 disc principle"

In the K Series, the push and pull forces are transmitted via the optimum link design for this purpose.

As a result link wear is reduced to a minimum and the life of the cable carrier is considerably lengthened.



■ Force transmission with a pin-hole joint

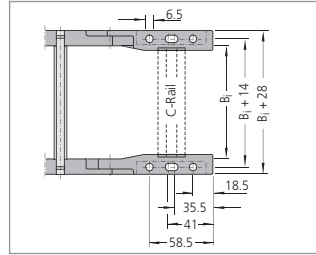
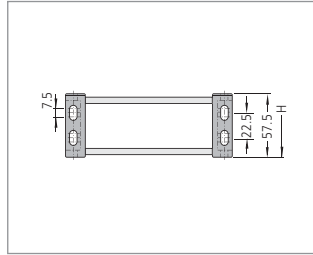
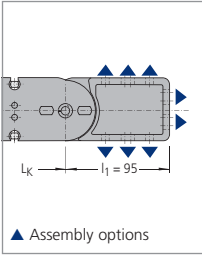


■ Force transmission with the "life extending 2 disc principle"

Use our free project planning service.

## Types KC 0650 and 0900

### UMB (Universal Mounting Brackets) made of plastic – Type KC 0650



Inside heights

38  
58

Inside widths

75  
500

The dimensions of the fixed point and driver connections are identical.

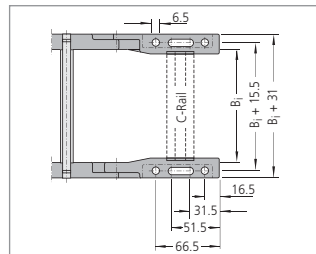
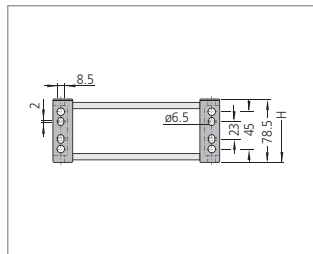
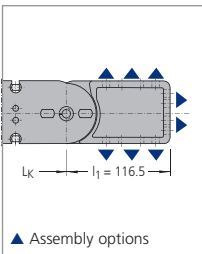
End connectors made of steel plate available on request.

**Optional C-rails and strain relief elements for cables can be found on the following pages.**

When ordering please specify the connection type FU/MU (see ordering key on page 343).



### UMB (Universal Mounting Brackets) made of plastic – Type KC 0900



The dimensions of the fixed point and driver connections are identical.

End connectors made of steel plate available on request.

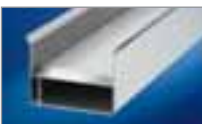
**Optional C-rails and strain relief elements for cables can be found on the following pages.**

When ordering please specify the connection type FU/MU (see ordering key on page 343).

**Guide channels**  
➤ from page 301

**Strain relief devices**  
➤ from page 307

**Cables for cable carrier systems**  
➤ from page 350





## Types KC 0650 and 0900

### Strain relief devices

#### Strain relief combs made of plastic on both sides (KC 0650)

The cables can be fixed securely and simply using the **optional strain relief combs**.

The strain relief combs are installed between the UMBs, and do not need to be bolted on separately or mounted on a C-Rail.

**Please state on the order whether strain relief combs are needed.**

Inside heights



Inside widths



■ Universal mounting bracket with strain relief comb



■ Both-sided strain relief comb

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■ Fixing in the UMB.

Type	B <sub>i</sub> mm	n <sub>z</sub>
KC 0650	78	5
KC 0650	83	5
KC 0650	103	7
KC 0650	108	7
KC 0650	123	8
KC 0650	128	9
KC 0650	133	9
KC 0650	153	11
KC 0650	158	11
KC 0650	178	13
KC 0650	183	13
KC 0650	203	15
KC 0650	208	15
KC 0650	233*	17
KC 0650	258*	19

n<sub>z</sub> = Number of teeth on one side of the comb

\* on request

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## Types KC 0650 and 0900

### Strain relief devices

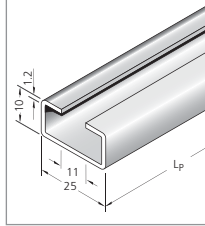
#### C-rails for LineFix bracket clamps, SZL strain reliefs and clamps

The optional C-rails are fixed by means of the universal mounting brackets and do not have to be screwed separately.

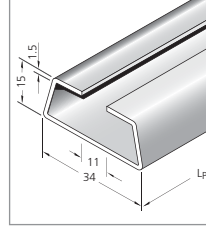
Please state in your order whether C-rails are needed.



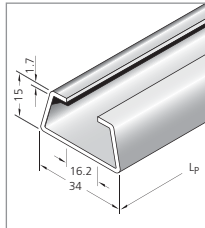
■ Universal mounting bracket with C-rail



■ **KC 0650:**  
Integratable C-rail  
25 x 10 mm,  
slit width 11 mm,  
material steel,  
Item-No. 3931



■ **KC 0900:**  
Integratable C-rail  
34 x 15 mm,  
slit width 11 mm,  
material steel,  
Item-No. 3935

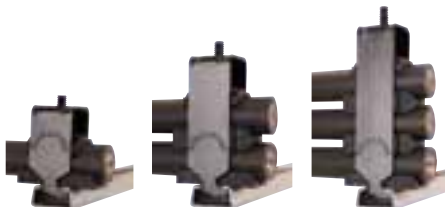


■ **KC 0900:**  
Integratable C-rail  
34 x 15 mm,  
slit width 16 – 17 mm,  
material aluminium,  
Item-No. 3926,  
material steel,  
Item-No. 3932

Our LineFix strain reliefs are optimally suited for the C-rails. (LineFix bracket clamps and other strain relief devices – see Accessories chapter, from page 307 onwards).



■ C-rail with LineFix strain relief



Inside heights

38  
-  
58

Inside widths

75  
-  
500

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with  
KABELSCHLEPP  
Cable Center Configurator

Inside  
heights42  
-  
58Inside  
widths68  
-  
561

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project planning service.

## Type KE

with plastic stays

- KE 0650  
available in 8 mm  
width sections
- KE 0900  
available in 16 mm  
width sections



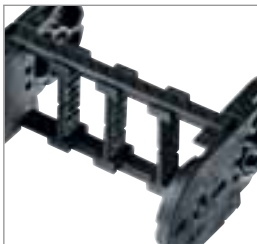
### Stay variants

#### Frame stay RE

Standard design

Opening options:

**Outside/inside:** the cable carrier can be opened quickly and easily simply by rotating the stays through 90°.



### Stay arrangement

**Standard: on every 2nd chain link**

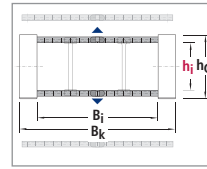
Stays can be fitted on every chain link, please specify when placing your order.

## Types KE 0650 and 0900

### Dimensions and intrinsic chain weight

Type	Stay variant	h <sub>i</sub>	h <sub>G</sub>	B <sub>i</sub> min	q <sub>k</sub> min	B <sub>i</sub> max	q <sub>k</sub> max	B <sub>k</sub>	Width sections
KE 0650	RE	42	57.5	68	1.75	260	2.71	B <sub>i</sub> + 28	8
KE 0900	RE	58	78.5	81	2.95	561	5.95	B <sub>i</sub> + 31	16

Dimensions in mm/Weights in kg/m



Inside heights

42  
-  
58

Inside widths

68  
-  
561

### Bend radius and pitch

Type	Bend radii KR mm					
KE 0650	75	115	145	175	220	300
KE 0900	130	150	190	245	300	385

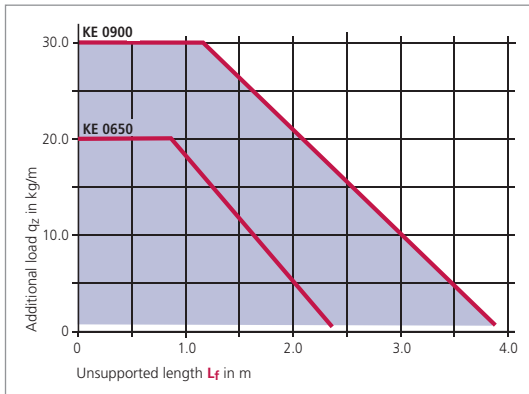
Pitch:

KE 0650: t = 65 mm

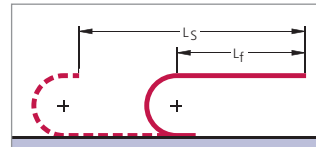
KE 0900: t = 90 mm

### Load diagram

for unsupported length  $L_f$  depending on the additional load



Unsupported length  $L_f$



In the case of longer travel lengths, sag of the cable carriers is technically permissible depending on the application.

In a gliding arrangement, even longer travel lengths are possible (see page 301).

We are at your service to advise on these applications.

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### Example of ordering

Cable carrier				Divider system		Connection
KE 0900	209	RE	190	2250	TS 0 / 4	FU/MU
Type	Inside width B <sub>i</sub> in mm	Stay variant	Bend radius KR in mm	Chain length L <sub>k</sub> in mm (without connection)	Divider system	Number of dividers n <sub>T</sub>
						Connection Fixed point/Driver

#### Ordering divider systems:

Please state the designation of the divider system (TS 0, TS 1 ...) and the number of dividers. Possibly attach a sketch with the dimensions.

# Types KE 0650 and 0900

## Fixing the dividers

Inside heights



Inside widths



In the standard version, dividers or the complete divider system (dividers with height subdivisions) can be moved in the cross section (Mounting version A)

For divider systems TS 0 and TS 1 the dividers or complete divider systems (dividers with height subdivisions) can be fixed by turning the stays. (Mounting version B).

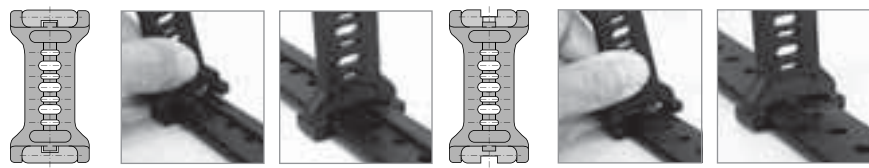
If the fixed mounting version is desired, please state this when placing your order.

### Mounting version A (Standard)

**Movable divider:**  
The arresting cam of the divider can move in the groove of the stay.

### Mounting version B

**Fixed divider:**  
The arresting cam of the divider is fixed in the hole of the stay.



With a movable assembly of the dividers (mounting version A), the holes in the stay do not have any function and hence the dimension  $a_x$ -section has is meaningless.

Please note that the dividers can only be fixed in positions at which there is a hole in the stay. The dimension  $a_x$ -section specifies the hole intervals in the stay.

**Hole intervals = fixing positions of the dividers ( $a_x$ -sections)**

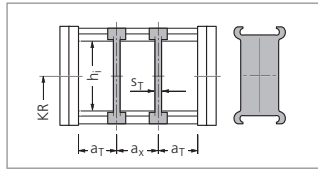
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## Divider system TS 0

Type	Stay variant	$h_i$ mm	Mounting version A			Mounting version B			
			$S_T$ mm	$a_T$ min mm	$a_x$ min mm	$S_T$ mm	$a_T$ min mm	$a_x$ min mm	$a_x$ section mm
KE 0650	RE	42	4.2	6.5	13.0	4.2	22.0	16	8
KE 0900	RE	58	6.0	7.5	14.5	6.0	8.5	16	16

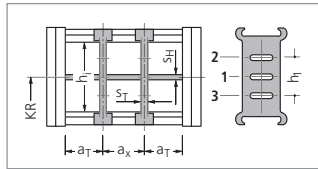
In the standard version, the divider systems are mounted on every second chain link.



## Divider system TS 1 with continuous height subdivision made of aluminium

Type	Stay variant	$h_i$ mm	Mounting version A			Mounting version B				$S_H$ mm	$h_1$ mm
			$S_T$ mm	$a_T$ min mm	$a_x$ min mm	$S_T$ mm	$a_T$ min mm	$a_x$ min mm	$a_x$ section mm		
KE 0650	RE	42	4.2	6.5	13.0	4.2	22.0	16	8	4	22
KE 0900	RE	58	6.0	7.5	14.5	6.0	24.5	16	16	4	22

In the standard version, the divider systems are mounted on every second chain link.

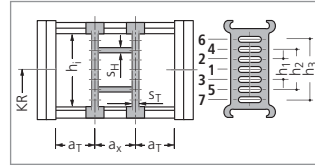


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## Types KE 0650 and 0900

### Divider system TS 3 with section subdivision, partitions made of plastic

Type	Stay variant	h <sub>i</sub> mm	S <sub>T</sub> mm	a <sub>T</sub> min mm	a <sub>x</sub> min mm	S <sub>H</sub> mm	h <sub>1</sub> mm	h <sub>2</sub> mm	h <sub>3</sub> mm
KE 0650	RE	42	8	4	16*	4	14	28	—
KE 0900	RE	58	8	4	16*	4	14	28	42



\* When using plastic partitions

The dividers are fixed by the partitions, the complete divider system is movable.

In the standard version, the divider systems are mounted on every second chain link.

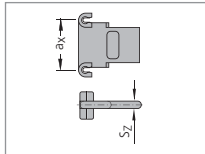
Inside heights



Inside widths



### Dimensions of the plastic partitions for TS 3



S <sub>z</sub>	a <sub>x</sub> (center-to-center distance, dividers)									
4	16	18	23	28	32	33	38	43	48	58
	64	68	78	80	88	96	112	128	144	160
	176	192	208	—	—	—	—	—	—	—

Dimensions in mm

Aluminium partitions in 1 mm width sections are also available.

When using partitions with  $a_x > 112$  mm there should be an additional central support with a **twin divider**.

Thickness of the twin dividers: KE 0650 S<sub>T</sub> = 3 mm, KE 0900 S<sub>T</sub> = 4 mm

Twin dividers are designed for subsequent fitting in the partition system.

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## Glide discs and injection molded glide runners

### Glide discs

If the cable carrier is arranged rotated "through 90°" (gliding on the outer side of the chain band), the glide discs attached to the side optimize the friction and wear conditions.



### Determining the chain width with glide discs on both chain bands:

$$\text{KE 0650: } B_{EF'} = B_i + 36 \text{ mm}$$

$$\text{KE 0900: } B_{EF'} = B_i + 45 \text{ mm}$$



### Injection molded glide runners

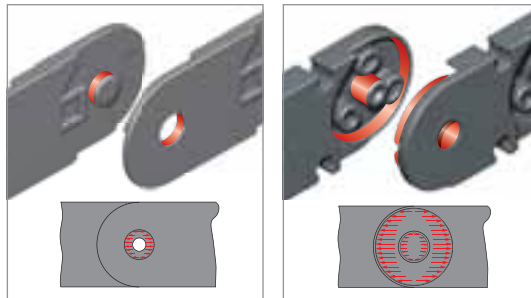
guarantee the long service life of the cable carrier in the case of long travel lengths and large additional loads.

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## Minimized hinge wear owing to the "life extending 2 disc principle"

In the K Series, the push and pull forces are transmitted via the optimum link design for this purpose.

As a result link wear is reduced to a minimum and the life of the cable carrier is considerably lengthened.



■ Force transmission with a pin-hole joint

■ Force transmission with the "life extending 2 disc principle"

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Cable Carrier Configurator

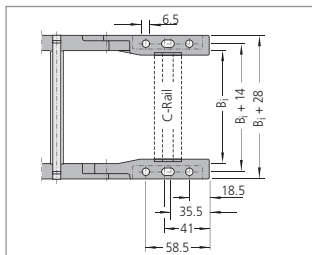
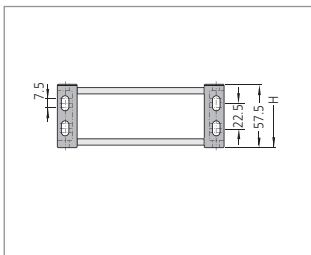
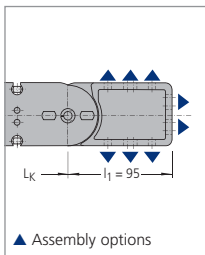
## Types KE 0650 and 0900

## UMB (Universal Mounting Brackets) made of plastic – Type KE 0650

Inside heights

42  
58

Inside widths

68  
561

The dimensions of the fixed point and driver connections are identical.

End connectors made of steel plate available on request.

**Optional C-rails and strain relief elements for cables can be found on the following pages.**

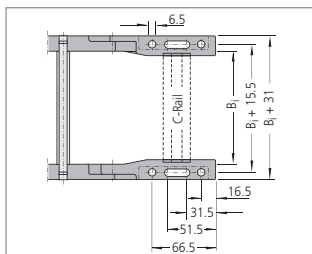
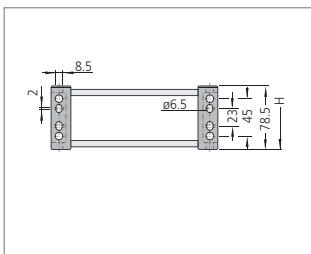
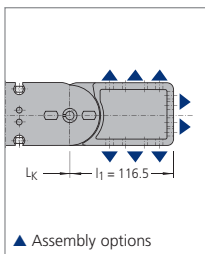
When ordering please specify the connection type FU/MU (see ordering key on page 343).

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## UMB (Universal Mounting Brackets) made of plastic – Type KE 0900



The dimensions of the fixed point and driver connections are identical.

End connectors made of steel plate available on request.

**Optional C-rails and strain relief elements for cables can be found on the following pages.**

When ordering please specify the connection type FU/MU (see ordering key on page 343).

Use our free project planning service.

Guide channels  
➤ from page 301



Strain relief devices  
➤ from page 307



Cables for cable carrier systems  
➤ from page 350



## Types KE 0650 and 0900

### Strain relief devices

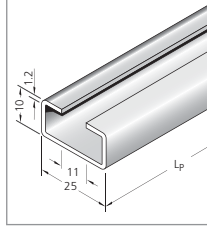
#### C-rails for LineFix bracket clamps, SZL strain reliefs and clamps

The optional C-rails are fixed by means of the universal mounting brackets and do not have to be screwed separately.

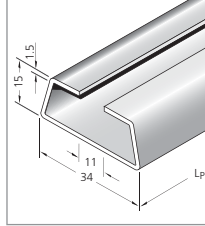
Please state in your order whether C-rails are needed.



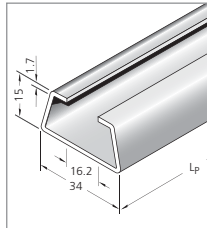
■ Universal mounting bracket with C-rail



■ **KE 0650:**  
Integratable C-rail  
25 x 10 mm,  
slit width 11 mm,  
material steel,  
Item-No. 3931



■ **KE 0900:**  
Integratable C-rail  
34 x 15 mm,  
slit width 11 mm,  
material steel,  
Item-No. 3935



■ **KE 0900:**  
Integratable C-rail  
34 x 15 mm,  
slit width 16 – 17 mm,  
material aluminium,  
Item-No. 3926,  
material steel,  
Item-No. 3932

Our LineFix strain reliefs are optimally suited for the C-rails. (LineFix bracket clamps and other strain relief devices – see Accessories chapter, from page 307 onwards).



■ C-rail with LineFix strain relief



Inside heights



Inside widths



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Cable Center Configurator





MASTER Series  
The power to innovate



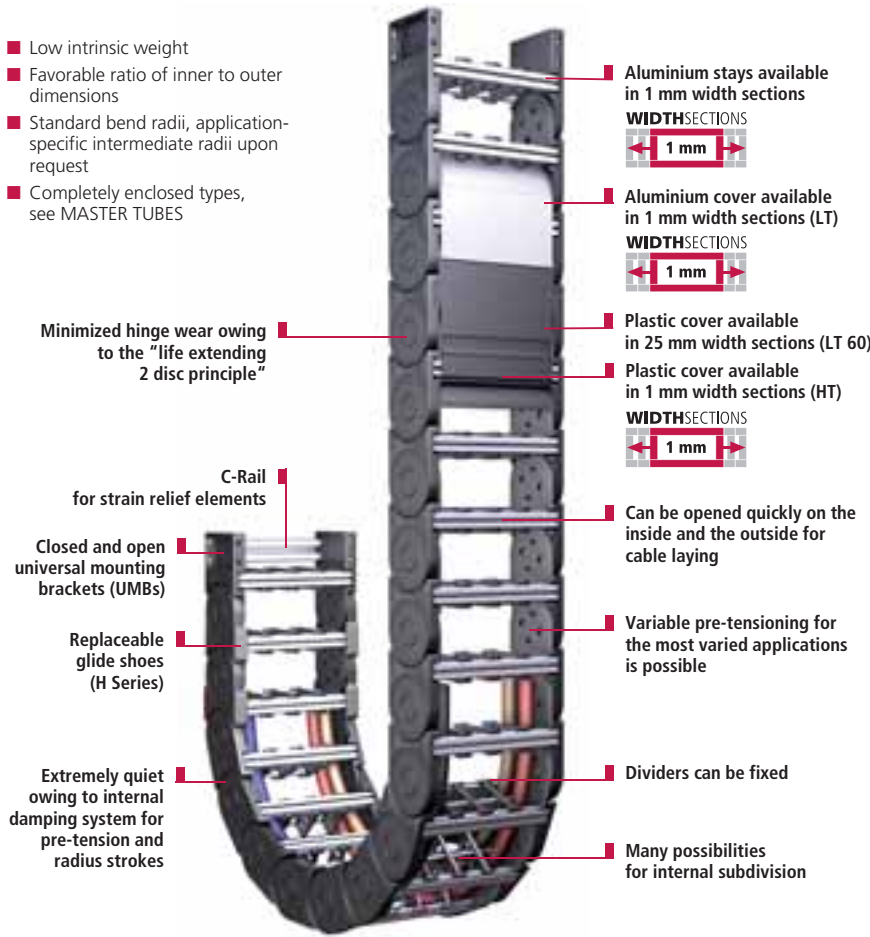
product  
design  
award

2006

# MASTER Series

Quiet and weight-optimized cable carriers\*

- Low intrinsic weight
- Favorable ratio of inner to outer dimensions
- Standard bend radii, application-specific intermediate radii upon request
- Completely enclosed types, see MASTER TUBES



Minimized hinge wear owing to the "life extending 2 disc principle"

C-Rail for strain relief elements

Closed and open universal mounting brackets (UMBs)

Replaceable glide shoes (H Series)

Extremely quiet owing to internal damping system for pre-tension and radius strokes

Aluminium stays available in 1 mm width sections



Aluminium cover available in 1 mm width sections (LT)



Plastic cover available in 25 mm width sections (LT 60)

Plastic cover available in 1 mm width sections (HT)



Can be opened quickly on the inside and the outside for cable laying

Variable pre-tensioning for the most varied applications is possible

Dividers can be fixed

Many possibilities for internal subdivision

Inside heights



Inside widths

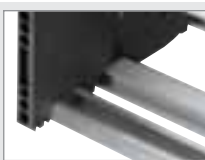


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Minimized hinge wear owing to the "life extending 2 disc principle"



C-Rails integrated in the connector



Dividers can be fixed for installations where the carrier is rotated through 90° and applications with high transverse accelerations



Many separation options for the cables

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Cable Carrier Configurator

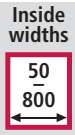
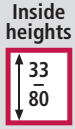
Subject to change.

\* Some features can be different for certain types for design reasons. Our specialists are happy to advise you.

# Types MASTER HC/LC

with aluminium stays

- Available in 1 mm width sections (standard widths in 25 mm steps available ex-stock)

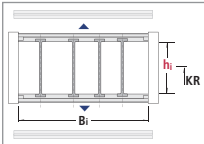


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Type	h <sub>i</sub>	B <sub>i</sub>	Maximum travel length in m	Dynamics of unsupported arrangement		Page
				Travel speed v <sub>max</sub> in m/s	Travel acceleration a <sub>max</sub> in m/s <sup>2</sup>	
HC 33	33	50 – 400	60	10	50	153
HC 46	46	50 – 400	80	8	40	153
LC 60	60	75 – 600	7*	6	30	153
LC 80	80	100 – 800	8*	5	25	153

\* only unsupported

Dimensions in mm



## Stay variants

### Frame stay RSH/RSL

Frame stay made of aluminium

Opening options:

**Outside/inside:** the cable carrier can be opened quickly and easily simply by rotating the stays.



## Stay arrangement

Stays mounted on every chain link.



Put the tool in place, turn it through 15° and the chain is open.

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## TUBE SERIES – covered cable carriers

Types HT/LT with plastic or aluminium cover system

- HT 33/46 with plastic cover system
- LT 60 with plastic or aluminium cover system
- LT 80 with aluminium cover system



## Types MASTER HC 33/46, LC 60/80

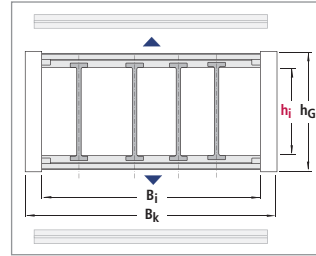
### Dimensions and intrinsic chain weight

Type	Stay variant	h <sub>i</sub>	h <sub>G</sub>	B <sub>i</sub> min*	q <sub>k</sub> min	B <sub>i</sub> max*	q <sub>k</sub> max	B <sub>k</sub>
HC 33	RSH	33	51	50	1.37	400	3.99	B <sub>i</sub> + 22
HC 46	RSH	46	64	50	1.83	400	4.01	B <sub>i</sub> + 26
LC 60	RSL	60	88	75	2.78	600	7.10	B <sub>i</sub> + 28
LC 80	RSL	80	110	100	3.89	800	10.01	B <sub>i</sub> + 32

\* Standard widths in 25 mm steps

Dimensions in mm/Weights in kg/m

WIDTHSECTIONS



Inside heights



Inside widths



### Bend radius and pitch

Type	Bend radii KR mm										
HC 33	60	75	100	125	150	175	200	220	250	300	-
HC 46	75	100	115	125	150	170	200	215	250	300	350
LC 60	135	150	200	250	300	350	400	500	-	-	-
LC 80	-	150	200	250	300	350	400	500	-	-	-

Pitch:

HC 33: t = 56 mm

HC 46: t = 67 mm

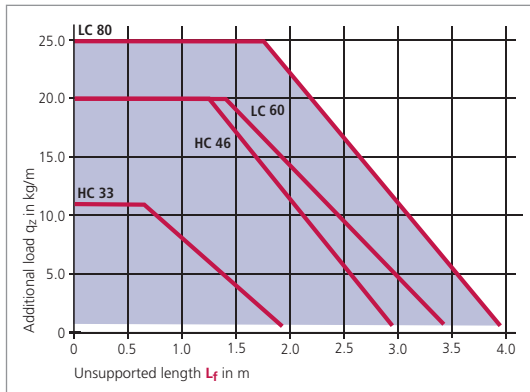
LC 60: t = 91 mm

LC 80: t = 111 mm

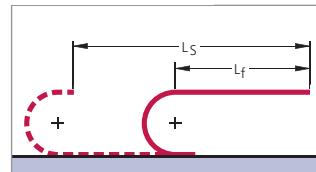
The listed values are standard bend radii. For special applications it is also possible, to set any desired intermediate radii at the production stage. Please do get in touch with us, we would be happy to advise you.

### Load diagram

for unsupported length L<sub>f</sub> depending on the additional load



Unsupported length L<sub>f</sub>



In the case of longer travel lengths, sag of the cable carriers is technically permissible depending on the application.

In a gliding arrangement, even longer travel lengths are possible (see page 301).

We are at your service to advise on these applications.

Font:

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### Example of ordering

Cable carrier				Divider system		Connection	
HC 46	200	RSH	170	2010	TS 0	4	FU/MU
Type	Inside width B <sub>i</sub> in mm	Stay variant	Bend radius KR in mm	Chain length L <sub>k</sub> in mm (without connection)	Divider system	Number of dividers n <sub>T</sub>	Connection Fixed point/Driver

### Ordering divider systems:

Please state the designation of the divider system (TS 0, TS 1 ...) and the number of dividers. Possibly attach a sketch with the dimensions.

# Types MASTER HC 33/46, LC 60/80

## Divider system TS 0

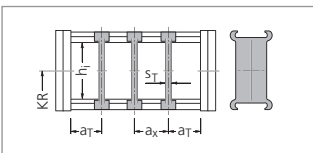
Inside heights



Inside widths



Type	h <sub>i</sub> mm	S <sub>T</sub> mm	a <sub>T</sub> min mm	a <sub>x</sub> min mm
HC 33	33	3	7	13
HC 46	46	3	7	13
LC 60	60	4	9	16
LC 80	80	4	9	16



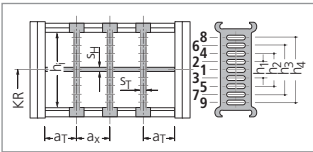
The dividers can be moved in the cross section. Dimensions in mm  
 In the standard version, the divider systems are mounted on every second chain link.



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## Divider system TS 1 with continuous height subdivision made of aluminium

Type	h <sub>i</sub> mm	S <sub>T</sub> mm	a <sub>T</sub> min mm	a <sub>x</sub> min mm	S <sub>H</sub> mm	h <sub>1</sub> mm	h <sub>2</sub> mm	h <sub>3</sub> mm	h <sub>4</sub> mm
HC 33	33	3	7	13	4	18	—	—	—
HC 46	46	3	7	13	4	20	—	—	—
LC 60	60	4	9	16	4	15	30	45	—
LC 80	80	4	9	16	4	15	30	45	60



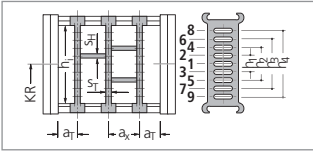
The dividers can be moved in the cross section. Dimensions in mm  
 In the standard version, the divider systems are mounted on every second chain link.



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## Divider system TS 3 with section subdivision, partitions made of plastic

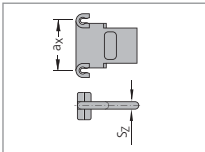
Type	h <sub>i</sub> mm	S <sub>T</sub> mm	a <sub>T</sub> min mm	a <sub>x</sub> min mm	S <sub>H</sub> mm	h <sub>1</sub> mm	h <sub>2</sub> mm	h <sub>3</sub> mm	h <sub>4</sub> mm
HC 33	33	8	6	16*	4	14	—	—	—
HC 46	46	8	6	16*	4	14	28	—	—
LC 60	60	8	6	16*	4	14	28	—	—
LC 80	80	8	6	16*	4	14	28	42	56



\* When using plastic partitions Dimensions in mm  
 The dividers are fixed by the partitions, the complete divider system is movable.  
 In the standard version, the divider systems are mounted on every second chain link.



## Dimensions of the plastic partitions for TS 3



S <sub>z</sub>	a <sub>x</sub> (center-to-center dividers)									
4	16	18	23	28	32	33	38	43	48	58
	64	68	78	80	88	96	112	128	144	160
	176	192	208	—	—	—	—	—	—	—

Dimensions in mm

Aluminium partitions in 1 mm width sections are also available.  
 When using partitions with a<sub>x</sub> > 112 mm there should be an additional central support with a **twin divider**.  
 Twin dividers are designed for subsequent fitting in the partition system.

## Types MASTER HC 33/46, LC 60/80

### Fixing the dividers

In the standard version, dividers or the complete divider system (dividers with height subdivisions) can be moved in the cross section.

Fixing profiles can be used to fix the dividers or complete divider systems.

Fixing in HC 33/46 in 2 mm steps, in LC 60/80 in 2 mm steps.



■ Fixing on both sides ensures that the dividers have a secure hold.



■ Fixing of dividers with fixing profiles



■ The fixing profiles are simply pushed into the stays.

If the fixed mounting version is desired, please state this when placing your order.

Inside heights



Inside widths



### Glide shoes – the economical solution for gliding applications (HC 33/46)

#### Replaceable glide shoes made of plastic

To extend the life of cable carriers in gliding operations KABELSCHLEPP supplies detachable, exchangeable glide shoes.

Replaceable glide shoes are a very economical solution. When wear occurs only the glide shoes are replaced, and not the complete cable carrier.

Glide shoes for the H Series are made of a highly wear-resistant special material.



#### Chain height with glide shoes:

$$\text{HC 33: } h_G' = h_G + 3.2 = 54.2$$

$$\text{HC 46: } h_G' = h_G + 3.2 = 67.2$$

Dimensions in mm

#### Minimum bend radii when using glide shoes:

$$\text{HC 33: } KR_{\min} = 100 \text{ mm}$$

$$\text{HC 46: } KR_{\min} = 100 \text{ mm}$$



By means of a positive snap connection, the glide shoes sit firmly on the chain link.

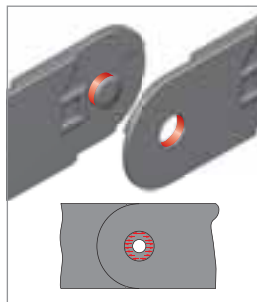
### Minimized hinge wear owing to the "life extending 2 disc principle"

In the MASTER Series, the push and pull forces are transmitted via the optimum link design for this purpose.

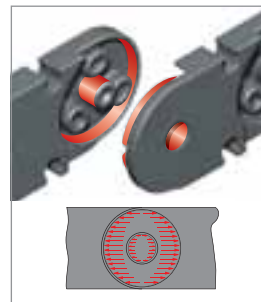
As a result link wear is reduced to a minimum and the life of the cable carrier is considerably lengthened.

The internal stopper and pre-tensioning dampers have a noise-muffling effect. This makes the chain particularly quiet.

Should your application require it, the pre-tensioning (in deviation from the standard pre-tensioning) can be adjusted at the time of production. We can produce a cable carrier with a pre-tension which is exactly suited to the load values of your application.



■ Force transmission with a pin-hole joint



■ Force transmission with the "life extending 2 disc principle"

# Types MASTER HC 33/46, LC 60/80

## UMB (Universal Mounting Brackets) made of plastic

Various universal mounting brackets made of plastic provide a suitable connection for any assembly situation. Each type can be screwed from above, below or as a flange.

Inside heights



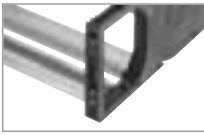
Inside widths



■ Standard connector



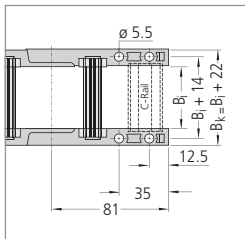
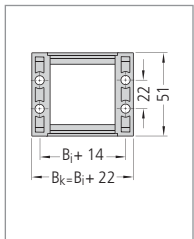
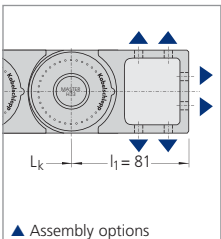
■ Long, closed connector for many of the hole patterns commercially available with large hole intervals (only LC)



■ Short, open connector, easy assembly owing to optimal accessibility of the holes in restricted installation conditions (only LC)

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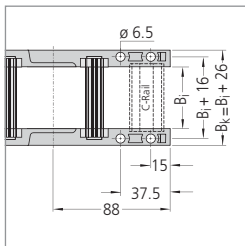
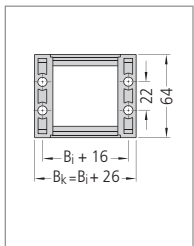
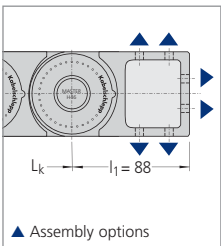
### Connection dimensions Type HC 33



The dimensions of the fixed point and driver connections are identical!  
**Optional C-rails and strain relief elements for cables can be found on the following pages.**  
 When ordering please specify the connection type FU/MU (see ordering key on page 343).

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### Connection dimensions Type HC 46



The dimensions of the fixed point and driver connections are identical!  
**Optional C-rails and strain relief elements for cables can be found on the following pages.**  
 When ordering please specify the connection type FU/MU (see ordering key on page 343).

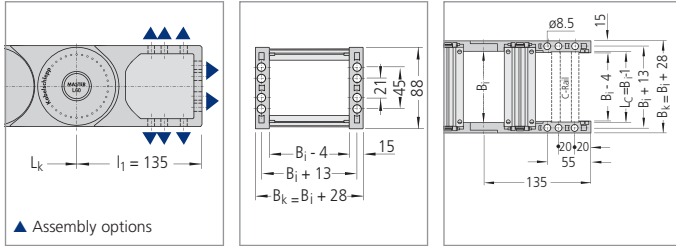
Use our free project planning service.



## Types MASTER HC 33/46, LC 60/80

### Connection dimensions Type LC 60

Standard connector and short, open connector



The dimensions of the fixed point and driver connections are identical!

**Optional C-rails and strain relief elements for cables can be found on the following pages.**

When ordering please specify the connection type FU/MU (see ordering key on page 343).

Inside heights

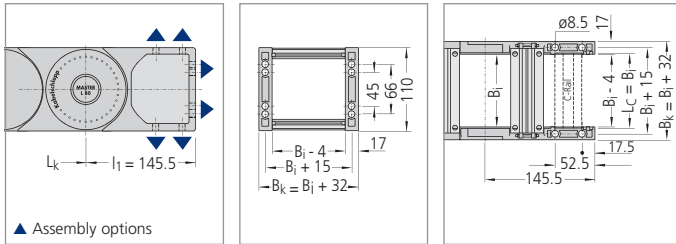


Inside widths



### Connection dimensions Type LC 80

Standard connector and short, open connector



The dimensions of the fixed point and driver connections are identical!

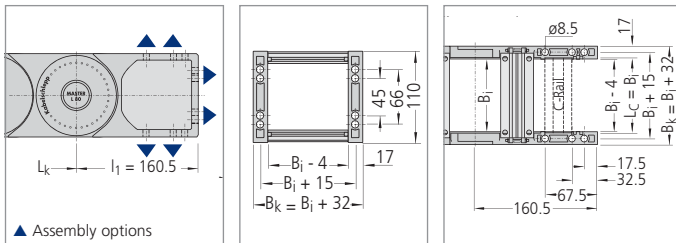
**Optional C-rails and strain relief elements for cables can be found on the following pages.**

When ordering please specify the connection type FU/MU (see ordering key on page 343).

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### Long, closed connector



The dimensions of the fixed point and driver connections are identical!

**Optional C-rails and strain relief elements for cables can be found on the following pages.**

When ordering please specify the connection type FU/MU (see ordering key on page 343).

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With CONCEPT  
 Cable Center Configurator



## Types MASTER HC 33/46, LC 60/80

### Strain relief devices

#### Strain relief combs made of plastic on both sides for standard carrier widths (MASTER HC)

The cables can be fixed securely and simply using the **optional strain relief combs**.

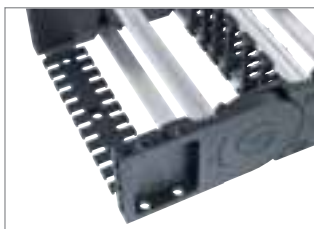
The strain relief combs are installed between the UMBs, and do not need to be bolted on separately or mounted on a C-Rail.

**Please state on the order whether strain relief combs are needed.**

Inside heights



Inside widths



■ Universal mounting bracket with strain relief comb



■ Both-sided strain relief comb

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■ Fixing in the UMB.

Type	B <sub>i</sub> mm	n <sub>z</sub>
HC 33/46	50	3
HC 33/46	70	5
HC 33/46	75	5
HC 33/46	95	7
HC 33/46	100	7
HC 33/46	115	8
HC 33/46	120	9
HC 33/46	125	9
HC 33/46	145	11
HC 33/46	150	11
HC 33/46	170	13
HC 33/46	175	13
HC 33/46	195	15
HC 33/46	200	15
HC 33/46	225*	17
HC 33/46	250*	19

n<sub>z</sub> = Number of teeth on one side of the comb

\* on request

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#### Strain relief comb made of aluminium on one side for individual carrier widths (MASTER HC)

The cables can be fixed securely and simply using the **optional strain relief combs**.

The strain relief combs are installed between the universal mounting brackets, and do not need to be bolted on separately or mounted on a C-Rail.

**Please state on the order whether strain relief combs are needed.**

Use our free project planning service.



■ Strain relief comb made of aluminium

## Types MASTER HC 33/46, LC 60/80

### Strain relief devices

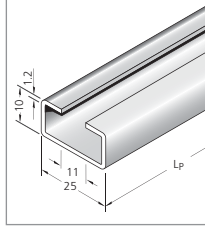
#### C-rails for LineFix bracket clamps, SZL strain reliefs and clamps

The optional C-rails are fixed by means of the universal mounting brackets and do not have to be screwed separately.

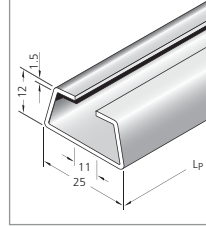
Please state in your order whether C-rails are needed.



■ Universal mounting bracket with C-rail



■ **MASTER HC:**  
Integratable C-rail  
25 x 10 mm,  
slit width 11 mm,  
material steel,  
Item-No. 3931

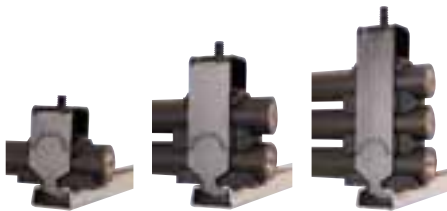


■ **MASTER LC:**  
Integratable C-rail  
25 x 12 mm,  
slit width 11 mm,  
material steel,  
Item-No. 3934

Our LineFix strain reliefs are optimally suited for the C-rails. (LineFix bracket clamps and other strain relief devices – see Accessories chapter, from page 307 onwards).



■ C-rail with LineFix strain relief



Inside heights



Inside widths

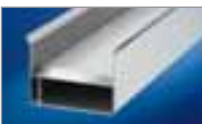


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With Cable  
Carrier Configurator

Guide channels  
► from page 301



Strain relief devices  
► from page 307



Cables for cable carrier systems  
► from page 350



Inside  
heights33  
|  
80Inside  
widths50  
|  
800

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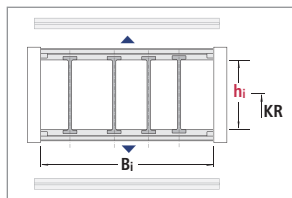
## Types MASTER HT/LT

Quiet and weight-optimized cable carriers

- Extremely quiet due to internal noise damping system
- Favorable ratio of inner to outer dimensions
- Standard bend radii, application-specific intermediate radii on request
- Variable pretension for many different applications possible
- Can be opened quickly on the inside and outside for cable laying
- Transmission of forces (tensile and thrust forces) over a large area – optimized link design – "life extending 2 disc principle"
- Wide range of options for internal subdivision
- Closed and open UMBs
- Various strain relief systems optionally available



## Type HT with plastic cover system (stay variant RDH)



Type	hi	Bi	Maximum travel length in m	Dynamics of unsupported arrangement		Page
				Travel speed v <sub>max</sub> in m/s	Travel acceleration a <sub>max</sub> in m/s <sup>2</sup>	
HT 33	33	50 – 400	50	10	50	226
HT 46	46	50 – 400	70	8	40	226

Dimensions in mm

## Carrier construction and cover system

The cover system of the MASTER HT series combines the stability of aluminium stays with the low weight of plastic covers.



WIDTHSECTIONS



Available in **1 mm width sections**.  
Standard widths in 25 mm steps.

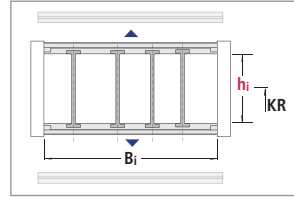
**Opening options:**

**Outside/Inside:** The covers can be opened and detached simply by a 15° rotation.

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## Type LT with plastic cover system (stay variant RDL)



Inside heights

33  
-  
80

Inside widths

50  
-  
800

Type	h <sub>i</sub>	B <sub>i</sub>	Maximum travel length in m	Dynamics of unsupported arrangement		Page
				Travel speed v <sub>max</sub> in m/s	Travel acceleration a <sub>max</sub> in m/s <sup>2</sup>	
LT 60	60	53 – 300	6.8*	6	30	226

\* only unsupported

Dimensions in mm

### Carrier construction and cover system

Available in 25 mm width sections.

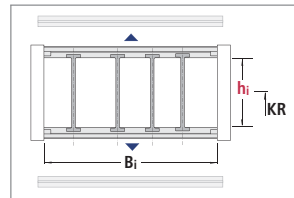
Opening options:

Outside/Inside: Unscrewable cover



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## Type LT with aluminium cover system (stay variant RML)



Type	h <sub>i</sub>	B <sub>i</sub>	Maximum travel length in m	Dynamics of unsupported arrangement*		Page
				Travel speed v <sub>max</sub> in m/s	Travel acceleration a <sub>max</sub> in m/s <sup>2</sup>	
LT 60	60	75 – 600	6.8**	6	30	226
LT 80	80	100 – 800	7.6**	5	25	226

\* possible maximum values for small carrier widths; \*\* only unsupported

Dimensions in mm

### Carrier construction and cover system

Available in 1 mm width sections.

Opening options:

Outside/Inside: Detachable clip-on covers

WIDTHSECTIONS



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# Types MASTER HT 33/46, LT 60/80

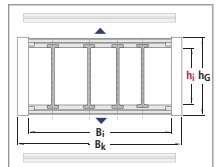
## Dimensions and intrinsic chain weight

### Inside heights



Plastic cover system (stay variant RDH)

Type	Stay variant	h <sub>i</sub>	h <sub>G</sub>	B <sub>i</sub> min*	q <sub>k</sub> min	B <sub>i</sub> max*	q <sub>k</sub> max	B <sub>k</sub>
HT 33	RDH	33	51	50	1.63	400	5.72	B <sub>i</sub> + 22
HT 46	RDH	46	64	50	2.17	400	5.73	B <sub>i</sub> + 26



### Inside widths

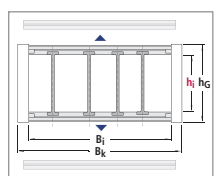


\* Standard widths in 25 mm steps      Dimensions in mm/Weights in kg/m

Plastic cover system (stay variant RDL)

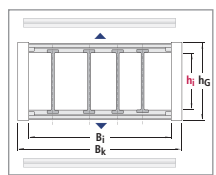
Type	Stay variant	h <sub>i</sub>	h <sub>G</sub>	B <sub>i</sub> min*	q <sub>k</sub> min	B <sub>i</sub> max	q <sub>k</sub> max	B <sub>k</sub>	Widths section
LT 60	RDL	60	88	75	3.21	300	6.07	B <sub>i</sub> + 28	25

\* B<sub>i</sub> 53 also available      Dimensions in mm/Weights in kg/m



Aluminium cover system (stay variant RML)

Type	Stay variant	h <sub>i</sub>	h <sub>G</sub>	B <sub>i</sub> min*	q <sub>k</sub> min	B <sub>i</sub> max*	q <sub>k</sub> max	B <sub>k</sub>
LT 60	RML	60	88	75	3.76	600	15.00	B <sub>i</sub> + 28
LT 80	RML	80	110	100	5.10	800	19.71	B <sub>i</sub> + 32



\* Standard widths in 25 mm steps.      Dimensions in mm/Weights in kg/m

## Bend radius and pitch

Type	Bend radii KR mm								
HT 33	100	125	150	175	200	220	250	300	–
HT 46	–	125	150	170	200	215	250	300	350
LT 60	150	200	250	300	350	400	500	–	–
LT 80	–	200	250	300	350	400	500	–	–

Pitch:  
 HT 33: t = 56 mm  
 HT 46: t = 67 mm  
 LT 60: t = 91 mm  
 LT 80: t = 111 mm

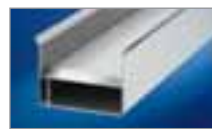
The listed values are standard bend radii. For special applications it is also possible, to set any desired intermediate radii at the production stage.

Please do get in touch with us, we would be happy to advise you.

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Guide channels  
 ▶ from page 301



Strain relief devices  
 ▶ from page 307



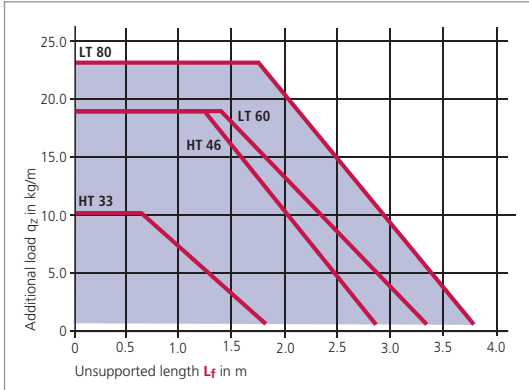
Cables for cable carrier systems  
 ▶ from page 350



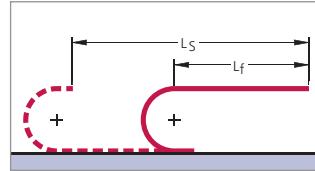
## Types MASTER HT 33/46, LT 60/80

### Load diagram

for unsupported length  $L_f$  depending on the additional load\*



### Unsupported length $L_f$



In the case of longer travel lengths, sag of the cable carriers is technically permissible depending on the application.

In a gliding arrangement, even longer travel lengths are possible (see page 301).

We are at your service to advise on these applications.

Determining the length of the cable carrier see page 45.

\* Load diagram for intrinsic chain weight  $q_k$  of 4.0 kg/m (L 60) and 4.9 kg/m (L 80).

If the chain intrinsic weight exceeds these values, the permissible additional load is reduced by the difference.

Inside heights

33  
-  
80

Inside widths

50  
-  
800

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### Example of ordering

Cable carrier					Divider system		Connection
LT 80	300	RML	300	3330	TS 0	3	FU/MU
Type	Inside width $B_i$ in mm	Stay variant	Bend radius KR in mm	Chain length $L_k$ in mm (without connection)	Divider system	Number of dividers $n_T$	Connection* Fixed point/Driver

#### Ordering divider systems:

Please state the designation of the divider system (TS 0, TS 1 ...) and the number of dividers. Possibly attach a sketch with the dimensions.

\* If the standard connector is not required, please state this on the order.

# Types MASTER HT 33/46, LT 60/80

## Divider system TS 0

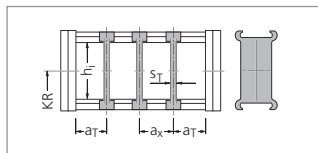
Inside heights



Inside widths



Type	h <sub>i</sub> mm	S <sub>T</sub> mm	a <sub>T</sub> min mm	a <sub>x</sub> min mm
HT 33	33	3	7	13
HT 46	46	3	7	13
LT 60	60	4	9	16
LT 80	80	4	9	16

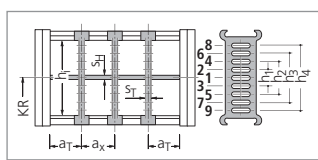


The dividers can be moved in the cross section. Dimensions in mm  
 In the standard version, the divider systems are mounted on every second chain link.

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## Divider system TS 1 with continuous height subdivision made of aluminium

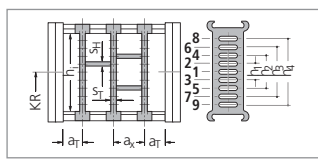
Type	h <sub>i</sub> mm	S <sub>T</sub> mm	a <sub>T</sub> min mm	a <sub>x</sub> min mm	S <sub>H</sub> mm	h <sub>1</sub> mm	h <sub>2</sub> mm	h <sub>3</sub> mm	h <sub>4</sub> mm
HT 33	33	3	7	13	4	18	—	—	—
HT 46	46	3	7	13	4	20	—	—	—
LT 60	60	4	9	16	4	15	30	45	—
LT 80	80	4	9	16	4	15	30	45	60



The dividers can be moved in the cross section. Dimensions in mm  
 In the standard version, the divider systems are mounted on every second chain link.

## Divider system TS 3 with section subdivision, partitions made of plastic

Type	h <sub>i</sub> mm	S <sub>T</sub> mm	a <sub>T</sub> min mm	a <sub>x</sub> min mm	S <sub>H</sub> mm	h <sub>1</sub> mm	h <sub>2</sub> mm	h <sub>3</sub> mm	h <sub>4</sub> mm
HT 33	33	8	6	16*	4	14	—	—	—
HT 46	46	8	6	16*	4	14	28	—	—
LT 60	60	8	6	16*	4	14	28	—	—
LT 80	80	8	6	16*	4	14	28	42	56

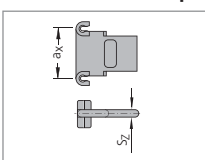


\* When using plastic partitions Dimensions in mm  
 The dividers are fixed by the partitions, the complete divider system is movable.  
 In the standard version, the divider systems are mounted on every second chain link.

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## Dimensions of the plastic partitions for TS 3



S <sub>z</sub>	a <sub>x</sub> (center-to-center dividers)									
4	16	18	23	28	32	33	38	43	48	58
	64	68	78	80	88	96	112	128	144	160
	176	192	208	—	—	—	—	—	—	—

Dimensions in mm

Aluminium partitions in 1 mm width sections are also available.  
 When using partitions with a<sub>x</sub> > 112 mm there should be an additional central support with a twin divider.  
 Twin dividers are designed for subsequent fitting in the partition system.

## Types MASTER HT 33/46, LT 60/80

### Glide shoes – the economical solution for gliding applications (HT 33/46)

#### Replaceable glide shoes made of plastic

To extend the life of cable carriers in gliding operations KABELSCHLEPP supplies detachable, exchangeable glide shoes. Replaceable glide shoes are a very economical solution. When wear occurs only the glide shoes are replaced, and not the complete cable carrier.

Glide shoes for the H Series are made of a highly wear-resistant special material.



Inside heights



Inside widths



#### Chain height with glide shoes:

HT 33:  $h_G' = h_G + 3.2 = 54.2$   
HT 46:  $h_G' = h_G + 3.2 = 67.2$

Dimensions in mm

#### Minimum bend radii when using glide shoes:

HT 33:  $KR_{min} = 100$  mm  
HT 46:  $KR_{min} = 100$  mm



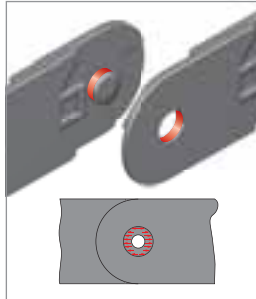
By means of a positive snap connection, the glide shoes sit firmly on the chain link.

### Minimized hinge wear owing to the "life extending 2 disc principle"

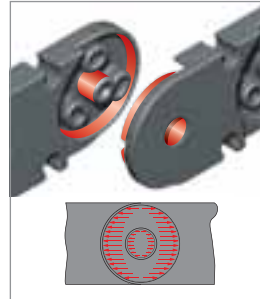
In the MASTER Series, the push and pull forces are transmitted via the optimum link design for this purpose. As a result link wear is reduced to a minimum and the life of the cable carrier is considerably lengthened.

The internal stopper and pre-tensioning dampers have a noise-muffling effect. This makes the chain particularly quiet.

Should your application require it, the pre-tensioning (in deviation from the standard pre-tensioning) can be adjusted at the time of production. We can produce a cable carrier with a pre-tension which is exactly suited to the load values of your application.



■ Force transmission with a pin-hole joint



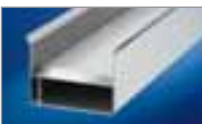
■ Force transmission with the "life extending 2 disc principle"

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With Cable Carrier Configurator

Guide channels  
➤ from page 301



Strain relief devices  
➤ from page 307



Cables for cable carrier systems  
➤ from page 350





## Types MASTER HT 33/46, LT 60/80

### UMB (Universal Mounting Brackets) made of plastic

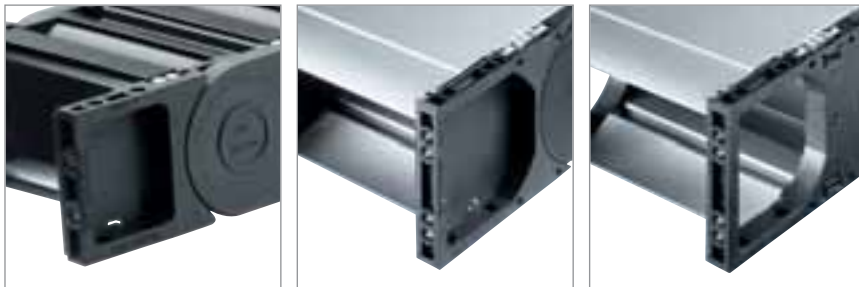
Various universal mounting brackets made of plastic provide a suitable connection for any assembly situation. Each type can be screwed from above, below or as a flange.

Inside heights

33  
|  
80

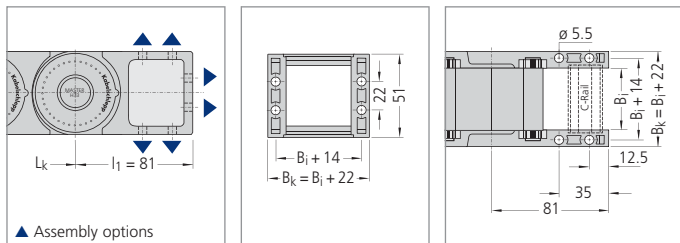
Inside widths

50  
|  
800



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### Connection dimensions Type HT 33



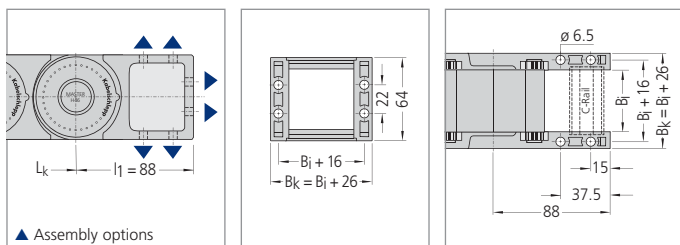
The dimensions of the fixed point and driver connections are identical.

**Optional C-rails and strain relief elements for cables can be found on the following pages.**

When ordering please specify the connection type FU/MU (see ordering key on page 343).

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### Connection dimensions Type HT 46



The dimensions of the fixed point and driver connections are identical.

**Optional C-rails and strain relief elements for cables can be found on the following pages.**

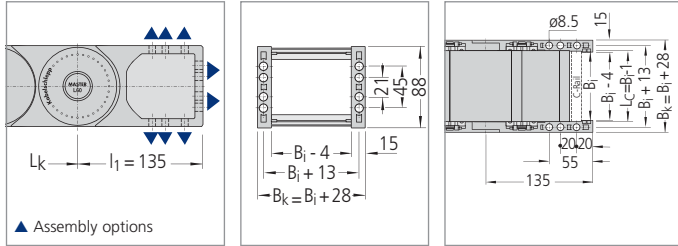
When ordering please specify the connection type FU/MU (see ordering key on page 343).

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## Types MASTER HT 33/46, LT 60/80

### Connection dimensions Type LT 60

Standard connector and short, open connector



Inside heights



Inside widths



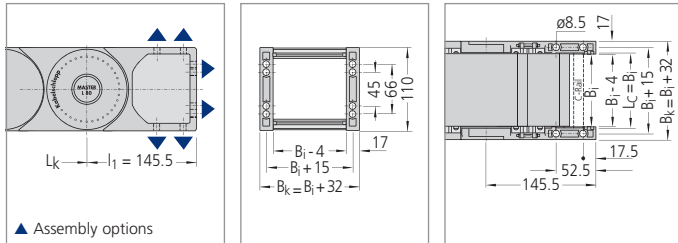
The dimensions of the fixed point and driver connections are identical.

**Optional C-rails and strain relief elements for cables can be found on the following pages.**

When ordering please specify the connection type FU/MU (see ordering key on page 343).

### Connection dimensions Type LT 80

Standard connector and short, open connector

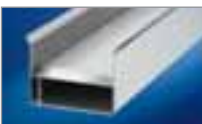


The dimensions of the fixed point and driver connections are identical.

**Optional C-rails and strain relief elements for cables can be found on the following pages.**

When ordering please specify the connection type FU/MU (see ordering key on page 343).

Guide channels  
► from page 301



Strain relief devices  
► from page 307



Cables for cable carrier systems  
► from page 350



## Types MASTER HT 33/46, LT 60/80

### Strain relief devices

#### Strain relief combs made of plastic on both sides for standard carrier widths (MASTER HT)

The cables can be fixed securely and simply using the **optional strain relief combs**.

The strain relief combs are installed between the UMBs, and do not need to be bolted on separately or mounted on a C-Rail.

Please state on the order whether strain relief combs are needed.

Inside heights



Inside widths



- Universal mounting bracket with strain relief comb



- Both-sided strain relief comb

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- Fixing in the UMB.

Type	B <sub>i</sub> mm	n <sub>z</sub>
HT 33/46	50	3
HT 33/46	70	5
HT 33/46	75	5
HT 33/46	95	7
HT 33/46	100	7
HT 33/46	115	8
HT 33/46	120	9
HT 33/46	125	9
HT 33/46	145	11
HT 33/46	150	11
HT 33/46	170	13
HT 33/46	175	13
HT 33/46	195	15
HT 33/46	200	15
HT 33/46	225*	17
HT 33/46	250*	19

n<sub>z</sub> = Number of teeth on one side of the comb

\* on request

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#### Strain relief comb made of aluminium on one side for individual carrier widths (MASTER HT)

The cables can be fixed securely and simply using the **optional strain relief combs**.

The strain relief combs are installed between the universal mounting brackets, and do not need to be bolted on separately or mounted on a C-Rail.

Please state on the order whether strain relief combs are needed.

Use our free project planning service.



- Strain relief comb made of aluminium

## Types MASTER HT 33/46, LT 60/80

### Strain relief devices

#### C-rails for LineFix bracket clamps, SZL strain reliefs and clamps

The optional C-rails are fixed by means of the universal mounting brackets and do not have to be screwed separately.

Please state in your order whether C-rails are needed.

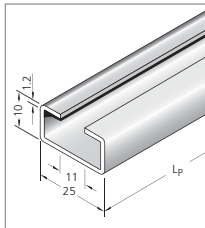
Inside heights



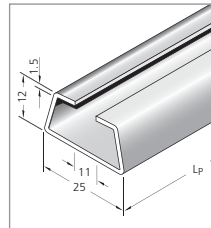
Inside widths



■ Universal mounting bracket with C-rail



■ **MASTER HT:**  
Integratable C-rail  
25 x 10 mm,  
slit width 11 mm,  
material steel,  
Item-No. 3931

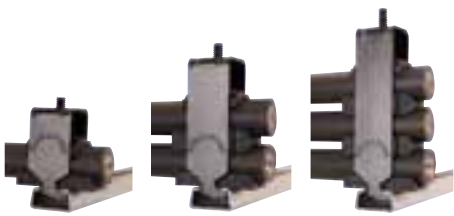


■ **MASTER LT:**  
Integratable C-rail  
25 x 12 mm,  
slit width 11 mm,  
material steel,  
Item-No. 3934

Our LineFix strain reliefs are optimally suited for the C-rails. (LineFix bracket clamps and other strain relief devices – see Accessories chapter, from page 307 onwards).



■ C-rail with LineFix strain relief



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Cable Carrier Configurator

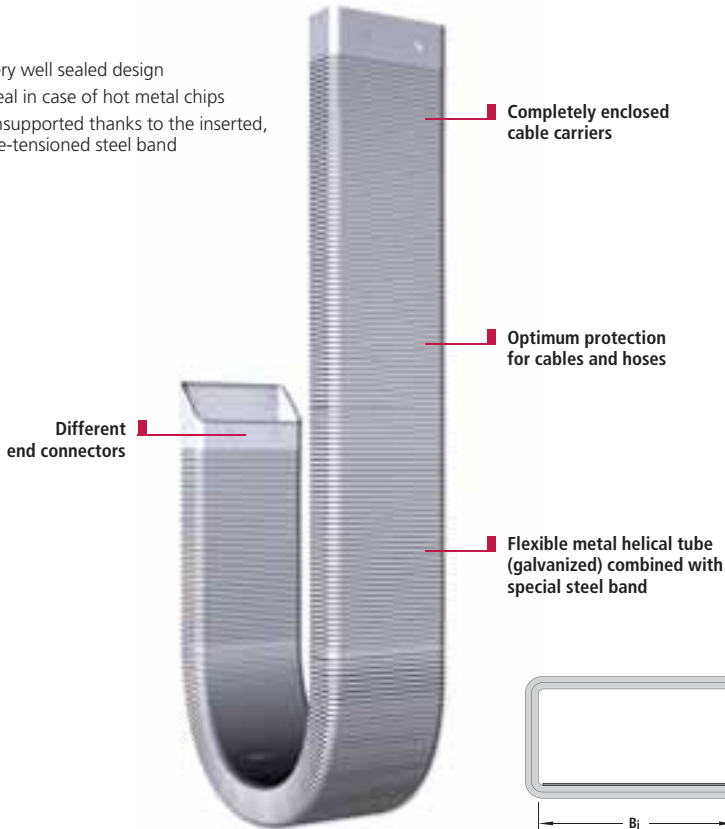
MOBIFLEX  
with the power to innovate



# MOBIFLEX

Enclosed cable carrier with flexible metal helical tube

- Very well sealed design
- Ideal in case of hot metal chips
- Unsupported thanks to the inserted, pre-tensioned steel band



Inside heights



Inside widths



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Type	h <sub>i</sub>	B <sub>k</sub>	Maximum travel length in m	Dynamics of unsupported arrangement		Page
				Travel speed v <sub>max</sub> in m/s	Travel acceleration a <sub>max</sub> in m/s <sup>2</sup>	
MF 030.1	24	26	2.0	10	20	296
MF 050.1	24	45	3.0	10	20	296
MF 050.2	44	45	3.0	10	20	296
MF 080.1	40	80	3.5	10	18	296
MF 080.2	54	80	3.5	10	18	296
MF 080.3	78	80	3.5	10	18	296
MF 110.1	53	109	4.0	6	15	296
MF 110.2	73	109	4.0	6	15	296
MF 110.3	108	109	4.0	6	15	296
MF 170.1	72	170	5.0	6	12	296
MF 170.2	102	170	5.0	6	12	296
MF 170.3	167	170	5.0	6	12	296

# Types MF 030, 050, 080, 110, 170

## Dimensions, intrinsic weight and bend radius

Inside heights



Inside widths



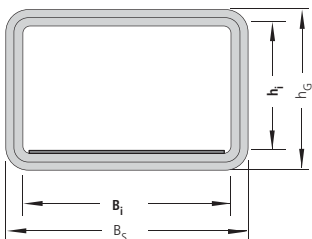
MOBIFLEX Type	B <sub>S</sub>	B <sub>I</sub>	h <sub>G</sub>	h <sub>I</sub>	Available bend radii KR			Weight G <sub>S</sub>	Shortening L <sub>VK</sub>
MF 030.1	30	26	30	24	80	-	-	1.2	45
MF 050.1	50	45	30	24	75	100	150	2.0	45
MF 050.2	50	45	50	44	110	150	200	2.5	80
MF 080.1	85	80	45	40	100	150	200	3.0	70
MF 080.2	85	80	60	54	150	200	250	3.5	95
MF 080.3	85	80	85	78	200	-	-	5.1	135
MF 110.1	115	109	60	53	150	200	250	4.8	95
MF 110.2	115	109	80	73	200	250	350	5.3	125
MF 110.3	115	109	115	108	300	-	-	6.6	180
MF 170.1	175	170	80	72	190	250	300	7.2	125
MF 170.2	175	170	110	102	250	300	400	8.2	175
MF 170.3	175	170	175	167	365	-	-	9.2	275

Stated bend radii = KR<sub>max</sub>

Dimensions in mm / Weight in kg/m

Tolerances specified by manufacturer: -20 to -30 mm

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**Hose length (with loop):**  
 $L_{ES} \approx \frac{L_S}{2} + L_B$

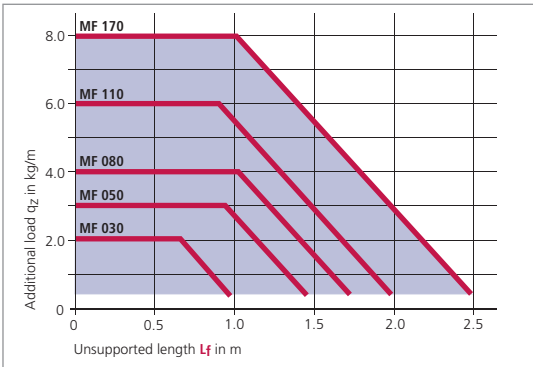
Bend length  
 $L_B = KR \cdot \pi + \text{Reserve (KR)}$

**Stretched hose length:**  
 $L_{gestr.} = L_{ES} - L_{VK}$

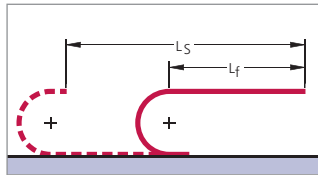
Hose shortening  
 $L_{VK} = h_G/2 \cdot \pi$

## Load diagram

for unsupported length L<sub>f</sub> depending on the additional load



## Unsupported length L<sub>f</sub>



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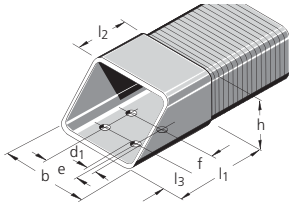
## Example of ordering

<b>Cable carrier</b>	<b>Connection</b>
MF 170.1 - 250 - 980	FST/FQF
MOBIFLEX Type	Connection Fixed point/Driver
Bend radius KR in mm	
Conduit length L <sub>S</sub> in mm (without connection)	

## Types MF 030, 050, 080, 110, 170

### Connection dimensions

#### Diagonal flange connector – SF



Type	b	h	e	f	d	l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>
MF 030.1	34	34	–	40	9	120	60	10
MF 050.1	54	34	20	40	9	120	60	10
MF 050.2	54	54	20	40	9	120	60	10
MF 080.1	90	50	50	40	9	120	60	10
MF 080.2	90	65	50	40	9	120	60	10
MF 080.3	90	90	50	40	9	120	60	10
MF 110.1	120	65	80	40	9	120	60	10
MF 110.2	120	85	80	40	9	120	60	10
MF 110.3	120	120	80	40	9	120	60	10
MF 170.1	180	85	140	40	9	120	60	10
MF 170.2	180	115	140	40	9	120	60	10
MF 170.3	180	180	140	40	9	120	60	10

Dimensions in mm

Inside heights

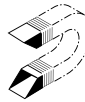


Inside widths



#### Connection variants for diagonal flange connectors SF

Connecting surface outside/outside



1

Connecting surface inside/outside



2

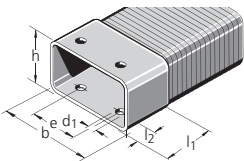
Connecting surface inside/inside



3

Please state the position of the connecting surfaces when ordering.

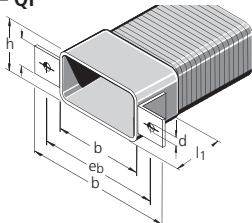
#### Standard connector bracket – ST



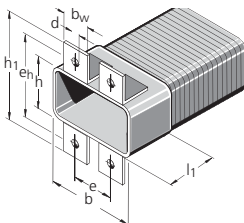
Type	b	h	e	e <sub>b</sub>	e <sub>n</sub>	d	l <sub>1</sub>	l <sub>2</sub>	b <sub>w</sub>	b <sub>1</sub>	h <sub>1</sub>
MF 030.1	34	34	–	56	56	9	60	20	20	74	74
MF 050.1	54	34	20	76	56	9	60	20	20	94	74
MF 050.2	54	54	20	76	76	9	60	20	20	94	94
MF 080.1	89	49	50	111	71	9	75	20	20	129	89
MF 080.2	89	64	50	111	86	9	75	20	20	129	104
MF 080.3	89	89	50	111	111	9	75	20	20	129	129
MF 110.1	119	64	80	141	86	9	95	20	20	159	104
MF 110.2	119	84	80	141	106	9	95	20	20	159	124
MF 110.3	119	119	80	141	141	9	95	20	20	159	159
MF 170.1	179	84	140	201	106	9	95	20	20	219	124
MF 170.2	179	114	140	201	136	9	95	20	20	219	154
MF 170.3	179	179	140	201	201	9	95	20	20	219	219

Dimensions in mm

#### Cross flange connector bracket – QF



#### High flange bracket – HF



Front flange connectors can be supplied in accordance with customer drawings.

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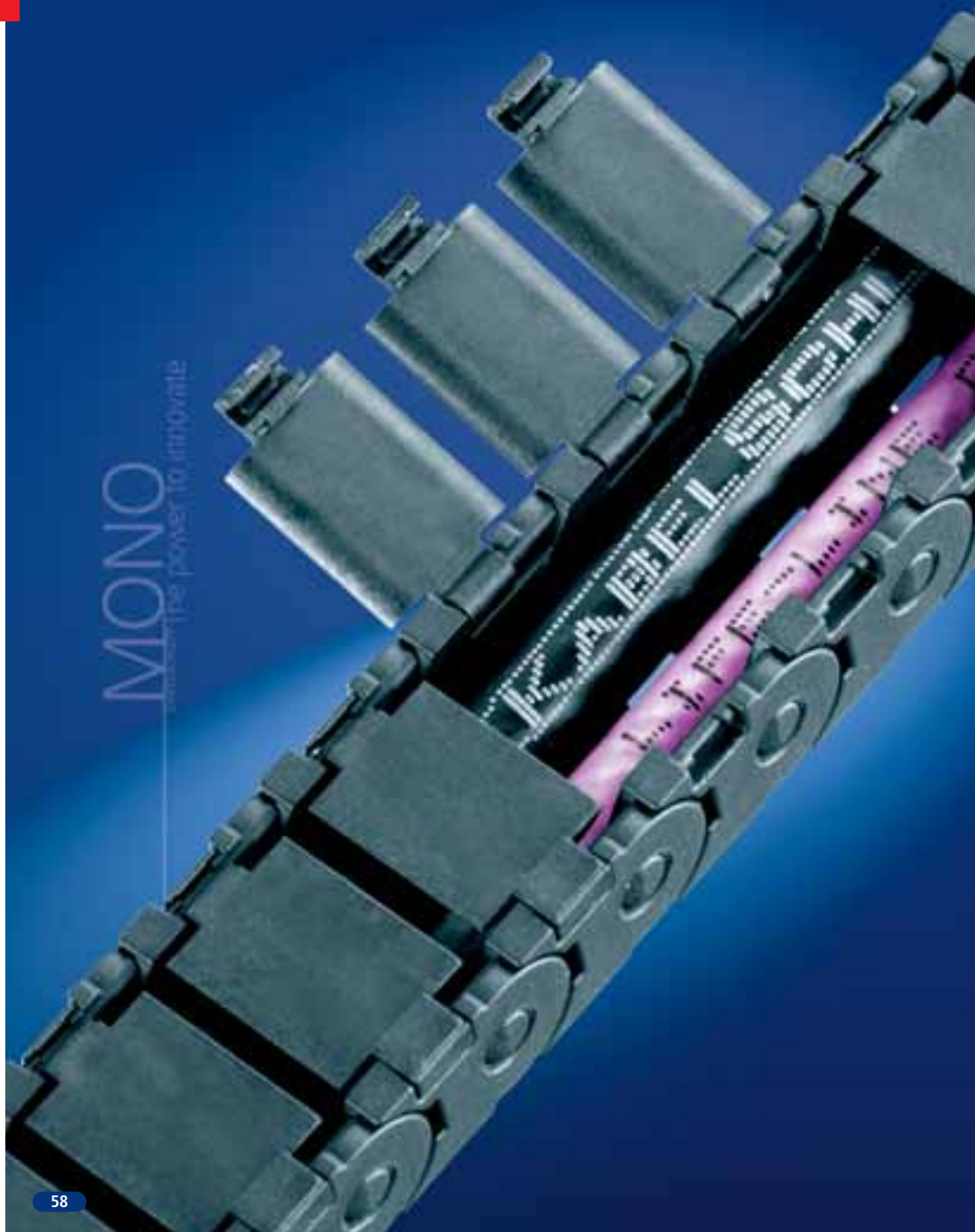
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Web-Configurator  
Cable Carrier Configurator



# MONO

the power to innovate



# MONO

Cable carriers with simple design for standard applications\*

- Cost-effective cable carrier
- Simple and quick assembly
- Almost all types available immediately ex stock all around the world
- TÜV design approved in accordance with 2PFG 1036/10.97



**KS RECOMMENDATION:**  
 Replace **MONO 0450/0625**  
 with **UNIFLEX Advanced**

- + improved design
- + more cost effective
- > from page 12

Connectors  
 with integrated strain relief



■ Chain links made of plastic

■ Inside space is gentle on the cables – no interfering edges

■ Types with single-part chain links

■ Types with openable brackets

■ Dividers and height separations for separating the cables

Inside heights



Inside widths



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 with KABELSCHLEPP  
 Cable Carrier Configurator



Small types for restricted installation conditions



Fast shortening/extending due to simple connection of the chain links



Different connection options by simply changing the connectors

Subject to change.

\* Some features can be different for certain types for design reasons. Our specialists are happy to advise you.

Overview MONO

Inside heights



Inside widths

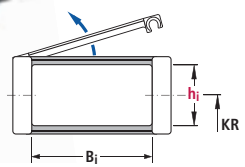


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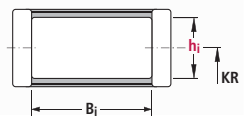
## Types 0130, 0180 with hinged, openable brackets



Type	h <sub>i</sub>	B <sub>i</sub>	Maximum travel length in m	Dynamics of unsupported arrangement		Page
				Travel speed v <sub>max</sub> in m/s	Travel acceleration a <sub>max</sub> in m/s <sup>2</sup>	
0130	10	6-40	40	10	50	62
0180	15	10-40	70	10	50	64

Dimensions in mm

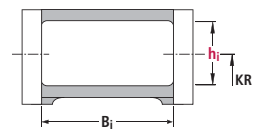
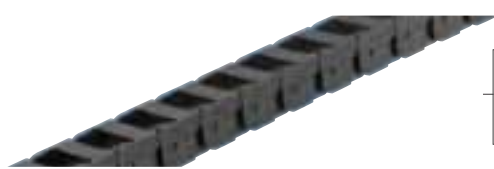
## Types 0132, 0202, 0182 with fixed brackets



Type	h <sub>i</sub>	B <sub>i</sub>	Maximum travel length in m	Dynamics of unsupported arrangement		Page
				Travel speed v <sub>max</sub> in m/s	Travel acceleration a <sub>max</sub> in m/s <sup>2</sup>	
0132	10	6-40	40	10	50	62
0182	15	10-40	70	10	50	64
0202	11	6-20	70	10	50	66

Dimensions in mm

## Type 0320 with fixed brackets



Type	h <sub>i</sub>	B <sub>i</sub>	Maximum travel length in m	Dynamics of unsupported arrangement		Page
				Travel speed v <sub>max</sub> in m/s	Travel acceleration a <sub>max</sub> in m/s <sup>2</sup>	
0320	19	13-37	80	10	50	68

Dimensions in mm

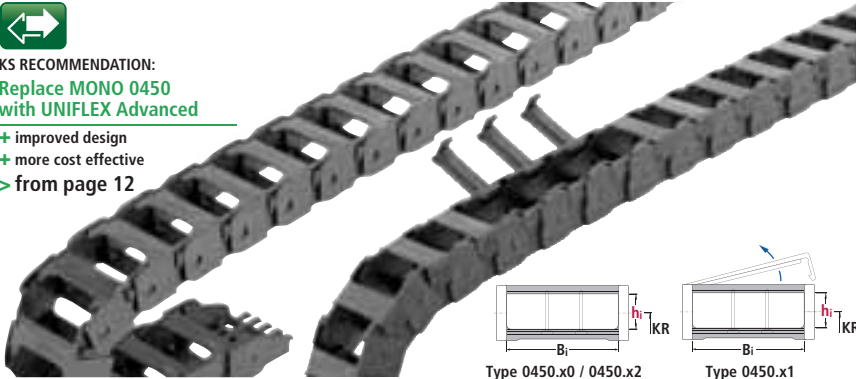
## Overview MONO

### Type 0450 with hinged, openable or fixed brackets



KS RECOMMENDATION:  
 Replace **MONO 0450**  
 with **UNIFLEX Advanced**

- + improved design
- + more cost effective
- > from page 12



Inside heights



Inside widths



Type	hi	Bi	Maximum travel length in m	Dynamics of unsupported arrangement		Page
				Travel speed $v_{max}$ in m/s	Travel acceleration $a_{max}$ in m/s <sup>2</sup>	
0450.x0	24	38-103	120	10	50	70
0450.x1	24	38-103	120	10	50	70
0450.x2	28	38-103	120	10	50	70

Dimensions in mm

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### Type 0625 with hinged, openable or fixed brackets



KS RECOMMENDATION:  
 Replace **MONO 0625**  
 with **UNIFLEX Advanced**

- + improved design
- + more cost effective
- > from page 12



Type	hi	Bi	Maximum travel length in m	Dynamics of unsupported arrangement		Page
				Travel speed $v_{max}$ in m/s	Travel acceleration $a_{max}$ in m/s <sup>2</sup>	
0625.22/40/42	34	65-108	130	8	40	74
0625.23/43	34	65-108	130	8	40	74
0625.x5	42	65-169	130	8	40	74

Dimensions in mm

Font: +49 2762 4003-0

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 UNIFLEX  
 Cable Chain Configurator

# Types 0132 and 0130

Inside height

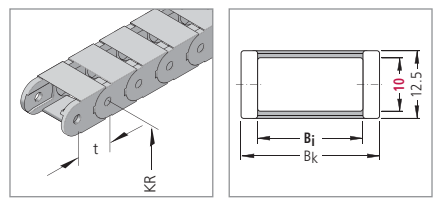


Inside widths



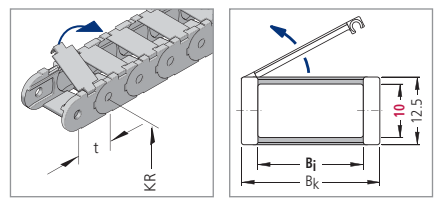
## Type 0132

Inside/Outside: Not to be opened



## Type 0130

Outside: Hinged, openable brackets



## Dimensions and intrinsic chain weight

Type	h <sub>i</sub> mm	B <sub>i</sub> mm	B <sub>k</sub> mm	Intrinsic chain weight kg/m
0132.06	10	6	12	0.13
0132.10	10	10	16	0.14
0132.15	10	15	21	0.15
0132.20	10	20	26	0.16
0132.30	10	30	36	0.18
0132.40	10	40	46	0.20

Type	h <sub>i</sub> mm	B <sub>i</sub> mm	B <sub>k</sub> mm	Intrinsic chain weight kg/m
0130.06	10	6	12	0.13
0130.10	10	10	16	0.14
0130.15	10	15	21	0.15
0130.20	10	20	26	0.16
0130.40	10	40	46	0.20

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## Bend radius and pitch

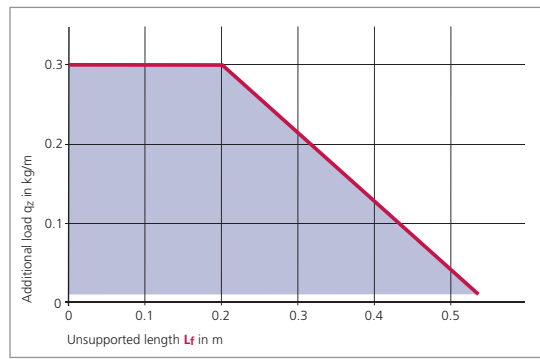
Types 0132 and 0130

Bend radii KR mm		
20	28	37

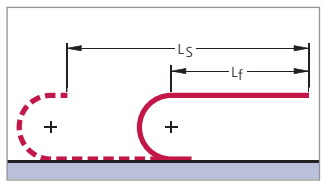
Pitch t = 13.0 mm

## Load diagram

for unsupported length L<sub>f</sub> depending on the additional load



## Unsupported length L<sub>f</sub>



In the case of longer travel lengths, sag of the cable carriers is technically permissible depending on the application.

In a gliding arrangement, even longer travel lengths are possible (see page 301).

We are at your service to advise on these applications.

## Example of ordering

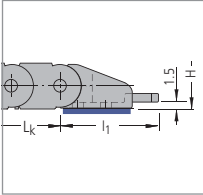
Cable carrier	0130	-	10	-	28	-	390	Connection	FA/MA
Type	Inside width B <sub>i</sub> in mm		Bend radius KR in mm		Chain length L <sub>k</sub> in mm (without connection)		Connection Fixed point/Driver		

Use our free project planning service.

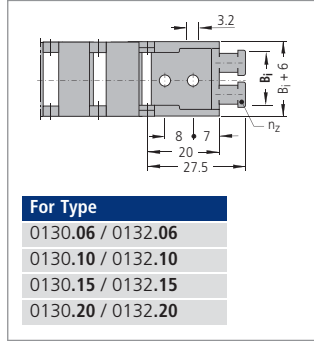
## Types 0132 and 0130

### Connection dimensions

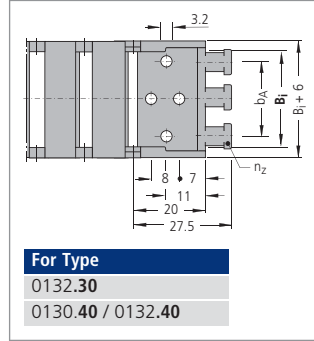
Plastic connectors with integrated strain relief



Short connectors without strain relief are also available for restricted installation conditions. Please contact us.



For Type
0130.06 / 0132.06
0130.10 / 0132.10
0130.15 / 0132.15
0130.20 / 0132.20



For Type
0132.30
0130.40 / 0132.40

Type	B <sub>i</sub> mm	B <sub>k</sub> mm	b <sub>A</sub> mm	n <sub>Z</sub>
0130.06 / 0132.06	6	12	–	1
0130.10 / 0132.10	10	16	–	1
0130.15 / 0132.15	15	21	–	2
0130.20 / 0132.20	20	26	–	2
0132.30	30	36	22	3
0130.40 / 0132.40	40	46	32	4

The dimensions of the fixed point and driver connections are identical.

Inside height



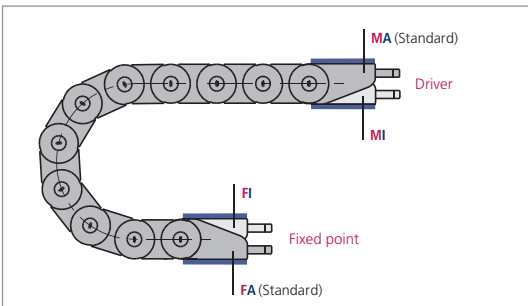
Inside widths



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Fon: +49 2762 4003-0

### Connection variants



#### Connection point

- M – Driver
- F – Fixed point

#### Connection type

- A – Threaded joint outside (standard)
- I – Threaded joint inside

In the standard version, the connectors are mounted with the threaded joint outwards (FA/MA).

When ordering please specify the desired connection type (see ordering key on page 338).

The connection type can subsequently be altered simply by varying the connectors.

# Types 0182 and 0180

Inside height

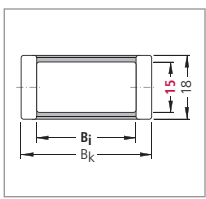
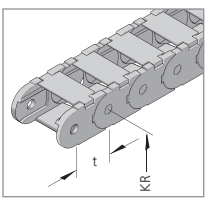


Inside widths



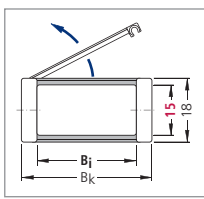
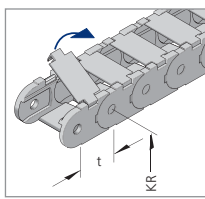
## Type 0182

Inside/Outside: Not to be opened



## Type 0180

Outside: Hinged, openable brackets



## Dimensions and intrinsic chain weight

Type	$h_i$ mm	$B_i$ mm	$B_k$ mm	Intrinsic chain weight kg/m
0182.10	15	10	18	0.23
0182.15	15	15	23	0.24
0182.20	15	20	28	0.25
0182.30	15	30	38	0.28
0182.40	15	40	48	0.30

Type	$h_i$ mm	$B_i$ mm	$B_k$ mm	Intrinsic chain weight kg/m
0180.10	15	10	18	0.23
0180.15	15	15	23	0.24
0180.20	15	20	28	0.25
0180.30	15	30	38	0.28
0180.40	15	40	48	0.30

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## Bend radius and pitch

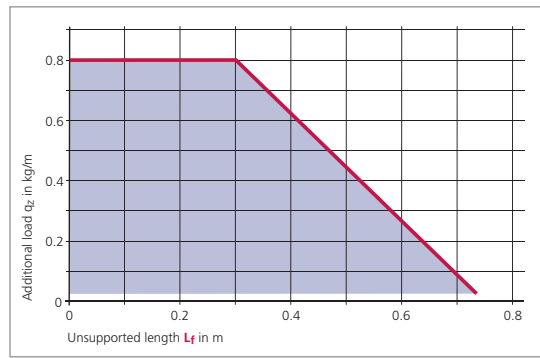
Types 0182 and 0180

Bend radii KR mm		
28	37	50

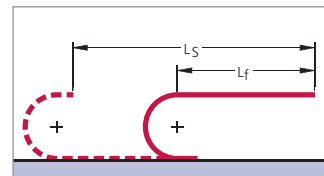
Pitch  $t = 18.0$  mm

## Load diagram

for unsupported length  $L_f$  depending on the additional load



## Unsupported length $L_f$



In the case of longer travel lengths, sag of the cable carriers is technically permissible depending on the application.

In a gliding arrangement, even longer travel lengths are possible (see page 301).

We are at your service to advise on these applications.

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Use our free project planning service.

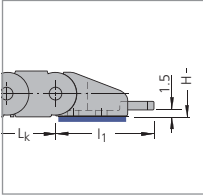
## Example of ordering

Cable carrier	0180	-	30	-	37	-	720	Connection	FA/MA
Type	Inside width $B_i$ in mm		Bend radius KR in mm		Chain length $L_k$ in mm (without connection)		Connection Fixed point/Driver		

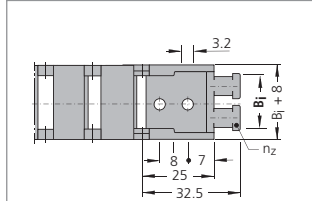
## Types 0182 and 0180

### Connection dimensions

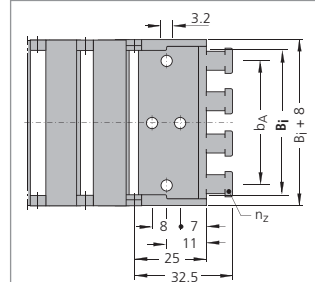
Plastic connectors with integrated strain relief



Short connectors without strain relief are also available for restricted installation conditions. Please contact us.



**For Type**  
0180.10 / 0182.10  
0180.15 / 0182.15  
0180.20 / 0182.20



**For Type**  
0180.30 / 0182.30  
0180.40 / 0182.40

Type	$B_i$ mm	$B_k$ mm	$b_A$ mm	$n_Z$
0180.10 / 0182.10	10	18	–	1
0180.15 / 0182.15	15	23	–	2
0180.20 / 0182.20	20	28	–	2
0180.30 / 0182.30	30	38	22	3
0180.40 / 0182.40	40	48	32	4

The dimensions of the fixed point and driver connections are identical.

Inside height



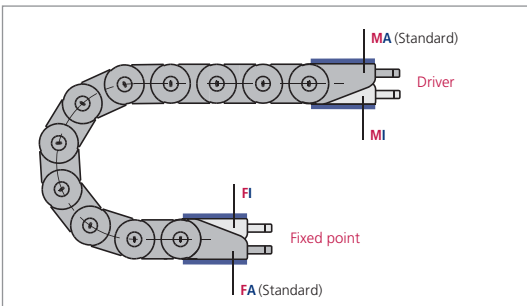
Inside widths



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Font: +49 2762 4003-0

### Connection variants



#### Connection point

- M** – Driver
- F** – Fixed point

#### Connection type

- A** – Threaded joint outside (standard)
- I** – Threaded joint inside

In the standard version, the connectors are mounted with the threaded joint outwards (**FA/MA**).

When ordering please specify the desired connection type (see ordering key on page 338).

The connection type can subsequently be altered simply by varying the connectors.



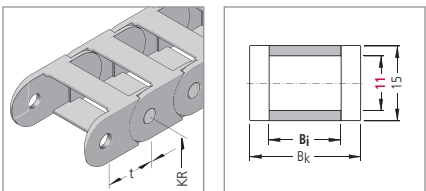
# Type 0202

Inside/Outside: Not to be opened

Inside height



Inside widths



## Dimensions and intrinsic chain weight

Type	h <sub>i</sub> mm	B <sub>i</sub> mm	B <sub>k</sub> mm	Intrinsic chain weight kg/m
0202.06	11	6	13	0.14
0202.10	11	10	17	0.15
0202.15	11	15	22	0.16
0202.20	11	20	27	0.17

## Bend radius and pitch

Bend radii KR mm				Pitch t = 20.0 mm
18	28	38	50	

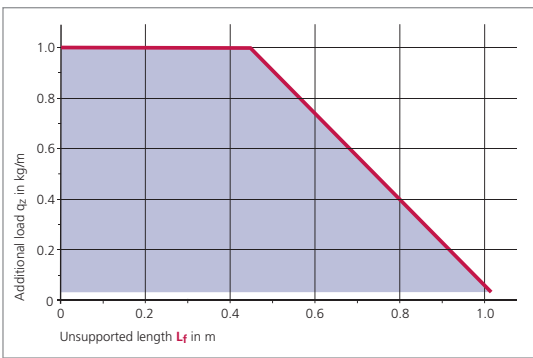
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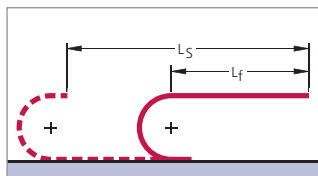
Use our free project planning service.

## Load diagram

for unsupported length  $L_f$  depending on the additional load



## Unsupported length $L_f$



In the case of longer travel lengths, sag of the cable carriers is technically permissible depending on the application.

In a gliding arrangement, even longer travel lengths are possible (see page 301).

We are at your service to advise on these applications.

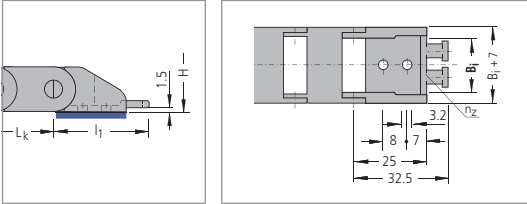
## Example of ordering

Cable carrier	0202	-	10	-	28	-	460	Connection	FA/MA
Type	Inside width B <sub>i</sub> in mm		Bend radius KR in mm		Chain length L <sub>k</sub> in mm (without connection)		Connection Fixed point/Driver		

## Type 0202

### Connection dimensions

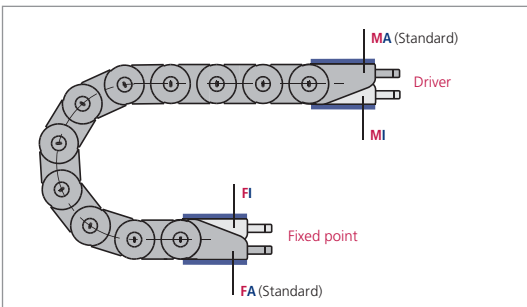
Plastic connectors  
with integrated strain relief



Type	B <sub>i</sub> mm	B <sub>k</sub> mm	n <sub>Z</sub>
0202.06	6	13	1
0202.10	10	17	1
0202.15	15	22	2
0202.20	20	27	2

The dimensions of the fixed point and driver connections are identical.

### Connection variants



#### Connection point

- M** – Driver
- F** – Fixed point

#### Connection type

- A** – Threaded joint outside (standard)
- I** – Threaded joint inside

In the standard version, the connectors are mounted with the threaded joint outwards (**FA/MA**).

When ordering please specify the desired connection type (see ordering key on page 338).

The connection type can subsequently be altered simply by varying the connectors.

Inside height



Inside widths



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OnlineEngineer.de  
with CableSLEPP  
Cable Center Configurator

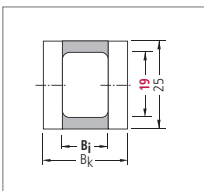
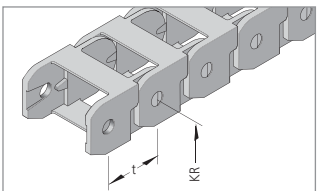
# Type 0320

Inside/Outside: Not to be opened

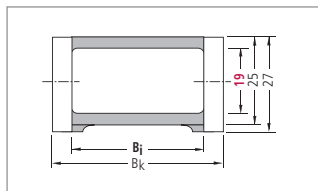
Inside height



Inside widths



Type 0320.20 / .30



Type 0320 / .42 / .52 / .62 – with glide runners

## Dimensions and intrinsic chain weight

Type 0320.20 / .30

Type	h <sub>i</sub> mm	B <sub>i</sub> mm	B <sub>k</sub> mm	Intrinsic chain weight kg/m
0320.20	19	13	24	0.32
0320.30	19	19	30	0.35

Type 0320 / .42 / .52 / .62

Type	h <sub>i</sub> mm	B <sub>i</sub> mm	B <sub>k</sub> mm	Intrinsic chain weight kg/m
0320.42	19	24	35	0.39
0320.52	19	29	40	0.44
0320.62	19	37	48	0.47

## Bend radius and pitch

Type 0320.20 / .30

Bend radii KR mm		
37	47	77

Pitch t = 32.0 mm

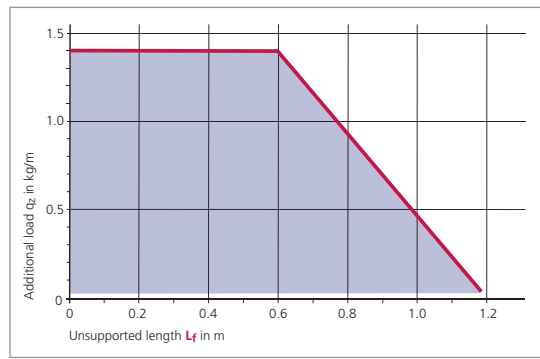
Type 0320 / .42 / .52 / .62

Bend radii KR mm			
37	47	77	100

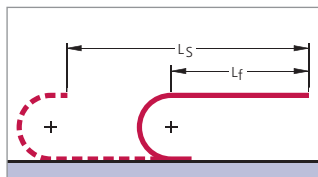
Pitch t = 32.0 mm

## Load diagram

for unsupported length L<sub>f</sub> depending on the additional load



## Unsupported length L<sub>f</sub>



In the case of longer travel lengths, sag of the cable carriers is technically permissible depending on the application.

In a gliding arrangement, even longer travel lengths are possible (see page 301).

We are at your service to advise on these applications.

## Example of ordering

Cable carrier	0320.42	-	77	-	800	Connection	FA/MA
Chain type	Bend radius KR in mm	Chain length L <sub>k</sub> in mm (without connection)	Connection Fixed point/Driver				

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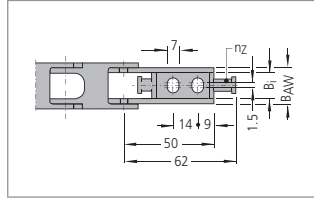
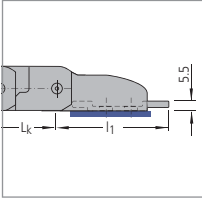
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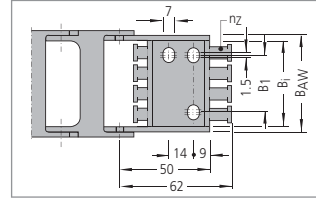
## Type 0320

### Connection dimensions

Plastic connectors  
with integrated strain relief



Type 0320.20



Type 0320.42 / .52 / .62

Inside height

19

Inside widths

13

37

Connection dimensions at fixed point connection:

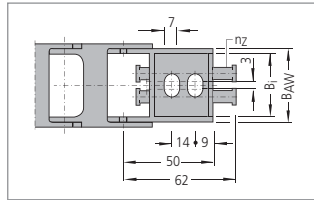
$$B_{AW} = B_i + 5.5$$

$$B_1 = B_i - 12.5$$

Connection dimensions at driver connection:

$$B_{AW} = B_i + 11$$

$$B_1 = B_i - 10.5$$

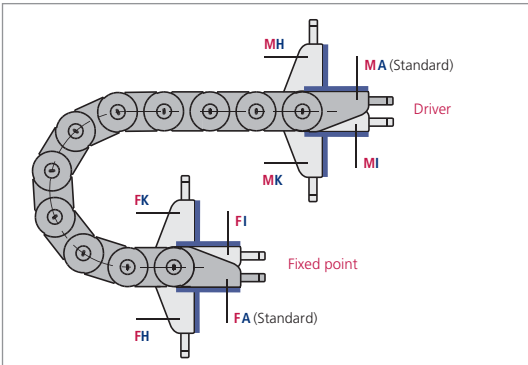


Type 0320.30

Type	B <sub>i</sub> mm	B <sub>k</sub> mm	n <sub>z</sub>
0320.20	13	24	1
0320.30	19	30	2
0320.42	24	35	2
0320.52	29	40	3
0320.62	37	48	4

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### Connection variants



#### Connection point

**M** – Driver

**F** – Fixed point

#### Connection type

**A** – Threaded joint outside (standard)

**I** – Threaded joint inside

**H** – Threaded joint, rotated through 90° to the outside

**K** – Threaded joint, rotated through 90° to the inside

In the standard version, the connectors are mounted with the threaded joint outwards (**FA/MA**).

When ordering please specify the desired connection type (see ordering key on page 338).

The connection type can subsequently be altered simply by varying the connectors.

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OnlineEngineerde  
with Concepts  
Cable Chain Configurator

## Type 0450

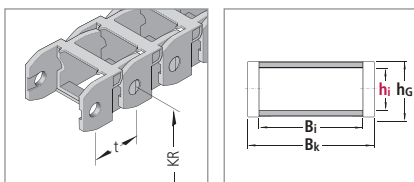
Inside heights

24  
|  
28

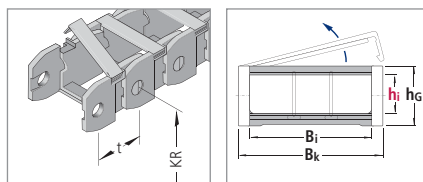
Inside widths

38  
|  
103

Inside/Outside: Not to be opened



Outside: Hinged, openable and detachable brackets



KS RECOMMENDATION:

Replace **MONO 0450**  
with **UNIFLEX Advanced**

- + improved design
- + more cost effective

> from page 12

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### Dimensions and intrinsic chain weight

Inside/Outside:

Not to be opened –  $h_i = 24$  mm

Type	$h_i$ mm	$h_G$ mm	$B_i$ mm	$B_k$ mm	Intrinsic chain weight kg/m
0450.20	24	34	38	54	0.65
0450.40	24	34	58	74	0.78
0450.60	24	34	78	94	0.92
0450.85	24	34	103	119	1.20

Outside:

Hinged, openable and detachable brackets –  $h_i = 24$  mm

Type	$h_i$ mm	$h_G$ mm	$B_i$ mm	$B_k$ mm	Intrinsic chain weight kg/m
0450.21	24	40	38	54	0.75
0450.41	24	40	58	74	0.85
0450.61	24	40	78	94	0.92
0450.81	24	40	103	119	1.20

Inside/Outside:

Not to be opened –  $h_i = 28$  mm

Type	$h_i$ mm	$h_G$ mm	$B_i$ mm	$B_k$ mm	Intrinsic chain weight kg/m
0450.22	28	40	38	54	0.75
0450.32	28	40	48	64	0.80
0450.42	28	40	58	74	0.85
0450.62	28	40	78	94	0.95
0450.82	28	40	103	119	1.10

### Bend radius and pitch

Inside/Outside:

Not to be opened –  $h_i = 24$  mm

Bend radii KR mm				
52	94	125	150	200

Pitch  $t = 45.0$  mm

Inside/Outside:

Not to be opened –  $h_i = 28$  mm

Bend radii KR mm				
52	60	75	94	110
125	150	200		

Pitch  $t = 45.0$  mm

Outside:

Hinged, openable and detachable brackets –  $h_i = 24$  mm

Bend radii KR mm				
52	94	125	150	200

For Type 0450.41, the KR 110 is also available.

Pitch  $t = 45.0$  mm

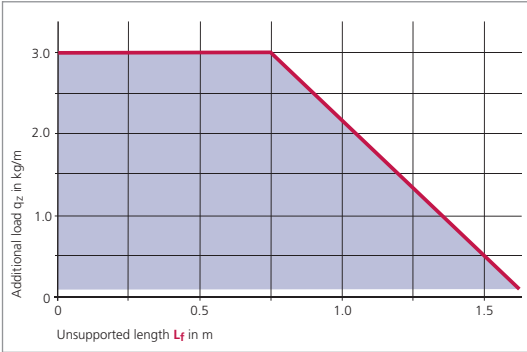
Fon: +49 2762 4003-0

Use our free project planning service.

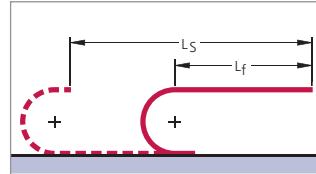
## Type 0450

### Load diagram

for unsupported length  $L_f$  depending on the additional load



### Unsupported length $L_f$



In the case of longer travel lengths, sag of the cable carriers is technically permissible depending on the application.

In a gliding arrangement, even longer travel lengths are possible (see page 301).

We are at your service to advise on these applications.

### Inside heights



### Inside widths



KS RECOMMENDATION:

Replace **MONO 0450**  
with **UNIFLEX Advanced**

- + improved design
- + more cost effective
- > from page 12

### Example of ordering

Cable carrier			Divider system		Connection
<input type="text" value="0450.61"/>	- <input type="text" value="94"/>	- <input type="text" value="900"/>	<input type="text" value="TS 0"/>	/ <input type="text" value="2"/>	<input type="text" value="FA/MA"/>
Chain type	Bend radius KR in mm	Chain length $L_k$ in mm (without connection)	Divider system	Number of dividers $n_T$	Connection Fixed point/ Driver

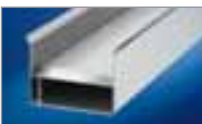
#### Ordering divider systems:

Please state the designation of the divider system (TS 0, TS 1 ...) and the number of dividers. Possibly attach a sketch with the dimensions.

Font:

+49 2762 4003-0

Guide channels  
➤ from page 301



Strain relief devices  
➤ from page 307



Cables for cable carrier systems  
➤ from page 350

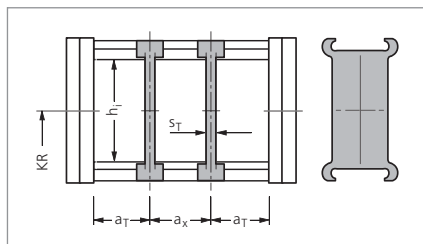


## Type 0450

### Divider system TS 0

For types not to be opened –  $h_i = 24 \text{ mm}$

Type	$S_T$ mm	$a_T$ min mm	$a_x$ min mm
0450	2.5	13.5	9



In the standard version, the divider systems are mounted on every second chain link.

Inside  
heights

24 – 28
---------------

Inside  
widths

38 – 103
----------------

For types not to be opened –  $h_i = 28 \text{ mm}$

Type	$S_T$ mm	$a_T$ min mm	$a_x$ min mm
0450	4.2	4.0	7.8

For types with hinged, openable and detachable brackets –  $h_i = 24 \text{ mm}$

Type	$S_T$ mm	$a_T$ min mm	$a_x$ min mm
0450	2.5	4.0	8.0

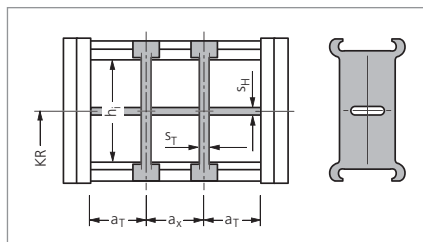
The dividers can be moved in the cross section.

### Divider system TS 1 with continuous height subdivision made of plastic

For types not to be opened –  $h_i = 28 \text{ mm}$

Type	$S_T$ mm	$S_H$ mm	$a_T$ min mm	$a_x$ min mm
0450	4.2	4	4.0	7.8

The dividers can be moved in the cross section.



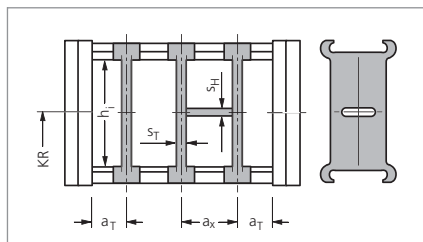
In the standard version, the divider systems are mounted on every second chain link.

### Divider system TS 2 with grid subdivision made of plastic (4 mm grid)

For types not to be opened –  $h_i = 28 \text{ mm}$

Type	$S_T$ mm	$S_H$ mm	$a_T$ min mm	$a_x$ min mm
0450	4.2	4	4.0	7.8

The dividers are fixed by the height separations, the complete divider system is movable.

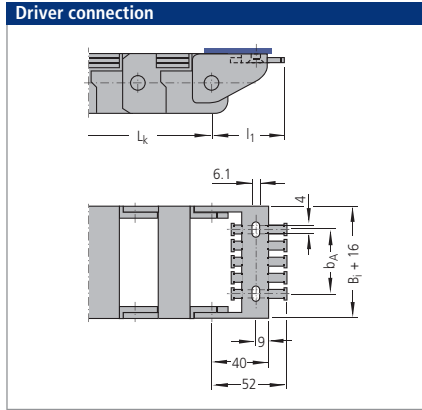
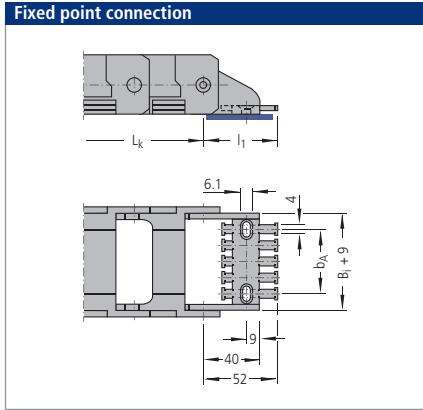


In the standard version, the divider systems are mounted on every second chain link.

## Type 0450

### Connection dimensions

Plastic connectors  
with integrated strain relief



Inside heights



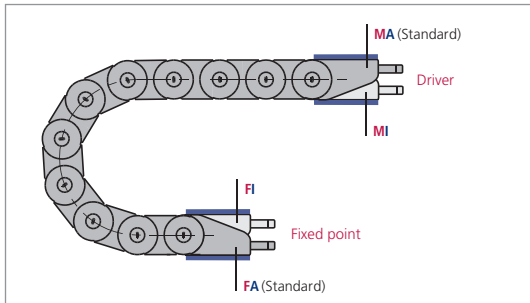
Inside widths



Type	$B_i$ mm	$B_k$ mm	$b_A$ mm	$n_Z$
0450.20/.21/.22	38	54	24	3
0450.40/.41/.42	58	74	44	5
0450.60/.61/.62	78	94	64	7
0450.81/.82/.85	103	119	89	9

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### Connection variants



#### Connection point

- M** – Driver
- F** – Fixed point

#### Connection type

- A** – Threaded joint outside (standard)
- I** – Threaded joint inside

In the standard version, the connectors are mounted with the threaded joint outwards (**FA/MA**).

When ordering please specify the desired connection type (see ordering key on page 338).

The connection type can subsequently be altered simply by varying the connectors.



## Type 0625

Inside heights

34  
-  
42

Inside widths

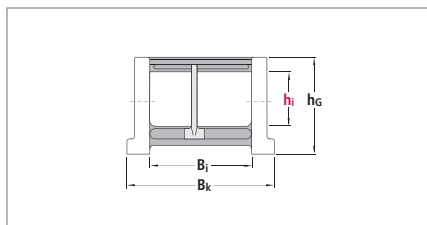
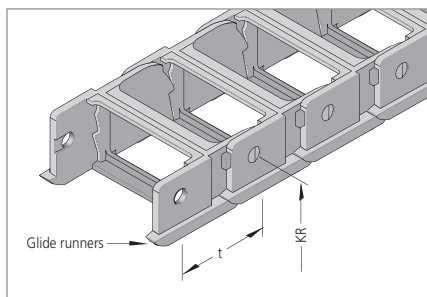
65  
-  
169

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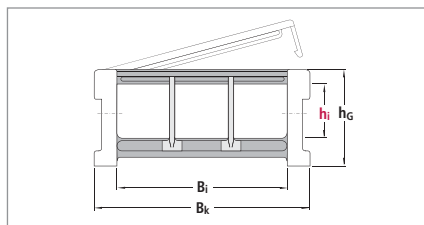
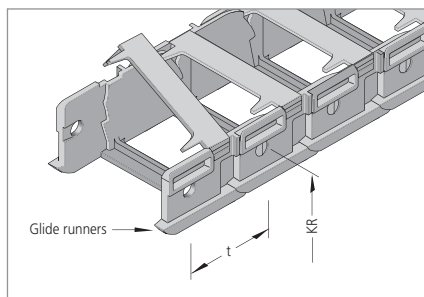
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Use our free project planning service.

Inside/Outside: Not to be opened



Outside: Hinged, openable and detachable brackets



KS RECOMMENDATION:

Replace **MONO 0625**  
with **UNIFLEX Advanced**

- + improved design
- + more cost effective

> from page 12

### Dimensions and intrinsic chain weight

Inside/Outside: Not to be opened

Type	$h_i$ mm	$h_G$ mm	$B_i$ mm	$B_k$ mm	Intrinsic chain weight kg/m
0625.22	34	62	65	93	1.55
0625.40	34	56	108	126	1.40
0625.42	34	62	108	136	1.70

Injection moulded glide runners not for type 0625.40

Outside: Hinged, openable and detachable brackets

Type	$h_i$ mm	$h_G$ mm	$B_i$ mm	$B_k$ mm	Intrinsic chain weight kg/m
0625.23	34	62	65	93	1.55
0625.43	34	62	108	136	1.70
0625.25	42	62	65	93	1.74
0625.45	42	62	108	136	2.06
0625.55	42	62	125	153	2.07
0625.65	42	62	150	178	2.15
0625.75	42	62	169	197	2.37

### Bend radius and pitch

Inside/Outside: Not to be opened

Bend radii KR mm				
75*	90	125	200	300

\* Not for type 0625.22

Pitch  $t = 62.5$  mm

Outside: Hinged, openable and detachable brackets

Bend radii KR mm				
90	125	150	200	300

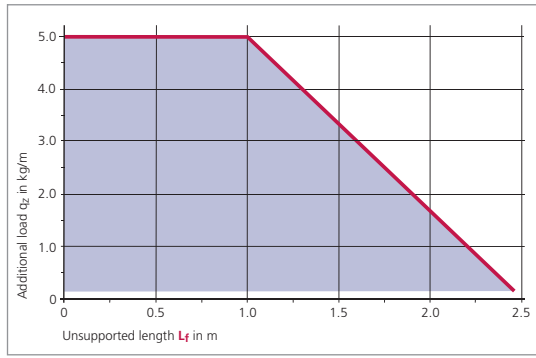
For type 0625.43, KR 75 mm is also available

Pitch  $t = 62.5$  mm

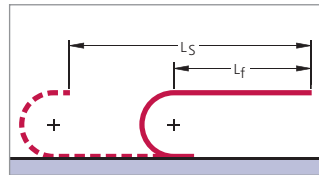
## Type 0625

### Load diagram

for unsupported length  $L_f$  depending on the additional load



### Unsupported length $L_f$



In the case of longer travel lengths, sag of the cable carriers is technically permissible depending on the application.

In a gliding arrangement, even longer travel lengths are possible (see page 301).

We are at your service to advise on these applications.

### Inside heights



### Inside widths



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### KS RECOMMENDATION:

Replace **MONO 0625** with **UNIFLEX Advanced**

- + improved design
- + more cost effective
- > from page 12

### Example of ordering

Cable carrier			Divider system		Connection	
<b>0625.65</b>	-	<b>125</b>	-	<b>1250</b>	<b>TS 0</b> / <b>2</b>	<b>FA/MA</b>
Chain type	Bend radius KR in mm	Chain length $L_k$ in mm (without connection)	Divider system	Number of dividers $n_T$	Connection Fixed point/Driver	

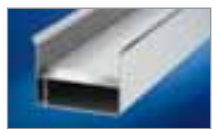
### Ordering divider systems:

Please state the designation of the divider system (TS 0, TS 1 ...) and the number of dividers. Possibly attach a sketch with the dimensions.

Guide channels  
➤ from page 301

Strain relief devices  
➤ from page 307

Cables for cable carrier systems  
➤ from page 350



Subject to change.

## Type 0625

### Divider system TS 0

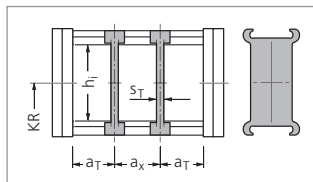
Inside heights

34  
—  
42

Inside widths

65  
—  
169

Type	$h_i$ mm	$S_T$ mm	$a_T$ min mm	$a_x$ min mm
0625.22	34	3.5	6.0	12
0625.40				
0625.42				
0625.23	34	3.5	10.0	12
0625.43				
0625.25	42	4.0	11.0	11
0625.45				
0625.55				
0625.65				
0625.75				



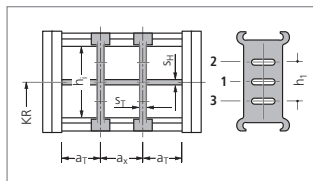
In the standard version, the divider systems are mounted on every second chain link.

The dividers can be moved in the cross section.

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### Divider system TS 1 with continuous height subdivision made of aluminium

Type	$h_i$ mm	$S_T$ mm	$a_T$ min mm	$a_x$ min mm	$S_H$ mm	$h_1$ mm
0625.25	42	4	11	11	2	15
0625.45						
0625.55						
0625.65						
0625.75						



The dividers can be moved in the cross section.

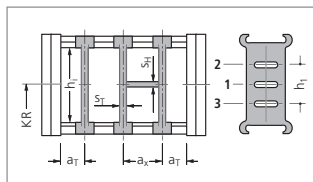
In the standard version, the divider systems are mounted on every second chain link.

Height separation in Position 1 – 3 possible.

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### Divider system TS 2 with grid subdivision made of aluminium (1 mm grid)

Type	$h_i$ mm	$S_T$ mm	$a_T$ min mm	$a_x$ min mm	$S_H$ mm	$h_1$ mm
0625.25	42	6	12	20	4	15
0625.45						
0625.55						
0625.65						
0625.75						



The dividers are fixed by the height separations, the complete divider system is movable.

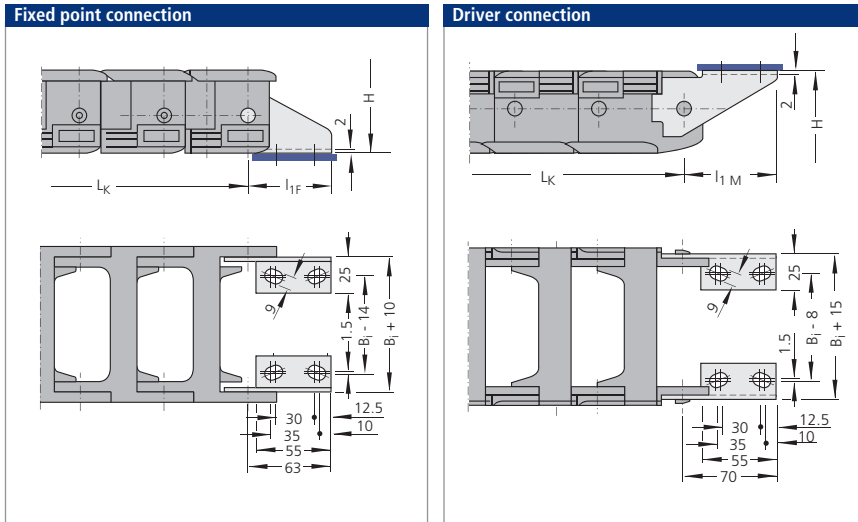
In the standard version, the divider systems are mounted on every second chain link.

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## Type 0625

### Connection dimensions

Standard end connector made of steel



Inside heights



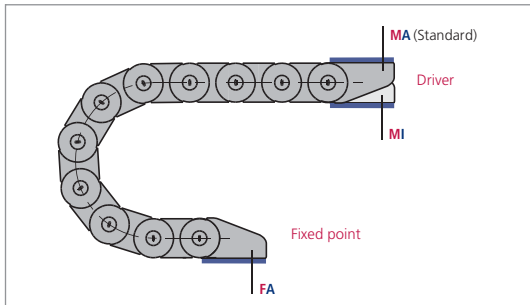
Inside widths



Connecting surface on the outside (not illustrated) possible on request.

Connectors with integrated strain relief are available. Please do get in touch with us.

### Connection variants



#### Connection point

- M** – Driver
- F** – Fixed point

#### Connection type

- A** – Threaded joint outside (standard)
- I** – Threaded joint inside

In the standard version, the connectors are mounted with the threaded joint outwards (**FA/MA**).

When ordering please specify the desired connection type (see ordering key on page 338).

The connection type can subsequently be altered simply by varying the connectors.

Subject to change.

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Cable Chain Configurator

# M Series

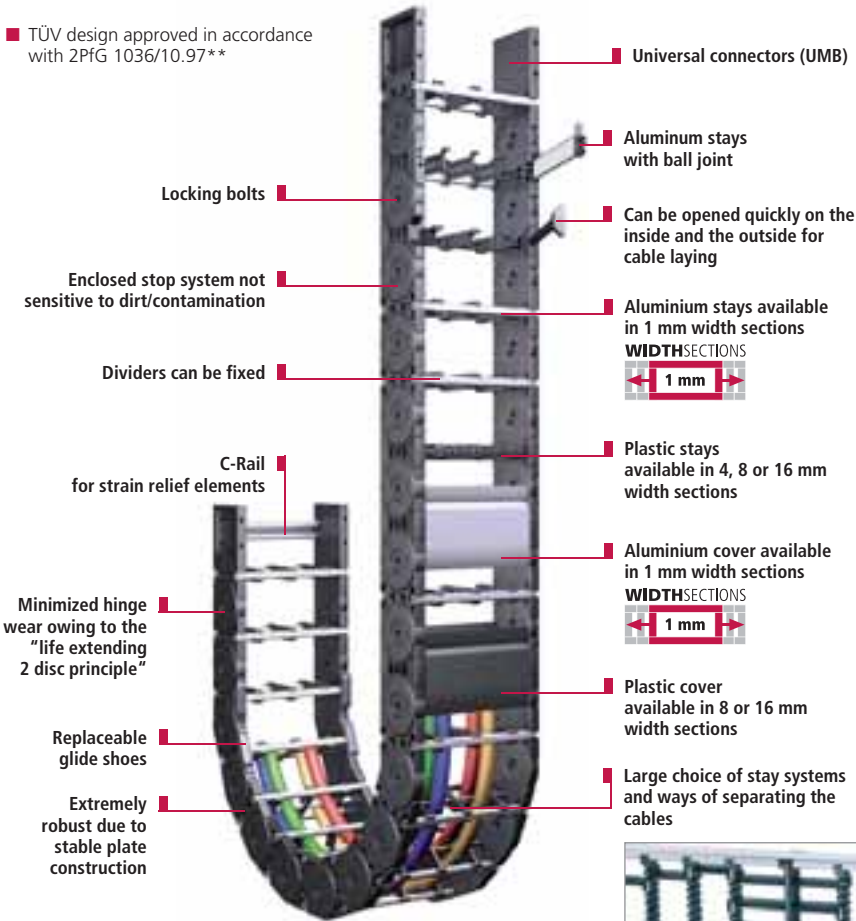
The power to innovate



# M Series

Multivariable cable carrier with extensive accessories and stay variants\*

■ TÜV design approved in accordance with 2PFG 1036/10.97\*\*



Inside heights



Inside widths



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Minimized hinge wear owing to the "life extending 2 disc principle"



Solid plate construction, enclosed impact system



Easy-to-fit with locking bolts



Replaceable glide shoes for long service life for gliding applications

Subject to change.

\* Some features can be different for certain types for design reasons. Our specialists are happy to advise you.  
\*\* not MC 1300

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Cable Carrier Configurator

## Overview M Series

## Type MC with detachable aluminium stays

Inside heights

19  
-  
87

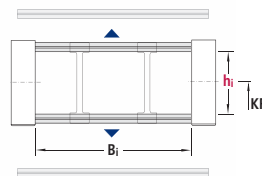
Inside widths

24  
-  
800

WIDTH SECTIONS

1 mm

- Available in 1 mm width sections



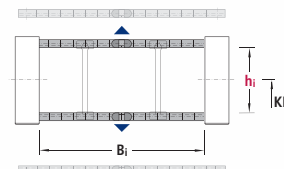
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Type	h <sub>i</sub>	B <sub>i</sub>	Maximum travel length in m	Dynamics of unsupported arrangement		Page
				Travel speed v <sub>max</sub> in m/s	Travel acceleration a <sub>max</sub> in m/s <sup>2</sup>	
MC 0320	19	25-280	80	10	50	165
MC 0650	38	75-500	220	8	40	165
MC 0950	58	100-600	260	6	30	165
MC 1250	72	100-800	320	5	25	165
MC 1300	87	100-800	350	5	25	165

Dimensions in mm

## Type ME with unscrewable plastic stays

- Available in 4, 8, 16 mm width sections



Type	h <sub>i</sub>	B <sub>i</sub>	Maximum travel length in m	Dynamics of unsupported arrangement		Page
				Travel speed v <sub>max</sub> in m/s	Travel acceleration a <sub>max</sub> in m/s <sup>2</sup>	
ME 0320	19	25-149	80	10	50	172
ME 0650	42	50-266	220	8	40	172
ME 0950	58	45-557	260	6	30	172
ME 1250	72	71-551	320	5	25	172

Dimensions in mm

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## Overview M Series

### Type MK with openable plastic stays

- Available in 8 or 16 mm width sections



Inside heights



Inside widths



Type	$h_i$	$B_i$	Maximum travel length in m	Dynamics of unsupported arrangement		Page
				Travel speed $v_{max}$ in m/s	Travel acceleration $a_{max}$ in $m/s^2$	
MK 0475	28	24-280	120	10	50	172
MK 0650	42	50-258	220	8	40	172
MK 0950	58	45-557	260	6	30	172
MK 1250	72	71-551	320	5	25	172

Dimensions in mm

## TUBE SERIES – covered cable carriers

### Type MT with plastic or aluminium cover system

- Available types: MT 0475, 0650, 0950, 1250 and 1300



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## Type MC

with aluminium stays

- Available in 1 mm width sections

WIDTH SECTIONS



Inside heights



Inside widths



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Fon:

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164

### Stay variants

#### Frame stay RS

Standard design – MC 0650 and 0950

For lightweight to medium loads.

**Opening options:**

**Outside/Inside:** the cable carrier can be opened quickly and easily simply by rotating the stays through 90°.



#### Frame stay RV

Reinforced design – MC 0950 and 1250

For medium to heavy loads and for large chain widths.

**Opening options:**

**Outside/Inside:** the cable carrier can be opened quickly and easily simply by rotating the stays through 90°.



#### Frame stay RM

Solid design – MC 0950, 1250 and 1300

Bolted, maximum stability, maximum chain widths possible.



#### Frame stay RMF

Solid design with optional fixing strip – Standard for MC 1300

**Opening options:**

**Outside/Inside:** Stays easily screwed on. Stays can be removed quickly on both sides for laying cables.



#### Frame stay RMS

Solid design with ball joint – MC 1300

**Opening options:**

**Outside/Inside:** Stays with ball joint can be opened quickly and easily on both sides.



### Stay arrangement

MC 0320 – Stays mounted on every chain link.

MC 0650, 0950, 1250 and 1300 –

Standard: on every 2nd chain link

Stays can be fitted on every chain link, please specify when placing your order.

**Opening options MC 0320**

Opening option 02: Detachable stays on the outside (standard)

Opening option 01: Detachable stays on the inside.

If you require opening variant 01, please state this when placing your order.

#### Additional stay variants:



**Stay variant LG made of aluminium:** Optimum cable guidance in the neutral bending line



**Stay variant RMA:** For very large cable diameters, such as e.g. with air hoses

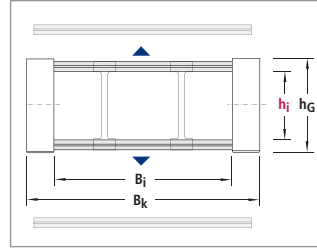


**Stay variant RMR:** Gentle cable laying by means of rollers. Ideal when using hydraulic hoses with "soft" sheaths

## Types MC 0320, 0650, 0950, 1250, 1300

### Dimensions and intrinsic chain weight

Type	Stay variant	h <sub>i</sub>	h <sub>G</sub>	B <sub>i</sub> min	q <sub>k</sub> min	B <sub>i</sub> max	q <sub>k</sub> max	B <sub>k</sub>
MC 0320	RS	19	27.5	25	0.42	280	1.65	B <sub>i</sub> + 11
MC 0650	RS	38	57	75	2.00	400	3.80	B <sub>i</sub> + 34
MC 0950	RS	58	80	100	3.20	400	4.70	B <sub>i</sub> + 39
MC 0950	RV	58	80	100	3.50	500	5.90	B <sub>i</sub> + 39
MC 0950	RM	54	80	100	3.40	600	6.60	B <sub>i</sub> + 39
MC 1250	RV	72	96	100	4.40	600	6.30	B <sub>i</sub> + 45
MC 1250	RM	69	96	100	4.50	800	8.40	B <sub>i</sub> + 45
MC 1300	RMF	87	120	100	6.10	800	9.20	B <sub>i</sub> + 50
MC 1300	RM	87	120	100	6.10	800	9.20	B <sub>i</sub> + 50
MC 1300	RMS	87	120	100	6.10	800	9.20	B <sub>i</sub> + 50



Dimensions in mm/Weights in kg/m

Inside heights



Inside widths



### Dimensions and intrinsic chain weight

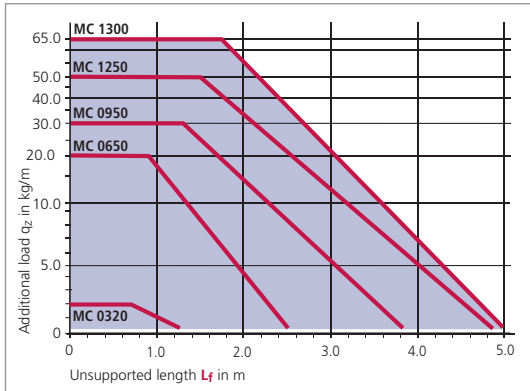
Type	Bend radii KR mm								
MC 0320	37	47	77	100	200	-	-	-	-
MC 0650	75	95	115	145	175	220	260	275	300
MC 0950	140	170	200	260	290	320	380	-	-
MC 1250	180	220	260	300	340	380	500	-	-
MC 1300	150	195	240	280	320	360	400	500	-

Pitch:

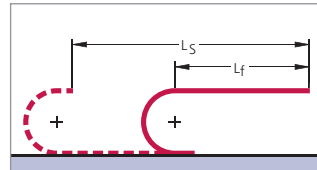
- MC 0320: t = 32 mm
- MC 0650: t = 65 mm
- MC 0950: t = 95 mm
- MC 1250: t = 125 mm
- MC 1300: t = 130 mm

### Load diagram

for unsupported length L<sub>f</sub> depending on the additional load



Unsupported length L<sub>f</sub>



In the case of longer travel lengths, sag of the cable carriers is technically permissible depending on the application.

In a gliding arrangement, even longer travel lengths are possible (see page 301).

We are at your service to advise on these applications.

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### Example of ordering

Cable carrier				Divider system		Connection	
MC 1300	600	RMF	360	2600	TS 0	7	FU/MU
Type	Inside width B <sub>i</sub> in mm	Stay variant	Bend radius KR in mm	Chain length L <sub>k</sub> in mm (without connection)	Divider system	Number of dividers n <sub>T</sub>	Connection Fixed point/Driver

#### Ordering divider systems:

Please state the designation of the divider system (TS 0, TS 1 ...) and the number of dividers. Possibly attach a sketch with the dimensions.

# Types MC 0320, 0650, 0950, 1250, 1300

## Divider system TS 0

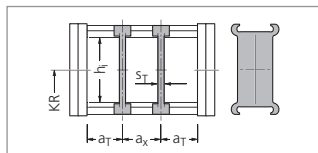
Inside heights



Inside widths



Type	Stay variant	h <sub>i</sub> mm	S <sub>T</sub> mm	a <sub>T</sub> min mm	a <sub>x</sub> min mm
MC 0320	RS	19	2	3	6
MC 0650	RS	38	3	4.5	13
MC 0950	RS	58	4	4.5	14
MC 0950	RV	58	4	4.5	14
MC 0950	RM	54	4	7	14
MC 1250	RV	72	6	8	16
MC 1250	RM	69	5	10	20
MC 1300	RMF/RM	87	5	7.5	15
MC 1300	RMS	87	5	15.5	15

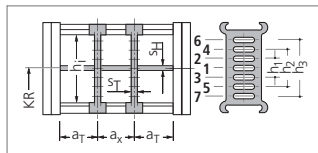


In the standard version, the divider systems are mounted on every second chain link.

The dividers can be moved in the cross section. Dimensions in mm  
Fixed installation version for MC 1300 – see page 167

## Divider system TS 1 with continuous height subdivision made of aluminium

Type	Stay variant	h <sub>i</sub> mm	S <sub>T</sub> mm	a <sub>T</sub> min mm	a <sub>x</sub> min mm	S <sub>H</sub> mm	h <sub>1</sub> mm	h <sub>2</sub> mm	h <sub>3</sub> mm
MC 0320	RS	19	2	3	6	2	10	–	–
MC 0650	RS	38	3	4.5	13	4	15	–	–
MC 0950	RS	58	4	4.5	14	4	30	–	–
MC 0950	RV	58	4	4.5	14	4	15	30	–
MC 1250	RV	72	6	8	16	4	15	30	45
MC 1300	RMF/RM	87	5	7.5	15	4	24	48	–
MC 1300	RMS	87	5	15.5	15	4	24	48	–



In the standard version, the divider systems are mounted on every second chain link.

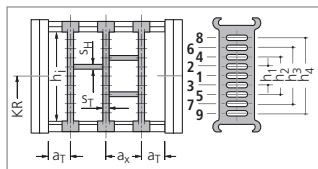
The dividers can be moved in the cross section. Dimensions in mm  
Fixed installation version for MC 1300 – see page 167

## Divider system TS 3

MC 0650, 0950, 1250 and 1300 with section subdivision, partitions made of plastic.

For these types, divider system TS 2 with grid subdivision made of aluminium (1 mm grid) is also available.

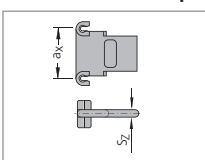
Type	Stay variant	h <sub>i</sub> mm	S <sub>T</sub> mm	a <sub>T</sub> min mm	a <sub>x</sub> min mm	S <sub>H</sub> mm	h <sub>1</sub> mm	h <sub>2</sub> mm	h <sub>3</sub> mm	h <sub>4</sub> mm
MC 0650	RS	38	8	4	16*	4	14	28	–	–
MC 0950	RV	58	8	4	16*	4	14	28	42	–
MC 1250	RV	72	8	4	16*	4	14	28	42	56
MC 1300	RMF/RM	87	8	7.5	16*	4	14	28	42	56
MC 1300	RMS	87	8	15.5	16*	4	14	28	42	56



In the standard version, the divider systems are mounted on every second chain link.

The dividers are fixed by the partitions, the complete divider system is movable. Dimensions in mm  
Fixed installation version for MC 1300 – see page 167  
\* When using plastic partitions

### Dimensions of the plastic partitions for TS 3



S <sub>z</sub>	a <sub>x</sub> (Mittensabstand Trennstufe)									
	4	16	18	23	28	32	33	38	43	48
	64	68	78	80	88	96	112	128	144	160
	176	192	208	–	–	–	–	–	–	–

Dimensions in mm

When using partitions with a<sub>x</sub> > 112 mm there should be an additional central support with a twin divider.  
Thickness of the twin dividers: MC 0650 S<sub>T</sub> = 3 mm, MC 0950, 1250, 1300 S<sub>T</sub> = 4 mm  
Twin dividers are designed for subsequent fitting in the partition system.

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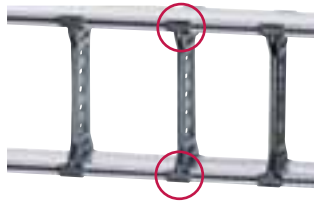
## Types MC 0320, 0650, 0950, 1250, 1300

### Fixing the dividers in 5 mm steps – Type MC 1300

In the standard version, dividers or the complete divider system (dividers with height separation) can be moved in the cross section.

Fixing profiles can be used to fix the dividers or complete divider systems. Also best suited for applications where the carrier is rotated through 90° with extreme transverse accelerations (fixable dividers for stay variant RMF/RMS).

If the fixed installation version is required, please state this when placing your order.



■ Secure seating of the dividers due to fixing on both sides.



■ The fixing profiles are simply pushed into the stays (RMF).

Inside heights



Inside widths



### Gliding elements – the economical solution for gliding applications

#### Replaceable glide shoes made of plastic\*

To extend the life of cable carriers in gliding operations KABELSCHLEPP supplies detachable, exchangeable glide shoes.

Replaceable glide shoes are a very economical solution. When wear occurs only the glide shoes are replaced, and not the complete cable carrier. For travel speeds > 2.5 m/s and large additional loads, a highly wear-resistant special material is used.

For types MC 0950 and 1250 **OFFROAD glide shoes** with 80 % greater wear volumes are also available. We recommend their use in extreme environmental conditions (with particularly abrasive materials such as e. g. sand, dust, corundum).



\* not for MC 0320

#### Chain height with glide shoes:

MC 0650:	$h_G' = h_G + 3.2 = 60.2$
MC 0950:	$h_G' = h_G + 3.5 = 83.5$
MC 1250:	$h_G' = h_G + 3.5 = 99.5$
MC 1300:	$h_G' = h_G + 7.0 = 127.0$

Dimensions in mm

#### Minimum bend radii when using glide shoes:

MC 0650:	$KR_{min} = 95$ mm
MC 0950:	$KR_{min} = 140$ mm
MC 1250:	$KR_{min} = 180$ mm
MC 1300:	$KR_{min} = 195$ mm

! By means of a positive snap connection, the glide shoes sit firmly on the chain link.

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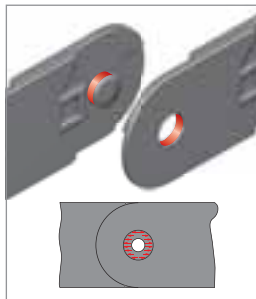
Font:

### Minimized hinge wear owing to the “life extending 2 disc principle”

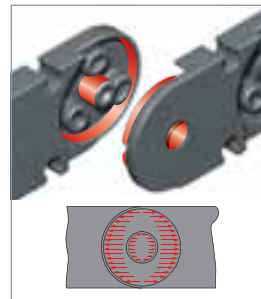
In the M Series\*, the push and pull forces are transmitted via the optimum link design for this purpose.

As a result link wear is reduced to a minimum and the life of the cable carrier is considerably lengthened.

\* not for type 0320



■ Force transmission with a pin-hole joint



■ Force transmission with the “life extending 2 disc principle”

# Types MC 0320, 0650, 0950, 1250, 1300

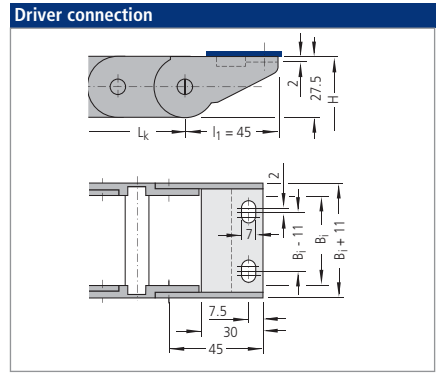
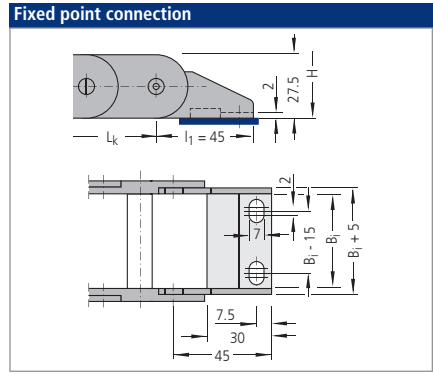
## Connectors made of plastic/aluminium – Type MC 0320

Standard connectors without strain relief.  
Connectors with strain relief available on request.

Inside heights

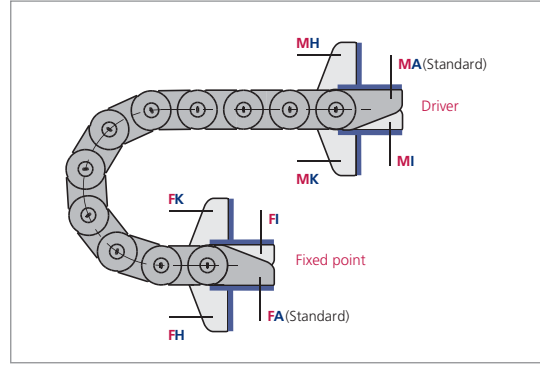


Inside widths



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## Connection variants – Type MC 0320



### Connection point

- M** – Driver
- F** – Fixed point

### Connection type

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

In the standard version, the connectors are mounted with the threaded joint outwards (**FA/MA**).

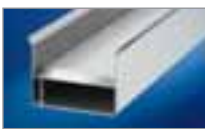
When ordering please specify the desired connection type (see ordering key on page 343).

The connection type can subsequently be altered simply by varying the connectors.

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Guide channels  
➤ from page 301



Strain relief devices  
➤ from page 307

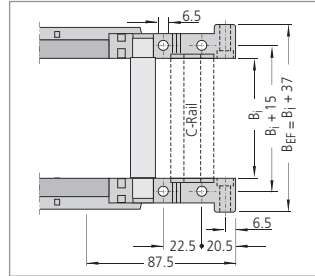
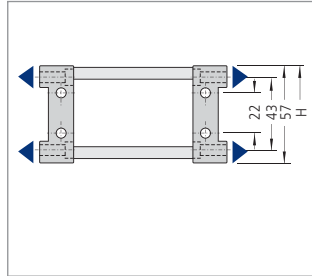
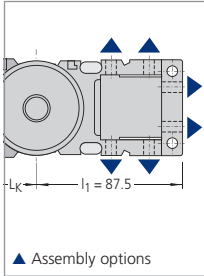


Cables for cable carrier systems  
➤ from page 350



## Types MC 0320, 0650, 0950, 1250, 1300

### UMB (Universal Mounting Brackets) made of aluminium – Type MC 0650



Inside heights

19  
|  
87

Inside widths

25  
|  
800

The dimensions of the fixed point and driver connections are identical.  
End connectors made of steel plate available on request.

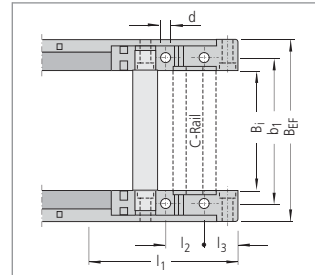
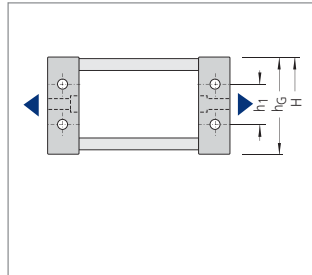
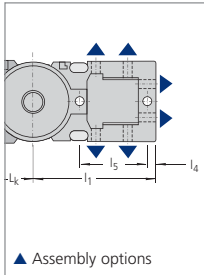
**Optional C-rails and strain relief elements for cables can be found on the following pages.**

When ordering please specify the connection type FU/MU (see ordering key on page 343).



### UMB (Universal Mounting Brackets) made of aluminium – Types MC 0950 and 1250

### UMB (Universal Mounting Brackets) made of plastic – Type MC 1300



The dimensions of the fixed point and driver connections are identical.  
End connectors made of steel plate available on request.

**Optional C-rails and strain relief elements for cables can be found on the following pages.**

When ordering please specify the connection type FU/MU (see ordering key on page 343).

Type	B <sub>EF</sub>	b <sub>1</sub>	d	l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	l <sub>4</sub>	l <sub>5</sub>	h <sub>1</sub>	h <sub>G</sub>
MC 0950	B <sub>i</sub> + 44	B <sub>i</sub> + 24.5	8.5	136	35	24.5	8.5	80	45	80
MC 1250	B <sub>i</sub> + 51	B <sub>i</sub> + 28	11	168	35	31	10.5	94.5	45	96
MC 1300	B <sub>i</sub> + 50	B <sub>i</sub> + 29	11	158	35	20	–	–	66	120

B<sub>EF</sub> = Width of the cable carrier over connector

Dimensions in mm



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## Types MC 0320, 0650, 0950, 1250, 1300

### Strain relief devices

#### Both-sided strain relief combs made of plastic (MC 0650)

The cables can be fixed securely and simply using the **optional strain relief combs**.

The strain relief combs are installed between the UMBs, and do not need to be bolted on separately or mounted on a C-Rail.

**Please state on the order whether strain relief combs are needed.**

Inside heights



Inside widths



■ Universal mounting bracket with strain relief comb



■ Both-sided strain relief comb

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■ Fixing in the UMB.

Type	B <sub>i</sub> mm	n <sub>z</sub>
MC 0650	75	5
MC 0650	95	7
MC 0650	100	7
MC 0650	115	8
MC 0650	120	9
MC 0650	125	9
MC 0650	145	11
MC 0650	150	11
MC 0650	170	13
MC 0650	175	13
MC 0650	195	15
MC 0650	200	15
MC 0650	225*	17
MC 0650	250*	19

n<sub>z</sub> = Number of teeth on one side of the comb

\* on request

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## Types MC 0320, 0650, 0950, 1250, 1300

### Strain relief devices

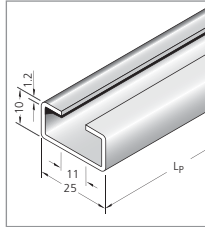
#### C-rails for LineFix bracket clamps, SZL strain reliefs and clamps

The optional C-rails are fixed by means of the universal mounting brackets and do not have to be screwed separately.

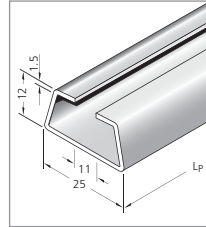
Please state in your order whether C-rails are needed.



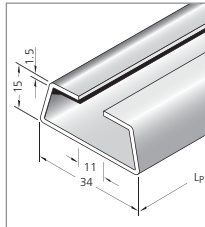
■ Universal mounting bracket with C-rail



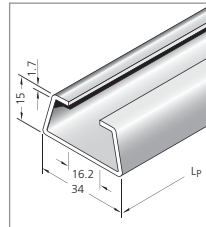
■ **MC 0650:**  
Integratable C-rail  
25 x 10 mm,  
slit width 11 mm,  
material steel,  
Item-No. 3931



■ **MC 1300:**  
Integratable C-rail  
25 x 12 mm,  
slit width 11 mm,  
material steel,  
Item-No. 3934



■ **MC 0950, 1250 and 1300:**  
Integratable C-rail  
34 x 15 mm,  
slit width 11 mm,  
material steel,  
Item-No. 3935



■ **MC 0950, 1250 and 1300:**  
Integratable C-rail  
34 x 15 mm,  
slit width 16 – 17 mm,  
material aluminium,  
Item-No. 3926,  
material steel,  
Item-No. 3932

Inside heights



Inside widths



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Our LineFix strain reliefs are optimally suited for the C-rails. (LineFix bracket clamps and other strain relief devices – see Accessories chapter, from page 307 onwards).



■ C-rail with LineFix strain relief





Inside  
heights19  
—  
72Inside  
widths24  
—  
557

## Type ME/MK

with plastic stays

- ME 0320  
available in 4 mm width sections
- MK 0475, ME/MK 0650  
available in 8 mm width sections
- ME/MK 0950/1250  
available in 16 mm  
width sections



## Types ME 0320, 0650, 0950 and 1250

(Stay variant RE, unscrewable stays)

### Opening options

Outside/Inside: simply by turning

### Stay arrangement

**ME 0320**

Stays mounted on every chain link.

**ME 0650, 0950 and 1250**

Standard: on every 2nd chain link

Stays can be fitted on every chain link,  
please specify when placing your order.



## Types MK 0475, 0650, 0950 and 1250

(Stay variant RD, opening stays)

### Opening options

**MK 0475**

Opening variant 02 (Standard):

Outside: simply by levering open  
(right or left)

Inside: simply by turning

Opening variant 01:

Outside: simply by levering open  
(right or left) If you require opening  
variant 01, please state when placing  
your order.

**MK 0650, 0950 and 1250**

Outside: simply by levering open  
(right or left)

Inside: simply by turning



### Stay arrangement

**MK 0475**

Stays mounted on every chain link.

**MK 0650, 0950 and 1250**

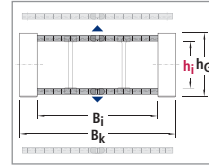
Standard: on every 2nd chain link

Stays can be fitted on every chain link,  
please specify when placing your order.

## Types ME 0320, MK 0475, ME/MK 0650, 0950, 1250

### Dimensions and intrinsic chain weight

Type	Stay variant	h <sub>i</sub>	h <sub>G</sub>	B <sub>i</sub> min	q <sub>k</sub> min	B <sub>i</sub> max	q <sub>k</sub> max	B <sub>k</sub>	Width sections
ME 0320	RE	19	27.5	25	0.46	149	0.85	B <sub>i</sub> + 11	4
MK 0475	RD	28	39	24	0.79	280	3.03	B <sub>i</sub> + 17	8
ME 0650	RE	42	57	50	2.00	266	2.84	B <sub>i</sub> + 34	8
MK 0650	RD	42	57	50	2.00	258	2.81	B <sub>i</sub> + 34	8
ME/MK 0950	RE/RD	58	80	45	3.00	557	6.20	B <sub>i</sub> + 39	16
ME/MK 1250	RE/RD	72	96	71	4.30	551	5.80	B <sub>i</sub> + 45	16



Dimensions in mm/Weights in kg/m

Inside heights



Inside widths



### Bend radius and pitch

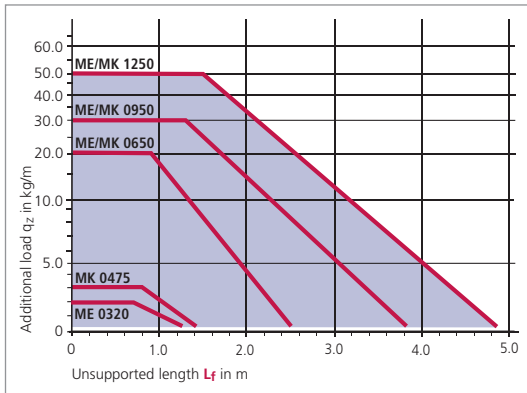
Type	Bend radii KR mm									
ME 0320	37	47	77	100	200	-	-	-	-	-
MK 0475	55	75	100	130	160	200	250	300	-	-
ME/MK 0650	75	95	115	145	175	220	260	275	300	350
ME/MK 0950	140	170	200	260	290	320	380	-	-	-
ME/MK 1250	180	220	260	300	340	380	500	-	-	-

Pitch:

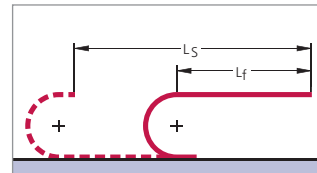
- ME 0320: t = 32 mm
- MK 0475: t = 47.5 mm
- ME/MK 0650: t = 65 mm
- ME/MK 0950: t = 95 mm
- ME/MK 1250: t = 125 mm

### Load diagram

for unsupported length L<sub>f</sub> depending on the additional load



### Unsupported length L<sub>f</sub>



In the case of longer travel lengths, sag of the cable carriers is technically permissible depending on the application.

In a gliding arrangement, even longer travel lengths are possible (see page 301).

We are at your service to advise on these applications.

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### Example of ordering

Cable carrier				Divider system		Connection	
ME 1250	407	RE	340	2875	TS 0 / 5	FU/MU	
Type	Inside width B <sub>i</sub> in mm	Stay variant	Bend radius KR in mm	Chain length L <sub>k</sub> in mm (without connection)	Divider system	Number of dividers n <sub>T</sub>	Connection Fixed point/Driver

### Ordering divider systems:

Please state the designation of the divider system (TS 0, TS 1 ...) and the number of dividers. Possibly attach a sketch with the dimensions.

## Types ME 0320, MK 0475, ME/MK 0650, 0950, 1250

### Fixing the dividers

In the standard version, dividers or the complete stay system (dividers with heightseparation) can be moved in the cross section.  
(Mounting version A)

However, it is often also possible to fix dividers or complete divider systems (dividers with height separation) by turning the stays.  
(Mounting version B).

If the fixed mounting version is desired, please state this when placing your order.

#### Inside heights

19  
72

#### Inside widths

24  
557

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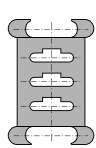
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## Types ME 0320

### Mounting version A (standard)

#### Movable divider:

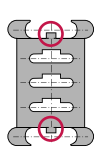
Divider without arresting cams



### Mounting version B

#### Fixed divider:

Divider with arresting cams



**Caution:** With type ME 0320, the stay does not have a groove. Different dividers are required for mounting versions A and B:

Version A: Dividers **without** arresting cams

Version B: Dividers **with** arresting cams

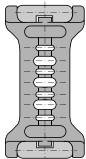
Thus, with type ME 0320, the mounting version A **cannot** be changed into mounting version B simply by turning the stay.

## Types MK 0475, ME/MK 0650, 0950 and 1250

### Mounting version A (standard)

#### Movable divider:

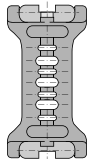
The arresting cam of the divider can move in the groove of the stay.



### Mounting version B

#### Fixed divider:

The arresting cam of the divider is fixed in the borehole of the stay.



With a movable assembly of the dividers (mounting version A), the holes in the stay do not have any function and hence the dimension  $a_x$ -section is meaningless.

Please note that the dividers can only be fixed in positions at which there is a hole in the stay. The dimension  $a_x$ -section specifies the hole intervals in the stay.

**Hole intervals = fixing positions of the dividers**  
( $a_x$ -sections)

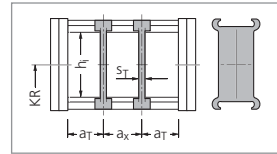
By simply turning the stays, it is also possible at any subsequent time to switch between movable and fixed assembly of the dividers (not in case of ME 0320).

## Types ME 0320, MK 0475, ME/MK 0650, 0950, 1250

### Divider system TS 0

Type	Stay variant	h <sub>i</sub> mm	Mounting version A			Mounting version B			
			S <sub>T</sub> mm	a <sub>T</sub> min mm	a <sub>x</sub> min mm	S <sub>T</sub> mm	a <sub>T</sub> min mm	a <sub>x</sub> min mm	a <sub>x</sub> section mm
ME 0320	RE	19	2	3	6	2	4.5	8	4
MK 0475	RD	28	2.8	6	7.8	2.8	12	8	8
ME/MK 0650	RE/RD	42	4.2	6.5	13	4.2	13	16	8
ME/MK 0950	RE/RD	58	6	7.5	14.5	6	22.5	16	16
ME/MK 1250	RE/RD	72	8	5	14.5	8	19.5	16	16

In the standard version, the divider systems are mounted on every second chain link.



Inside heights



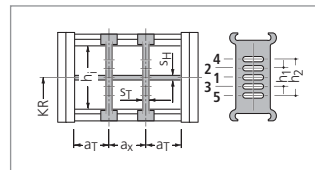
Inside widths



### Divider system TS 1 with continuous height subdivision made of aluminium

Type	Stay variant	h <sub>i</sub> mm	Mounting version A			Mounting version B				S <sub>H</sub> mm	h <sub>1</sub> mm	h <sub>2</sub> mm
			S <sub>T</sub> mm	a <sub>T</sub> min mm	a <sub>x</sub> min mm	S <sub>T</sub> mm	a <sub>T</sub> min mm	a <sub>x</sub> min mm	a <sub>x</sub> section mm			
ME 0320	RE	19	2	3	6	2	4.5	8	4	2	10	–
MK 0475	RD	28	2.8	6	7.8	2.8	12	8	8	2.4	15	–
ME/MK 0650	RE/RD	42	4.2	6.5	13	–	–	–	–	4	10	22
ME/MK 0950	RE/RD	58	6	7.25	14.5	6	22.5	16	16	4	22	–
ME/MK 1250	RE/RD	72	8	5	14.5	8	19.5	16	16	4	32	–

In the standard version, the divider systems are mounted on every second chain link.

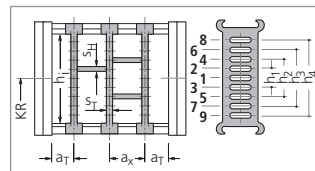


### Divider system TS 3

#### ME/MK 0650, 0950 and 1250 with section subdivision, partitions made of plastic

The dividers for divider system TS 3 do not have any arresting cams. Thus, no mounting version B (fixed mounting) is possible.

Type	Stay variant	h <sub>i</sub> mm	S <sub>T</sub> mm	a <sub>T</sub> min mm	a <sub>x</sub> min mm	S <sub>H</sub> mm	h <sub>1</sub> mm	h <sub>2</sub> mm	h <sub>3</sub> mm	h <sub>4</sub> mm
ME 0650	RE/RD	42	8	4	16*	4	14	28	–	–
ME 0950	RE/RD	58	8	4	16*	4	14	28	42	–
ME 1250	RE/RD	72	8	4	16*	4	14	28	42	56



\* When using plastic partitions

The dividers are fixed by the partitions, the complete divider system is movable.

In the standard version, the divider systems are mounted on every second chain link.

Divider system TS 2 with fixable dividers (mounting version B) and aluminium height subdivisions in 1 mm width sections is available. Please do get in touch with us.

Dimensions of the plastic partitions for divider system TS 3, see next page.

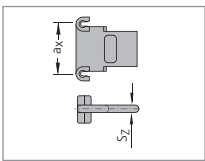
# Types ME 0320, MK 0475, ME/MK 0650, 0950, 1250

## Dimensions of the plastic partitions for TS 3

Inside heights



Inside widths



Aluminium partitions in 1 mm width sections are also available.

Sz	a <sub>x</sub> (center-to-center dividers)									
	16	18	23	28	32	33	38	43	48	58
4	64	68	78	80	88	96	112	128	144	160
	176	192	208	-	-	-	-	-	-	-

Dimensions in mm

When using **partitions with a<sub>x</sub> > 112 mm** there should be an additional central support with a **twin divider**.

Thickness of the twin dividers: ME/MK 0650 S<sub>T</sub> = 3 mm, ME/MK 0950, 1250 S<sub>T</sub> = 4 mm

Twin dividers are designed for subsequent fitting in the partition system.

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## Gliding elements – the economical solution for gliding applications

### Replaceable glide shoes made of plastic\*

To extend the life of cable carriers in gliding operations KABELSCHLEPP supplies detachable, exchangeable glide shoes.

Replaceable glide shoes are a very economical solution. When wear occurs only the glide shoes are replaced, and not the complete cable carrier. For travel speeds > 2.5 m/s and large additional loads, a highly wear-resistant special material is used.

For types ME/MK 0950 and 1250 **OFFROAD glide shoes** with 80 % greater wear volumes are also available. We recommend their use in extreme environmental conditions (with particularly abrasive materials such as e. g. sand, dust, corundum).



\* not for ME 0320

### Chain height with glide shoes:

- MK 0475: h<sub>G</sub>' = h<sub>G</sub> + 2.5 = 41.5
- ME/MK 0650: h<sub>G</sub>' = h<sub>G</sub> + 3.2 = 60.2
- ME/MK 0950: h<sub>G</sub>' = h<sub>G</sub> + 3.5 = 83.5
- ME/MK 1250: h<sub>G</sub>' = h<sub>G</sub> + 3.5 = 99.5

Dimensions in mm

### Minimum bend radii when using glide shoes:

- MK 0475: KR<sub>min</sub> = 100 mm
- ME/MK 0650: KR<sub>min</sub> = 95 mm
- ME/MK 0950: KR<sub>min</sub> = 140 mm
- ME/MK 1250: KR<sub>min</sub> = 180 mm

By means of a positive snap connection, the glide shoes sit firmly on the chain link.

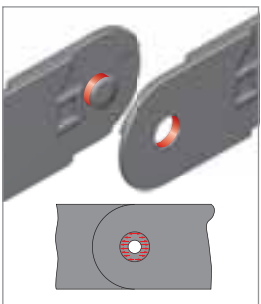
Font: +49 2762 4003-0

## Minimized hinge wear owing to the "life extending 2 disc principle"

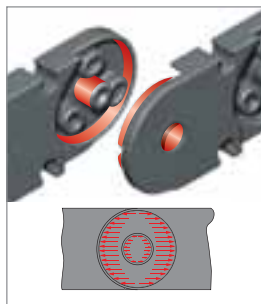
In the M Series\*, the push and pull forces are transmitted via the optimum link design for this purpose.

As a result link wear is reduced to a minimum and the life of the cable carrier is considerably lengthened.

\* not for type 0320



Force transmission with a pin-hole joint



Force transmission with the "life extending 2 disc principle"

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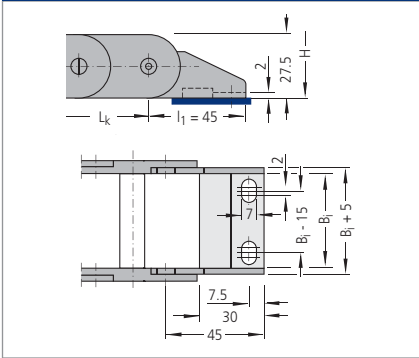
## Types ME 0320, MK 0475, ME/MK 0650, 0950, 1250

### Connectors made of plastic/aluminium – Type ME 0320

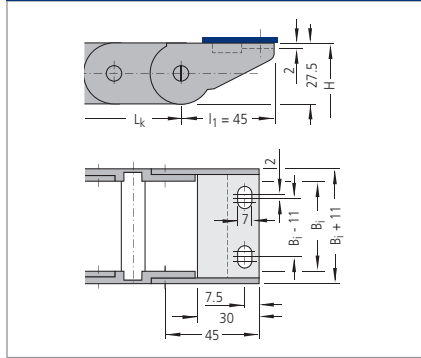
Standard connectors without strain relief.

Connectors with strain relief available on request.

#### Fixed point connection



#### Driver connection



Inside heights

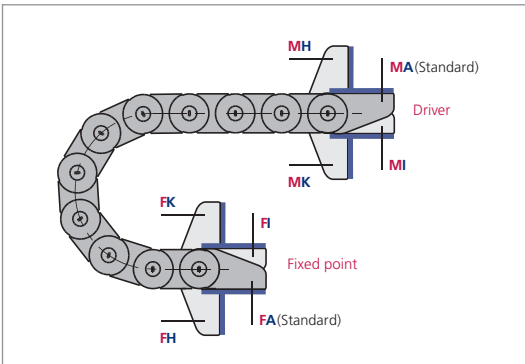
19  
72

Inside widths

24  
557

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### Connection variants – Type ME 0320



#### Connection point

- M – Driver
- F – Fixed point

#### Connection type

- A – Threaded joint outside (standard)
- I – Threaded joint inside
- H – Threaded joint, rotated through 90° to the outside
- K – Threaded joint, rotated through 90° to the inside

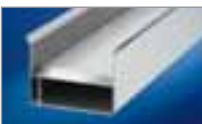
In the standard version, the connectors are mounted with the threaded joint outwards (FA/MA).

When ordering please specify the desired connection type (see ordering key on page 343).

The connection type can subsequently be altered simply by varying the connectors.

#### Guide channels

► from page 301



#### Strain relief devices

► from page 307



#### Cables for cable carrier systems

► from page 350



# Types ME 0320, MK 0475, ME/MK 0650, 0950, 1250

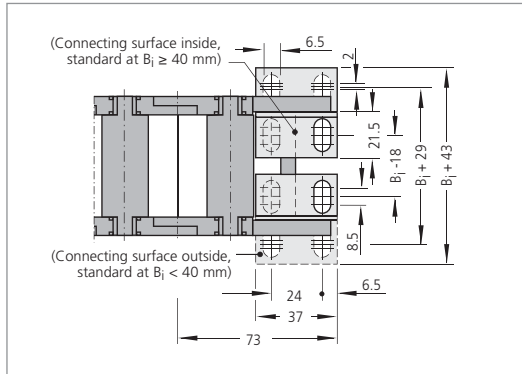
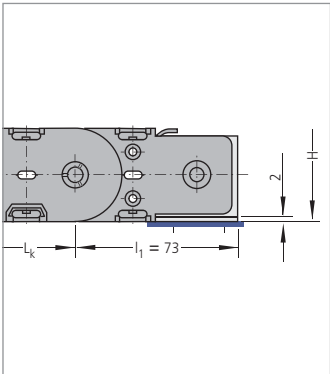
## Connectors made of plastic/steel – Type MK 0475

End connector made of steel plate.  
Screwable strain relief made of aluminium on request.

Inside heights



Inside widths

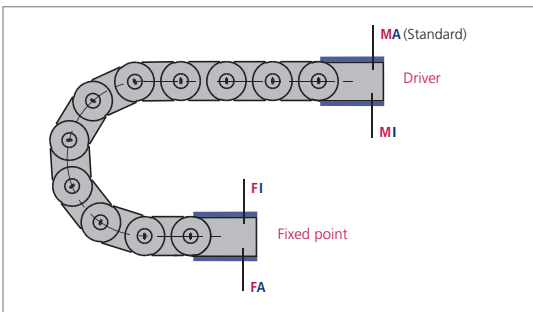


The dimensions of the fixed point and driver connections are identical.

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## Connection variants – Type MK 0475



### Connection point

- M** – Driver
- F** – Fixed point

### Connection type

- A** – Threaded joint outside (standard)
- I** – Threaded joint inside

In the standard version, the connectors are mounted with the threaded joint outwards (**FA/MA**).

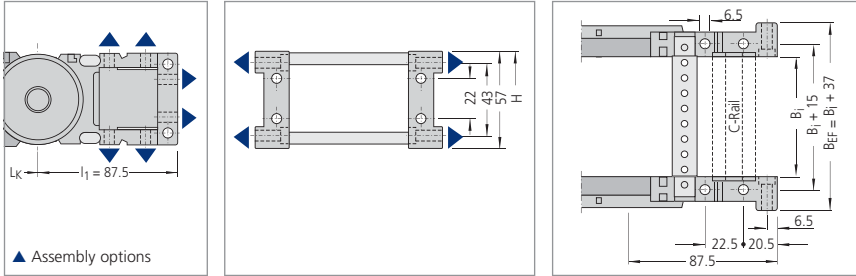
When ordering please specify the desired connection type (see ordering key on page 343).

The connection type can subsequently be altered simply by varying the connectors.

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## Types ME 0320, MK 0475, ME/MK 0650, 0950, 1250

### UMB (Universal Mounting Brackets) made of aluminium – Type ME/MK 0650



Inside heights

19  
72

Inside widths

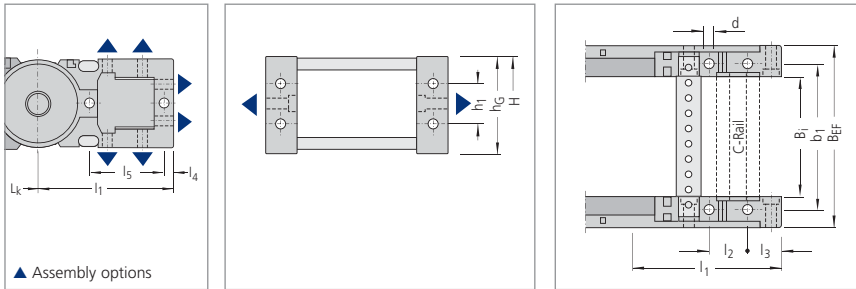
24  
557

The dimensions of the fixed point and driver connections are identical.  
End connectors made of steel plate available on request.

**Optional C-rails and strain relief elements for cables can be found on the following pages.**

When ordering please specify the connection type FU/MU (see ordering key on page 343).

### UMB (Universal Mounting Brackets) made of aluminium – Types ME/MK 0950 and 1250



The dimensions of the fixed point and driver connections are identical.  
End connectors made of steel plate available on request.

**Optional C-rails and strain relief elements for cables can be found on the following pages.**

When ordering please specify the connection type FU/MU (see ordering key on page 343).

Type	B <sub>EF</sub>	b <sub>1</sub>	d	l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	l <sub>4</sub>	l <sub>5</sub>	h <sub>1</sub>	h <sub>G</sub>
ME/MK 0950	B <sub>i</sub> + 44	B <sub>i</sub> + 24.5	8.5	136	35	24.5	8.5	80	45	80
ME/MK 1250	B <sub>i</sub> + 51	B <sub>i</sub> + 28	11	168	35	31	10.5	94.5	45	96

B<sub>EF</sub> = Chain width over connector

Dimensions in mm

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Cable Configurator



## Types ME 0320, MK 0475, ME/MK 0650, 0950, 1250

### Strain relief devices

#### C-rails for LineFix bracket clamps, SZL strain reliefs and clamps

The optional C-rails are fixed by means of the universal mounting brackets and do not have to be screwed separately.

Please state in your order whether C-rails are needed.

Inside heights

19  
—  
72

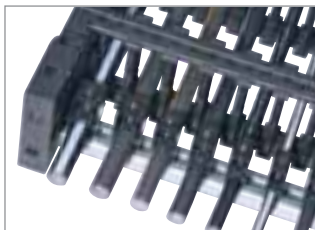
Inside widths

24  
—  
557

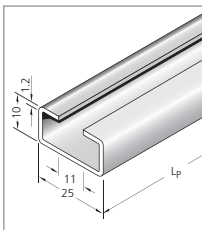
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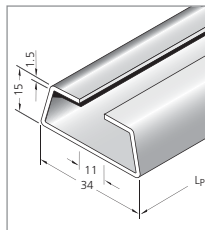
Use our free project planning service.



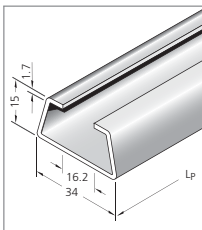
■ Universal mounting bracket with C-rail



■ **ME/MK 0650:**  
Integratable C-rail  
25 x 10 mm,  
slit width 11 mm,  
material steel,  
Item-No. 3931

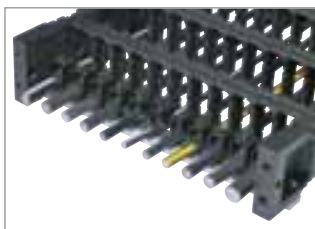


■ **ME/MK 0950 and 1250:**  
Integratable C-rail  
34 x 15 mm,  
slit width 11 mm,  
material steel,  
Item-No. 3935

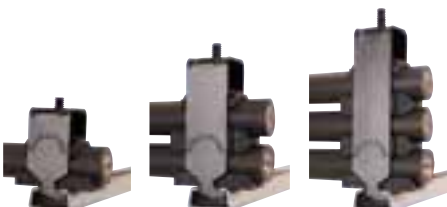


■ **ME/MK 0950 and 1250:**  
Integratable C-rail  
34 x 15 mm,  
slit width 16 – 17 mm,  
material aluminium,  
Item-No. 3926,  
material steel,  
Item-No. 3932

Our LineFix strain reliefs are optimally suited for the C-rails. (LineFix bracket clamps and other strain relief devices – see Accessories chapter, from page 307 onwards).



■ C-rail with LineFix strain relief





## MT Series

### Multivariable cable carrier with plastic or aluminium cover system

Inside heights

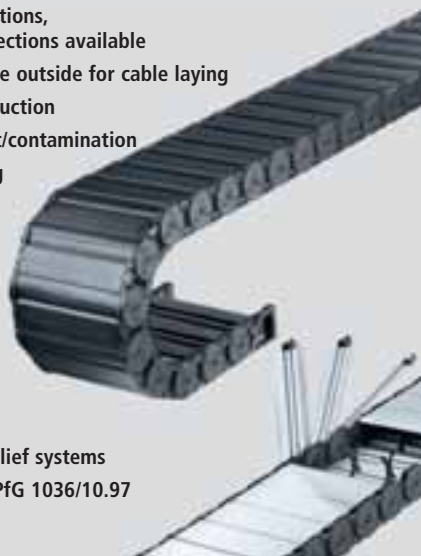


Inside widths

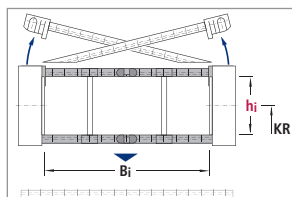


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- Aluminium cover system in 1 mm width sections, plastic cover system in 8 or 16 mm width sections available
- Can be opened quickly on the inside and the outside for cable laying
- Extremely robust due to stable plate construction
- Enclosed stroke system not sensitive to dirt/contamination
- Transmission of forces (tensile and shearing forces) over a large surface area via the optimum link design – according to the “life extending 2 disc principle”
- Standard universal mounting brackets (UMBs)
- Many separation options for the cables
- Highly wear-resistant, replaceable glide shoes available – resulting in minimal wear at high speeds, sliding in the guide channel
- Optionally available with different strain relief systems
- TÜV design approved in accordance with 2PFG 1036/10.97



### Type MT with plastic cover system (stay variant RDD)



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Type	h <sub>i</sub>	B <sub>i</sub>	Maximum travel length in m	Dynamics of unsupported arrangement		Page
				Travel speed v <sub>max</sub> in m/s	Travel acceleration a <sub>max</sub> in m/s <sup>2</sup>	
MT 0475	26	24-280	100	10	40	236
MT 0650	38.5	50-258	170	8	35	236
MT 0950	54.5	77-349	230	6	25	236
MT 1250	68.5	103-359	270	5	20	236

Dimensions in mm

### Carrier construction and cover system

MT 0475, 0650:

Available in 8 mm width sections.

MT 0950, 1250:

Available in 16 mm width sections.

#### Opening options

**Outside:** Simply by levering the cover open (on the right or left). Cover can also be removed

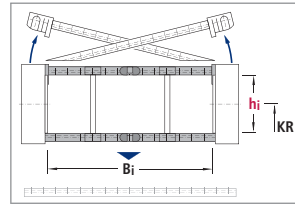
**Inside:** Simply by turning the cover

MT 0475 is available with a cover that can be levered open to the inside. Please specify when ordering.



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## Type MT with aluminium cover system (stay variant RMD)



Inside heights

26  
-  
87

Inside widths

24  
-  
800

Type	h <sub>i</sub>	B <sub>i</sub>	Maximum travel length in m	Dynamics of unsupported arrangement		Page
				Travel speed v <sub>max</sub> in m/s	Travel acceleration a <sub>max</sub> in m/s <sup>2</sup>	
MT 0475	26	24-180	100	10	40	236
MT 0650	38.5	100-500	170	8	35	236
MT 0950	54.5	100-600	230	6	25	236
MT 1250	68.5	150-800	270	5	20	236
MT 1300	87	100-800	300	5	20	236

Dimensions in mm

### Carrier construction and cover system

#### WIDTH SECTIONS



Available in 1 mm width sections.

#### Opening options (MT 0475, 0650, 0950, 1250)

**Outside:** Simply by levering the cover open (on the right or left). Cover can also be removed  
**Inside:** Simply by turning the cover

MT 0475 is available with a cover that can be levered open to the inside. Please specify when ordering.

#### Opening options (MT 1300)

**Inside/Outside:** bolted cover for maximum stability



■ Cover openable (MT 0475, 0650, 0950, 1250)



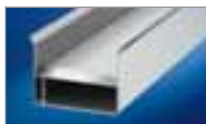
■ Cover bolted (MT 1300)

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Guide channels  
► from page 301



Strain relief devices  
► from page 307



Cables for cable carrier systems  
► from page 350



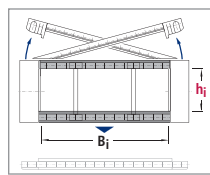
# Types MT 0475, 0650, 0950, 1250 and 1300

## Dimensions and intrinsic chain weight

Plastic cover systems (stay variant RDD)

Type	Stay variant	h <sub>i</sub>	h <sub>G</sub>	B <sub>i</sub> min	q <sub>k</sub> min	B <sub>i</sub> max	q <sub>k</sub> max	B <sub>k</sub>	Width section
MT 0475	RDD	26	39	24	0.9	280	4.4	B <sub>i</sub> + 17	8
MT 0650	RDD	38.5	57	50	2.4	258	3.7	B <sub>i</sub> + 34	8
MT 0950	RDD	54.5	80	77	4.3	349	7.7	B <sub>i</sub> + 39	16
MT 1250	RDD	68.5	96	103	5.7	359	8.9	B <sub>i</sub> + 45	16

Dimensions in mm/Weights in kg/m



Inside heights



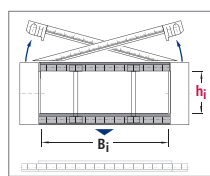
Inside widths



Aluminium cover systems (stay variant RMD)

Type	Stay variant	h <sub>i</sub>	h <sub>G</sub>	B <sub>i</sub> min	q <sub>k</sub> min	B <sub>i</sub> max	q <sub>k</sub> max	B <sub>k</sub>	WIDTHSECTIONS
MT 0475	RMD	26	39	24	0.9	180	4.5	B <sub>i</sub> + 17	1 mm
MT 0650	RMD	38.5	57	100	3.3	500	9.7	B <sub>i</sub> + 34	
MT 0950	RMD	54.5	80	100	5.5	600	16.2	B <sub>i</sub> + 39	
MT 1250	RMD	68.5	96	150	9.0	800	26.0	B <sub>i</sub> + 45	
MT 1300	RMD	87	120	100	8.8	800	27.4	B <sub>i</sub> + 50	

Dimensions in mm/Weights in kg/m



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## Bend radius and pitch

Type	Bend radii KR mm								
MT 0475	75	100	130	160	200	250	300	-	-
MT 0650	95*	115	145	175	220	260	275	300	350
MT 0950	140*	170*	200	260	290	320	380	-	-
MT 1250	220*	260	300	340	380	500	-	-	-
MT 1300	240	280	320	360	400	500	-	-	-

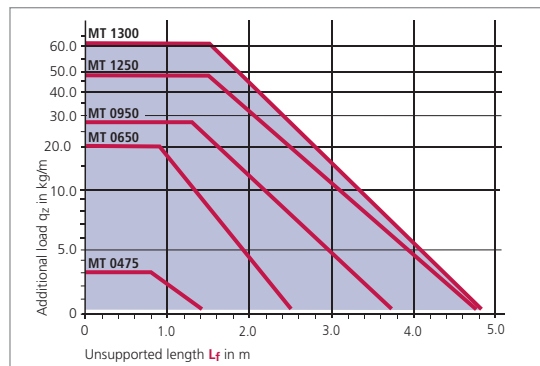
\* not for aluminium cover system RMD

Pitch:

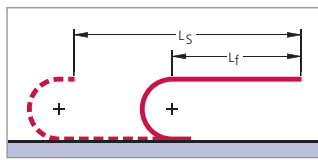
- MT 0475: t = 47.5 mm
- MT 0650: t = 65 mm
- MT 0950: t = 95 mm
- MT 1250: t = 125 mm
- MT 1300: t = 130 mm

## Load diagram

for unsupported length L<sub>f</sub> depending on the additional load



## Unsupported length L<sub>f</sub>



In the case of longer travel lengths, sag of the cable carriers is technically permissible depending on the application.

In a gliding arrangement, even longer travel lengths are possible (see page 301).

We are at your service to advise on these applications.

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## Example of ordering

Cable carrier: **MT 0950** - **450** - **RMD** - **290** - **2850**

Type: Inside width B<sub>i</sub> in mm | Stay variant | Bend radius KR in mm | Chain length L<sub>k</sub> in mm (without connection)

Divider system: **TS 0** / **4**

Connection: **FU/MU**

Divider system: Divider system | Number of dividers n<sub>T</sub> | Connection: Fixed point/Driver

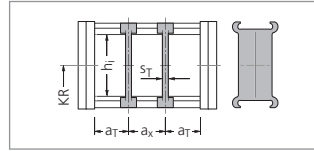
## Ordering divider systems:

Please state the designation of the divider system (TS 0, TS 1 ...) and the number of dividers. Possibly attach a sketch with the dimensions.

## Types MT 0475, 0650, 0950, 1250 and 1300

### Divider system TS 0

Type	Stay variant	h <sub>j</sub> mm	S <sub>T</sub> mm	a <sub>T</sub> min mm	a <sub>x</sub> min mm	a <sub>x</sub> section mm
MT 0475	RDD	26	2.8	12	8	8
MT 0475	RMD	26	2.8	6	8	—
MT 0650	RDD	38.5	4.2	13	16	8
MT 0650	RMD	38.5	3	16	13	—
MT 0950	RDD	54.5	6	22.5	16	16
MT 0950	RMD	54.5	4	7	14	—
MT 1250	RDD	68.5	8	19.5	16	16
MT 1250	RMD	68.5	5	10	20	—
MT 1300	RMD	87	5	7.5	15	5



In the standard version, the divider systems are mounted on every second chain link.

Inside heights

26  
—  
87

Inside widths

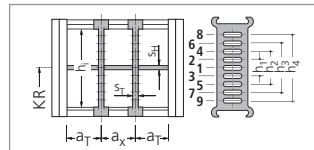
24  
—  
800

With plastic cover systems (RDD), the dividers are fixed in the cross-section (at intervals of a<sub>x</sub>-section). With aluminium cover systems (RMD), the dividers can be moved.

### Divider system TS 1 with continuous height subdivision made of aluminium

Type	Stay variant	h <sub>j</sub> mm	S <sub>T</sub> mm	a <sub>T</sub> min mm	a <sub>x</sub> min mm	a <sub>x</sub> section mm	S <sub>H</sub> mm	h <sub>1</sub> mm	h <sub>2</sub> mm	h <sub>3</sub> mm	h <sub>4</sub> mm
MT 0475	RDD	26	2.8	12	8	8	2.4	15	—	—	—
MT 0475	RMD	26	2.8	6	8	—	2.4	15	—	—	—
MT 0650	RDD	38.5	4.2	13	16	8	4	10	22	—	—
MT 0650	RMD	38.5	3	16	13	—	4	—	—	—	—
MT 0950	RDD	54.5	6	22.5	16	16	4	22	—	—	—
MT 1250	RDD	68.5	8	19.5	32	16	4	32	—	—	—
MT 1300	RMD	87	5	7.5	15	—	4	14	28	42	56

With plastic cover systems (RDD), the dividers are fixed in the cross-section (at intervals of a<sub>x</sub>-section). With aluminium cover systems (RMD), the dividers can be moved.



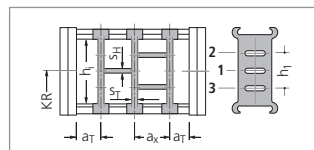
In the standard version, the divider systems are mounted on every second chain link.

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### Divider system TS 2 with grid subdivision made of aluminium (1 mm grid)

Type	Stay variant	h <sub>j</sub> mm	S <sub>T</sub> mm	a <sub>T</sub> min mm	a <sub>x</sub> min mm	a <sub>x</sub> section mm	S <sub>H</sub> mm	h <sub>1</sub> mm
MT 0475	RDD	26	2.8	12	8	8	2.4	15
MT 0650	RDD	38.5	4.2	13	16	8	4	10



In the standard version, the divider systems are mounted on every second chain link.

With plastic cover systems (RDD), the dividers are fixed in the cross-section (at intervals of a<sub>x</sub>-section).

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Cable Center Configurator

# Types MT 0475, 0650, 0950, 1250 and 1300

## Divider system TS 3 with section subdivision, partitions made of plastic

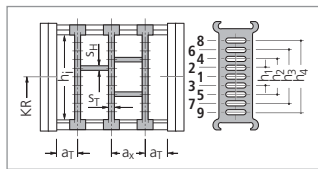
Inside heights



Inside widths



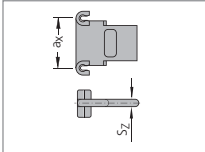
Type	Stay variant	h <sub>i</sub> mm	S <sub>T</sub> mm	a <sub>T</sub> min mm	a <sub>x</sub> min mm	S <sub>H</sub> mm	h <sub>1</sub> mm	h <sub>2</sub> mm	h <sub>3</sub> mm	h <sub>4</sub> mm
MT 0950	RDD	54.5	8	6.5	16*	4	14	28	42	–
MT 1250	RDD	68.5	8	4	16*	4	14	28	42	56
MT 1300	RMD	87	8	7.5	16*	4	14	28	42	56



\* When using plastic partitions

With plastic cover systems (RDD), the dividers are fixed in the cross-section. In the standard version, the divider systems are mounted on every second chain link.

### Dimensions of plastic partitions for TS 3



S <sub>Z</sub>	a <sub>x</sub> (center-to-center distance, dividers)									
4	16	18*	23*	28*	32	33*	38*	43*	48	58*
	64	68*	78*	80	88*	96	112	128	144	160
	176	192	208	–	–	–	–	–	–	–

\* only MT 1300

Dimensions in mm

Aluminium partitions in 1 mm width sections are also available.

When using partitions with a<sub>x</sub> > 112 mm there should be an additional central support with a twin divider (S<sub>T</sub> = 4 mm).

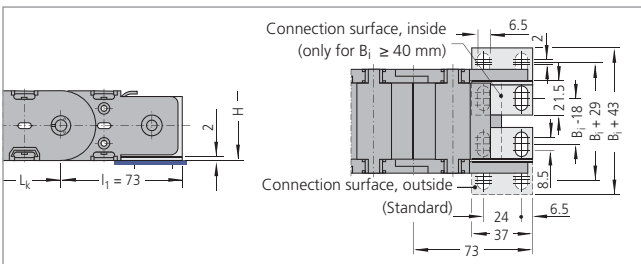
Twin dividers are designed for subsequent fitting in the partition system.

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## Connectors of plastic/steel – Type MT 0475

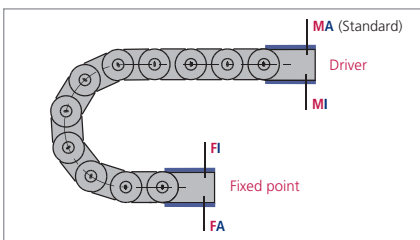
### End connector of steel plate

Screwable strain relief of aluminium on inquiry.



The dimensions of the fixed point and driver connections are identical.

### Connection variants – Type MT 0475



#### Connection point

- M – Driver
- F – Fixed point

#### Connection type

- A – Threaded joint outside (standard)
- I – Threaded joint inside

In the standard version, the connectors are mounted with the threaded joint outwards (FA/MA). When ordering please specify the desired connection type (see ordering key on page 343).

The connection type can subsequently be altered.

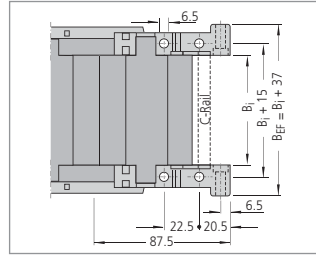
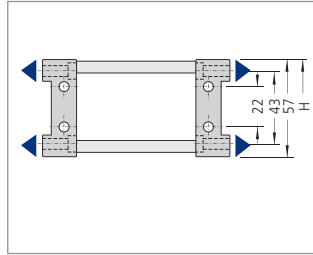
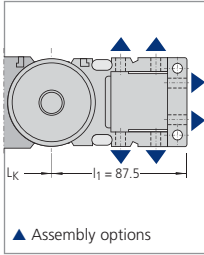
Glide shoes and "life extending 2 disc principle" – see page 229.

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## Types MT 0475, 0650, 0950, 1250 and 1300

### UMB-connectors of aluminium – Type MT 0650



Inside heights

26  
87

Inside widths

24  
800

The dimensions of the fixed point and driver connections are identical.

End connectors of steel plate available on inquiry.

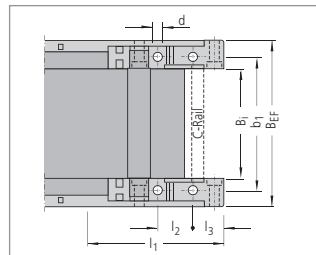
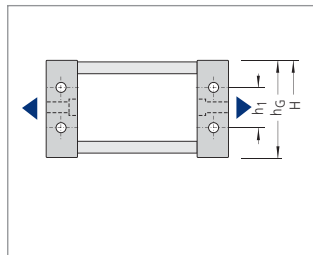
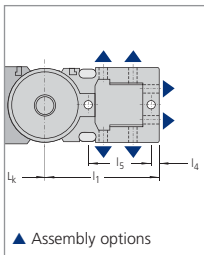
**Optional C-rails and strain relief elements for cables can be found on the following pages.**

When ordering please specify the connection type FU/MU (see ordering key on page 343).



### UMB-connectors of aluminium – Types MT 0950, 1250

### UMB-connectors of plastic – Type MT 1300



The dimensions of the fixed point and driver connections are identical.

End connectors of steel plate available on inquiry.

**Optional C-rails and strain relief elements for cables can be found on the following pages.**

When ordering please specify the connection type FU/MU (see ordering key on page 343).

Type	B <sub>EF</sub>	b <sub>1</sub>	d	l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	l <sub>4</sub>	l <sub>5</sub>	h <sub>1</sub>	h <sub>g</sub>
MT 0950	B <sub>i</sub> + 44	B <sub>i</sub> + 24.5	8,5	136	35	24.5	8.5	80	45	80
MT 1250	B <sub>i</sub> + 51	B <sub>i</sub> + 28	11	168	35	31	10.5	94.5	45	96
MT 1300	B <sub>i</sub> + 50	B <sub>i</sub> + 29	11	158	35	20	–	–	66	120

B<sub>EF</sub> = Chain width over connector

Dimensions in mm



## Types MT 0475, 0650, 0950, 1250 and 1300

### Strain relief devices

#### Both-sided strain relief combs made of plastic (MT 0650)

The cables can be fixed securely and simply using the **optional strain relief combs**.

The strain relief combs are installed between the UMBs, and do not need to be bolted on separately or mounted on a C-Rail.

**Please state on the order whether strain relief combs are needed.**

Inside  
heights



Inside  
widths



■ Universal mounting bracket with strain relief comb



■ Both-sided strain relief comb

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■ Fixing in the UMB.

Type	B <sub>i</sub> mm	n <sub>z</sub>
MT 0650	50	3
MT 0650	75	5
MT 0650	95	7
MT 0650	100	7
MT 0650	115	8
MT 0650	120	9
MT 0650	125	9
MT 0650	145	11
MT 0650	150	11
MT 0650	170	13
MT 0650	175	13
MT 0650	195	15
MT 0650	200	15
MT 0650	225*	17
MT 0650	250*	19

n<sub>z</sub> = Number of teeth on one side of the comb

\* on request

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## Types MT 0475, 0650, 0950, 1250 and 1300

### Strain relief devices

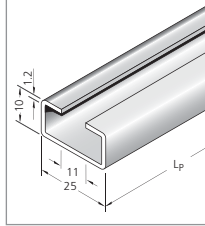
#### C-rails for LineFix bracket clamps, SZL strain reliefs and clamps

The optional C-rails are fixed by means of the universal mounting brackets and do not have to be screwed separately.

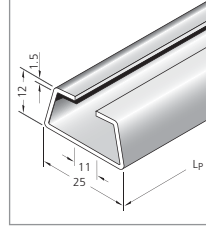
Please state in your order whether C-rails are needed.



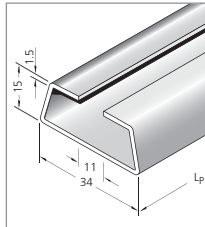
■ Universal mounting bracket with C-rail



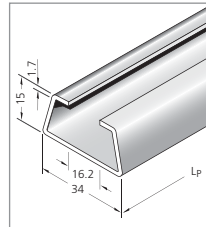
■ **MT 0650:**  
Integratable C-rail  
25 x 10 mm,  
slit width 11 mm,  
material steel,  
Item-No. 3931



■ **MT 1300:**  
Integratable C-rail  
25 x 12 mm,  
slit width 11 mm,  
material steel,  
Item-No. 3934



■ **MT 0950, 1250 and 1300:**  
Integratable C-rail  
34 x 15 mm,  
slit width 11 mm,  
material steel,  
Item-No. 3935



■ **MT 0950, 1250 and 1300:**  
Integratable C-rail  
34 x 15 mm,  
slit width 16 – 17 mm,  
material aluminium,  
Item-No. 3926,  
material steel,  
Item-No. 3932

Our LineFix strain reliefs are optimally suited for the C-rails. (LineFix bracket clamps and other strain relief devices – see Accessories chapter, from page 307 onwards).



■ C-rail with LineFix strain relief



Inside heights

26  
-  
87

Inside widths

24  
-  
800

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OnlineEngineer.de  
with  
KABELSCHLEPP  
Cable Center Configurator

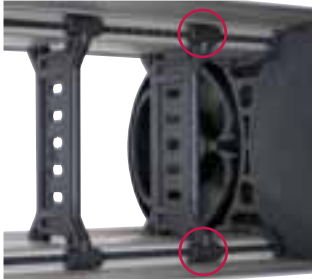
## Types MT 0475, 0650, 0950, 1250 and 1300

### Fixing the dividers in 5 mm steps – Type MT 1300

In the standard version, dividers or the complete divider system (dividers with height separation) can be moved in the cross section.

Fixing profiles can be used to fix the dividers or complete divider systems. Also best suited for applications where the carrier is rotated through 90° with extreme transverse accelerations (fixable dividers for stay variant RMD).

If the fixed installation version is required, please state this when placing your order.



■ Secure seating of the dividers due to fixing on both sides.



■ The fixing profiles are simply pushed into the cover (RMD).

Inside heights  
26  
-  
87

Inside widths  
24  
-  
800

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### Gliding elements – the economical solution for gliding applications

#### Replaceable glide shoes made of plastic

To extend the life of cable carriers in gliding operations KABELSCHLEPP supplies detachable, exchangeable glide shoes.

Replaceable glide shoes are a very economical solution. When wear occurs only the glide shoes are replaced, and not the complete cable carrier. For travel speeds > 2.5 m/s and large additional loads, a highly wear-resistant special material is used.

For types MT 0950 and MT 1250 **OFFROAD glide shoes** with 80 % greater wear volumes are also available. We recommend their use in extreme environmental conditions (with particularly abrasive materials such as e. g. sand, dust, corundum).

#### Chain height with glide shoes:

<b>MT 0475:</b>	$h_{G'}$	=	$h_G + 2.5$	=	41.5
<b>MT 0650:</b>	$h_{G'}$	=	$h_G + 3.2$	=	60.2
<b>MT 0950:</b>	$h_{G'}$	=	$h_G + 3.5$	=	83.5
<b>MT 1250:</b>	$h_{G'}$	=	$h_G + 3.5$	=	99.5
<b>MT 1300:</b>	$h_{G'}$	=	$h_G + 7.0$	=	127.0

Dimensions in mm

In the case of the type MT 0475, with the bend radius  $KR = 75$  mm no glide shoes can be used.



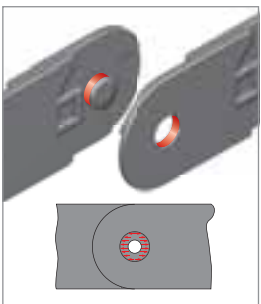
! By means of a positive snap connection, the glide shoes sit firmly on the chain link.

### Minimized hinge wear owing to the "life extending 2 disc principle"

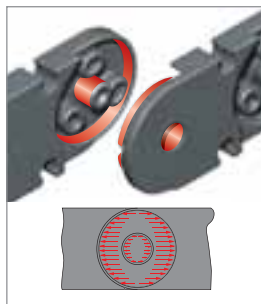
In the M Series\*, the push and pull forces are transmitted via the optimum link design for this purpose.

As a result link wear is reduced to a minimum and the life of the cable carrier is considerably lengthened.

\* not for type 0320

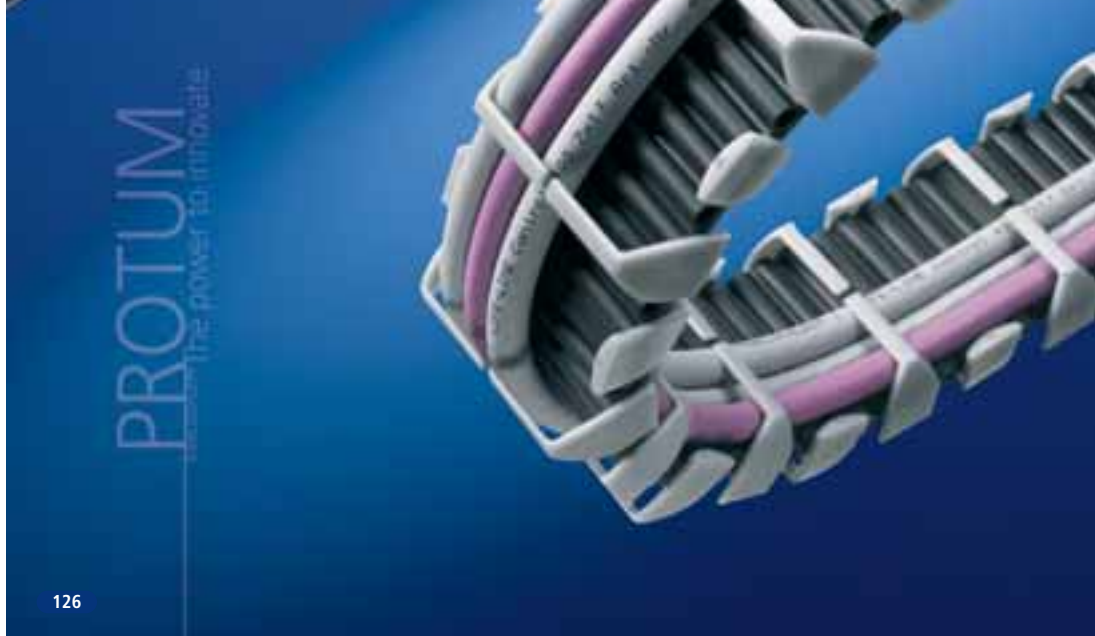
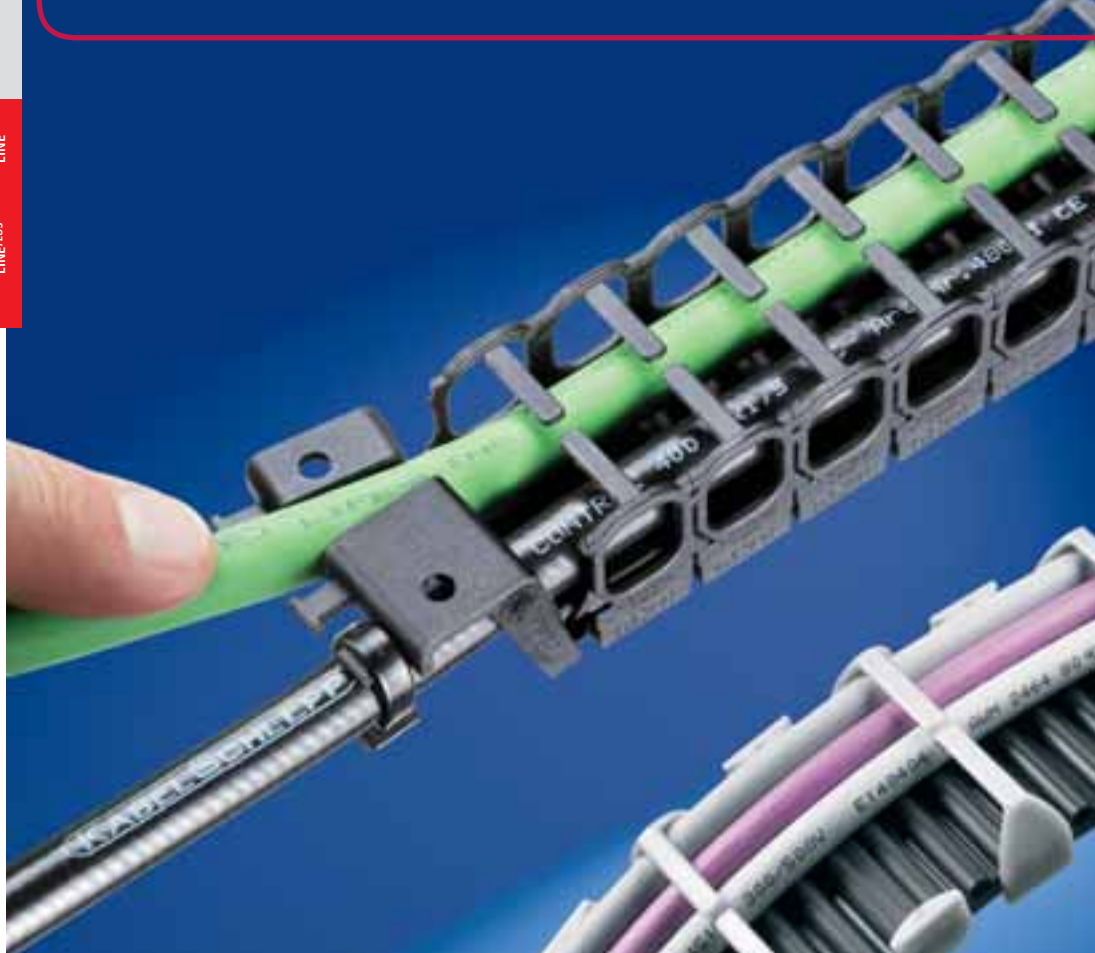


■ Force transmission with a pin-hole joint



■ Force transmission with the "life extending 2 disc principle"

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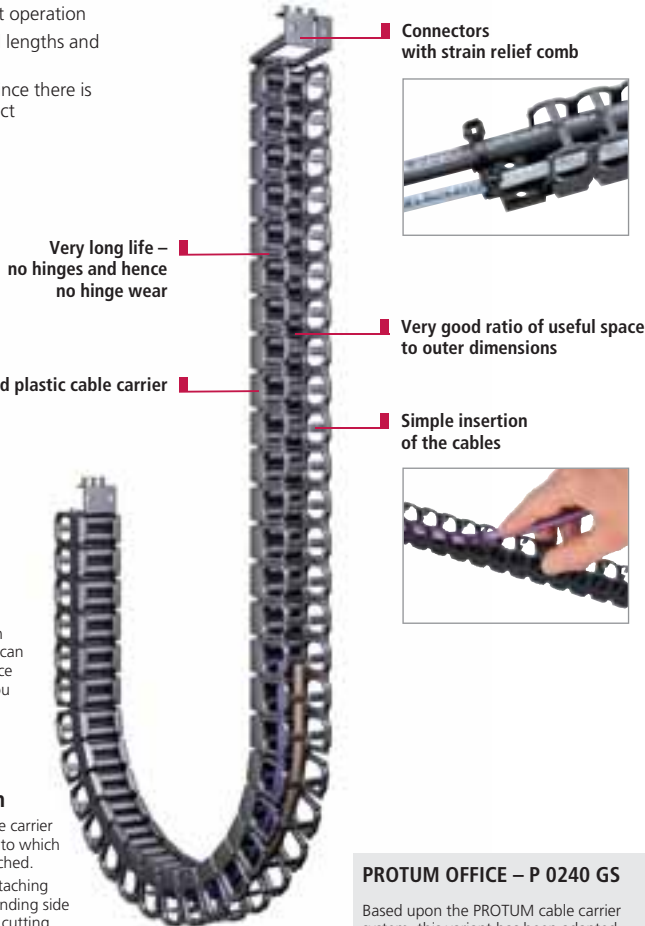


PROTUM  
The power to innovate

# PROTUM

Small, light cable carrier for unsupported applications

- Low vibration and quiet operation
- Optimal for short travel lengths and high travel speeds
- Gentle on the cables, since there is almost no polygon effect



Connectors with strain relief comb



Very long life – no hinges and hence no hinge wear

Very good ratio of useful space to outer dimensions

Solid plastic cable carrier

Simple insertion of the cables



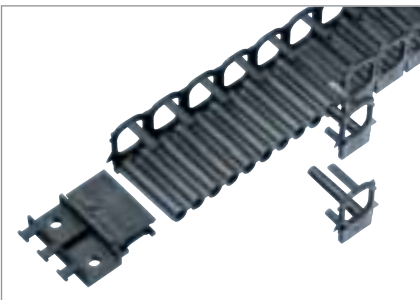
## Less expense – lower costs thanks to simple cable laying

Even pre-assembled cables can simply be inserted. The cables can easily be changed during service and maintenance work. For you this means lower costs.

## The basic construction

The basis of the PROTUM cable carrier system is an extruded band onto which lightweight side parts are attached.

It can easily be extended by attaching additional bands and corresponding side parts and shortened simply by cutting through the band with a knife.



Subject to change.

## PROTUM OFFICE – P 0240 GS

Based upon the PROTUM cable carrier system, this variant has been adapted for use in office areas.

The inner width and the possibility of double occupancy provide sufficient space for cables in office areas, i.e. for telecommunications, energy and data cables.

The link-free construction also serves as a design feature, with silver-grey, elegant-looking side walls.



Inside heights



Inside widths



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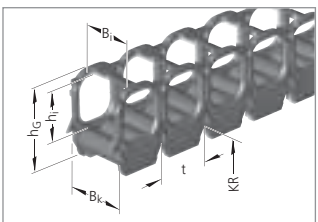
OnlineEngineer.de  
with CONCEPT Cable Carrier Configurator

# Types P 0160 and P 0240

Inside heights



Inside widths



## Dimensions and intrinsic chain weight

Type	hi	hG	Inside widths Bi			Bk	For cable-Ø
			Intrinsic chain weight				
P 0160	15	25	15	20	30	Bi + 4	10
			0.14	0.16	0.21		
P 0240	20	31	20	30	40	Bi + 5	15
			0.18	0.22	0.27		

Dimensions in mm/Weights in kg/m

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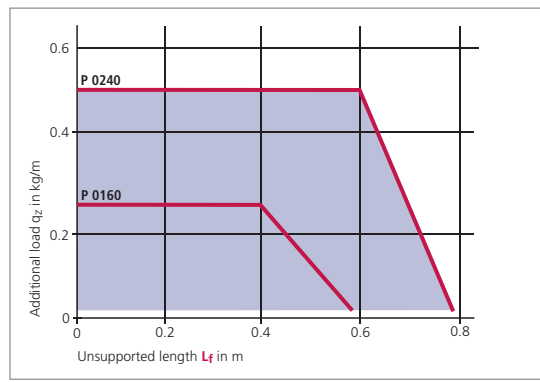
## Bend radius and pitch

Type	Bend radii KR mm			
P 0160	18	28	38	48
P 0240	27	42	57	72

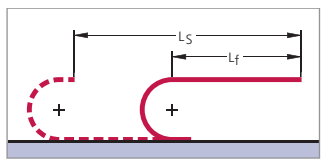
Pitch:  
P 0160: t = 16 mm  
P 0240: t = 24 mm

## Load diagram

for unsupported length  $L_f$  depending on the additional load



## Unsupported length $L_f$



In the case of longer travel lengths, sag of the cable carriers is technically permissible depending on the application. We are at your service to advise on these applications.

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## Example of ordering

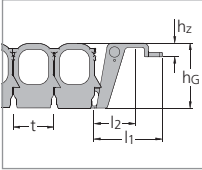
Cable carrier  
**P 0240** - **010** - **30** - **42** - **380**  
 Type Design\* Inside width Bi in mm Bend radius KR in mm Chain length Lk in mm (without connection) Connection FA/MA  
 Connection Fixed point/Driver

\* Design 010 (simple insertion of the cables)

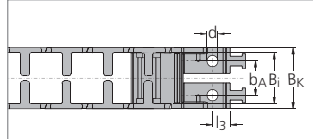
## Types P 0160 and P 0240

### Plastic connectors with integrated strain relief

#### Connection dimensions – connection on the outside

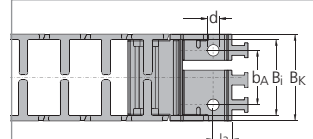


The dimensions of the fixed point and driver connections are identical.



For Type

P 0160:  $B_i = 15, 20$  P 0240:  $B_i = 20$



For Type

P 0160:  $B_i = 30$  P 0240:  $B_i = 30, 40$

Inside heights

15  
—  
20

Inside widths

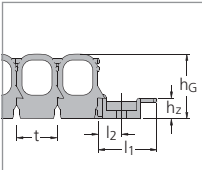
15  
—  
40

Type	$B_i$	$B_k$	$b_A$	d	$l_1$	$l_2$	$l_3$	$h_z$	$h_G$
P 0160	15	$B_i + 4$	11	4.2	33.6	19.5	7.5	6.5	25
	20		14						
	30		22						
P 0240	20	$B_i + 5$	14	4.2	33.6	19.5	7.5	6.5	31
	30		22						
	40		32						

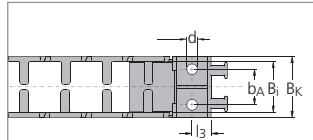
Plastic connecting elements with strain relief combs

Dimensions in mm

#### Connection dimensions – connection on the inside

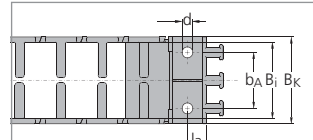


The dimensions of the fixed point and driver connections are identical.



For Type

P 0160:  $B_i = 15, 20$  P 0240:  $B_i = 20$



For Type

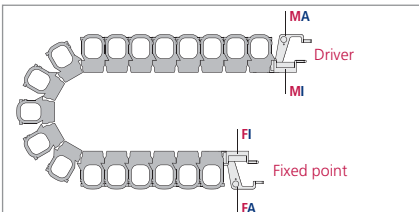
P 0160:  $B_i = 30$  P 0240:  $B_i = 30, 40$

Type	$B_i$	$B_k$	$b_A$	d	$l_1$	$l_2$	$l_3$	$h_z$	$h_G$
P 0160	15	$B_i + 4$	11	4.2	23	7.5	7.5	8	25
	20		14						
	30		22						
P 0240	20	$B_i + 5$	11	4.2	23	7.5	7.5	8	31
	30		22						
	40		32						

Plastic connecting elements with strain relief combs

Dimensions in mm

#### Connection variants



#### Connection point

- M** – Driver
- F** – Fixed point

#### Connection type

- I** – Threaded joint, inside
- A** – Threaded joint, outside



# PROTUM OFFICE – P 0240 GS

Based on the PROTUM cable carrier system, this variant has been adapted for use in office areas. The inside width and the possibility of double occupancy provide sufficient space for cables in office areas, i.e. for telecommunications, energy and data cables. The link-free construction also serves as a design feature, with silver-grey, elegant-looking side walls.



Inside heights



Inside widths

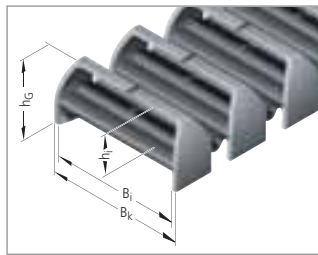
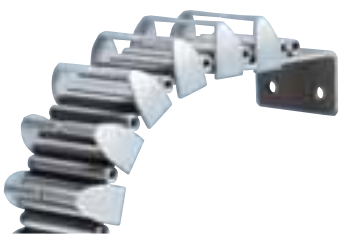


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## Dimensions and intrinsic chain weight

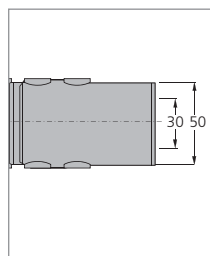
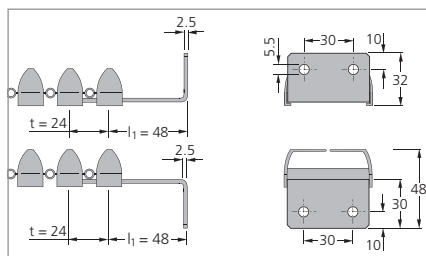
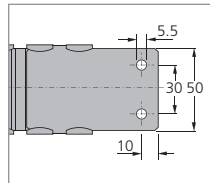
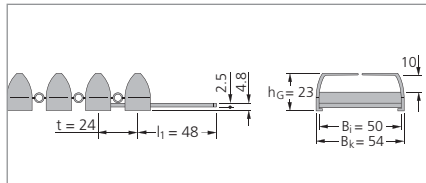
Type	$h_i$	$h_G$	$B_i$	$B_k$	For cable-Ø
P 0240 GS	10	23	50	54	3 – 9

Dimensions in mm



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## Connectors



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## PROTUM OFFICE – P 0240 GS

### Laying on both sides



■ Where more of space is needed, the take-up capacity can be doubled by laying the cables on both sides. In this case every second side-part is simply attached the other way round.

### Fast laying



■ Simple insertion of the cables.

Inside heights



Inside widths



### Application examples



■ Photographs: Haworth Büroeinrichtungen GmbH

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Font:  
+49 2762 4003-0

OnlineEngineer.de  
The Cable  
Cable Center Configurator



QUANTUM  
The power to innovate.

# QUANTUM

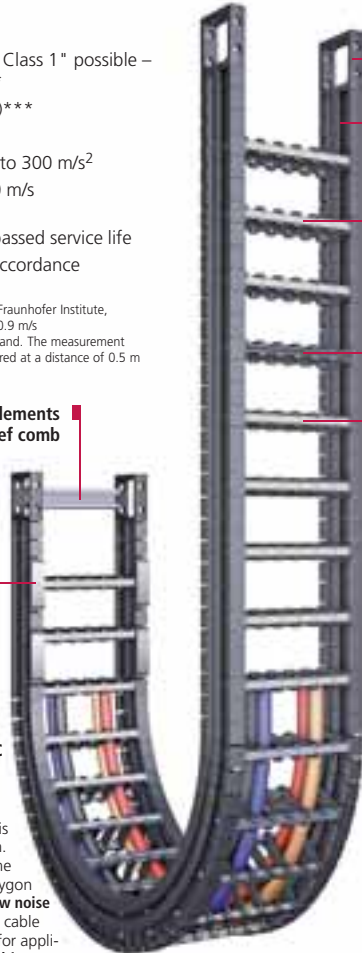
Light, extremely quiet and low-vibration for high speeds and accelerations\*

- **Suitable for clean rooms:**  
Clean room certification "Class 1" possible – no hinges, no link wear\*\*
- Extremely quiet, 31 db (A)\*\*\*
- Extremely lightweight
- For high accelerations up to 300 m/s<sup>2</sup>
- For travel speeds up to 40 m/s
- Very long service life:  
25 million cycles = unsurpassed service life
- TÜV design approved in accordance with 2PFG 1036/10.97

\*\* Tested: Q040.77.RE-70-1000 by the Fraunhofer Institute, travel speed V1 = 0.2 m/s and V2 = 0.9 m/s  
\*\*\* Tested: Q060.100.100 by TÜV Rheinland. The measurement area sound pressure level was measured at a distance of 0.5 m for uniform and jerky movement.

C-Rail for strain relief elements or strain relief comb

Replaceable glide shoes



Universal connectors (UMB)

Extremely low-noise and low-vibration operation

Aluminium stays available in 1 mm width sections

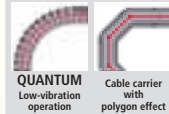
WIDTH SECTIONS



Plastic stays available in 8 or 16 mm width sections

Large choice of stay systems and ways of separating the cables

ALMOST NO POLYGON EFFECT



QUANTUM  
Low-vibration operation

Cable carrier with polygon effect

**Ideal for highly dynamic applications – extruded side bands**

The operation of the QUANTUM is extremely quiet and low-vibration. Due to the link-free design and the very small pitch, the so-called polygon effect is minimized. Due to the **low noise** during operation, the QUANTUM cable carrier system is optimally suited for applications with **low-vibration linear drives**.

**Suitable for clean rooms and long service life**

Extruded sidebands are installed. In contrast to conventional pin-hole joints, there is almost no wear (link wear), whereby QUANTUM is excellent for use in clean rooms.

**Extremely long service life due to**

- No link wear on pin-hole joints
- Special plastic and steel cables in the supporting base

Inside heights



Inside widths



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KABELSCHLEPP  
Cable Carrier Configurator



Ideal for highly dynamic applications



3D movements: The driver connection can move sideways and can be turned through up to ± 30 degrees



Side bands made of extruded special plastic and steel cables in the supporting base for extremely long service life



# Types Q 040, Q 060, Q 080 and Q 100

with plastic or aluminium stays

- Available in 1 mm width sections (aluminium stays)



- Available in 8 or 16 mm width sections (plastic stays)



Inside heights



Inside widths



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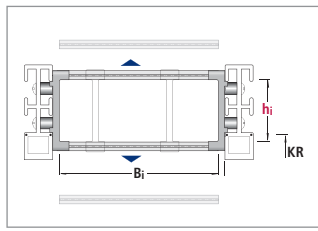
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Type	h <sub>i</sub>	B <sub>i</sub>	Maximum travel length in m	Dynamics of unsupported arrangement		Page
				Travel speed v <sub>max</sub> in m/s	Travel acceleration a <sub>max</sub> in m/s <sup>2</sup>	
Q 040	28	28-284	100	40	300	191
Q 060	42*	38-500	150	30	160	191
Q 080	58	50-600	180	25	100	191
Q 100	72	70-600	200	20	70	191

\* with stay variant RE

Dimensions in mm



## Stay variants

**Frame stay RS made of aluminium**  
Standard design – Q 060, Q 080, Q 100

For lightweight to medium loads.  
**Opening options:**  
**Outside/Inside:** can be opened quickly and easily simply by rotating the stays through 90°.



**Frame stay RV made of aluminium**  
Reinforced design – Q 080, Q 100

For medium to heavy loads and for large chain widths.  
**Opening options:**  
**Outside/Inside:** can be opened quickly and easily simply by rotating the stays through 90°.



**Frame stay RE made of plastic**  
Q 040, Q 060, Q 080, Q 100  
**Opening options:**  
**Outside/Inside:** simply by turning (through 90°).



## Types Q 040, Q 060, Q 080 and Q 100

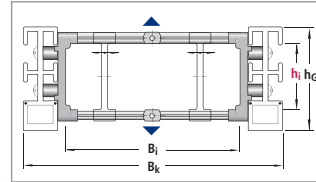
### Dimensions and intrinsic weight

"Hybrid designs" with aluminium stay systems

Type	Stay variant	h <sub>i</sub>	h <sub>G</sub>	B <sub>i</sub> min	q <sub>k</sub> min	B <sub>i</sub> max	q <sub>k</sub> max	B <sub>k</sub>
Q 060	RS	38	60	38	1.25	500	2.40	B <sub>i</sub> + 52
Q 080	RS	58	80	50	1.90	600	2.25	B <sub>i</sub> + 72
Q 080	RV	58	80	50	2.10	600	2.90	B <sub>i</sub> + 72
Q 100	RS	72	98	70	2.60	600	3.40	B <sub>i</sub> + 82
Q 100	RV	72	98	70	2.80	600	4.60	B <sub>i</sub> + 82

Dimensions in mm/Weights in kg/m

WIDTH SECTIONS



Inside heights



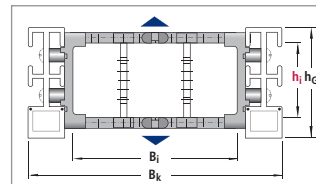
Inside widths



### "Plastic designs"

Type	Stay variant	h <sub>i</sub>	h <sub>G</sub>	B <sub>i</sub> min	q <sub>k</sub> min	B <sub>i</sub> max	q <sub>k</sub> max	B <sub>k</sub>	Width section
Q 040	RE	28	40	28	0.63	284	0.98	B <sub>i</sub> + 40	8
Q 060	RE	42	60	68	1.16	276	1.54	B <sub>i</sub> + 52	8
Q 080	RE	58	80	58	1.93	570	2.70	B <sub>i</sub> + 72	16
Q 100	RE	72	98	74	2.74	570	3.67	B <sub>i</sub> + 82	16

Dimensions in mm/Weights in kg/m



### Bend radius and pitch

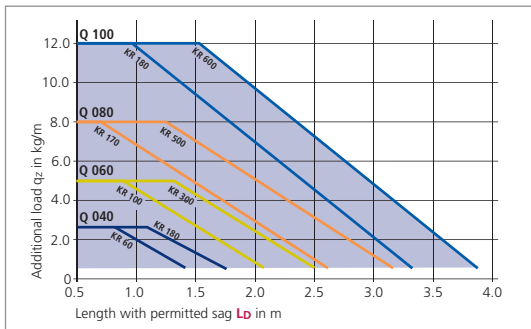
Type	Bend radii KR mm					
Q 040	60	75	90	110	150	180
Q 060	100	120	150	190	250	300
Q 080	170	200	250	320	420	500
Q 100	180	250	300	370	460	600

Pitch:

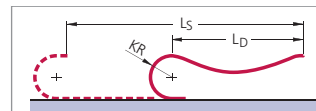
- Q 040: t = 15 mm
- Q 060: t = 20 mm
- Q 080: t = 25 mm
- Q 100: t = 30 mm

### Load diagram

for length with permissible (desired) sag L<sub>D</sub> depending on the additional load



Length with permissible sag L<sub>D</sub> and travel length L<sub>S</sub>



In the case of long travel lengths, the cable carriers are placed in a guide channel with the upper trough gliding on the lower trough (see page 301).

We are at your service to advise on these applications.

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### Example of ordering

Cable Carrier

Q 060 - 200 - RS - 150 - 1540

Type Inside width B<sub>i</sub> in mm Stay variant Bend radius KR in mm Chain length L<sub>k</sub> in mm (without connection)

Divider system

TS 0 / 2

Divider system Number of dividers n<sub>T</sub>

Connection

FU/MU

Connection Fixed point/Driver

### Ordering divider systems:

Please state the designation of the divider system (TS 0, TS 1 ...) and the number of dividers. Possibly attach a sketch with the dimensions.



# Types Q 040, Q 060, Q 080 and Q 100

## Divider system TS 0

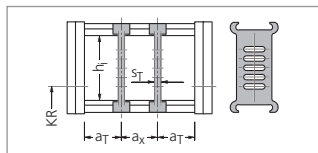
Inside heights



Inside widths



Type	Stay variant	h <sub>i</sub> mm	S <sub>T</sub> mm	a <sub>T</sub> min mm	a <sub>x</sub> min mm
Q 040	RE	28	2.8	8	8
Q 060	RS	38	3	13.5	13
Q 060	RE	42	4.2	14	13
Q 080	RS	58	4	11	14
Q 080	RV	58	4	11	14
Q 080	RE	58	6	12	14.5
Q 100	RS	72	5	11	14
Q 100	RV	72	6	13	16
Q 100	RE	72	8	12	14.5



Standard mounting distances of the divider systems:

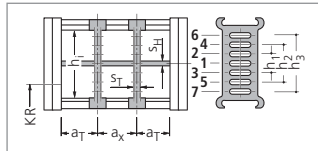
- Q 040, Q 060: on every 6th pitch division
- Q 080, Q 100: on every 8th pitch division

In the standard version, the dividers are movable.  
In the case of plastic stays (stay variant RE), the dividers can also be mounted fixed (note the mounting distances).

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## Divider system TS 1 with continuous height subdivision made of aluminium

Type	Stay variant	h <sub>i</sub> mm	S <sub>T</sub> mm	a <sub>T</sub> min mm	a <sub>x</sub> min mm	S <sub>H</sub> mm	h <sub>1</sub> mm	h <sub>2</sub> mm	h <sub>3</sub> mm
Q 040	RE	28	2.8	8	8	2.4	15	-	-
Q 060	RS	38	3	13.5	13	4	15	-	-
Q 060	RE	42	4.2	14	13	2	10	-	-
Q 080	RS	58	4	11	14	4	30	-	-
Q 080	RV	58	4	11	14	4	15	30	-
Q 080	RE	58	6	12	14.5	4	22	-	-
Q 100	RV	72	6	13	16	4	15	30	45
Q 100	RE	72	8	12	14.5	4	32	-	-



Standard mounting distances of the divider systems:

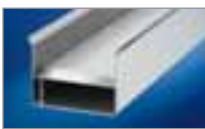
- Q 040, Q 060: on every 6th pitch division
- Q 080, Q 100: on every 8th pitch division

In the standard version, the dividers are movable.  
In the case of plastic stays (stay variant RE), the dividers can also be mounted fixed (note the mounting distances).

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Guide channels  
➤ from page 301



Strain relief devices  
➤ from page 307



Cables for cable carrier systems  
➤ from page 350



## Types Q 040, Q 060, Q 080 and Q 100

### Divider systems TS 2 and TS 3

Q 040 with divider system TS 2 with grid subdivision made of aluminium available in 8 mm section widths.

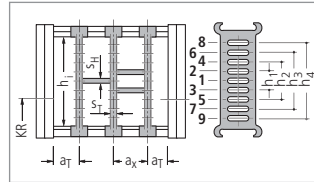
Q 060, Q 080 and Q 100 with divider system TS 3 with with section subdivision, partitions made of plastic  
For these types, divider system TS 2 with grid subdivision made of aluminium (1 mm grid) is also available.

Type	Stay variant	h <sub>i</sub> mm	S <sub>T</sub> mm	a <sub>T</sub> min mm	a <sub>x</sub> min mm	S <sub>H</sub> mm	h <sub>1</sub> mm	h <sub>2</sub> mm	h <sub>3</sub> mm	h <sub>4</sub> mm
Q 040 <sup>A)</sup>	RE	28	2,8	14	8	2,4	15	–	–	–
Q 060 <sup>B)</sup>	RS	38	8	11	16*	4	14	–	–	–
Q 060 <sup>B)</sup>	RE	42	8	11	16*	4	14	28	–	–
Q 080 <sup>B)</sup>	RV	58	8	8	16*	4	14	28	42	–
Q 080 <sup>B)</sup>	RE	58	8	8	16*	4	14	28	42	–
Q 100 <sup>B)</sup>	RV	72	8	8	16*	4	14	28	42	56

\* When using plastic partitions

A) Only fixed mounting of the divider is possible, and at 8 mm intervals (also see mounting version B in Chapter ME/MK).

B) The dividers are fixed by the partitions, the complete divider system is movable.



Standard mounting distances of the divider systems:

Q 040, Q 060: on every 6th pitch division

Q 080, Q 100: on every 8th pitch division

Inside heights

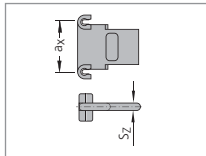


Inside widths



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### Dimensions of the plastic partitions for TS 3



S <sub>z</sub>	a <sub>x</sub> (center-to-center distance, dividers)									
4	16	18	23	28	32	33	38	43	48	58
	64	68	78	80	88	96	112	128	144	160
	176	192	208	–	–	–	–	–	–	–

Dimensions in mm

Aluminium partitions in 1 mm width sections are also available.

When using partitions with a<sub>x</sub> > 112 mm there should be an additional central support with a twin divider.

Twin dividers are designed for subsequent fitting in the partition system.

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## Gliding elements – the economical solution for gliding applications

### Replaceable glide shoes made of plastic\*

To extend the life of cable carriers in gliding operations KABELSCHLEPP supplies detachable, exchangeable glide shoes. Replaceable glide shoes are a very economical solution. When wear occurs only the glide shoes are replaced, and not the complete cable carrier.

\* not for Q 040

### Dimensions with glide shoe

Type	Height h <sub>G</sub> '	Width B <sub>EF</sub> '
Q 060	h <sub>G</sub> ' = h <sub>G</sub> + 6 = 66	B <sub>i</sub> + 56.0
Q 080	h <sub>G</sub> ' = h <sub>G</sub> + 8 = 88	B <sub>i</sub> + 79.5
Q 100	h <sub>G</sub> ' = h <sub>G</sub> + 10 = 108	B <sub>i</sub> + 89.5

Dimensions in mm



! By means of a positive snap connection, the glide shoes sit firmly on the chain link.

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Cable Carrier Configurator

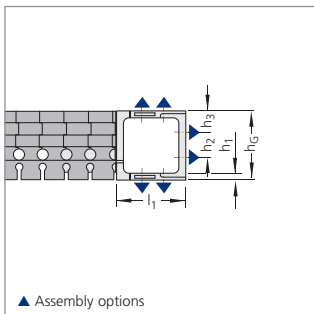
# Types Q 040, Q 060, Q 080 and Q 100

## UMB (Universal Mounting Brackets) made of aluminum

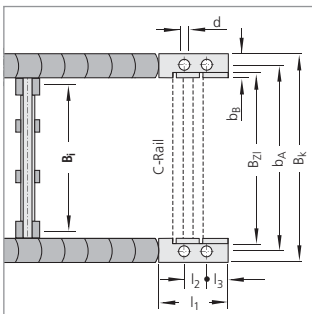
Inside heights



Inside widths

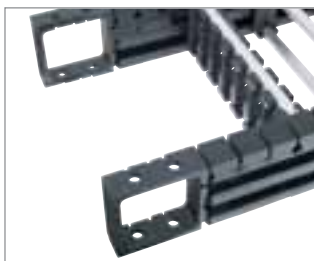


▲ Assembly options



The dimensions of the fixed point and driver connections are identical. The connecting elements make the last 3 pitch divisions at both ends of each sideband immobile. When ordering please specify the connection type FU/MU (see ordering key on page 343).

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### Connection dimensions:

Type	BzL	ba	Bk	d	l2	l3	l1	h1	h2	h3	hG	bB
Q 040	B <sub>i</sub> + 16	B <sub>i</sub> + 26	B <sub>i</sub> + 40	7	14	13.0	40	5	14	13.0	40	14
Q 060	B <sub>i</sub> + 18	B <sub>i</sub> + 32	B <sub>i</sub> + 52	7	25	17.5	60	5	25	17.5	60	20
Q 080	B <sub>i</sub> + 30	B <sub>i</sub> + 47	B <sub>i</sub> + 72	9	35	22.5	80	8	35	22.5	80	25
Q 100	B <sub>i</sub> + 30	B <sub>i</sub> + 52	B <sub>i</sub> + 82	11	35	32.5	100	10	35	31.5	98	30

Dimensions in mm

## Strain relief devices

### Strain relief comb made of aluminum on one side (QUANTUM 040, 060)

The cables can be fixed securely and simply using the **optional strain relief combs**. The strain relief combs are installed between the UMBS, and do not need to be bolted on separately or mounted on a C-Rail.

Please state on the order whether strain relief combs are needed.



■ Strain relief comb made of Aluminum

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## Types Q 040, Q 060, Q 080 and Q 100

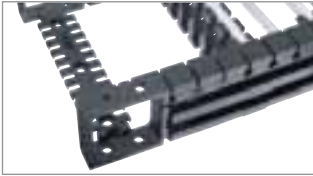
### Strain relief devices

#### Strain relief combs made of plastic on both sides (QUANTUM 060)

The cables can be fixed securely and simply using the **optional strain relief combs**.

The strain relief combs are installed between the UMBs, and do not need to be bolted on separately or mounted on a C-Rail.

**Please state on the order whether strain relief combs are needed.**



■ Universal mounting bracket with strain relief comb

■ Both-sided strain relief comb

Type	B <sub>i</sub> mm	n <sub>z</sub>
Q 060	44	5
Q 060	49	5
Q 060	69	7
Q 060	74	7
Q 060	89	8
Q 060	94	9
Q 060	99	9
Q 060	119	11

Type	B <sub>i</sub> mm	n <sub>z</sub>
Q 060	124	11
Q 060	144	13
Q 060	149	13
Q 060	169	15
Q 060	174	15
Q 060	199*	17
Q 060	224*	19

n<sub>z</sub> = Number of teeth on one side of the comb  
\* on request

Inside heights



Inside widths



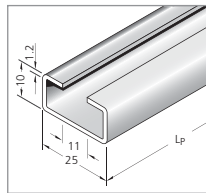
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### C-rails for LineFix bracket clamps, SZL strain reliefs and clamps

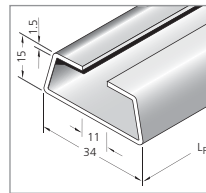
The optional C-rails are fixed by means of the universal mounting brackets and do not have to be screwed separately. **Please state in your order whether C-rails are needed.**



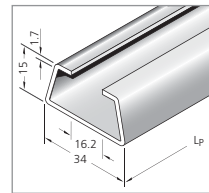
■ Universal mounting bracket with C-rail



■ **QUANTUM 060:**  
Integratable C-rail  
25 x 10 mm,  
slit width 11 mm,  
material steel,  
Item-No. 3931



■ **QUANTUM 080, 100:**  
Integratable C-rail  
34 x 15 mm,  
slit width 11 mm,  
material steel,  
Item-No. 3935



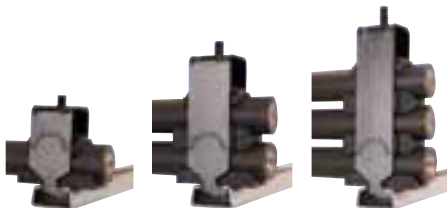
■ **QUANTUM 080, 100:**  
Integratable C-rail  
34 x 15 mm,  
slit width 16 – 17 mm,  
material aluminium,  
Item-No. 3926,  
material steel,  
Item-No. 3932

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Our LineFix strain reliefs are optimally suited for the C-rails. (LineFix bracket clamps and other strain relief devices – see Accessories chapter, from page 307 onwards).



■ C-rail with LineFix strain relief



QuickTrax  
the power to innovate



# QuickTrax

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

- Extremely fast and easy cable laying thanks to crossbar with film hinge
- Very quiet thanks to integrated noise damping system
- Stable chain construction
- Extensive unsupported length
- High torsional rigidity



Inside height

20

Inside widths

15

50

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 with KABELSCHLEPP  
 Cable Carrier Configurator



Easy to open



High side stability



Reliable cable separation

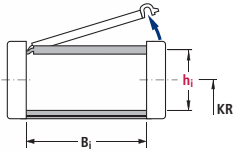
Overview QuickTrax

Design 030 with outward opening brackets

Inside height



Inside widths



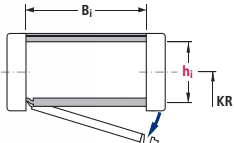
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Type	hi	Bi	Maximum travel length in m	Dynamics of unsupported arrangement		Page
				Travel speed v <sub>max</sub> in m/s	Travel acceleration a <sub>max</sub> in m/s <sup>2</sup>	
QT 0320.030	20	15-50	80	10	50	82

Dimensions in mm

Design 040 with inward opening brackets

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Type	hi	Bi	Maximum travel length in m	Dynamics of unsupported arrangement		Page
				Travel speed v <sub>max</sub> in m/s	Travel acceleration a <sub>max</sub> in m/s <sup>2</sup>	
QT 0320.040	20	15-50	80	10	50	82

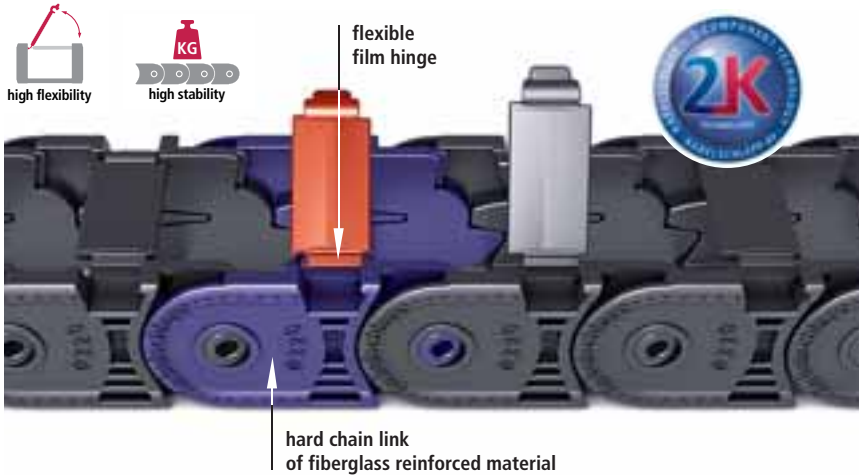
Dimensions in mm

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## The 2-shot-technology of QuickTrax 0320

The 2-shot-technology of **QuickTrax 0320** makes it possible to unite seemingly non-integral characteristics: **Ruggedness and Flexibility**.

Cable carriers should be very rugged and have an extensive supporting length. At the same time they should afford quick and easy set-up. **QuickTrax 0320** unites these qualities through an innovative design and the materials combination of hard chain elements made of fiberglass reinforced material with crossbars with film hinges made of specially formulated flexible synthetics/plastics.



Inside height



Inside widths



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### Hand opening – opening and closing even without tools

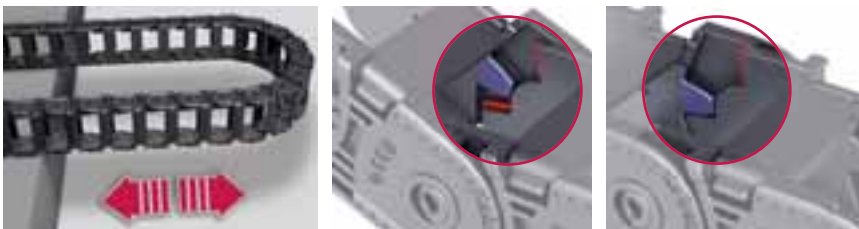
Thanks to their special shaping and flexible material, the crossbars can be **unlocked very easily by hand**. They can also be opened just as easily with a screwdriver. The crossbars are connected to the carrier by a film hinge so that they cannot be lost, and thus remain attached to the chain link even when they are open.



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### High side stability through locking in the stroke system

The stops are locked in the bend radius stop and pretension stop. This prevents snapping out in these areas and achieves very high lateral stability.



# Type QT 0320

Inside height



Inside widths



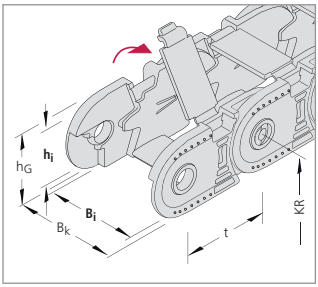
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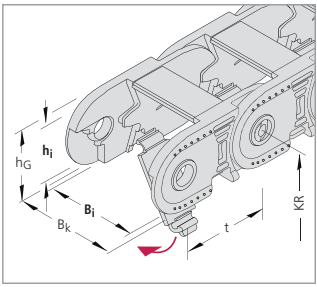
## Design 030

Outside: Hinged, openable brackets



## Design 040

Inside: Hinged, openable brackets



### Dimensions and intrinsic chain weight

Type	h <sub>i</sub>	h <sub>G</sub>	Inside widths B <sub>i</sub>				B <sub>k</sub>
			Intrinsic chain weight				
QT 0320	20	25.5	15*	25	38	50*	B <sub>i</sub> + 12
			0.18	0.28	0.42	0.55	

\* on request

Dimensions in mm/Weights in kg/m

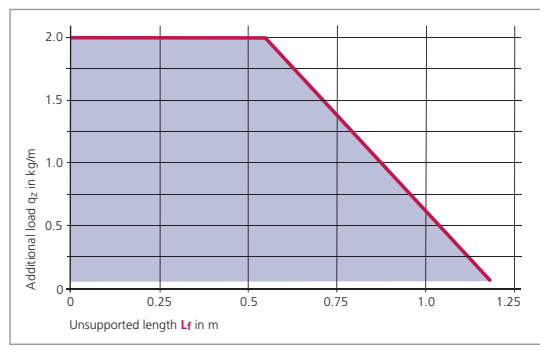
### Bend radius and pitch

Bend radii KR mm					Pitch t = 32.0 mm
28	38	48	75	100*	

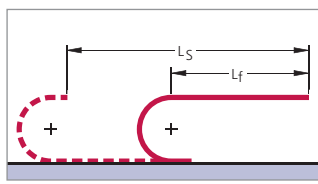
\* on request

### Load diagram

for unsupported length L<sub>f</sub> depending on the additional load



### Unsupported length L<sub>f</sub>



In the case of longer travel lengths, sag of the cable carriers is technically permissible depending on the application.

In a gliding arrangement, even longer travel lengths are possible (see page 301).

We are at your service to advise on these applications.

### Example of ordering

<b>Cable carrier</b>					<b>Divider system</b>		<b>Connection</b>
QT 0320	030	38	48	640	TS 0	1	FA/MA
Type	Design	Inside width B <sub>i</sub> in mm	Bend radius KR in mm	Chain length L <sub>k</sub> in mm (without connection)	Divider system	Number of dividers n <sub>T</sub>	Connection Fixed point/Driver

#### Ordering divider systems:

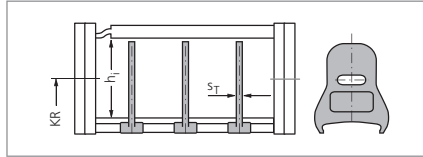
Please state the designation of the divider system (TS 0, TS 1 ...) and the number of dividers. Possibly attach a sketch with the dimensions.

## Type QT 0320

### Divider system TS 0

Type	$h_i$ mm	$S_T$ mm
QT 0320	20	2

The dividers can be moved in the cross section.



In the standard version, the divider systems are mounted on every second chain link.



Inside height



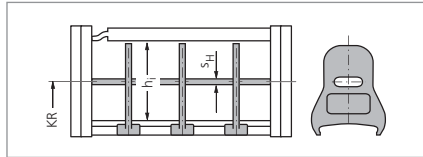
Inside widths



### Divider system TS 1 with continuous height subdivision made of aluminium

Type	$h_i$ mm	$S_T$ mm	$S_H$ mm
QT 0320	20	2	2.4

The dividers can be moved in the cross section.



In the standard version, the divider systems are mounted on every second chain link.



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Cable Carriers  
Cable Carrier Configurator

# Type QT 0320

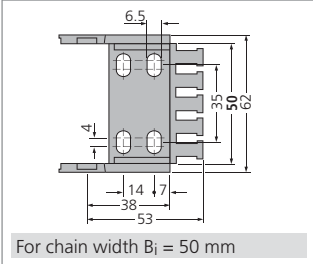
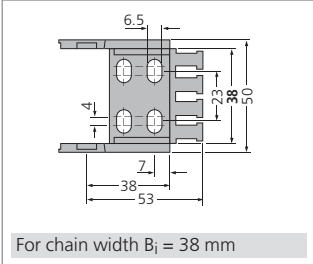
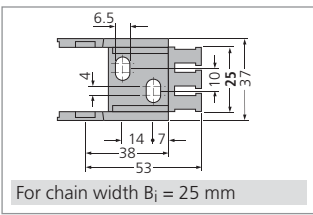
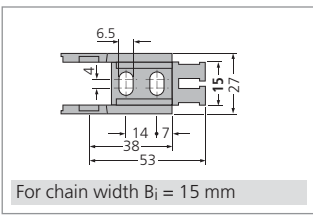
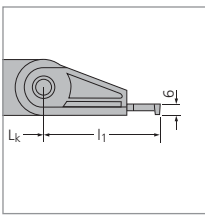
## Connection dimensions

Plastic connectors with integrated strain relief

Inside height



Inside widths



The dimensions of the fixed point and driver connections are identical.

Type	$B_i$	$B_k$	$n_z$
QT 0320 ... .15	15	27	2
QT 0320 ... .25	25	37	3
QT 0320 ... .38	38	50	4
QT 0320 ... .50	50	62	5

Dimensions in mm



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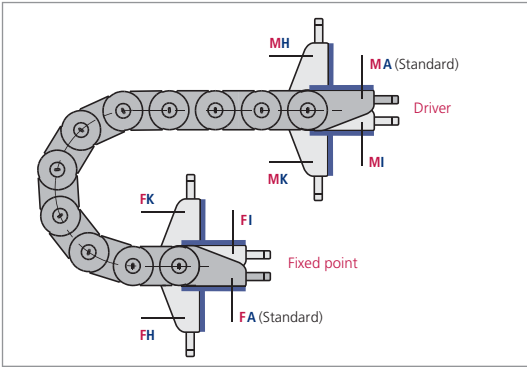
Mounting brackets without a strain relief comb are also available – please contact us.





## Type QT 0320

### Connection variants



In the standard version, the connectors are mounted with the threaded joint outwards (**FA/MA**).

When ordering please specify the desired connection type (see ordering key on page 339).

The connection type can subsequently be altered simply by varying the connectors.

#### Connection point

- M** – Driver
- F** – Fixed point

#### Connection type

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



Inside height



Inside widths

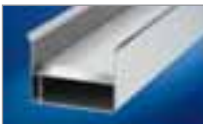


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with Cable  
Carrier Configurator

Guide channels  
▶ from page 301



Strain relief devices  
▶ from page 307



Cables for cable carrier systems  
▶ from page 350



# ROBOTRAX

The power to innovate



# 3D-LINE – ROBOTRAX

## Cable carriers for 3D movements

- For three-dimensional movements
- Can be deployed on robots for swiveling and rotational movements:  
The same system for robot feet and arms
- With channel system, it is a universal solution for rotary applications
- Also ideally suited for rotary tables
- Optimum system for long service life of the cables:
  - The minimum bend radius can be maintained
  - The cables are cleanly isolated in three separate chambers

Special plastic for long service life

Easy fastening on every chain link with quick-opening mounting bracket possible



Steel cable for transmission of extremely large tensile forces

- Open design
  - Fast cable laying by simple pressing in of the cables – no threading through is necessary
  - Simple inspection of all the cables



Protective covers or heat shields made of different materials are available for different environmental conditions



Inside heights



Inside widths



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### ROBOTRAX accessories



Impact protection



Chucking device



LineFix saddle-type clamps for strain relief\*



Bend radius determiner



Quick-opening bracket on a rotary plate



Quick-opening bracket on a helical spring

## ROBOTRAX – cable carrier for 3D movements

### Design principle

Inside heights

10  
—  
31

Inside widths

27  
—  
64



#### Chain links

The basic structure of ROBOTRAX consists of plastic links.

These have ball and socket style snap-together connectors on both sides. The individual links can thus be snapped together to form a cable carrier.

Internal bend radius stoppers ensure that the minimum bend radius is maintained in all directions.

Radial link rotation movement is also possible (see table).



#### Steel wire and shim bolts

When the robot arms are moving quickly, high accelerations occur, exerting high pulling forces on the cable carrier.

To be able to transmit these pulling forces ROBOTRAX has a hole in the middle of every chain link, through which a steel wire is drawn. This steel wire adopts the role of force transmission. The steel wire has a shim bolt attached to each end. As a result ROBOTRAX can achieve accelerations up to 10 g and higher.

#### Long service life of the cables and hoses:

The forces are transmitted by the cable carrier and not by the cables and hoses.



#### Quick-opening mounting brackets

The fixing and further guidance of the ROBOTRAX (on the arms of the robot) is achieved by means of quick-opening mounting brackets, fastened with two screws.

The quick-opening mounting brackets fit any chain link.

The fastening points can therefore be individually matched to the movement sequence of the robot.



#### Quickly opened:

Simply unlock the lynch pin, pull it out and open the quick-opening mounting bracket.

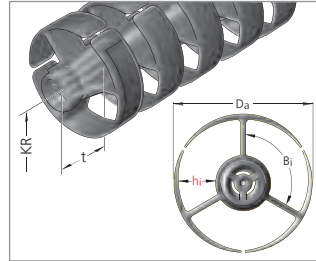
## ROBOTRAX – cable carrier for 3D movements

### Dimensions

#### Dimensions of ROBOTRAX cable carrier

Type	R 040	R 056	R 075	R 085	R 100
For cable-Ø	2 – 8.5	2 – 11	3 – 18	3 – 20	3 – 27
Bend radius	80	115	145	175	195
Radial link rotation over 1 m length	± 450°	± 300°	± 215°	± 215°	± 215°
D <sub>a</sub>	40	56	75	85	100
B <sub>i</sub>	27	39	52	54	64
h <sub>i</sub>	10	14	22	24	31
t	21.5	32	40	40	40

Dimensions in mm



Inside heights



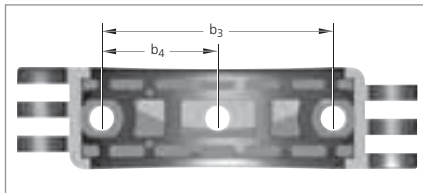
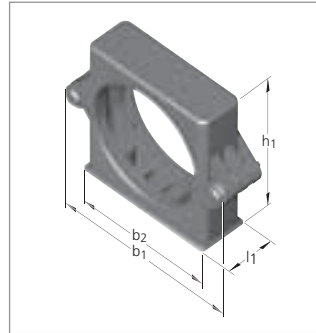
Inside widths



#### Dimensions of ROBOTRAX quick-opening bracket

Type	R 040	R 056	R 075	R 085	R 100
h <sub>1</sub>	54	70	86	105	120
l <sub>1</sub>	15	22	28	30	32
b <sub>1</sub>	82	86	110	133	150
b <sub>2</sub>	50	63	82	96	112
b <sub>3</sub>	36	48	64	72	70
b <sub>4</sub>	18	24	32	36	35

Dimensions in mm



#### Screwing of the quick-opening bracket:

- R 040, R 056 with M4 hexagonal screws
- R 075 with M6 hexagonal screws
- R 085, R 100 with M8 hexagonal screws

### Example of ordering

Cable carrier			
R 075	·	010	-
		145	-
			1000
Type		Design*	
		Bend radius KR in mm	Chain length L <sub>k</sub> in mm (without connection)

\* Design 010 (simple insertion of the cables)

Ordering accessories: please state separately.

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 Cable Carrier Configurator

## ROBOTRAX – accessories

Inside heights

10  
—  
31

Inside widths

27  
—  
64



### Impact protection

When a robot is moving, a striking of the ROBOTRAX against machine components often cannot be avoided.

An impact protective device made of elastomer plastic can easily be attached to each link using a cable tie.



### Heat shield/Protective sleeve

**Heat shield:** The heat shield, made of aluminium-coated textile fiber, protects the cable carrier and the cables within from flying sparks. A heat shield is recommended where there are flying sparks.

**Protective sleeve:** The protective sleeve made of layered polyester offers protection against aggressive cutting and hydraulic oils as well as from fine dusts and paint sprays (not illustrated).



### Chucking device

This can be used to set the steel wire to the desired tension quickly and easily, and can be readjusted at any time.



### Strain relief

For securing the cables and hoses.

(A strain relief device cannot be used on the same end of the ROBOTRAX as a chucking device.)



### Strain relief with LineFix saddle-type clamps LFR

(for types R075, R085 and R100)

For secure and gentle cable fixing.

Multilayer strain relief with double and triple clamps possible. Multiple systems can also be mounted one behind the other.



## ROBOTRAX – accessories



### Active pull back mechanism

Rapid, repetitive movements of relatively long cable carrier systems in large operating envelopes, constantly hitting the robot arm, are to blame for reducing the service life of the carrier and installed cables. This can lead to a failure of the overall robotic system with expensive downtime and production outages – system failure must be prevented.

Inside heights



Inside widths



### Bend radius determiner

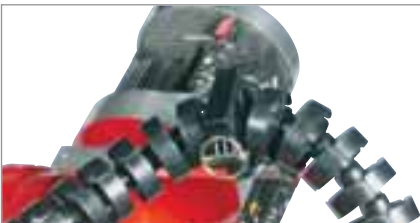
This is used to achieve larger bend radii than the standard bend radius, e.g. in order to maintain the minimum bend radius of the cables.



### Quick-opening bracket mounted on a rotary plate

Yet one more degree of freedom on the fastening points.

The quick-opening mounting bracket can also rotate on a rotary plate, thus providing greater flexibility when the robot is performing complex movements.



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### Quick-opening bracket on a helical spring

If the bracket is mounted on a helical spring, it can give elastically in all directions, swivel, swing out in 3 dimensions and spring back into place again.



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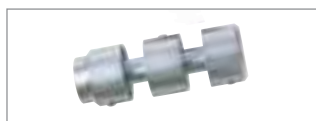
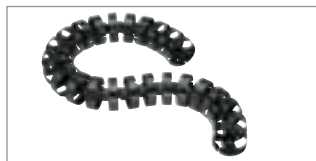
## ROBOTRAX – cable carrier for 3D movements

### Part numbers for ordering

Inside heights



Inside widths



### Mounted chain links

Type	R 040	R 056	R 075	R 085	R 100
Bend radius	80	115	145	175	195
Number of links	47	31	25	25	25
Part no.	60301	60401	60501	60601	60701

### Quick-opening bracket for ROBOTRAX

Type	R 040	R 056	R 075	R 085	R 100
Part no.	260410	260510	260110	260210	260310

### Shim bolts – 2 pieces (one pair)

Type	R 040	R 056	R 075	R 085	R 100
Part no.	260420	260520	260220	260220	260320

### Steel wire – Please specify total length or partial lengths

Type	R 040	R 056	R 075	R 085	R 100
Ø	1.8	2.5	3.0	3.0	4.0
Part no.	60583	60584	60580	60580	60581

### Strain relief – 1 piece

Type	R 040	R 056	R 075	R 085	R 100
Part no.	60658	60657	60659	60659	60659

### Locating bolt for LineFix strain relief LFR – 1 piece

Type	R 075	R 085	R 100
Part no.	60669	60669	60669

LineFix strain relief – see page 302.

### Chucking device set – 1 chucking device and 1 shim bolt

Type	R 040	R 056	R 075	R 085	R 100
Part no.	260430	260530	260230	260230	260330

### Impact protection

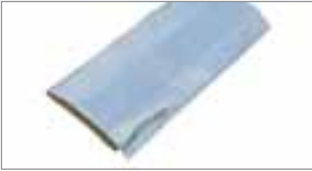
Type	R 075	R 085	R 100
Part no.	260120	260240	260340

Packing unit: 5 complete items  
consisting of: 10 semi-circular shells and 5 cable ties



## ROBOTRAX – cable carrier for 3D movements

### Part numbers for ordering



#### Heat shield/Protective sleeve

Type	R 040	R 056	R 075	R 085	R 100
Heat shield	60801	60802	60803	60804	60805
Protective sleeve (not illustrated)	60806	60807	60808	60809	60810

Please specify total length or partial lengths.

#### Inside heights



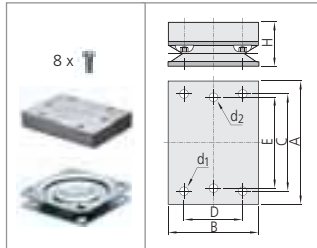
#### Inside widths



#### Bend radius determiner

Type	R 075	R 085	R 100
Part no. 60830	160	230	280
Part no. 60831	190	265	310
Part no. 60832	220	300	340
Part no. 60833	250	335	370
Part no. 60834	280	370	400
Part no. 60835	310	405	430
Part no. 60836	340	440	460
Part no. 60837	370	475	490
Part no. 60838	400	510	520
Part no. 60839	430	545	550

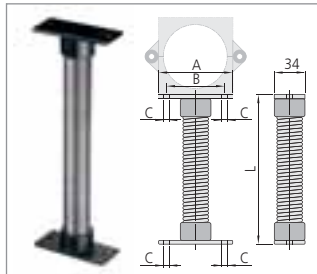
Dimensions in mm



#### Rotary plate for quick-opening bracket

Type	R 040	R 056	R 075	R 085	R 100
A	57	65	82	96	112
B	57	57	57	70	70
C	43	43	43	75	75
D	43	43	43	45	45
E	36	48	64	72	70
H	25	25	25	34	34
d <sub>1</sub>	M6	M6	M6	M6	M6
d <sub>2</sub>	M4	M4	M6	M8	M8
Part no.	260580	260590	260550	260560	260570

Appropriate screws are supplied with the rotary plate. Dimensions in mm



#### Helical spring for quick-opening bracket

Type	R 040	R 056	R 075	R 085	R 100
A	52	64	82	96	112
B	36	48	64	72	70
C	5	5	6.5	8.5	8.5
Length L = 110 mm Part no.	260600	260620	–	–	–
Length L = 150 mm Part no.	260610	260630	–	–	–
Length L = 165 mm Part no.	–	–	60816	60820	60824
Length L = 190 mm Part no.	–	260640	–	–	–
Length L = 230 mm Part no.	–	–	60817	60821	60825
Length L = 315 mm Part no.	–	–	60818	60822	60826
Length L = 465 mm Part no.	–	–	60819	60823	60827

Dimensions in mm

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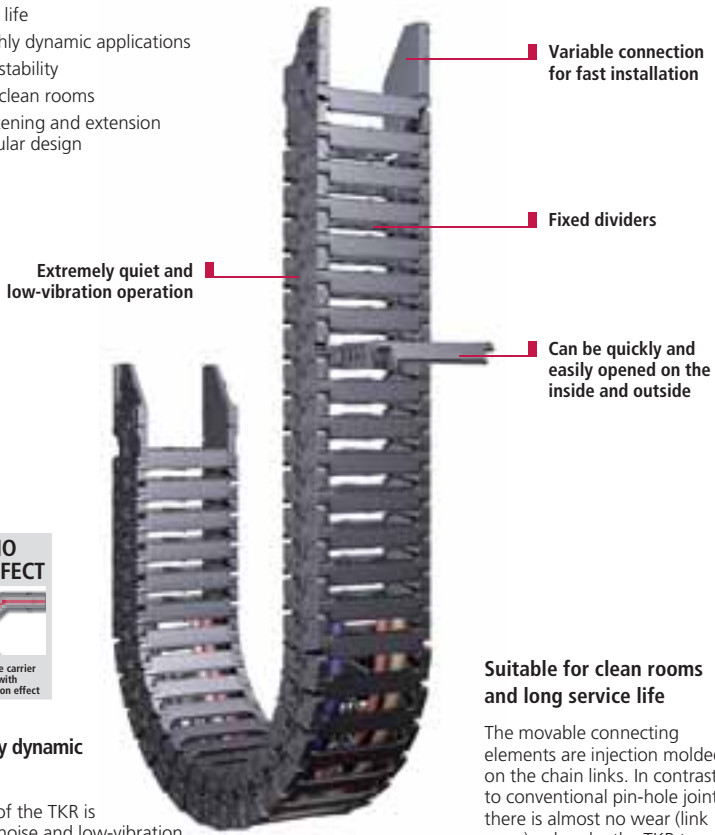
IKR  
the power to innovate



# TKR

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

- Long service life
- Ideal for highly dynamic applications
- High lateral stability
- Suitable for clean rooms
- Simple shortening and extension due to modular design



Inside height

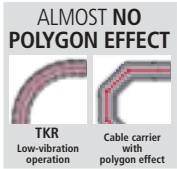


Inside widths



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### Ideal for highly dynamic applications

The operation of the TKR is extremely low-noise and low-vibration. The so-called polygon effect is minimized. Optimum uses are especially handling and installation systems, robots, measuring equipment, automatic pick and place systems, printing and textile machines. Due to their **low noise** during operation, the TKR types are optimally suitable for applications with **low-vibration linear drives**.

### Suitable for clean rooms and long service life

The movable connecting elements are injection molded on the chain links. In contrast to conventional pin-hole joints, there is almost no wear (link wear), whereby the TKR types are excellent for use in clean rooms. The special shaping of the connecting elements also increases the service life of the system.



Ideal for highly dynamic applications



Variable connection with rotatable connectors



The modular design makes it easy to shorten and lengthen



Injection molded connecting elements

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Subject to change.

\* Some features can be different for certain types for design reasons. Our specialists are happy to advise you.

## TKR 0150, 0200, 0260 and 0280

## Solid plastic cable carrier



Inside height

$$\begin{matrix} 22 \\ | \\ 52 \end{matrix}$$

Inside widths

$$\begin{matrix} 20 \\ | \\ 150 \end{matrix}$$

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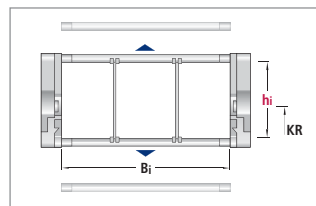
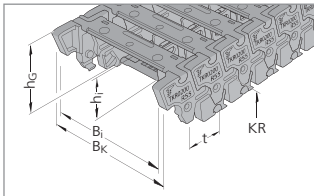
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198

Type	$h_i$	$B_i$	Maximum travel length unsupported in m	Dynamics of unsupported arrangement		Page
				Travel speed* $v_{max}$ in m/s	Travel acceleration* $a_{max}$ in m/s <sup>2</sup>	
TKR 0150	22	20-60	1.77	5	200	199
TKR 0200	28	40-120	2.76	5	200	199
TKR 0260	40	75-150	3.95	5	200	199
TKR 0280	52	75-150	4.94	5	200	199

\* Possible maximum values: Please contact us.

Dimensions in mm



## Dimensions and intrinsic weight

Type	$h_i$	$h_G$	Inside width $B_i$						$B_k$
			Intrinsic chain weight						
TKR 0150	22	27.5	20	40	60	–	–	–	$B_i + 14$
			0.3	0.4	0.5	–	–	–	
TKR 0200	28	35.0	40	50	60	80	100	120	$B_i + 16$
			0.6	0.6	0.7	0.8	0.9	1.0	
TKR 0260	40	54.0	75	100	150	–	–	–	$B_i + 26$
			1.7	1.9	2.3	–	–	–	
TKR 0280	52	66.0	75	100	150	–	–	–	$B_i + 30$
			2.2	2.4	2.8	–	–	–	

Dimensions in mm/Weights in kg/m

## Bend radius and pitch

Type	Bend radii KR mm			
TKR 0150	40	50	75	–
TKR 0200	55	75	95	150
TKR 0260	75	100	125	150
TKR 0280	75	100	150	200

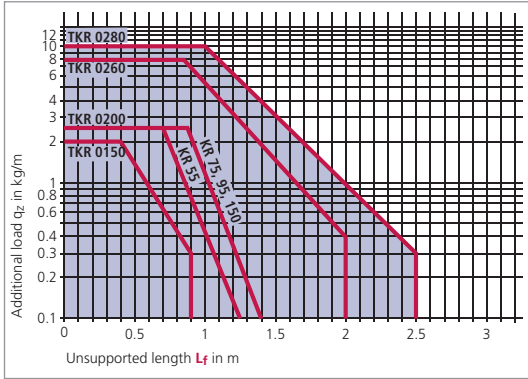
Pitch:

 TKR 0150:  $t = 15$  mm  
 TKR 0200:  $t = 20$  mm  
 TKR 0260:  $t = 26$  mm  
 TKR 0280:  $t = 28$  mm

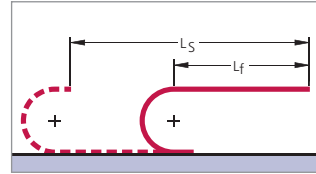
## TKR 0150, 0200, 0260 and 0280

### Load diagram

for unsupported length  $L_f$  depending on the additional load



### Unsupported length $L_f$



In the case of longer travel lengths, sag of the cable carriers is technically permissible depending on the application. We are at your service to advise on these applications.

Inside height

22  
—  
52

Inside widths

20  
—  
150

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### Divider system TS 0 (Type TKR 0200)

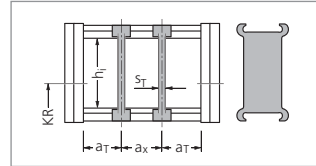
Type	$h_i$ mm	$S_T$ mm	$a_T$ min* mm	$a_x$ min mm	$a_x$ section mm
TKR 0200	28	2	14/15/16	8	4

\*  $a_T$  min = 14 mm for  $B_i = 60, 100$   
 $a_T$  min = 15 mm for  $B_i = 50$   
 $a_T$  min = 16 mm for  $B_i = 40, 80, 120$



The dividers are fixed in the cross section.

■ Fixed dividers



In the standard version, the divider systems are mounted on every second chain link.

### Divider system TS 1 (Type TKR 0200)

with continuous height subdivision made of aluminium

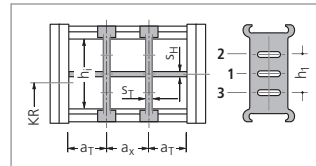
Type	$h_i$ mm	$S_T$ mm	$a_T$ min* mm	$a_x$ min mm	$S_H$ mm	$h_1$ mm	$a_x$ section mm
TKR 0200	28	2	14/15/16	8	4	13	4

\*  $a_T$  min = 14 mm for  $B_i = 60, 100$   
 $a_T$  min = 15 mm for  $B_i = 50$   
 $a_T$  min = 16 mm for  $B_i = 40, 80, 120$



The dividers are fixed in the cross section.

■ Fixed dividers



In the standard version, the divider systems are mounted on every second chain link.

### Example of ordering

Cable Carrier	Divider system	Connection
TKR 0200 - 100 - 95 - 800	TS 0 / 3	FA/MA
Type	Divider system	Connection
Inside width $B_i$ in mm	Number of dividers $n_T$	Fixed point/Driver
Bend radius KR in mm		
Chain length $L_k$ in mm (without connection)		

### Ordering divider systems:

Please state the designation of the divider system (TS 0, TS 1 ...) and the number of dividers. Possibly attach a sketch with the dimensions.

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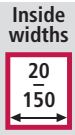
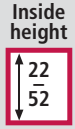
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# TKR 0150, 0200, 0260 and 0280

## Fixing the dividers (Type TKR 0150, 0260, 0280)

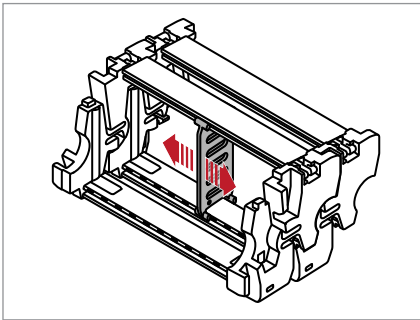
In the standard version, dividers or the complete divider system (dividers with heightseparation) can be moved in the cross section. (Mounting version A)

Fixed dividers are available for applications with transverse accelerations and where the carrier is rotated through 90° (Version B). If the fixed installation version is desired, please state this on the order.



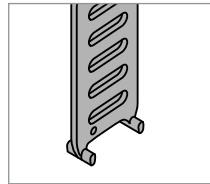
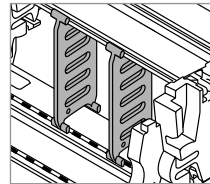
### Version A (Standard)

Movable divider



### Version B

Fixed divider



■ Locking profile in the crossbar

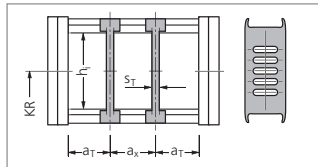
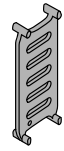
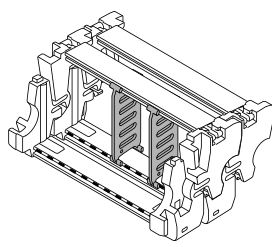
■ Divider with arresting cams

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## Divider system TS 0 (Type TKR 0150, 0260, 0280)

Type	h <sub>i</sub> mm	Version A			Version B			
		S <sub>T</sub> mm	a <sub>T</sub> min mm	a <sub>x</sub> min mm	S <sub>T</sub> mm	a <sub>T</sub> min mm	a <sub>x</sub> min mm	a <sub>x</sub> section mm
0150	22	2.0	5.0	6.0	2.0	6.0	6.0	2.0
0260	40	2.4	3.0	6.0	2.4	5.5/6.0/7.0*	8.0	4.0
0280	52	2.4	3.0	6.0	2.4	5.5/6.0/7.0*	8.0	4.0

\* a<sub>T</sub> min = 5.5 mm for B<sub>i</sub> = 75      a<sub>T</sub> min = 6.0 mm for B<sub>i</sub> = 100  
 a<sub>T</sub> min = 7.0 mm for B<sub>i</sub> = 150



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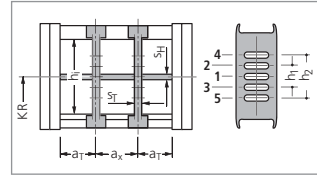
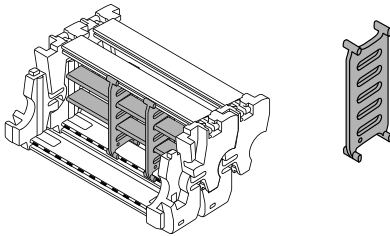
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## TKR 0150, 0200, 0260 and 0280

Divider system TS 1 (Type TKR 0150, 0260, 0280)  
with continuous height subdivision made of aluminium

Type	Version A				Version B				$S_H$ mm	$h_1$ mm	$h_2$ mm
	$h_i$ mm	$S_T$ mm	$a_T$ min mm	$a_x$ min mm	$S_T$ mm	$a_T$ min mm	$a_x$ min mm	$a_x$ section mm			
0150	22	2.0	5.0	6.0	2.0	6.0	6.0	2.0	2.6	—	—
0260	40	2.4	3.0	6.0	2.4	5.5/6.0/7.0*	8.0	4.0	2.6	14	28
0280	52	2.4	3.0	6.0	2.4	5.5/6.0/7.0*	8.0	4.0	2.6	18	36

\*  $a_T$  min = 5.5 mm for  $B_i = 75$        $a_T$  min = 6.0 mm for  $B_i = 100$   
 $a_T$  min = 7.0 mm for  $B_i = 150$



Inside height



Inside widths

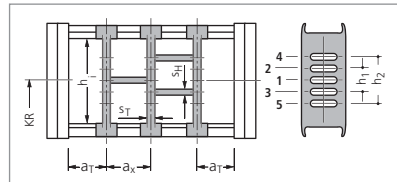


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Divider system TS 3 (Type TKR 0260, 0280)  
with section subdivision, partitions made of aluminium

Type	Version A				Version B				$S_H$ mm	$h_1$ mm	$h_2$ mm
	$h_i$ mm	$S_T$ mm	$a_T$ min mm	$a_x$ min mm	$S_T$ mm	$a_T$ min mm	$a_x$ min mm	$a_x$ section mm			
0260	40	6.0	3.0	6.0	6.0	5.5/6.0/7.0*	8.0	4.0	4.0	14	28
0280	52	6.0	3.0	6.0	6.0	5.5/6.0/7.0*	8.0	4.0	4.0	18	36

\*  $a_T$  min = 5.5 mm for  $B_i = 75$        $a_T$  min = 6.0 mm for  $B_i = 100$   
 $a_T$  min = 7.0 mm for  $B_i = 150$



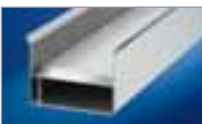
In the standard version, the divider systems are mounted on every second chain link.

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Guide channels  
 ▶ from page 301



Strain relief devices  
 ▶ from page 307



Cables for cable carrier systems  
 ▶ from page 350

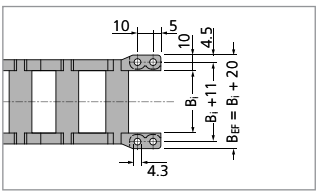
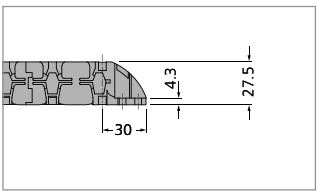


# TKR 0150, 0200, 0260 and 0280

## Plastic connectors (Type TKR 0150)

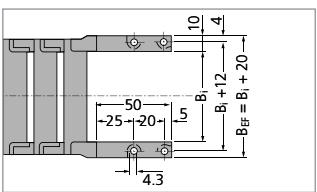
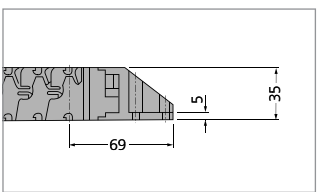
Inside height  
 22  
 52

Inside widths  
 20  
 150



The dimensions of the fixed point and driver connections are identical.

## Plastic connectors (Type TKR 0200)

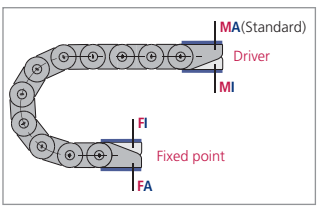


The dimensions of the fixed point and driver connections are identical.

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## Connection variants (Type TKR 0150 and 0200)



### Connection point

- M – Driver
- F – Fixed point

### Connection type

- A – Threaded joint outside (standard)
- I – Threaded joint, inside

## Easy rotation of the connectors for inside and outside connection (Type TKR 0150 and 0200)



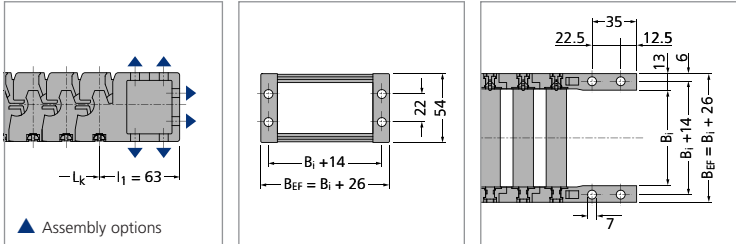
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## TKR 0150, 0200, 0260 and 0280

### UMB (Universal Mounting Brackets) made of plastic (Type TKR 0260)

With plastic UMBs you can easily connect the TKR from above, from below, or at head height.



The dimensions of the fixed point and driver connections are identical.

Inside height

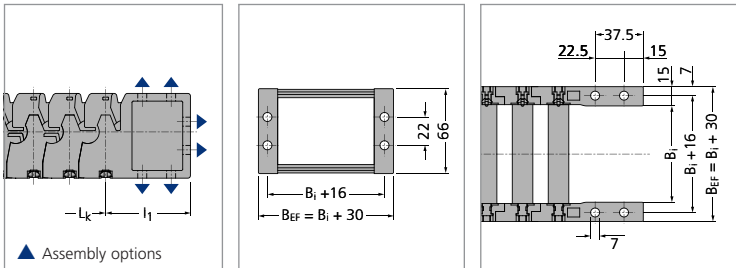
22  
52

Inside widths

20  
150

### UMB (Universal Mounting Brackets) made of plastic (Type TKR 0280)

With plastic UMBs you can easily connect the TKR from above, from below, or at head height.



$l_1$  Fixed point = 66 mm

$l_1$  Driver = 70 mm

The other dimensions of the fixed point and driver connections are identical.

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# UNIFLEX Advanced

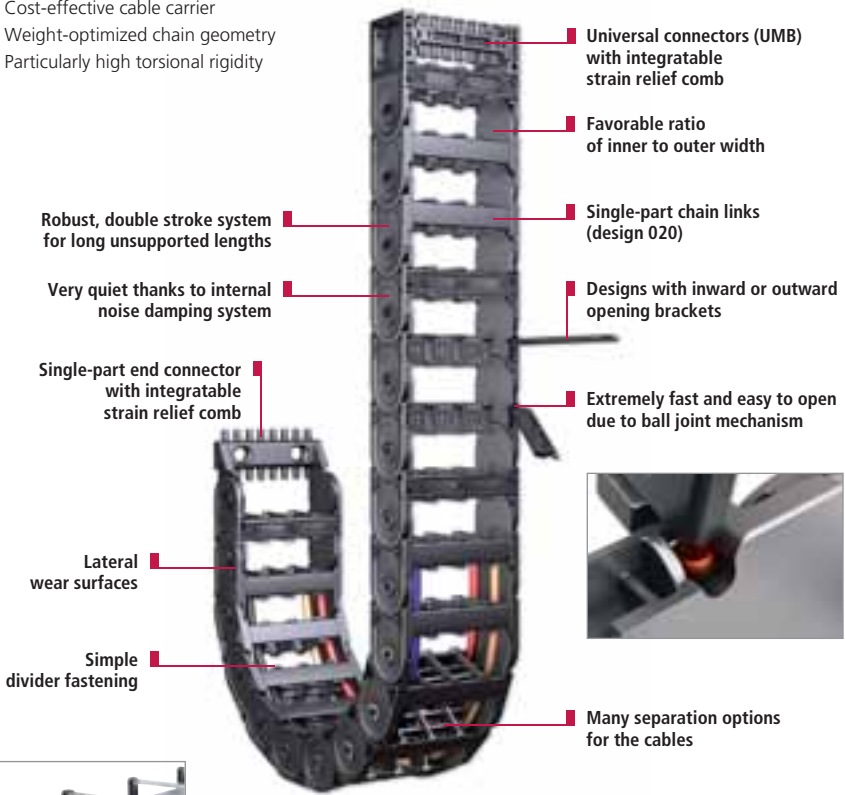
the power to innovate



# UNIFLEX *Advanced*

Light, quiet all-rounder with wide range of applications\*

- Cost-effective cable carrier
- Weight-optimized chain geometry
- Particularly high torsional rigidity



Inside heights



Inside widths



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 Cable Carrier Configurator



## UNIFLEX Advanced 1665 with mounting frame stay

The mounting frame stay can be used to reliably route cables with a very large diameter such as extraction hoses, which diameters are greater than the clearance height of the chain links can be routed.



Dividers can be fixed for installations where the carrier is rotated through 90° and applications with high transverse accelerations – no additional spacers are needed



Lateral wear surfaces – for long service life for applications where the carrier is rotated through 90°



Simple fixing of strain relief comb or C-Rail in the connector



Subject to change.

\* Some features can be different for certain types for design reasons. Our specialists are happy to advise you.

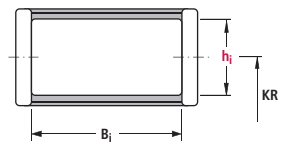
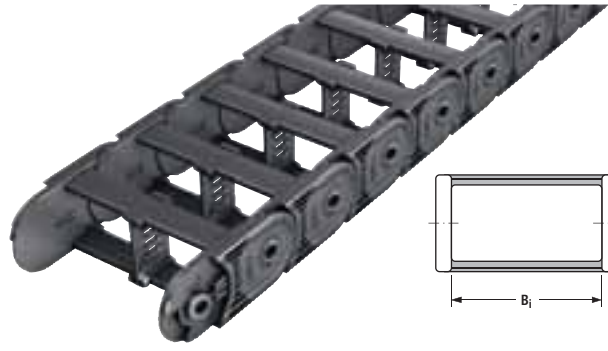
Overview UNIFLEX *Advanced*

Design 020 with enclosed frame

Inside heights



Inside widths



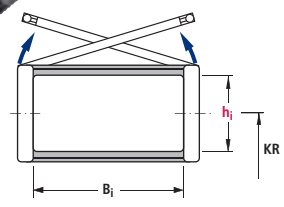
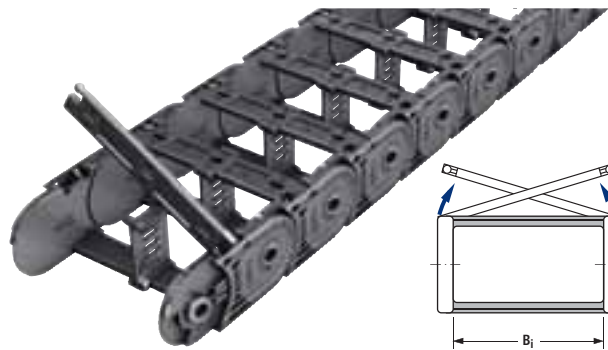
Type	h <sub>i</sub>	B <sub>i</sub>	Maximum travel length in m	Dynamics of unsupported arrangement		Page
				Travel speed v <sub>max</sub> in m/s	Travel acceleration a <sub>max</sub> in m/s <sup>2</sup>	
1320.020	20	38	80	10	50	90
1455.020	26	25-103	120	10	50	90
1555.020	38	50-150	125	9	45	90
1665.020	44	50-250	150	8	40	90

Dimensions in mm

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Design 030 with outward opening and detachable brackets



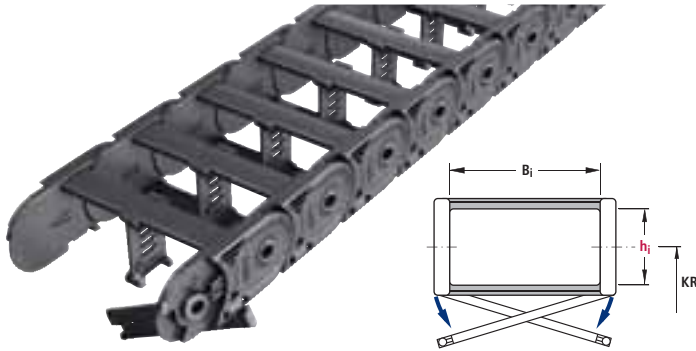
Type	h <sub>i</sub>	B <sub>i</sub>	Maximum travel length in m	Dynamics of unsupported arrangement		Page
				Travel speed v <sub>max</sub> in m/s	Travel acceleration a <sub>max</sub> in m/s <sup>2</sup>	
1455.030	26	25-103	120	10	50	90
1555.030	38	50-150	125	9	45	90
1665.030	44	50-250	150	8	40	90

Dimensions in mm

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## Overview UNIFLEX *Advanced*

### Design 040 with inward opening and detachable brackets



Inside heights



Inside widths



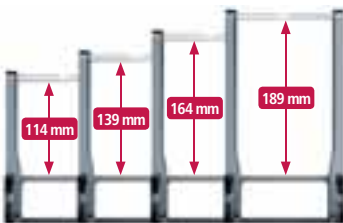
Type	h <sub>i</sub>	B <sub>i</sub>	Maximum travel length in m	Dynamics of unsupported arrangement		Page
				Travel speed v <sub>max</sub> in m/s	Travel acceleration a <sub>max</sub> in m/s <sup>2</sup>	
1455.040	26	25-103	120	10	50	90
1555.040	38	50-150	125	9	45	90
1665.040	44	50-250	150	8	40	90

Dimensions in mm

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### UNIFLEX *Advanced* 1665 with mounting frame stay

The mounting frame stay can be used to reliably route cables with a very large diameter, such as extraction hoses, which diameters are greater than the clearance height of the chain links can be routed.



■ Different inside heights for different cable diameters



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#### Additional chambers for further cables

Routing of additional cables with small diameters such as electrical or hydraulic cables is possible in the chambers under the main chamber. Dividers can be used for additional separation of the cables.



**Do you need further information?**  
Please do get in touch with us, we will be pleased to help you.

Subject to change.

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# Types 1455, 1555 and 1665

Inside heights

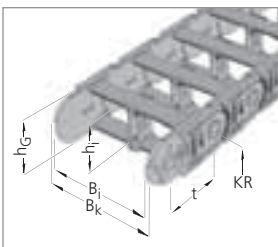


Inside widths



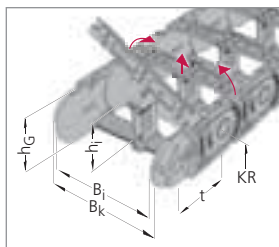
## Design 020

Inside/Outside:  
Not to be opened



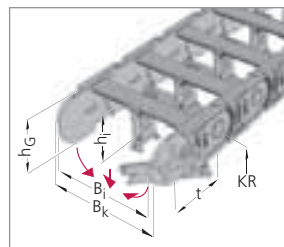
## Design 030

Outside: Hinged, openable (on the right/left) and detachable brackets



## Design 040

Inside: Hinged, openable (on the right/left) and detachable brackets



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## Dimensions and intrinsic chain weight

Type	hi	hG	Inside widths B <sub>ji</sub>									B <sub>jk</sub>
			Intrinsic chain weight									
1320	20	25,5	38	-	-	-	-	-	-	-	-	B <sub>j</sub> + 12
			0.40	-	-	-	-	-	-	-	-	
1455	26	36	25	38	58	78	103	-	-	-	B <sub>j</sub> + 16	
			0.73	0.75	0.80	0.88	0.98	-	-	-		-
1555	38	50	50	75	90*	100	125	150	-	-	B <sub>j</sub> + 18	
			1.13	1.23	1.29	1.32	1.42	1.51	-	-		-
1665	44	60	50	75	100	125	150	175	200**	225	250	B <sub>j</sub> + 22
			1.67	1.80	1.92	2.06	2.18	2.31	2.43	2.57	2.70	

\* only Design 030 / KR 100 available      \*\* on request      Dimensions in mm/Weights in kg/m

## Bend radius and pitch

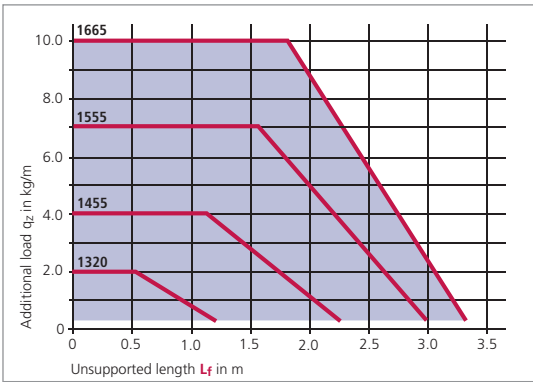
Type	Bend radii KR mm							
1320	28	38*	48*	75*	100*	125*	-	-
1455	52	65	95	125	150	180	200	225*
1555	63	80	100	125	160	200	230**	-
1665	75	100	120	140	200	250	300	-

Pitch:  
1320: t = 32.0 mm  
1455: t = 45.5 mm  
1555: t = 55.5 mm  
1665: t = 66.5 mm

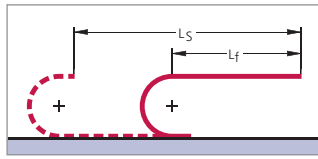
\* on request      \*\* B<sub>j</sub> 50 and 75 mm on request

## Load diagram

for unsupported length L<sub>f</sub> depending on the additional load



## Unsupported length L<sub>f</sub>



In the case of longer travel lengths, sag of the cable carriers is technically permissible depending on the application.

In a gliding arrangement, even longer travel lengths are possible (see page 301). We are at your service to advise on these applications.

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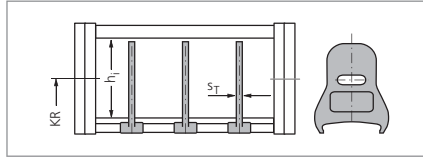
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## Types 1455, 1555 and 1665

### Divider system TS 0 (Type 1320)

Type	$h_i$ mm	$S_T$ mm
1320	20	2

The dividers can be moved in the cross section.



In the standard version, the divider systems are mounted on every second chain link.

Inside heights

20  
44

Inside widths

25  
250

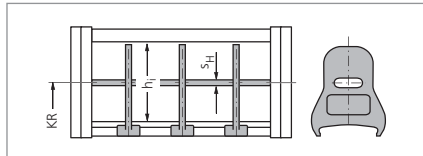


### Divider system TS 1 (Type 1320)

with continuous height subdivision made of aluminium

Type	$h_i$ mm	$S_T$ mm	$S_H$ mm
1320	20	2	2.4

The dividers can be moved in the cross section.



In the standard version, the divider systems are mounted on every second chain link.



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### Example of ordering

Cable carrier				Divider system		Connection
1555	030	100	125	1332	TS 0 / 3	FU/MU
Type	Design	Inside width $B_i$ in mm	Bend radius KR in mm	Chain length $L_k$ in mm (without connection)	Divider system	Number of dividers $n_T$
						Connection Fixed point/ Driver

#### Ordering divider systems:

Please state the designation of the divider system (TS 0, TS 1 ...) and the number of dividers. Possibly attach a sketch with the dimensions.

# Types 1455, 1555 and 1665

## Fixing of the dividers

Inside heights



Inside widths



In the standard version, dividers or the complete divider system (dividers with height separation) can be moved in the cross section (**Version A**).

Fixed dividers are available for applications with transverse accelerations and where the carrier is rotated through 90° (**Version B**).

If the fixed installation version is desired, please state this on the order.

### Version A (Standard)

Divider movable



### Version B

Divider fixed in 2.5 mm steps

With fixed dividers, fixing is by means of arresting cams in the foot of the divider.



■ Locking profile in the crossbar

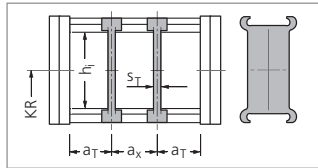
■ Divider with arresting cams

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## Divider system TS 0

Type	h <sub>i</sub> mm	Version A			Version B			
		S <sub>T</sub> mm	a <sub>T</sub> min mm	a <sub>x</sub> min mm	S <sub>T</sub> mm	a <sub>T</sub> min mm	a <sub>x</sub> min mm	a <sub>x</sub> section mm
1455	26	2.0	3.5	7	2.0	4/5*	7.5	2.5
1555	38	2.5	5.0	10	2.5	5	10	2.5
1665	44	3.0	5.0	10	3.0	5	10	2.5

\* a<sub>T</sub> min = 4 mm for B<sub>i</sub> = 38, 58, 78, 103      a<sub>T</sub> min = 5 mm for B<sub>i</sub> = 25



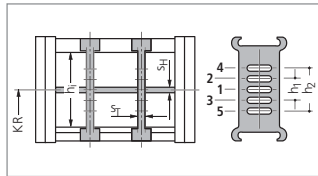
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## Divider system TS 1 for Design 030/040

with continuous height subdivision made of aluminium

Type	h <sub>i</sub> mm	Version A			Version B				S <sub>H</sub> mm	h <sub>1</sub> mm	h <sub>2</sub> mm
		S <sub>T</sub> mm	a <sub>T</sub> min mm	a <sub>x</sub> min mm	S <sub>T</sub> mm	a <sub>T</sub> min mm	a <sub>x</sub> min mm	a <sub>x</sub> section mm			
1455	26	2.0	4/5*	7.5	2.0	4/5*	7.5	2.5	2	10	—
1555	38	2.5	5	10	2.5	5	10	2.5	4	14	—
1665	44	3.0	5	10	3.0	5	10	2.5	4	14	28

\* a<sub>T</sub> min = 4 mm for B<sub>i</sub> = 38, 58, 78, 103      a<sub>T</sub> min = 5 mm for B<sub>i</sub> = 25



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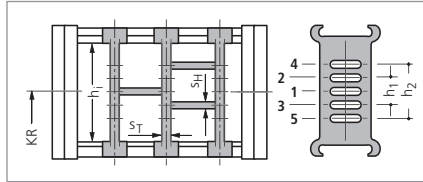


## Types 1455, 1555 and 1665

Divider system TS 3 with section subdivision, partitions made of plastic

Type	$h_1$ mm	$S_T$ mm	$a_T$ min mm	$a_x$ min mm	$S_H$ mm	$h_1$ mm	$h_2$ mm
1455	26	5	3.5	7	2.4	10	–
1555	38	5	5	10	2.4	12	–
1665	44	8	5	10	4.0	14	28

The dividers are fixed by the partitions, the complete divider system is movable.



In the standard version, the divider systems are mounted on every second chain link.

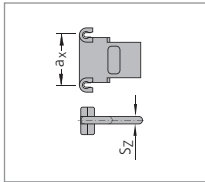
Inside heights



Inside widths



### Dimensions of the plastic partitions for TS 3



Types 1455 and 1555

$S_Z$	$a_x$ (Center to center distance, dividers)									
2.4	15	20	25	30	35	40	45	55	65	75

Type 1665

$S_Z$	$a_x$ (Center to center distance, dividers)									
4	16	18	23	28	32	33	38	43	48	58
	64	68	78	80	88	96	112	128	144	160

Dimensions in mm

For type 1665, aluminium partitions in 1 mm width sections are available.

When using **partitions with  $a_x > 112$  mm**, there should be an additional central support with a **twin divider** ( $S_T = 3$  mm).

Twin dividers are designed for subsequent fitting in the partition system.

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# Types 1455, 1555 and 1665

## Strain relief devices for plastic connectors

Inside heights



Inside widths



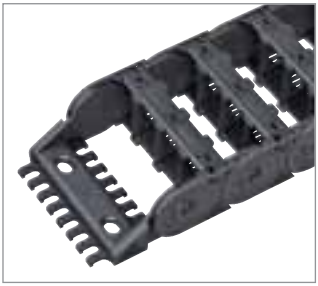
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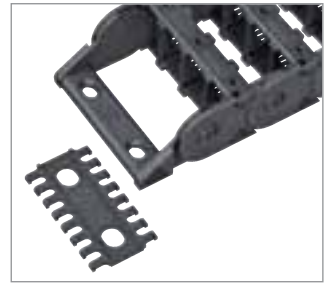
### ZLK – A

Connecting elements with integrated strain relief combs on both sides (ZLK – A)



### ZLK – L

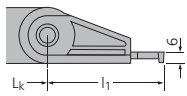
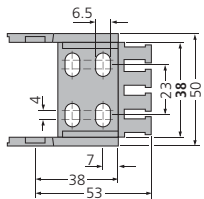
Connecting elements with screw-on type strain relief combs (ZLK – L)



The strain relief combs are generally supplied with the connecting elements. The combs are either clipped to the end connectors and bolted together with them, or screwed on at the desired intervals by using additional boreholes, behind the connecting elements.

## Connection dimensions for Type 1320

Connecting elements with strain relief combs on one side

ZLK – A integrated strain relief combs	
	

Type	B <sub>i</sub>	B <sub>k</sub>	n <sub>z</sub>
1320 ... 38	38	50	4

Maße in mm

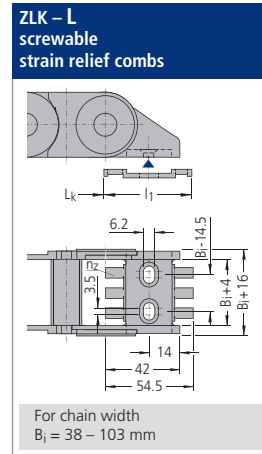
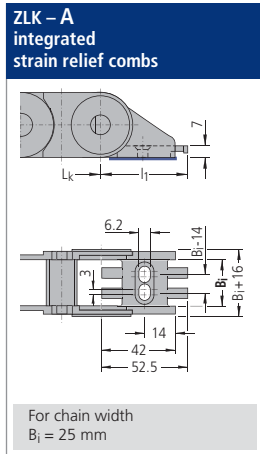
Short connectors without strain relief are also available for restricted installation conditions. Please contact us.

The dimensions of the fixed point and driver connections are identical.

## Types 1455, 1555 and 1665

### Connection dimensions for Type 1455

Connecting elements with strain relief combs on both sides



Type	$B_1$	$B_k$	$n_z$
1455 ... .25	25	41	2
1455 ... .38	38	54	3
1455 ... .58	58	74	4
1455 ... .78	78	94	6
1455 ... .103	103	119	8

Dimensions in mm

Inside  
heights



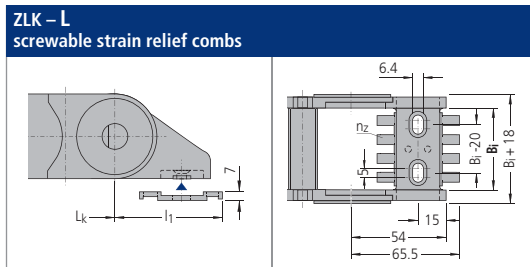
Inside  
widths



The dimensions of the fixed point and driver connections are identical.

### Connection dimensions for Type 1555

Connecting elements with strain relief combs on both sides



Type	$B_1$	$B_k$	$n_z$
1555 ... .50	50	68	4
1555 ... .75	75	93	6
1555 ... .100	100	118	8
1555 ... .125	125	143	10
1555 ... .150	150	168	12

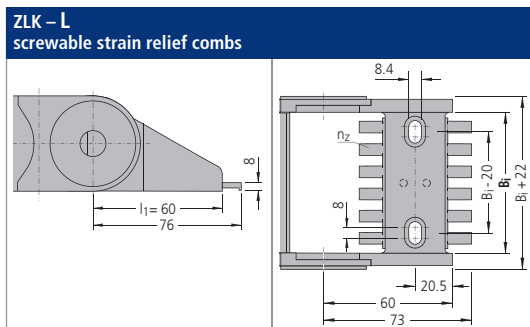
Dimensions in mm

For chain width  $B_1$  90 mm connectors made of steel are available.

The dimensions of the fixed point and driver connections are identical.

### Connection dimensions for Type 1665

Connecting elements with strain relief combs on both sides



Type	$B_1$	$B_k$	$n_z$
1665 ... .50	50	72	4
1665 ... .75	75	97	6
1665 ... .100	100	122	8
1665 ... .125	125	147	10
1665 ... .150	150	172	12
1665 ... .175	175	197	14
1665 ... .200*	200	222	16
1665 ... .225	225	247	18
1665 ... .250	250	272	20

\* on request

Dimensions in mm

The dimensions of the fixed point and driver connections are identical.

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## Types 1455, 1555 and 1665

### Connection variants

#### Inside heights

20  
44

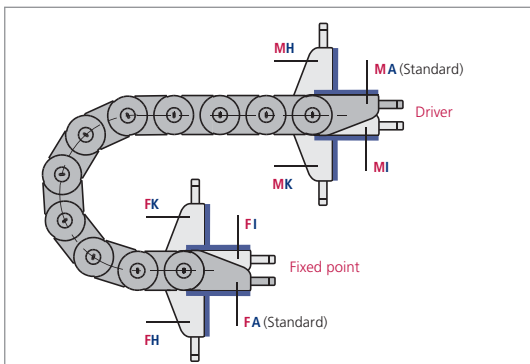
#### Inside widths

25  
250

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#### Connection point

- M** – Driver
- F** – Fixed point

#### Connection type

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

In the standard version, the connectors are mounted with the threaded joint outwards (**FA/MA**).

When ordering please specify the desired connection type (see ordering key on page 340).

The connection type can subsequently be altered simply by varying the connectors.

## Gliding elements – the economical solution for gliding applications (Types 1455, 1555, 1665)

### Replaceable glide shoes made of plastic

To extend the life of cable carriers in gliding operations KABELSCHLEPP supplies detachable, exchangeable glide shoes.

Replaceable glide shoes are a very economical solution. When wear occurs only the glide shoes are replaced, and not the complete cable carrier.

Glide shoes for are made of a highly wear-resistant special material.

#### Chain height with glide shoes:

1455:  $h_G' = h_G + 2.5 = 38.5$  mm

1555:  $h_G' = h_G + 3.0 = 53.0$  mm

1665:  $h_G' = h_G + 3.0 = 63.0$  mm

#### Minimum bend radii

when using glide shoes:

1455:  $KR_{\min} = 65$  mm

1555:  $KR_{\min} = 80$  mm

1665:  $KR_{\min} = 100$  mm

#### Chain width with glide shoes:

1455:  $BE_{EF}' = b_i + 19$  mm

1555:  $BE_{EF}' = b_i + 22$  mm

1665:  $BE_{EF}' = b_i + 27$  mm



! By means of a positive snap connection, the glide shoes sit firmly on the chain link.

## Types 1455, 1555 and 1665

### Universal mounting brackets

With plastic UMBs (Universal Mounting Brackets), you can easily connect the UNIFLEX from above, from below, or at head height.



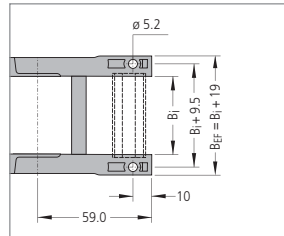
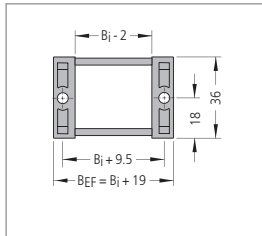
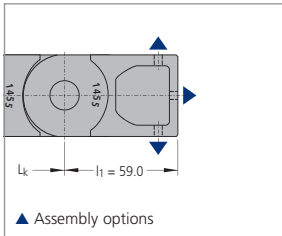
Inside heights

20  
-  
44

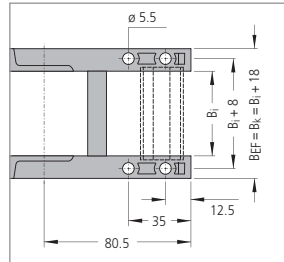
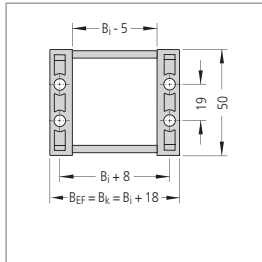
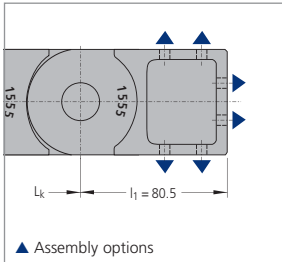
Inside widths

25  
-  
250

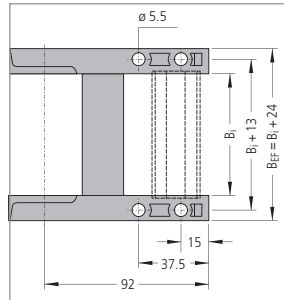
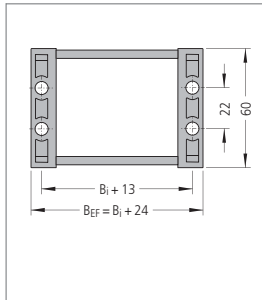
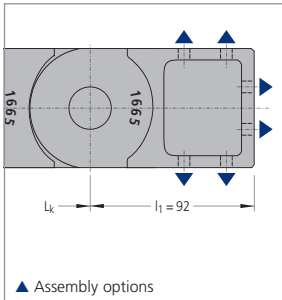
#### UNIFLEX 1455



#### UNIFLEX 1555



#### UNIFLEX 1665



The dimensions of the fixed point and driver connections are identical.  
When ordering please specify the connection type FU/MU (see ordering key on page 340).

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## Types 1455, 1555 and 1665

### Strain relief devices

Inside  
heights

20  
—  
44

Inside  
widths

25  
—  
250

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#### One-sided strain relief combs made of plastic (UNIFLEX 1455)

The cables can be fixed securely and simply using the **optional strain relief combs**.

The strain relief combs are installed between the UMBs, and do not need to be bolted on separately or mounted on a C-Rail.

Please state on the order whether strain relief combs are needed.



■ Universal mounting bracket with strain relief comb



■ One-sided strain relief comb



■ Fixing in the UMB

Type	B <sub>i</sub> mm	n <sub>z</sub>
1455. ... .25	25	2
1455. ... .38	38	3
1455. ... .58	58	5
1455. ... .78	78	7
1455. ... .103	103	9

n<sub>z</sub> = Number of teeth

#### Both-sided strain relief combs made of plastic (UNIFLEX 1555/1665)

The cables can be fixed securely and simply using the **optional strain relief combs**.

The strain relief combs are installed between the UMBs, and do not need to be bolted on separately or mounted on a C-Rail.

Please state on the order whether strain relief combs are needed.



■ Universal mounting bracket with strain relief comb



■ Both-sided strain relief comb



■ Fixing in the UMB

Type	B <sub>i</sub> mm	n <sub>z</sub>	Type	B <sub>i</sub> mm	n <sub>z</sub>
1555. ... .50	50	3	1665. ... .50	50	3
1555. ... .75	75	5	1665. ... .75	75	5
1555. ... .90	90*	7	1665. ... .100	100	7
1555. ... .100	100	7	1665. ... .115	115	8
1555. ... .125	125	9	1665. ... .125	125	9
1555. ... .150	150	11	1665. ... .150	150	11
			1665. ... .175	175	13
			1665. ... .225	225*	17
			1665. ... .250	250*	19

n<sub>z</sub> = Number of teeth on one side of the comb

\* on request

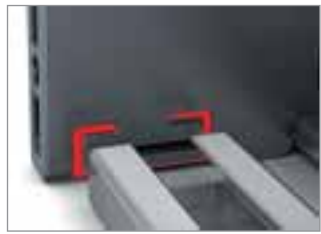
## Types 1455, 1555 and 1665

### Strain relief devices

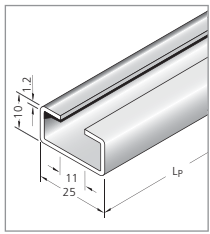
#### C-rails for LineFix bracket clamps, SZL strain reliefs and clamps (UNIFLEX 1555/1665)

The optional C-rails are fixed by means of the universal mounting brackets and do not have to be screwed separately.

Please state in your order whether C-rails are needed.



■ Universal mounting bracket with C-rail

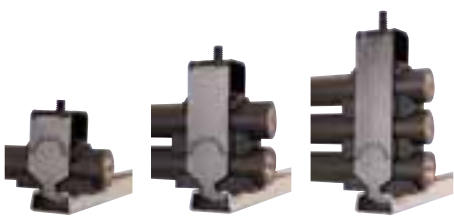


■ Integratable C-rail  
25 x 10 mm,  
slit width 11 mm,  
material steel,  
Item-No. 3931

Our LineFix strain reliefs are optimally suited for the C-rails (LineFix bracket clamps and other strain relief devices – see Accessories chapter, from page 307 onwards).



■ C-rail with LineFix strain relief



Inside heights



Inside widths



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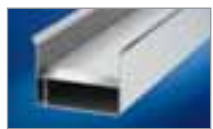
Font:  
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Guide channels  
➤ from page 301

Strain relief devices  
➤ from page 307

Cables for cable carrier systems  
➤ from page 350



Subject to change.

UNIFLEX  
the power to minimize



# UNIFLEX

Proven cable carrier with many opening and cover variants\*

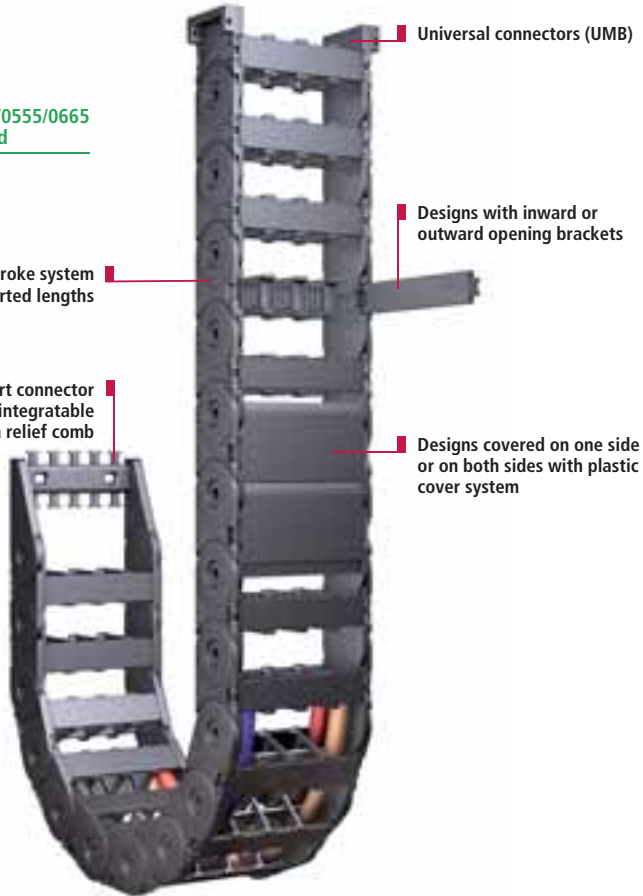
- Cost-effective cable carrier
- Particularly high torsional rigidity
- TÜV design approved in accordance with 2PFG 1036/10.97



KS RECOMMENDATION:

Replace UNIFLEX 0455/0555/0665 with UNIFLEX Advanced

- + improved design
- + more cost effective
- > from page 12



Inside heights



Inside widths



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Cable Carrier Configurator



Design 030 with outward opening and detachable brackets



Design 040 with inward opening and detachable brackets



Design 050 – covered on one side



Design 060/080 – TUBE SERIES covered cable carriers

Subject to change.

\* Some features can be different for certain types for design reasons. Our specialists are happy to advise you.

Overview UNIFLEX

Inside heights



Inside widths



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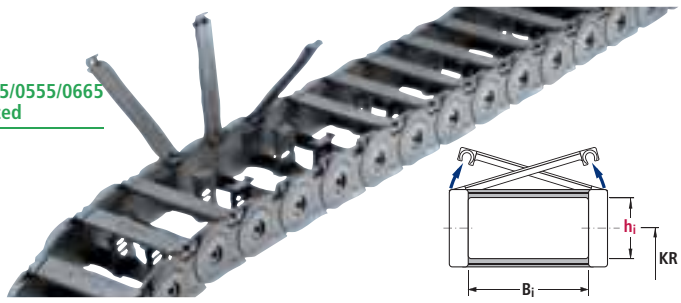
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## Design 030 with outward opening and detachable brackets



KS RECOMMENDATION:  
 Replace UNIFLEX 0455/0555/0665 with UNIFLEX Advanced

- + improved design
- + more cost effective
- > from page 12



Type	h <sub>i</sub>	B <sub>i</sub>	Maximum travel length in m	Dynamics of unsupported arrangement		Page
				Travel speed v <sub>max</sub> in m/s	Travel acceleration a <sub>max</sub> in m/s <sup>2</sup>	
0250.030	17.5	20-80	60	10	50	104
0345.030	20	15-90	80	10	50	106
0455.030	26	25-130	120	10	50	106
0555.030	38	50-150	125	9	45	106
0665.030	44	50-250	150	8	40	106

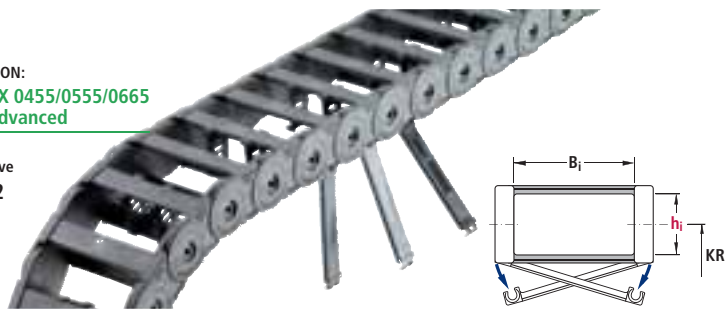
Dimensions in mm

## Design 040 with inward opening and detachable brackets



KS RECOMMENDATION:  
 Replace UNIFLEX 0455/0555/0665 with UNIFLEX Advanced

- + improved design
- + more cost effective
- > from page 12



Type	h <sub>i</sub>	B <sub>i</sub>	Maximum travel length in m	Dynamics of unsupported arrangement		Page
				Travel speed v <sub>max</sub> in m/s	Travel acceleration a <sub>max</sub> in m/s <sup>2</sup>	
0345.040	20	15-90	80	10	50	106
0455.040	26	25-130	120	10	50	106
0555.040	38	50-150	125	9	45	106
0665.040	44	50-250	150	8	40	106

Dimensions in mm

## Overview UNIFLEX

### Design 050 – covered on one side



Inside heights



Inside widths



Type	h <sub>i</sub>	B <sub>i</sub>	Maximum travel length in m	Dynamics of unsupported arrangement		Page
				Travel speed v <sub>max</sub> in m/s	Travel acceleration a <sub>max</sub> in m/s <sup>2</sup>	
0345.050	20	15-65	80	10	50	108
0455.050	26	25-130	120	10	50	108
0555.050	38	50-150	125	9	45	108
0665.050	44	50-175	150	8	40	108

Dimensions in mm

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## TUBE SERIES – covered cable carriers

### Design 060 with plastic cover system

- Outside and inside: Covered
- Inside: Hinged, openable (on the right/left) and detachable cover



### Design 080 – lightweight – with plastic cover system

- Outside: Detachable cover
- Inside: Covered



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# Type 0250

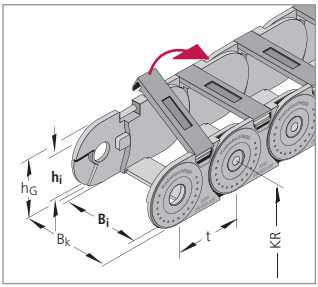
## Design 030

Outside: Hinged, openable and detachable brackets

Inside height



Inside widths



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### Dimensions and intrinsic chain weight

Type	h <sub>i</sub>	h <sub>G</sub>	Inside widths B <sub>i</sub>					B <sub>k</sub>	
			Intrinsic chain weight						
0250	17.5	23	20	30	40	50	65	80	B <sub>i</sub> + 10
			0.26	0.31	0.33	0.35	0.38	0.41	

Dimensions in mm/Weights in kg/m

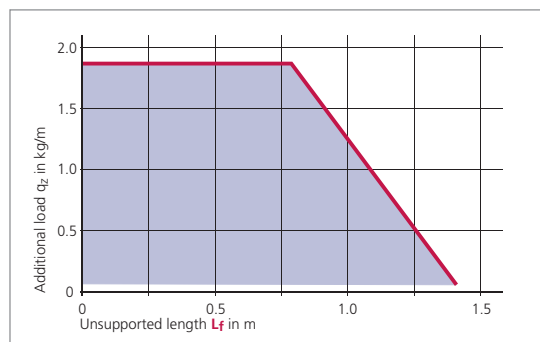
### Bend radius and pitch

Bend radii KR mm					
28	38	45	60	75	100

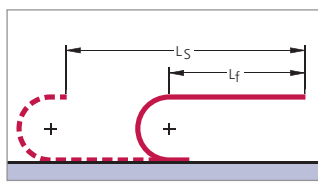
Pitch t = 25.0 mm

### Load diagram

for unsupported length L<sub>f</sub> depending on the additional load



### Unsupported length L<sub>f</sub>



In the case of longer travel lengths, sag of the cable carriers is technically permissible depending on the application.

In a gliding arrangement, even longer travel lengths are possible (see page 301).

We are at your service to advise on these applications.

### Example of ordering

Cable carrier			Divider system		Connection		
0250	030	40	45	650	TS 0 / 2	FA/MA	
Type	Design	Inside width B <sub>i</sub> in mm	Bend radius KR in mm	Chain length L <sub>k</sub> in mm (without connection)	Divider system	Number of dividers n <sub>T</sub>	Connection Fixed point/Driver

### Ordering divider systems:

Please state the designation of the divider system (TS 0, TS 1 ...) and the number of dividers. Possibly attach a sketch with the dimensions.

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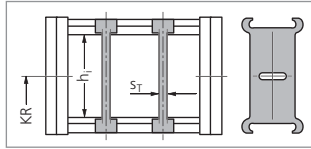
## Type 0250

### Divider system TS 0

Type	$h_1$ mm	$S_T$ mm
0250	17.5	2

The dividers can be moved in the cross section.

In the standard version, the divider systems are mounted on every second chain link.



The divider system TS 1 with a **central** height sub-division ( $S_H = 2.4$  mm) is also available for the type 0250.

Inside height

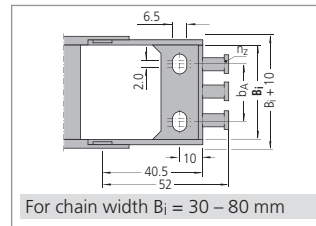
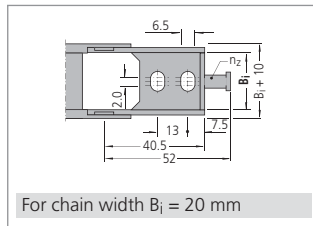
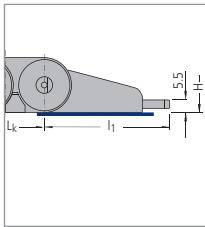


Inside widths



### Connection dimensions

Plastic connectors with integrated strain relief



The dimensions of the fixed point and driver connections are identical.

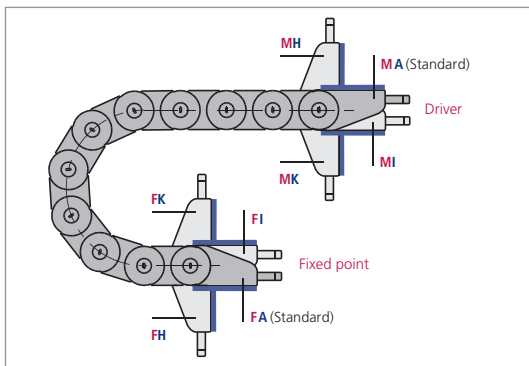
### Table of dimensions

Plastic connecting elements with strain relief combs

Type	$B_i$	$B_k$	$b_A$	$n_Z$
0250	20	30	-	1
0250	30	40	15	2
0250	40	50	23	3
0250	50	60	33	4
0250	65	75	48	5
0250	80	90	63	6

Dimensions in mm

### Connection variants



#### Connection point

- M** – Driver
- F** – Fixed point

#### Connection type

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

In the standard version, the connectors are mounted with the threaded joint outwards (**FA/MA**). When ordering please specify the desired connection type (see ordering key on page 340). The connection type can subsequently be altered simply by varying the connectors.

# Types 0345, 0455, 0555 and 0665

Inside heights

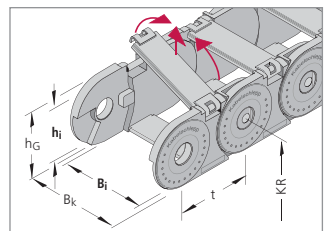


Inside widths



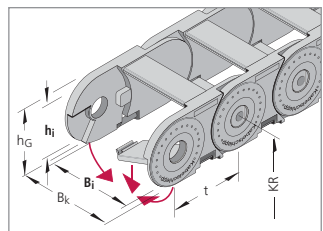
## Design 030

Outside: Hinged, openable (on the right/left) and detachable brackets



## Design 040

Inside: Hinged, openable (on the right/left) and detachable brackets



## Design 035 and 045

When hydraulic hoses are being used with small bend radii, we recommend the use of lockable brackets – Designs .035 and .045.






KS RECOMMENDATION:

Replace UNIFLEX 0455/0555/0665 with UNIFLEX Advanced

- + improved design
- + more cost effective
- > from page 12

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## Dimensions and intrinsic chain weight

Type	h <sub>i</sub>	h <sub>G</sub>	Inside widths B <sub>i</sub>										B <sub>k</sub>
			Intrinsic chain weight										
0345	20	28	15	20	25	38	50	65	90	–	–	B <sub>i</sub> + 13	
			0.43	0.45	0.46	0.50	0.53	0.57	0.71	–	–		
0455 	26	36	25	38	58	78	103	130	–	–	–	B <sub>i</sub> + 18	
			0.81	0.88	0.95	1.02	1.15	1.27	–	–	–		
0555 	38	50	50	75	100	125	150	–	–	–	–	B <sub>i</sub> + 22	
			1.47	1.60	1.72	1.86	1.98	–	–	–	–		
0665 	44	60	50	75	100	125	150	175	200	225	250	B <sub>i</sub> + 27	
			2.06	2.22	2.37	2.53	2.68	2.85	3.00	3.16	3.31		

Dimensions in mm/Weights in kg/m

## Bend radius and pitch

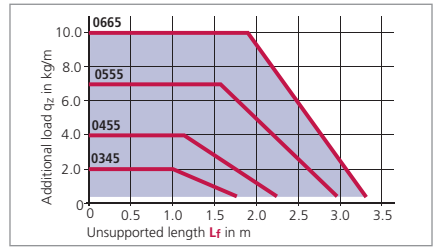
Type	Bend radii KR mm							
0345	38	50	75	100	125	150	–	–
0455	52	65	95	125	150	180	200	225
0555	63	80	100	125	160	200	230	–
0665	75	100	120	140	200	250	300	–

Pitch t:  
 Type 0345: 34.5 mm  
 Type 0455: 45.5 mm  
 Type 0555: 55.5 mm  
 Type 0665: 66.5 mm

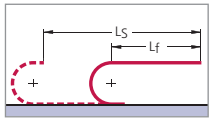
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## Load diagram

for unsupported length L<sub>f</sub> depending on the additional load



Unsupported length L<sub>f</sub>



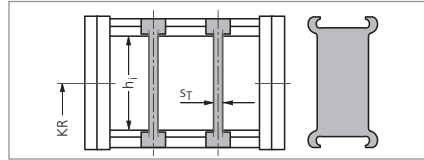
In the case of longer travel lengths, sag of the cable carriers is technically permissible depending on the application. In a gliding arrangement, even longer travel lengths are possible (see page 301). We are at your service to advise on these applications.

## Types 0345, 0455, 0555 and 0665

### Divider system TS 0

Type	$h_i$ mm	$S_T$ mm
0345	20	2
0455	26	2.5
0555	38	2.5
0665	44	3

The dividers can be moved in the cross section.



In the standard version, the divider systems are mounted on every second chain link.

Inside heights



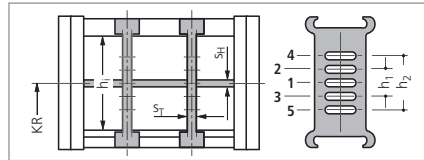
Inside widths



### Divider system TS 1 with continuous height subdivision made of aluminium

Type	$h_i$ mm	$S_T$ mm	$S_H$ mm	$h_1$ mm	$h_2$ mm
0345	20	2	2	10	–
0455	26	2.5	2	10	–
0555	38	2.5	4	14	–
0665	44	3	4	14	28

The dividers can be moved in the cross section.

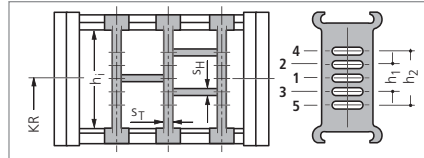


In the standard version, the divider systems are mounted on every second chain link.

### Divider system TS 3 with section subdivision, partitions made of plastic

Type	$h_i$ mm	$S_T$ mm	$S_H$ mm	$h_1$ mm	$h_2$ mm
0455	26	5	2.4	10	–
0555	38	5	2.4	12	–
0665	44	8	4.0	14	28

The dividers are fixed by the partitions, the complete divider system is movable.

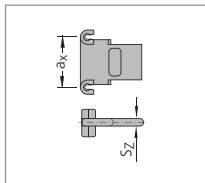


In the standard version, the divider systems are mounted on every second chain link.

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### Dimensions of the plastic partitions for TS 3



Types 0455 and 0555

$S_z$	$a_x$ (center-to-center distance, dividers)									
2.4	15	20	25	30	35	40	45	55	65	75

Type 0665

$S_z$	$a_x$ (center-to-center distance, dividers)									
4	16	18	23	28	32	33	38	43	48	58
	64	68	78	80	88	96	112	128	144	160
	176	192	208	–	–	–	–	–	–	–

Dimensions in mm

For type 0665, aluminium partitions in 1 mm width sections are available.

When using partitions with  $a_x > 112$  mm, there should be an additional central support with a twin divider ( $S_T = 3$  mm).

Twin dividers are designed for subsequent fitting in the partition system.

### Example of ordering

Cable carrier				Divider system		Connection	
Type	Design	Inside width $B_i$ in mm	Bend radius KR in mm	Chain length $L_k$ in mm (without connection)	Divider system	Number of dividers $n_T$	Connection Fixed point/Driver
	040	100	125	1332	TS 0 / 3	3	FA/MA

### Ordering divider systems:

Please state the designation of the divider system (TS 0, TS 1 ...) and the number of dividers. Possibly attach a sketch with the dimensions.

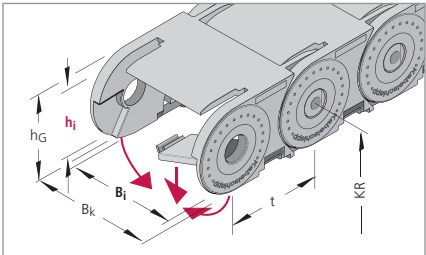
# Types 0345, 0455, 0555 and 0665

## Design 050

Outside: Covered  
 Inside: Hinged, openable (on the right/left) and detachable brackets

Inside heights  
 20  
 44

Inside widths  
 15  
 175



**Design 055:**  
 When hydraulic hoses are being used with small bend radii, we recommend the use of lockable brackets – Design 055.

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## Dimensions and intrinsic chain weight

Type	h <sub>i</sub>	h <sub>G</sub>	Inside widths B <sub>i</sub>						B <sub>k</sub>
			Intrinsic chain weight						
0345	20	28	15	20	25	38	50	65	B <sub>i</sub> + 13
			0.46	0.49	0.52	0.59	0.66	0.75	
0455	26	36	25	38	58	78	103	130	B <sub>i</sub> + 18
			0.89	0.97	1.10	1.22	1.40	1.58	
0555	38	50	50	75	100	125	150	–	B <sub>i</sub> + 22
			1.64	1.81	1.98	2.16	2.33	–	
0665	44	60	50	75	100	125	150	175	B <sub>i</sub> + 27
			2.26	2.53	2.79	3.06	3.33	3.60	

Dimensions in mm/Weights in kg/m

## Bend radius and pitch

Type	Bend radii KR mm							
0345	38	50	75	100	125	150	–	–
0455	52	65	95	125	150	180	200	225
0555	63	80	100	125	160	200	230	–
0665	75	100	120	140	200	250	300	–

**Pitch t:**  
 Type 0345: 34.5 mm  
 Type 0455: 45.5 mm  
 Type 0555: 55.5 mm  
 Type 0665: 66.5 mm

## Example of ordering

**Cable carrier**  
 0555 - 050 - 100 - 125 - 1332  
 Type Design Inside width B<sub>i</sub> in mm Bend radius KR in mm Chain length L<sub>k</sub> in mm (without connection)

**Divider system**  
 TS 0 / 3  
 Divider system Number of dividers n<sub>T</sub>

**Connection**  
 FA/MA  
 Connection Fixed point/Driver

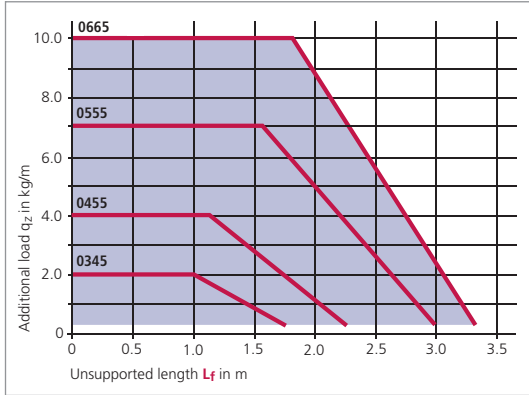
**Ordering divider systems:**  
 Please state the designation of the divider system (TS 0, TS 1 ...) and the number of dividers. Possibly attach a sketch with the dimensions.



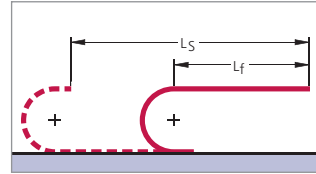
## Types 0345, 0455, 0555 and 0665

### Load diagram

for unsupported length  $L_f$  depending on the additional load



### Unsupported length $L_f$



In the case of longer travel lengths, sag of the cable carriers is technically permissible depending on the application.

In a gliding arrangement, even longer travel lengths are possible (see page 301).

We are at your service to advise on these applications.

### Inside heights



### Inside widths



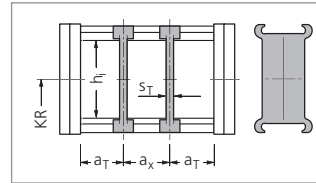
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### Divider system TS 0

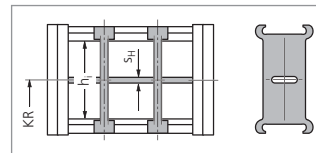
Type	$h_i$ mm	$S_T$ mm	$a_x$ mm	$B_i$ mm	$a_T$ min mm
0455	26	3	20	25	12.5
0455	26	3	20	38, 58, 78	19
0455	26	3	20	103	21.5
0455	26	3	20	130	25
0555	38	3	25	50 ... 150	25
0665	44	5	25	50 ... 175	25

The dividers are fixed at an interval of  $a_x$ .

For Type 0665, the divider system TS 1 with a central height subdivision ( $S_H = 4$  mm) is also available.



In the standard version, the divider systems are mounted on every second chain link.



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Cable Carrier Configurator

## Types 0345, 0455, 0555 and 0665

### Strain relief devices for plastic connectors

Inside  
heights

20  
—  
44

Inside  
widths

15  
—  
175

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#### ZLK – A

Connecting elements with integrated strain relief combs on both sides (ZLK – A)



#### ZLK – L

Connecting elements with screw-on type strain relief combs (ZLK – L)

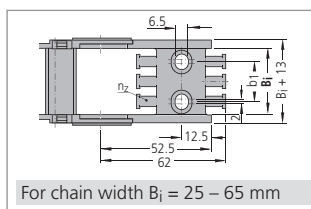
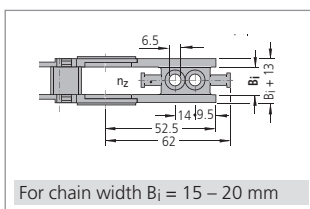
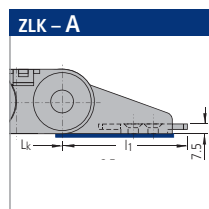
The strain relief combs are generally supplied with the connecting elements.

The combs are either clipped to the end connectors and bolted together with them, or screwed on at the desired intervals by using additional boreholes, behind the connecting elements.



### Connection dimensions for Type 0345

Connecting elements with integrated strain relief combs on both sides



The dimensions of the fixed point and driver connections are identical.

Type	$B_i$	$B_k$	$b_1$	$n_z$
0345 ... .15	15	28	–	1
0345 ... .20	20	33	–	1
0345 ... .25 *	25	38	13	2
0345 ... .38	38	51	24	3
0345 ... .50	50	63	36	4
0345 ... .65	65	78	51	5

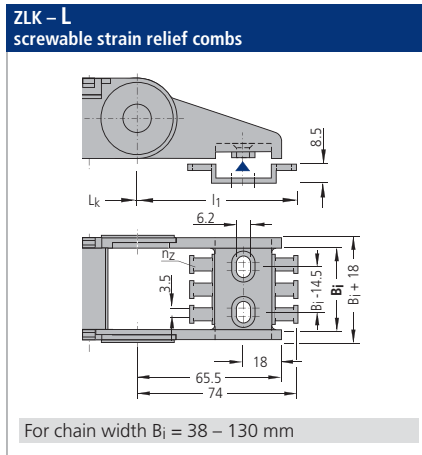
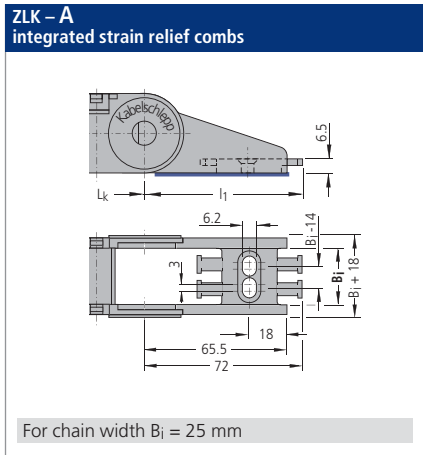
Dimensions in mm

\* Type 0345 ... .25 with 6.5 mm hole (not an elongated hole)  
Connectors made of steel are available for carrier width  $B_i = 90$  mm.

## Types 0345, 0455, 0555 and 0665

### Connection dimensions for Type 0455

Connecting elements with strain relief combs on both sides



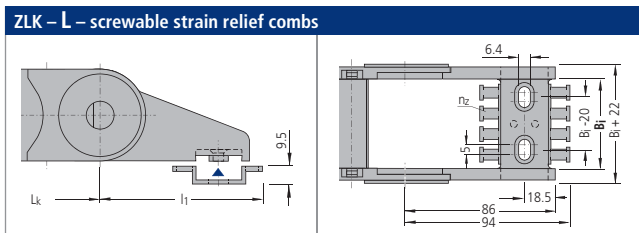
The dimensions of the fixed point and driver connections are identical.

Type	$B_i$	$B_k$	$n_Z$
0455. ....25	25	43	2
0455. ....38	38	56	3
0455. ....58	58	76	4
0455. ....78	78	96	6
0455. ....103	103	121	8
0455. ....130	130	148	10

Dimensions in mm

### Connection dimensions for Type 0555

Connecting elements with strain relief combs on both sides



The dimensions of the fixed point and driver connections are identical.

Type	$B_i$	$B_k$	$n_Z$
0555. ....50	50	72	4
0555. ....75	75	97	6
0555. ....100	100	122	8
0555. ....125	125	147	10
0555. ....150	150	172	12

Dimensions in mm

Inside heights



Inside widths



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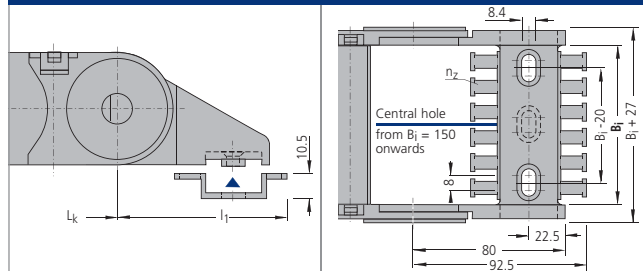
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Cable Center Configurator

## Types 0345, 0455, 0555 and 0665

### Connection dimensions for Type 0665

Connecting elements with strain relief combs on both sides

#### ZLK – L – screwable strain relief combs

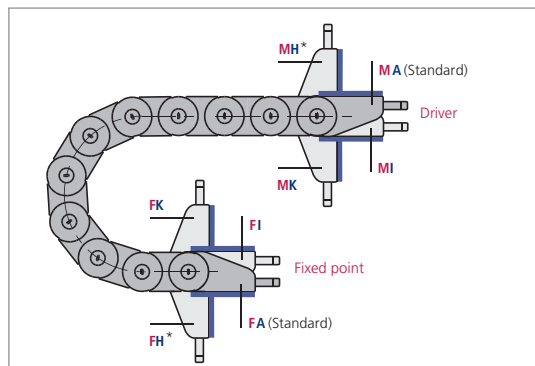


The dimensions of the fixed point and driver connections are identical.

Type	$B_i$	$B_k$	$n_z$
0665 ... .50	50	77	4
0665 ... .75	75	102	6
0665 ... .100	100	127	8
0665 ... .125	125	152	10
0665 ... .150	150	177	12
0665 ... .175	175	202	14
0665 ... .200	200	227	16
0665 ... .225	225	252	18
0665 ... .250	250	277	20

Dimensions in mm

### Connection variants



#### Connection point

- M** – Driver
- F** – Fixed point

#### Connection type

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

In the standard version, the connectors are mounted with the threaded joint outwards (**FA/MA**).

When ordering please specify the desired connection type (see ordering key on page 340).

The connection type can subsequently be altered simply by varying the connectors.

\* not in the case of UNIFLEX design 060

## Types 0345, 0455, 0555 and 0665

### Connection dimensions

#### UMB (Universal Mounting Brackets) made of aluminium

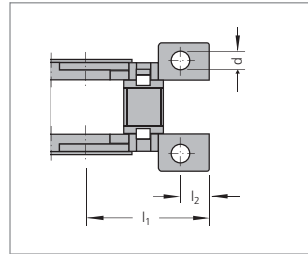
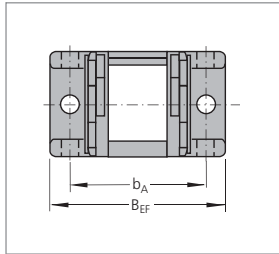
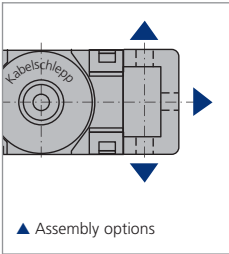


Universal connectors for connection above, below or at the front.

Inside heights



Inside widths



The dimensions of the fixed point and driver connections are identical.

Type	$B_{EF}$	$b_A$	$l_1$	$l_2$	$d$
0345	$B_i + 30$	$B_i + 20$	36	9	5.5
0455	$B_i + 30$	$B_i + 20$	47	10.5	5.5
0555	$B_i + 40$	$B_i + 28$	57	13.5	6.5
0665	$B_i + 44$	$B_i + 28$	68	14.5	8.5

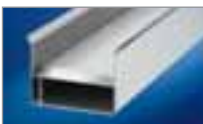
Dimensions in mm

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 Cable Carrier Configurator

Guide channels  
 ▶ from page 301



Strain relief devices  
 ▶ from page 307



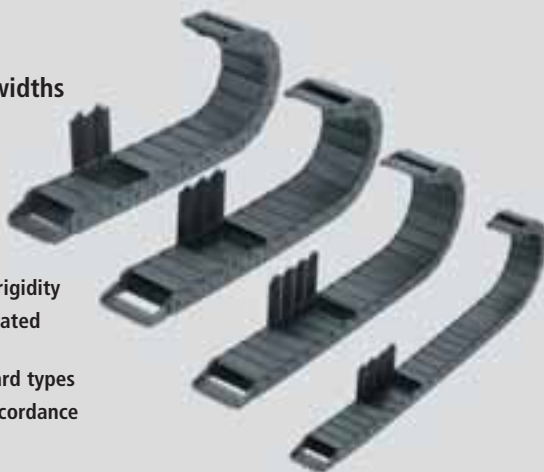
Cables for cable carrier systems  
 ▶ from page 350



## UNIFLEX

### TUBES with fixed chain widths

- Solid plastic
- Easy to open
- Robust, double stroke system for long unsupported lengths
- Particularly high torsional rigidity
- End connectors with integrated strain relief
- Economically priced standard types
- TÜV design approved in accordance with 2PFG 1036/10.97



Inside heights

19,5  
-  
44

Inside widths

15  
-  
175

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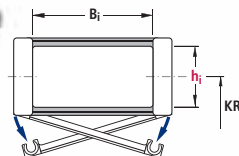
Fon:

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### Design 050 – covered on one side

- Outside: Covered
- Inside: Hinged, openable (on the right/left) and detachable brackets



Type	h <sub>i</sub>	B <sub>i</sub>	Maximum travel length in m	Dynamics of unsupported arrangement		Page
				Travel speed v <sub>max</sub> in m/s	Travel acceleration a <sub>max</sub> in m/s <sup>2</sup>	
0345.050	20	15-65	80	10	50	108
0455.050	26	25-130	120	10	50	108
0555.050	38	50-150	125	9	45	108
0665.050	44	50-175	150	8	40	108

Dimensions in mm

## Design 060 – covered on both sides

- Outside and inside: Covered
- Inside: Hinged, openable (on the right/left) and detachable cover



Inside heights



Inside widths



Type	h <sub>i</sub>	B <sub>i</sub>	Maximum travel length in m	Dynamics of unsupported arrangement		Page
				Travel speed v <sub>max</sub> in m/s	Travel acceleration a <sub>max</sub> in m/s <sup>2</sup>	
0345.060	19.5	15-65	80	10	50	216
0455.060	25	25-130	120	10	50	216
0555.060	36	50-150	125	9	45	216
0665.060	42	50-175	150	8	40	216

Dimensions in mm

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## Design 080 – covered on both sides

- Outside and inside: Covered
- Outside: Detachable cover



Type	h <sub>i</sub>	B <sub>i</sub>	Maximum travel length in m	Dynamics of unsupported arrangement		Page
				Travel speed v <sub>max</sub> in m/s	Travel acceleration a <sub>max</sub> in m/s <sup>2</sup>	
0600.080	44	50-125	100	6	35	222

Dimensions in mm

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# UNIFLEX – Types 0345, 0455, 0555 and 0665

## Design 060 – cable carriers covered on both sides

Outside and inside: Covered

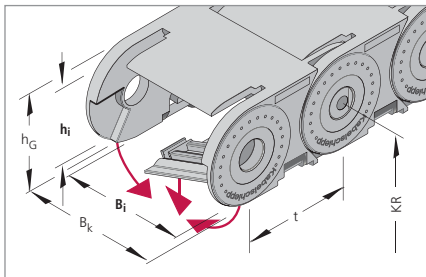
Inside: Hinged, openable (on the right/left) and detachable covers

Inside heights

19,5  
–  
42

Inside widths

15  
–  
175



## Dimensions and intrinsic chain weight

Type	$h_i$	$h_G$	Inside widths $B_i$						$B_k$
			Intrinsic chain weight						
0345	19.5	28	15	20	25	38	50	65	$B_i + 13$
			0.48	0.52	0.56	0.65	0.74	0.85	
0455	25	36	25	38	58	78	103	130	$B_i + 18$
			0.92	1.01	1.16	1.31	1.51	1.72	
0555	36	50	50	75	100	125	150	–	$B_i + 22$
			1.72	1.95	2.17	2.39	2.61	–	
0665	42	60	50	75	100	125	150	175	$B_i + 27$
			2.36	2.69	3.00	3.32	3.64	3.95	

Dimensions in mm/Weights in kg/m

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## Bend radius and pitch

Type	Bend radii KR mm					
0345	75	100	125	150	–	–
0455	95	125	150	180	200	225
0555	100	125	160	200	230	–
0665	120	140	200	250	300	–

Pitch t:

Type 0345: 34.5 mm

Type 0455: 45.5 mm

Type 0555: 55.5 mm

Type 0665: 66.5 mm

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## Example of ordering

Cable carrier

0555 - 060 - 125 - 160 - 1665

Type Design Inside width  $B_i$  in mm Bend radius KR in mm Chain length  $L_k$  in mm (with-out connection)

Divider system

TS 0 / 3

Divider system Number of dividers  $n_T$

Connection

FU/MU

Connection Fixed point/Driver

### Ordering divider systems:

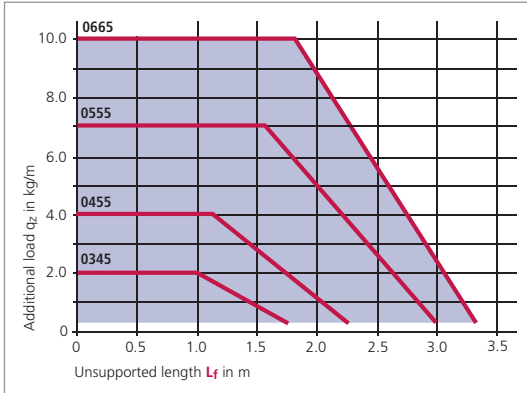
Please state the designation of the divider system (TS 0, TS 1 ...) and the number of dividers. Possibly attach a sketch with the dimensions.



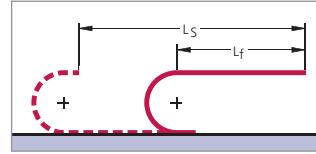
## UNIFLEX – Types 0345, 0455, 0555 and 0665

### Load diagram

for unsupported length  $L_f$  depending on the additional load



### Unsupported length $L_f$



In the case of longer travel lengths, sag of the cable carriers is technically permissible depending on the application.

In a gliding arrangement, even longer travel lengths are possible (see page 301).

We are at your service to advise on these applications.

Inside heights

19,5  
—  
42

Inside widths

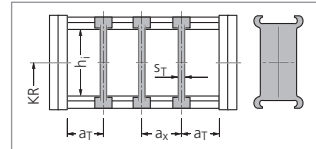
15  
—  
175

### Divider system TS 0

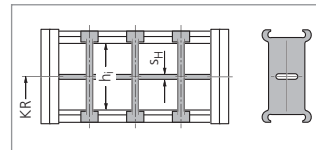
Type	$h_i$ mm	$S_T$ mm	$a_x$ mm	$B_i$ mm	$a_T$ min mm
0455	25	3	20	25	12.5
0455	25	3	20	38, 58, 78	19
0455	25	3	20	103	21.5
0455	25	3	20	130	25
0555	36	3	25	50 ... 150	25
0665	42	5	25	50 ... 175	25

The dividers are fixed at an interval of  $a_x$ .

For type 0665, the divider system TS 1 with a central height subdivision ( $S_H = 4$  mm) is also available.



In the standard version, the divider systems are mounted on every second chain link.



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# UNIFLEX – Types 0345, 0455, 0555 and 0665

## Strain relief devices for plastic connectors

Inside heights



Inside widths



### ZLK – A

Connecting elements with integrated, strain relief combs on both sides (ZLK – A)

### ZLK – L

Connecting elements with screw-on type strain relief combs (ZLK – L)

The strain relief combs are generally supplied with the connecting elements. The combs are either clipped to the end connectors and bolted together with them, or screwed on at the desired intervals, behind the connecting boreholes, behind the connecting elements.

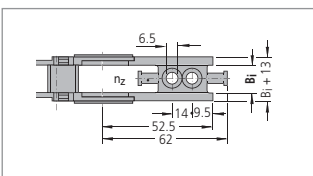
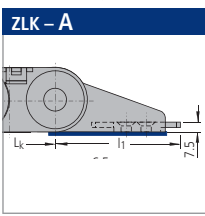
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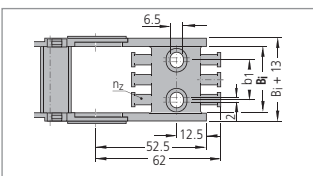
## Connecting elements Type 0345

Connecting elements with integrated strain relief combs on both sides

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For chain width  $B_i = 15 - 20$  mm



For chain width  $B_i = 25 - 65$  mm

The dimensions of the fixed point and driver connections are identical.

Type	$B_i$	$B_k$	$b_1$	$n_z$
0345 ... .15	15	28	–	1
0345 ... .20	20	33	–	1
0345 ... .25*	25	38	13	2
0345 ... .38	38	51	24	3
0345 ... .50	50	63	36	4
0345 ... .65	65	78	51	5

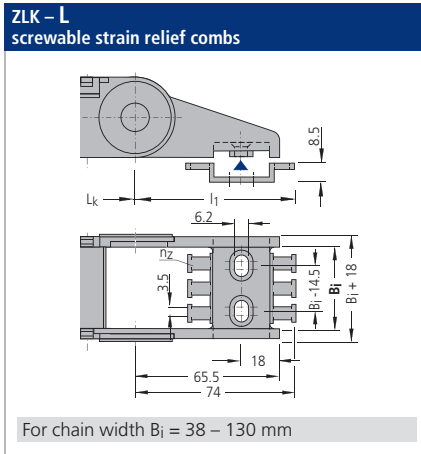
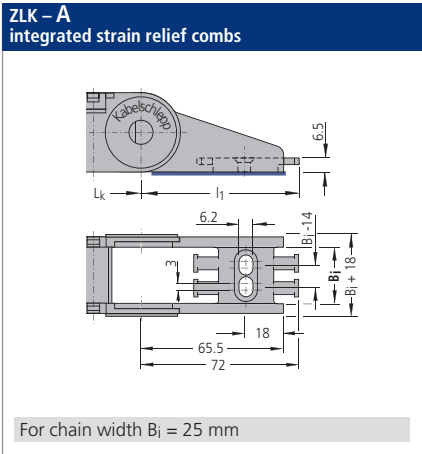
\* Type 0345 ... .25 with 6.5 mm hole  
Dimensions in mm  
(not an elongated hole)

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## UNIFLEX – Types 0345, 0455, 0555 and 0665

### Connecting elements Type 0455

Connecting elements with strain relief combs on both sides



Inside heights



Inside widths



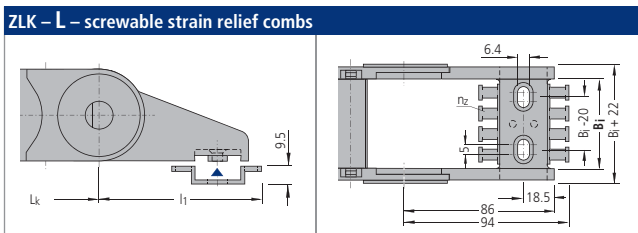
The dimensions of the fixed point and driver connections are identical.

Type	$B_i$	$B_k$	$n_z$
0455 ... .25	25	43	2
0455 ... .38	38	56	3
0455 ... .58	58	76	4
0455 ... .78	78	96	6
0455 ... .103	103	121	8
0455 ... .130	130	148	10

Dimensions in mm

### Connecting elements Type 0555

Connecting elements with strain relief combs on both sides



The dimensions of the fixed point and driver connections are identical.

Type	$B_i$	$B_k$	$n_z$
0555 ... .50	50	72	4
0555 ... .75	75	97	6
0555 ... .100	100	122	8
0555 ... .125	125	147	10
0555 ... .150	150	172	12

Dimensions in mm

# UNIFLEX – Types 0345, 0455, 0555 and 0665

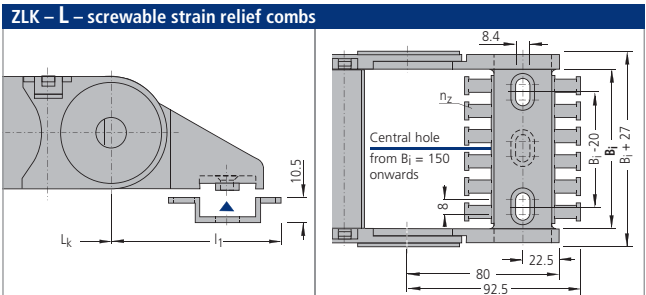
## Connecting elements Type 0665

Connecting elements with strain relief combs on both sides

Inside heights



Inside widths



The dimensions of the fixed point and driver connections are identical.

Type	B <sub>i</sub>	B <sub>k</sub>	n <sub>z</sub>
0665. ....50	50	77	4
0665. ....75	75	102	6
0665. ....100	100	127	8
0665. ....125	125	152	10
0665. ....150	150	177	12
0665. ....175	175	202	14
0665. ....200	200	227	16
0665. ....225	225	252	18
0665. ....250	250	277	20

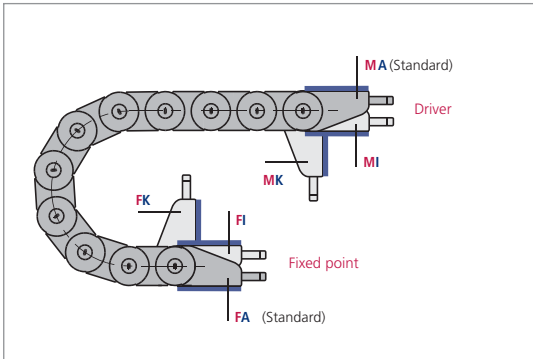
Dimensions in mm

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Fon: +49 2762 4003-0

Use our free project planning service.

## Connection variants for design 060



### Connection point

- M** – Driver
- F** – Fixed point

### Connection type

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

In the standard version, the connectors are mounted with the threaded joint outwards (**FA/MA**).

When ordering please specify the desired connection type (see ordering key on page 340).

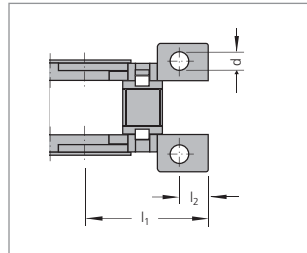
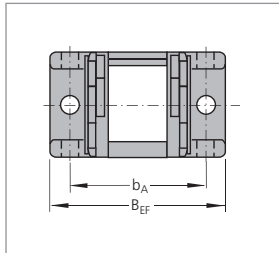
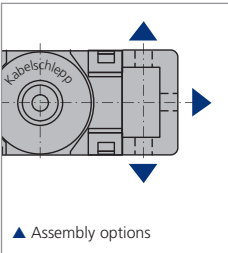
The connection type can subsequently be altered simply by varying the connectors.

## UNIFLEX – Types 0345, 0455, 0555 and 0665

### UMB (Universal Mounting Brackets) made of aluminium



Universal connectors for connection above, below or at the front.



The dimensions of the fixed point and driver connections are identical.

When ordering please specify the connection type FU/MU (see ordering key on page 340).

Type	$B_{EF}$	$b_A$	$l_1$	$l_2$	$d$
0345	$B_i + 30$	$B_i + 20$	36	9	5.5
0455	$B_i + 30$	$B_i + 20$	47	10.5	5.5
0555	$B_i + 40$	$B_i + 28$	57	13.5	6.5
0665	$B_i + 44$	$B_i + 28$	68	14.5	8.5

Dimensions in mm

Inside heights



Inside widths

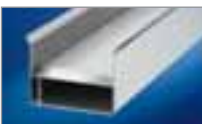


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OnlineEngineer.de  
with Cable  
Carrier Configurator

Guide channels  
▶ from page 301



Strain relief devices  
▶ from page 307



Cables for cable carrier systems  
▶ from page 350



# UNIFLEX – Type 0600 Tube, lightweight construction

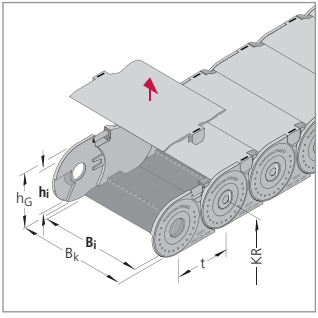
## Design 080 – cable carriers covered on both sides

Outside and inside: Covered  
 Outside: Detachable cover

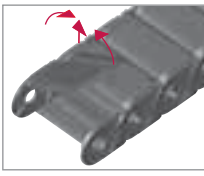
Innenhöhe



Inside widths



Cable carrier covered on both sides in a **lightweight design**. Can be opened on the outside for fast cable laying. Provides particularly good protection for the cables from all types of contamination, machining chips and moisture.



Also available with hinged cover – please contact us.

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### Dimensions and intrinsic chain weight

Type	h <sub>i</sub>	h <sub>G</sub>	Inside widths B <sub>i</sub>				B <sub>k</sub>
			50	75	100	125	
0600	44	61	1.60	1.88	2.15	2.42	B <sub>i</sub> + 18
			Intrinsic chain weight				

Dimensions in mm/Weights in kg/m

Fon: +49 2762 4003-0

### Bend radius and pitch

Bend radii KR mm				
100	125	150	175	200

Pitch t = 60.0 mm

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### Example of ordering

Cable carrier: **0600** - **080** - **125** - **175** - **1800**

Type Design Inside width B<sub>i</sub> in mm Bend radius KR in mm Chain length L<sub>k</sub> in mm (with-out connection)

Divider system: **TS 0** / **3**

Divider system Number of dividers n<sub>T</sub>

Connection: **FU/MU**

Connection Fixed point/Driver

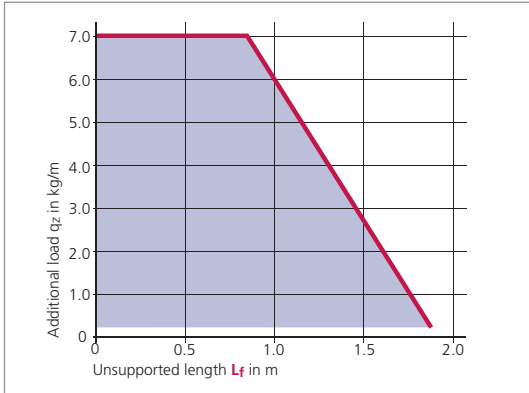
#### Ordering divider systems:

Please state the designation of the divider system (TS 0, TS 1 ...) and the number of dividers. Possibly attach a sketch with the dimensions.

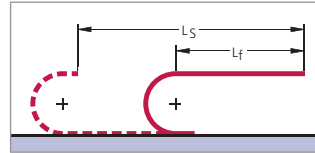
## UNIFLEX – Type 0600 Tube, lightweight construction

### Load diagram

for unsupported length  $L_f$  depending on the additional load



### Unsupported length $L_f$



In the case of longer travel lengths, sag of the cable carriers is technically permissible depending on the application.

In a gliding arrangement, even longer travel lengths are possible (see page 301).

We are at your service to advise on these applications.

Innenhöhe



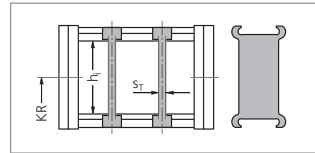
Inside widths



### Divider system TS 0

Type	$h_i$ mm	$S_T$ mm
0600	44	3

In the standard version, the dividers can be moved in the cross section. The dividers can be fixed in 10 mm sections simply by re-attaching.

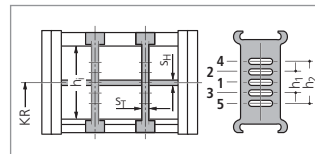


In the standard version, the divider systems are mounted on every second chain link.

### Divider system TS 1 with continuous height subdivision

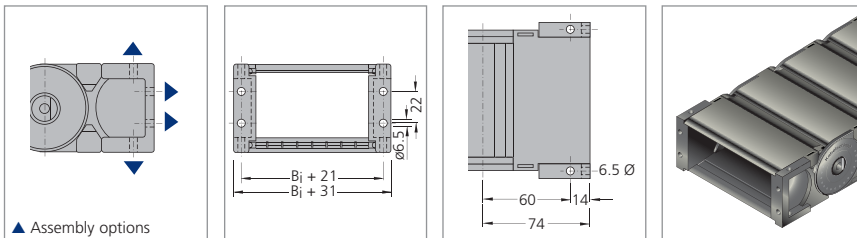
Type	$h_i$ mm	$S_T$ mm	$S_H$ mm	$h_1$ mm	$h_2$ mm
0600	44	3	4	14	28

In the standard version, the dividers can be moved in the cross section. The dividers can be fixed in 10 mm sections simply by re-attaching.



In the standard version, the divider systems are mounted on every second chain link.

### UMB (Universal Mounting Brackets) made of aluminium



The dimensions of the fixed point and driver connections are identical.

When ordering please specify the connection type FU/MU (see ordering key on page 340).

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KABELSCHLEPP  
Cable Carrier Configurator

# XL Series

The power to innovate





# XL Series

Cable carrier with large inside height

- Large dimensions
- Low intrinsic weight
- TÜV design approved in accordance with 2PFG 1036/10.97



Inside height

108

Inside widths

200

1000

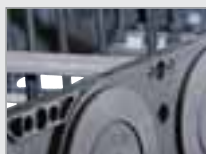
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 Cable Carrier Configurator

Subject to change.



Bolted stays and cover systems for maximum stability even with large carrier widths



Replaceable glide shoes for long service life for gliding applications



Stable end connector made of steel (different connection variants)



Many separation options for the cables

## Type XLC 1650

with aluminium stays

- Available in 1 mm width sections

WIDTHSECTIONS



Inside height

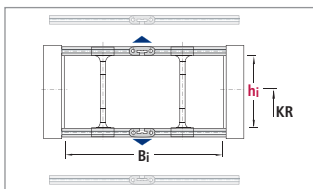


Inside widths



Type	h <sub>i</sub>	B <sub>i</sub>	Maximum travel length in m	Dynamics of unsupported arrangement		Page
				Travel speed v <sub>max</sub> in m/s	Travel acceleration a <sub>max</sub> in m/s <sup>2</sup>	
XLC 1650	108	200-1000	350	4	25	185

Dimensions in mm



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### Stay variants

#### Frame stay RM

##### Solid design

Bolted, maximum stability, maximum chain widths possible.



#### Additional stay variants:



#### Stay variant LG made of aluminium:

Optimum cable routing in the neutral bending line



**Stay variant RMR:** Gentle cable laying by means of rollers. Ideal for hydraulics hoses with "soft" jackets

### Stay arrangement

**Standard:** on every 2nd chain link

The stays can be mounted on every chain link, please specify when placing your order.



## TUBE SERIES – covered cable carriers

Type XLT 1650 with aluminium cover system



Use our free project planning service.

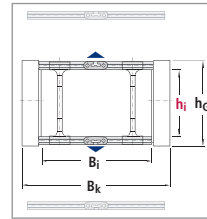
## Type XLC 1650

### Dimensions and intrinsic chain weight

Type	Stay variant	h <sub>j</sub>	h <sub>G</sub>	B <sub>i</sub> min	q <sub>k</sub> min	B <sub>i</sub> max	q <sub>k</sub> max	B <sub>k</sub>
XLC 1650	RM	108	140	200	10.5	1000	15.3	B <sub>i</sub> + 68

Dimensions in mm/Weights in kg/m

WIDTH SECTIONS  
1 mm



Inside height

108

Inside widths

200 - 1000

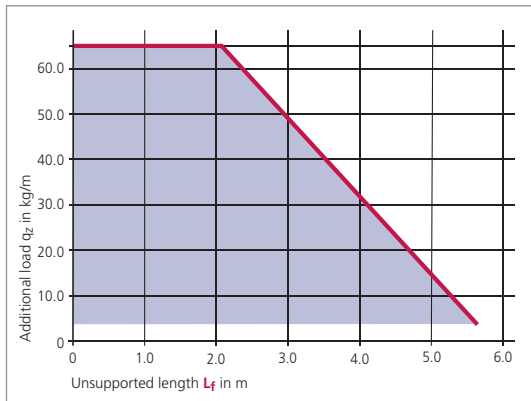
### Bend radius and pitch

Type	Bend radii KR mm						
XLC 1650	250	300	350	400	450	500	550

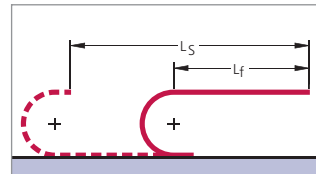
Pitch t = 165 mm

### Load diagram

for unsupported length  $L_f$  depending on the additional load



Unsupported length  $L_f$



In the case of longer travel lengths, sag of the cable carriers is technically permissible depending on the application.

In a gliding arrangement, even longer travel lengths are possible (see page 301).

We are at your service to advise on these applications.

Fon:

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### Example of ordering

Cable carrier					Divider system		Connection
XLC 1650	600	RM	350	4125	TS 0	4	FA/MA
Type	Inside width B <sub>i</sub> in mm	Stay variant	Bend radius KR in mm	Chain length* L <sub>k</sub> in mm (without connection)	Divider system	Number of dividers n <sub>T</sub>	Connection Fixed point/Driver

#### Ordering divider systems:

Please state the designation of the divider system (TS 0, TS 1 ...) and the number of dividers. Possibly attach a sketch with the dimensions.

\* The calculated chain length L<sub>k</sub> **must** always be rounded to an odd number of chain links.

# Type XLC 1650

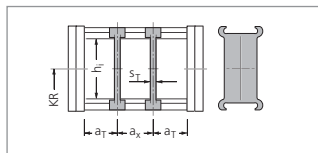
## Divider system TS 0

Inside height  
108

Inside widths  
200  
1000

Type	Stay variant	$h_i$ mm	$S_T$ mm	$a_T$ min mm	$a_x$ min mm
XLC 1650	RM	108	8	6	25

The dividers can be moved in the cross section.

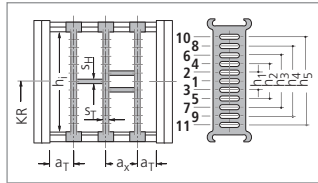


In the standard version, the divider systems are mounted on every second chain link.

## Divider system TS 3 with section subdivision, partitions made of plastic

Type	Stay variant	$h_i$ mm	$S_T$ mm	$a_T$ min mm	$a_x$ min mm	$S_H$ mm	$h_1$ mm	$h_2$ mm	$h_3$ mm	$h_4$ mm	$h_5$ mm
XLC 1650	RM	108	8	1	16*	4	14	28	42	56	70

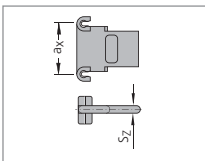
\* When using plastic partitions  
The dividers are fixed by the partitions, the complete divider system is movable.



In the standard version, the divider systems are mounted on every second chain link.

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## Dimensions of the plastic partitions for TS 3



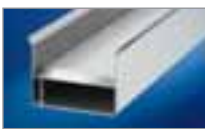
$S_z$	$a_x$ (center-to-center dividers)									
	4	16	18	23	28	32	33	38	43	48
	64	68	78	80	88	96	112	128	144	160
	176	192	208	-	-	-	-	-	-	-

Dimensions in mm

When using partitions with  $a_x > 112$  mm there should be an additional central support with a twin divider ( $S_T = 5$  mm).  
Twin dividers are designed for subsequent fitting in the partition system.

Use our free project planning service.

Guide channels  
➤ from page 301



Strain relief devices  
➤ from page 307



Cables for cable carrier systems  
➤ from page 350



## Type XLC 1650

### Gliding elements – the economical solution for gliding applications

#### Replaceable glide shoes made of plastic

To extend the life of cable carriers in gliding operations KABELSCHLEPP supplies detachable, exchangeable glide shoes. Replaceable glide shoes are a very economical solution. When wear occurs only the glide shoes are replaced, and not the complete cable carrier.

#### Chain height with glide shoes:

$$h_{G'} = 147 \text{ mm}$$



Inside height



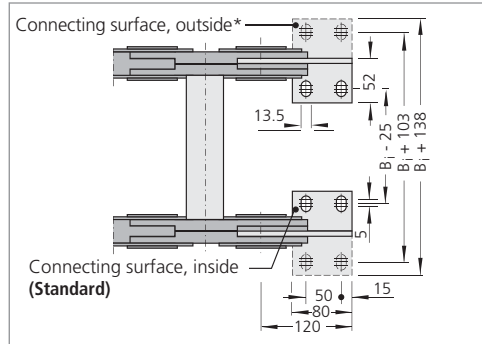
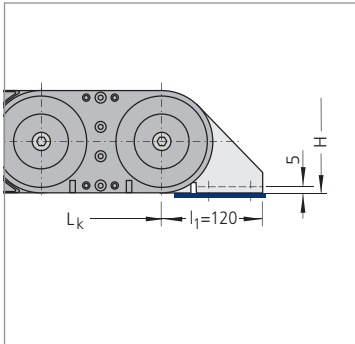
Inside widths



**!** By means of a positive snap connection, the glide shoes sit firmly on the chain link.

### Connection dimensions

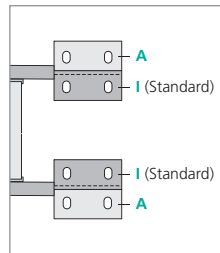
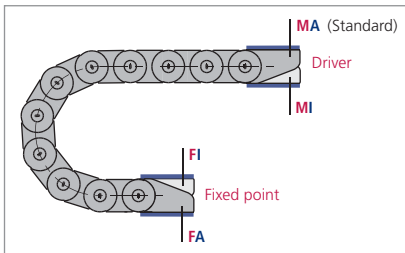
#### End connector made of steel plate



The dimensions of the fixed point and driver connections are identical.

\* Please specify when ordering.

### Connection variants



The connecting surfaces on the driver and fixed point can be mounted on the outside or inside according to preference.

#### Connection point Connection type

**M** – Driver      **A** – Threaded joint outside (standard)  
**F** – Fixed point    **I** – Threaded joint, inside

#### Connecting surface

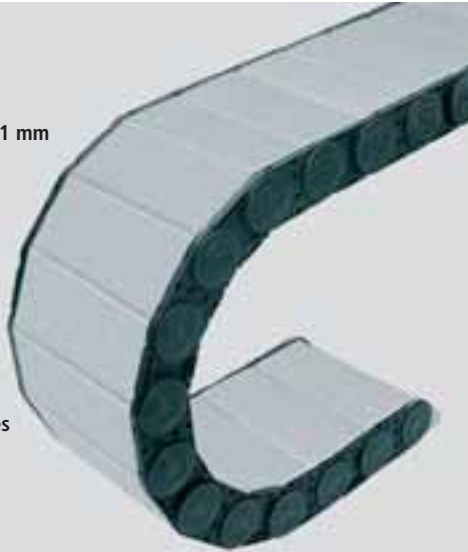
**I** – Connecting surface inside (< B<sub>k</sub>)  
**A** – Connecting surface outside (> B<sub>k</sub>)

In the standard version, the end connectors are mounted with the threaded joint outwards (**FAI/MAI**). When ordering please specify the desired connection type (see ordering key on page 343).

## XLT Series

### TUBES with variable chain widths

- Aluminium cover systems available in 1 mm width sections
- Large dimensions
- Can be quickly opened on the inside and outside for cable laying
- Highly wear-resistant, replaceable glide shoes available – resulting in minimal wear at high speeds, sliding in the guide channel
- Different connection variants
- Different ways of separating the cables
- Optionally with strain relief
- TÜV design approved in accordance with 2PFG 1036/10.97



Inside height

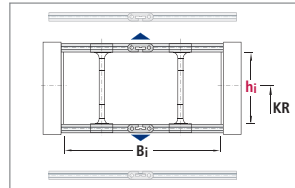


Inside widths



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## Type XLT with aluminium cover system (stay variant RMD)



Type	h <sub>i</sub>	B <sub>i</sub>	Maximum travel length in m	Dynamics of unsupported arrangement		Page
				Travel speed v <sub>max</sub> in m/s	Travel acceleration a <sub>max</sub> in m/s <sup>2</sup>	
XLT 1650	105	200-1000	300	4	20	244

Dimensions in mm

Font:

+49 2762 4003-0

## Carrier construction and cover system

### WIDTH SECTIONS



Available in 1 mm width sections.

RMD cover system made of aluminium – old version

Bolted, high stability, large carrier widths



OnlineEngineer.de  
With Kabelschlepp Cable Carrier Configurator

# Type XLT 1650

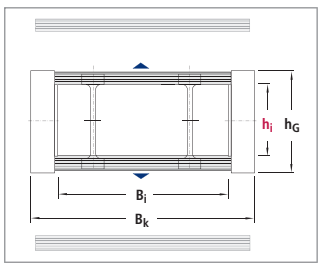
## Dimensions and intrinsic chain weight

Inside height  
105

Inside widths  
200  
1000

Type	Stay variant	h <sub>i</sub>	h <sub>G</sub>	B <sub>i</sub> min	q <sub>k</sub> min	B <sub>i</sub> max	q <sub>k</sub> max	B <sub>k</sub>
XLT 1650	RMD	105	140	200	17	1000	50	B <sub>i</sub> + 68

Dimensions in mm



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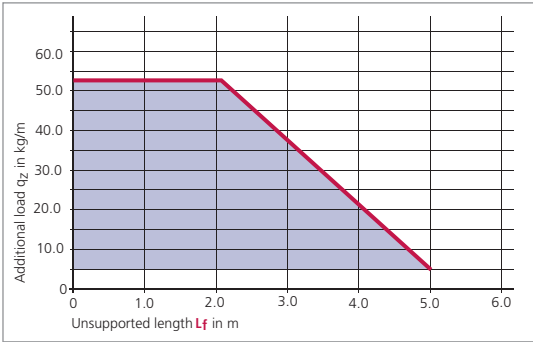
## Bend radius and pitch

Type	Bend radii KR mm						
XLT 1650	250	300	350	400	450	500	550

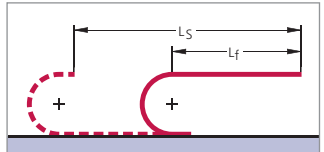
Pitch t = 165 mm

## Load diagram

for unsupported length L<sub>f</sub> depending on the additional load



## Unsupported length L<sub>f</sub>



In the case of longer travel lengths, sag of the cable carriers is technically permissible depending on the application.

In a gliding arrangement, even longer travel lengths are possible (see page 301).

We are at your service to advise on these applications.

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Use our free project planning service.

## Example of ordering

Cable carrier					Divider system		Connection
XLT 1650	700	RMD	400	4950	TS 0	4	FA/MA
Type	Inside width B <sub>i</sub> in mm	Stay variant	Bend radius KR in mm	Chain length* L <sub>k</sub> in mm (without connection)	Divider system	Number of dividers n <sub>T</sub>	Connection Fixed point/Driver

### Ordering divider systems:

Please state the designation of the divider system (TS 0, TS 1 ...) and the number of dividers. Possibly attach a sketch with the dimensions.

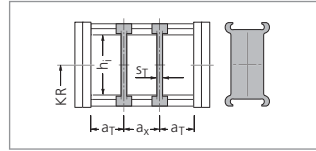
\* The calculated chain length L<sub>k</sub> must always be rounded to an odd number of chain links.

## Type XLT 1650

### Divider system TS 0

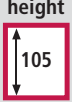
Type	Stay variant	h <sub>i</sub> mm	S <sub>T</sub> mm	a <sub>T</sub> min mm	a <sub>x</sub> min mm
XLT 1650	RMD	105	8	6	25

The dividers can be moved in the cross section.



In the standard version, the divider systems are mounted on every second chain link.

Inside height



Inside widths

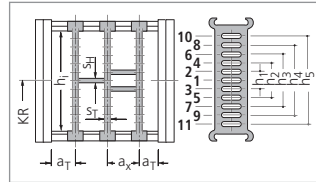


### Divider system TS 3 with section subdivision, partitions made of plastic

Type	Stay variant	h <sub>i</sub> mm	S <sub>T</sub> mm	a <sub>T</sub> min mm	a <sub>x</sub> min mm	S <sub>H</sub> mm	h <sub>1</sub> mm	h <sub>2</sub> mm	h <sub>3</sub> mm	h <sub>4</sub> mm	h <sub>5</sub> mm
XLT 1650	RMD	105	8	1	16*	4	14	28	42	56	70

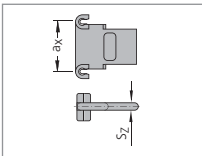
\* When using plastic partitions

The dividers are fixed by the partitions, the complete divider system is movable.



In the standard version, the divider systems are mounted on every second chain link.

### Dimensions of the plastic partitions for TS 3



Sz	a <sub>x</sub> (center-to-center dividers)										
4	16	18	23	28	32	33	38	43	48	58	
	64	68	78	80	88	96	112	128	144	160	
	176	192	208	-	-	-	-	-	-	-	-

Dimensions in mm

Aluminium partitions in 1 mm width sections are also available.

When using **partitions with a<sub>x</sub> > 112 mm** there should be an additional central support with a **twin divider** (S<sub>T</sub> = 5 mm).

Twin dividers are designed for subsequent fitting in the partition system.

## Gliding elements – the economical solution for gliding applications

### Replaceable glide shoes made of plastic

To extend the life of cable carriers in gliding operations KABELSCHLEPP supplies detachable, exchangeable glide shoes.

Replaceable glide shoes are a very economical solution. When wear occurs only the glide shoes are replaced, and not the complete cable carrier.

### Chain height with glide shoes:

$$h_G' = 147 \text{ mm}$$



By means of a positive snap connection, the glide shoes sit firmly on the chain link.

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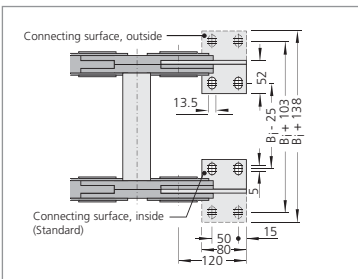
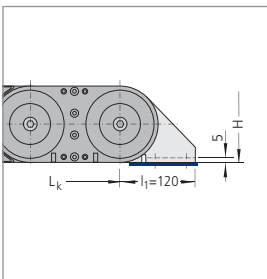
OnlineEngineer.de  
KABELSCHLEPP  
Cable Carrier Configurator



# Type XLT 1650

## Connectors made of steel plate

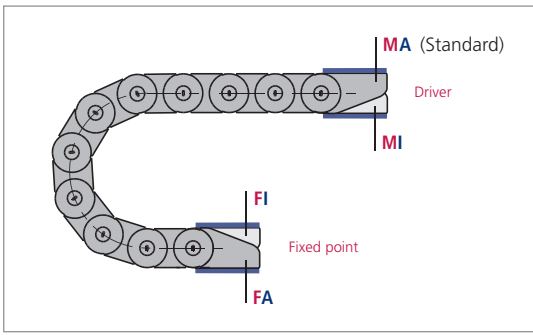
- Inside height: 105
- Inside widths: 200, 1000



The dimensions of the fixed point and driver connections are identical.

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## Connection variants



- Connection point**
- M** – Driver
  - F** – Fixed point
- Connection type**
- A** – Threaded joint (standard)
  - I** – Threaded joint, inside

In the standard version, the connectors are mounted with the threaded joint outwards (**FA/MA**).

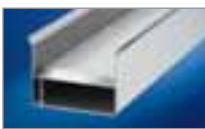
When ordering please specify the desired connection type (see ordering key on page 343).

The connection type can subsequently be altered.

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 ▶ from page 301



Strain relief devices  
 ▶ from page 307



Cables for cable carrier systems  
 ▶ from page 350

