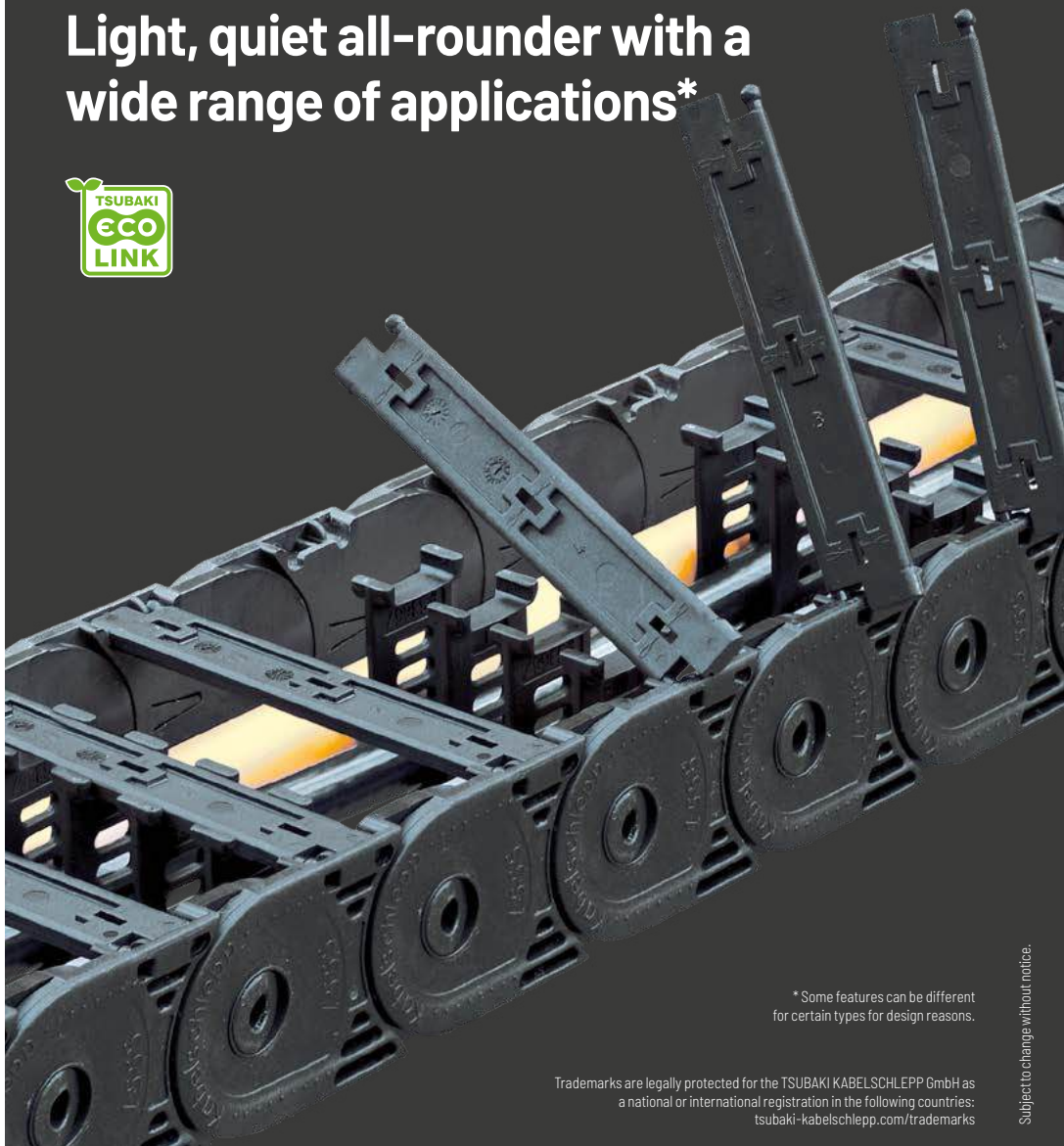


# UNIFLEX *Advanced* series

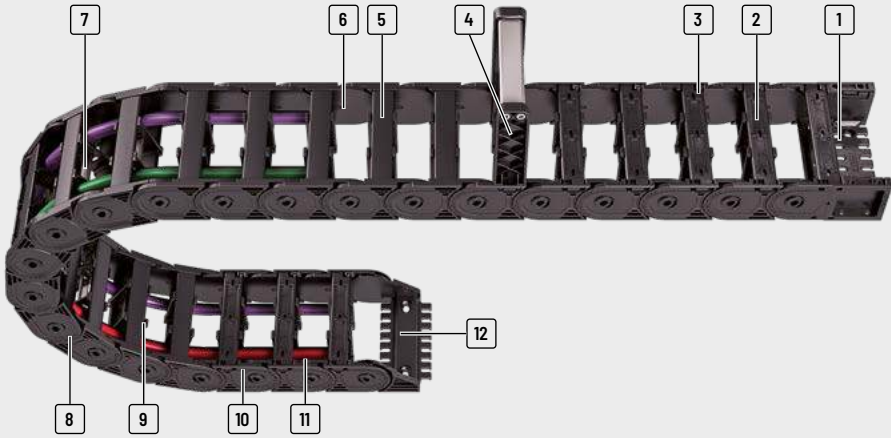
Light, quiet all-rounder with a  
wide range of applications\*



\* Some features can be different  
for certain types for design reasons.

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a national or international registration in the following countries:  
[tsubaki-kabelschlepp.com/trademarks](http://tsubaki-kabelschlepp.com/trademarks)

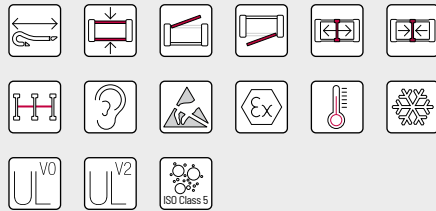
Subject to change without notice.



- |  |   |  |  |
|--|---|--|--|
| <p><b>1</b> Universal mounting bracket (UMB) with integratable strain relief comb</p> <p><b>2</b> Designs with inside or outside opening stays</p> <p><b>3</b> Extremely fast and easy to open due to ball joint mechanism</p> | <p><b>4</b> Top-mounted frame stay</p> <p><b>5</b> Single-part links (type 020)</p> <p><b>6</b> Favourable ratio of inner to outer width</p> <p><b>7</b> Many separation options for the cables</p> | <p><b>8</b> Robust double-stroke system for long unsupported lengths</p> <p><b>9</b> Easy divider fixing</p> <p><b>10</b> Very quiet through integrated noise damping</p> <p><b>11</b> Lateral wear surfaces</p> | <p><b>12</b> Single-part end connectors with integratable strain relief comb</p> |
|--|---|--|--|

## Features

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>» Extensive unsupported lengths</li> <li>» High torsional rigidity</li> <li>» Good ratio of inner to outer width</li> <li>» Numerous custom material types for custom applications available</li> <li>» Easy assembly and fast cable laying</li> <li>» Assembly tools available</li> <li>» Stays with ball joint opening on both sides</li> <li>» Many possibilities for internal subdivision</li> </ul> | <ul style="list-style-type: none"> <li>» Wear surfaces for gliding applications with extended travel lengths</li> </ul> |
|---|---|



**Fixable dividers for arrangements rotated by 90° and applications with high lateral accelerations – no additional spacers required**



**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**

Cable carrier

Cable carrier configuration

Configuration guidelines

Materials information

MONO series

QuickTrax® series











UNIFLEX Advanced series

TKP35 series

TKK series

EasyTrax® series

Type	Opening variant	Stay variant	$h_i$ [mm]	$h_G$ [mm]	$B_i$ [mm]	$B_k$ [mm]	$B_i$ - grid [mm]	t [mm]	KR [mm]	Additional load ≤ [kg/m]	Cable- d <sub>max</sub> [mm]
UA1250											
		020	17.5	23	30 - 50	60	-	25	28 - 100	4	14
UA1320											
		020	20	25.5	15 - 65	27 - 77	-	32	28 - 125	3.0	16
UA1455											
		020	26	36	25 - 130	41 - 146	-	45.5	52 - 200	6	20.5
		030	26	36	25 - 130	41 - 146	-	45.5	52 - 200	6	20.5
		040	26	36	25 - 130	41 - 146	-	45.5	52 - 200	6	20.5
UA1555											
		020	38	50	50 - 150	68 - 168	-	55.5	63 - 200	10	30
		030	38	50	50 - 150	68 - 168	-	55.5	63 - 200	10	30
		040	38	50	50 - 150	68 - 168	-	55.5	63 - 200	10	30
UA1665											
		020	44	60	50 - 250	72 - 272	-	66.5	75 - 300	15	35
		030	44	60	50 - 250	72 - 272	-	66.5	75 - 300	15	35
		040	44	60	50 - 250	72 - 272	-	66.5	75 - 300	15	35
		RMAI	44 (114-189)	60 (170-245)	125 - 200	147 - 222	1	66.5	200 - 300	15	35/151
		RMAO	44 (114-189)	60 (170-245)	125 - 200	147 - 222	1	66.5	75 - 300	15	35/151

Unsupported arrangement			Gliding arrangement			Inner Distribution				Movement			Page
Travel length ≤ [m]	$v_{max}$ ≤ [m/s]	$a_{max}$ ≤ [m/s <sup>2</sup> ]	Travel length ≤ [m]	$v_{max}$ ≤ [m/s]	$a_{max}$ ≤ [m/s <sup>2</sup> ]	TS0	TS1	TS2	TS3	vertical hanging or standing	lying on the side	rotating arrangement	
													
1,6	10	50	60	3	30	•	-	-	-	•	•	•	152
2,9	10	50	80	2,5	25	•	-	-	-	•	•	•	158
4,8	10	50	120	2,5	20	•	-	-	•	•	•	•	164
4,8	10	50	120	2,5	20	•	•	-	•	•	•	•	165
4,8	10	50	-	-	-	•	•	-	•	•	•	•	166
6,3	9	45	125	3	20	•	-	-	•	•	•	•	174
6,3	9	45	125	3	20	•	•	-	•	•	•	•	175
6,3	9	45	-	-	-	•	•	-	•	•	•	•	176
7	8	40	150	3	15	•	-	-	•	•	•	•	184
7	8	40	150	3	15	•	•	-	•	•	•	•	185
7	8	40	-	-	-	•	•	-	•	•	•	•	186
7	8	40	150	3	15	•	•	-	•	•	•	-	188
7	8	40	150	3	15	•	•	-	•	•	•	-	190

Subject to change without notice.

Cable carrier

Cable carrier  
configuration

Configuration  
guidelines

Materials  
information

MONO  
series

QuickTrax®  
series

UNIFLEX  
Advanced  
series

TKP35  
series

TKK  
series

EasyTrax®  
series

	Cable carrier	Cable carrier configuration	Configuration guidelines	Materials information	MONO series	QuickTrax® series	UNIFLEX Advanced series	TKP35 series	TKK series	EasyTrax® series	
Type	Opening variant	Stay variant	$h_i$ [mm]	$h_G$ [mm]	$B_i$ [mm]	$B_k$ [mm]	$B_i$ -grid [mm]	t [mm]	KR [mm]	Additional load ≤ [kg/m]	Cable- $d_{max}$ [mm]
UA1775											
		020	56	77	100 - 400	126 - 476	-	77.5	90 - 340	25	44
		030	56	77	100 - 400	126 - 476	-	77.5	90 - 340	25	44
		040	56	77	100 - 400	126 - 476	-	77.5	90 - 340	25	44
UA1995											
		020	80	110	85 - 250	115 - 280	-	99.5	150 - 500	50	64
		030	80	110	85 - 250	115 - 280	-	99.5	150 - 500	50	64
		040	80	110	85 - 250	115 - 280	-	99.5	150 - 500	50	64
		070	80	110	85 - 250	115 - 280	-	99.5	150 - 500	50	64

Subject to change without notice.

Unsupported arrangement			Gliding arrangement			Inner Distribution				Movement			Page
Travel length ≤ [m]	v <sub>max</sub> ≤ [m/s]	a <sub>max</sub> ≤ [m/s <sup>2</sup> ]	Travel length ≤ [m]	v <sub>max</sub> ≤ [m/s]	a <sub>max</sub> ≤ [m/s <sup>2</sup> ]	TS0	TS1	TS2	TS3	vertical hanging or standing	lying on the side	rotating arrangement	
6.8	10	35	200	3	8	•	-	-	•	•	•	•	198
6.8	10	35	200	3	8	•	•	-	•	•	•	•	199
6.8	10	35	200	3	8	•	•	-	•	•	•	•	200
9	10	25	200	8	20	•	-	-	•	•	•	•	206
9	10	25	200	8	20	•	•	-	•	•	•	•	207
9	10	25	200	8	20	•	•	-	•	•	•	•	208
9	10	25	200	8	20	•	•	-	•	•	•	•	209

Cable carrier
Cable carrier configuration
Configuration guidelines
Materials information
MONO series
QuickTrax® series
UNIFLEX Advanced series
TKP35 series
TKK series
EasyTrax® series

# UA1250



**Pitch**  
25 mm



**Inner height**  
17,5 mm



**Inner widths**  
30 – 50 mm



**Bending radii**  
28 – 100 mm

## Stay variants



**Design 020** ..... page 158

### Closed frame

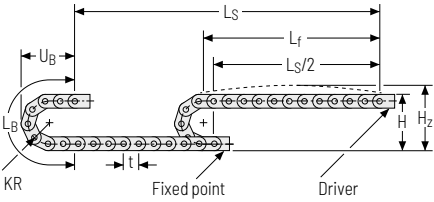
- » Weight-optimised, closed plastic frame with particularly high torsional rigidity.
- » **Outside/inside:** not openable.



### QuickTrax® | EasyTrax®

For an openable cable carrier with 16.5 – 17.6 mm inner height we recommend the series QuickTrax® 0250 or EasyTrax® 0250 QT0250 from page 132 and ET0250 from page 246.

Unsupported arrangement

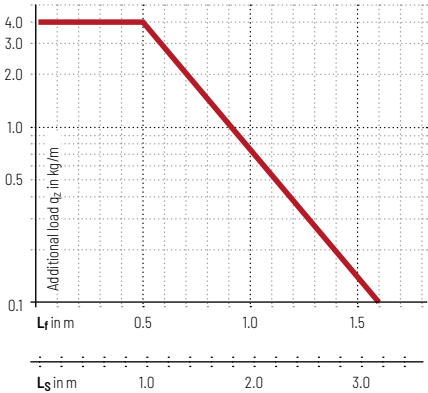


KR [mm]	H [mm]	H <sub>z</sub> [mm]	L <sub>B</sub> [mm]	U <sub>B</sub> [mm]
28	79	104	138	65
38	99	124	169	75
45	113	138	191	82
60	143	168	238	97
75	173	198	286	112
100	223	248	364	137

**Load diagram for unsupported length** depending on the additional load.

Sagging of the cable carrier is technically permitted for extended travel lengths, depending on the specific application.

Intrinsic cable carrier weight  $q_k = 0.36 \text{ kg/m}$  with  $B_i 50 \text{ mm}$ . For other inner widths, the maximum additional load changes.



**Speed**  
up to 10 m/s



**Acceleration**  
up to  $50 \text{ m/s}^2$

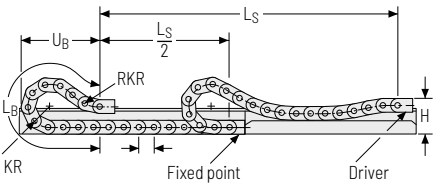


**Travel length**  
up to 1.6 m



**Additional load**  
up to 4 kg/m

Gliding arrangement



**Speed**  
up to 3 m/s



**Acceleration**  
up to  $30 \text{ m/s}^2$



**Travel length**  
up to 60 m



**Additional load**  
up to 4kg/m



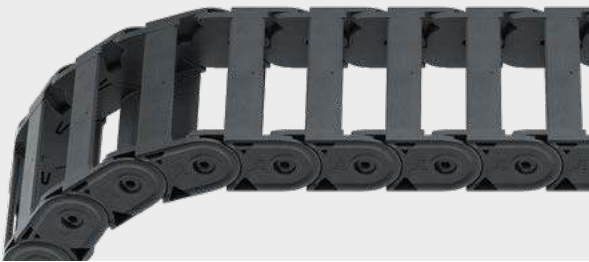
The gliding cable carrier must be guided in a channel.  
See p. 866.

Cable carrier	
Cable carrier configuration	
Configuration guidelines	
Materials information	
MONO series	
QuickTrax® series	
UNIFLEX Advanced series	
TKP35 series	
TKK series	
EasyTrax® series	



Stay variant 020 – closed frame

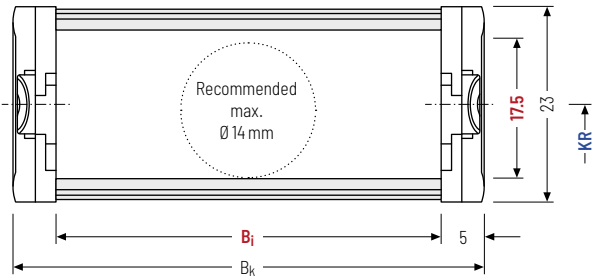
- » Weight-optimised, closed plastic frame with particularly high torsional rigidity.
- » **Outside/inside:** not openable.



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



$B_i$  30 – 50 mm



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

Calculating the cable carrier length

Cable carrier length  $L_k$

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

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

$h_i$ [mm]	$h_G$ [mm]	$B_i$ [mm]		$B_k$ [mm]	$KR$ [mm]						$q_k$ [kg/m]
17.5	23	30	50	$B_i + 10$	28	38	45	60	75	100	0.32 – 0.36

Order example



UA1250

Type

020

Stay variant

50

$B_i$  [mm]

75

$KR$  [mm]

1100

$L_k$  [mm]

VS

Stay arrangement

Divider systems

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

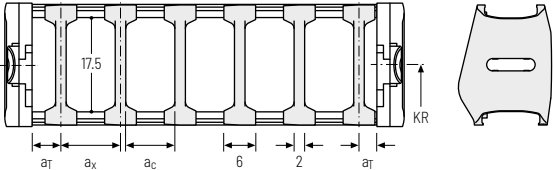
As a standard, dividers or the complete divider system (dividers with height separations) are movable in the cross section (**version A**).

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

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

Divider system TSO without height separation

Vers.	a <sub>T</sub> min [mm]	a <sub>x</sub> min [mm]	a <sub>c</sub> min [mm]	a <sub>x</sub> grid [mm]	n <sub>T</sub> min
A	3	6	4	-	-
B	3	6	4	2	-



Order example



TSO . A . 3  
Divider system Version n<sub>T</sub>

Please state the designation of the divider system (TSO), the version, and the number of dividers per cross section [n<sub>T</sub>]. You are welcome to add a sketch to your order.

Cable carrier

Cable carrier configuration

Configuration guidelines

Materials information

MONO series

QuickTrax® series

UNIFLEX Advanced series

TKP35 series

TKK series

EasyTrax® series

Additional product information online



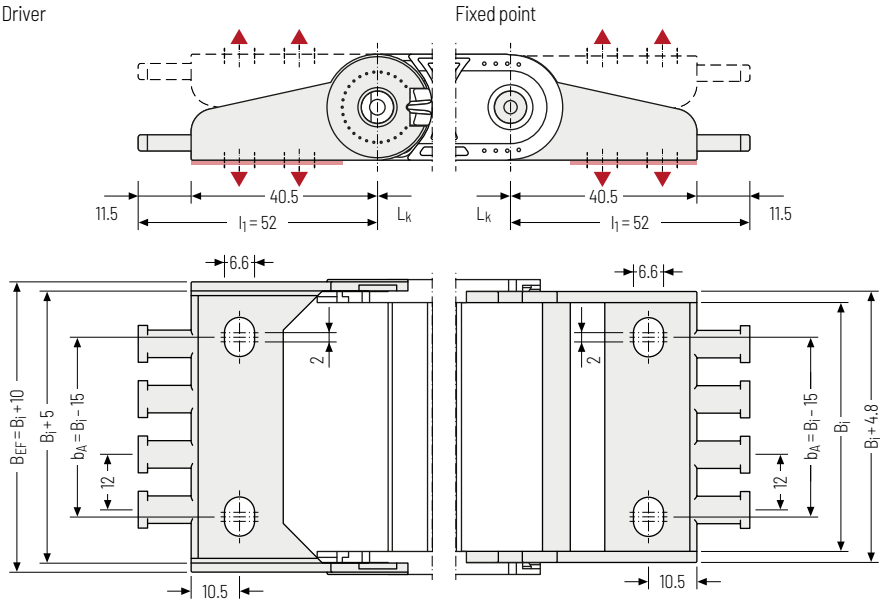
Installation instructions, etc.:  
Additional info via your smartphone or check online at  
[tsubaki-kabelschlepp.com/downloads](https://tsubaki-kabelschlepp.com/downloads)



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

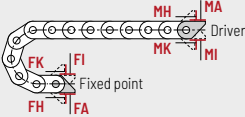
Single-part end connectors – plastic (with integrated strain relief)

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



▲ Assembly options

$B_1$ [mm]	$B_{EF}$ [mm]	$n_z$
30	40	2
50	60	4



Connection point

- F – fixed point
- M – driver

Connection type

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

Order example

End connector

F

A

End connector

M

A

End connector

Connection point

Connection type

Subject to change without notice.



UNIFLEX Advanced series					QuickTrax® series	MONO series	Materials information	Configuration guidelines	Cable carrier configuration	Cable carrier
EasyTrax® series	TKK series	TKP35 series								

# UA1320



**Pitch**  
32 mm



**Inner height**  
20 mm



**Inner widths**  
15 – 65 mm



**Bending radii**  
28 – 125 mm

## Stay variants



**Design 020** ..... page 158

### Closed frame

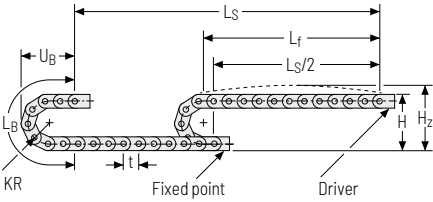
- » Weight-optimised, closed plastic frame with particularly high torsional rigidity.
- » **Outside/inside:** not openable.



### QuickTrax® | EasyTrax®

For an openable cable carrier with 18 – 20 mm inner height we recommend the series QuickTrax® 0320 or EasyTrax® 0320 QT0320 from page 138 and ET0320 from page 252.

Unsupported arrangement

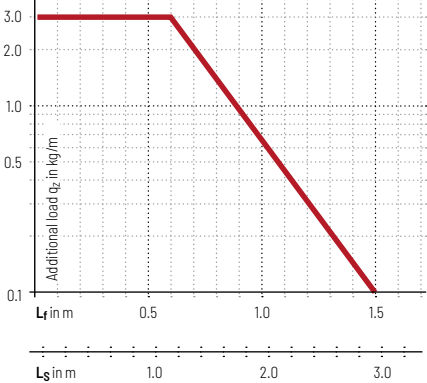


KR [mm]	H [mm]	H <sub>z</sub> [mm]	L <sub>B</sub> [mm]	U <sub>B</sub> [mm]
28	81.5	98.5	152	73
38	101.5	118.5	184	83
48	121.5	138.5	215	93
75	175.5	192.5	300	120
100	225.5	242.5	379	145
125	275.5	292.5	457	170

**Load diagram for unsupported length** depending on the additional load.

Sagging of the cable carrier is technically permitted for extended travel lengths, depending on the specific application.

Intrinsic cable carrier weight  $q_k = 0.40 \text{ kg/m}$  with  $B_i 50 \text{ mm}$ . For other inner widths, the maximum additional load changes.



**Speed**  
up to 10 m/s



**Acceleration**  
up to  $50 \text{ m/s}^2$

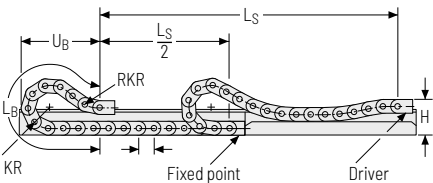


**Travel length**  
up to 2.9 m



**Additional load**  
up to  $3 \text{ kg/m}$

Gliding arrangement



**Speed**  
up to 2.5 m/s



**Acceleration**  
up to  $25 \text{ m/s}^2$



**Travel length**  
up to 80 m



**Additional load**  
up to  $3 \text{ kg/m}$



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

Cable carrier

Cable carrier configuration

Configuration guidelines

Materials information

MONO series

QuickTrax® series

UNIFLEX Advanced series

TKP35 series

TKK series

EasyTrax® series

## Stay variant 020 – closed frame

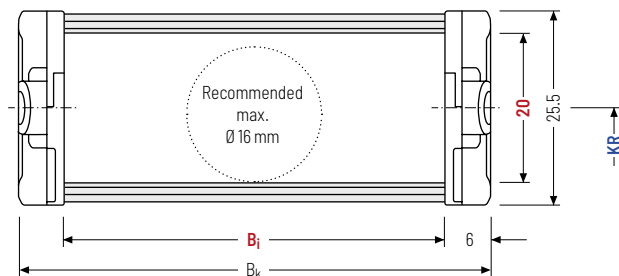
- » Weight-optimised, closed plastic frame with particularly high torsional rigidity.
- » **Outside/inside:** not openable.



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



$B_i$  15 – 65 mm



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

### Calculating the cable carrier length

#### Cable carrier length $L_k$

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

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

$h_i$ [mm]	$h_G$ [mm]	$B_i$ [mm]						$B_k$ [mm]	$KR$ [mm]						$q_k$ [kg/m]
20	25.5	15	25	38	50	65	$B_i + 12$	28	38	48	75	100	125	0.36–0.48	

### Order example



UA1320

Type

020

Stay variant

50

$B_i$  [mm]

100

$KR$  [mm]

960

$L_k$  [mm]

VS

Stay arrangement

Divider systems

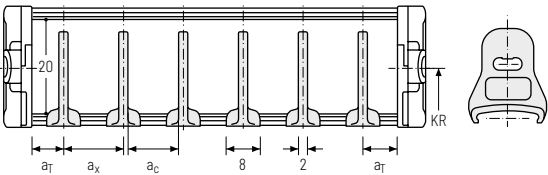
The divider system is mounted on every 2<sup>nd</sup> chain link as a standard.

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

Divider system TSO without height separation

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

The dividers can be moved in the cross section.



Order example



TSO

Divider system

•

A

Version

•

3

n<sub>T</sub>

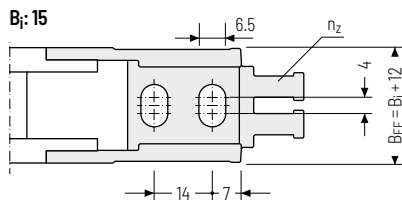
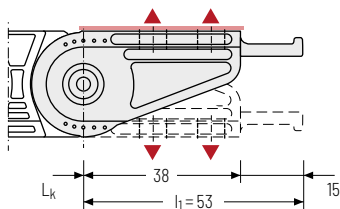
Please state the designation of the divider system (**TSO**), the version, and the number of dividers per cross section [n<sub>T</sub>]. You are welcome to add a sketch to your order.

Cable carrier
Cable carrier configuration
Configuration guidelines
Materials information
MONO series
QuickTrax® series
UNIFLEX Advanced series
TKP35 series
TKK series
EasyTrax® series

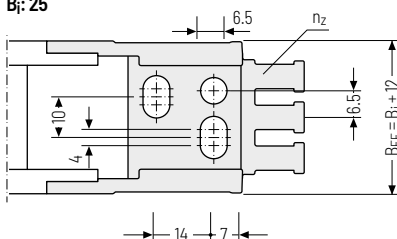


## Single-part end connectors – plastic (with integrated strain relief)

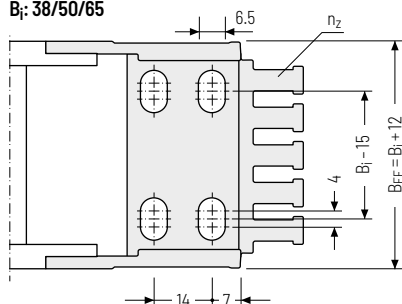
The plastic end connectors can be connected from above or below. The connection type can be changed by altering the position of the end connector.



**Bi: 25**

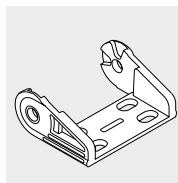


**Bi: 38/50/65**

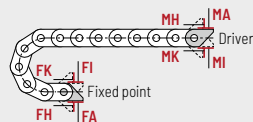


▲ Assembly options

<b>Bi</b> [mm]	<b>BEF</b> [mm]	<b>nz</b>
<b>15</b>	27	2
<b>25</b>	37	3
<b>38</b>	50	4
<b>50</b>	62	5
<b>65</b>	77	6



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



### Connection point

**F** – fixed point  
**M** – driver

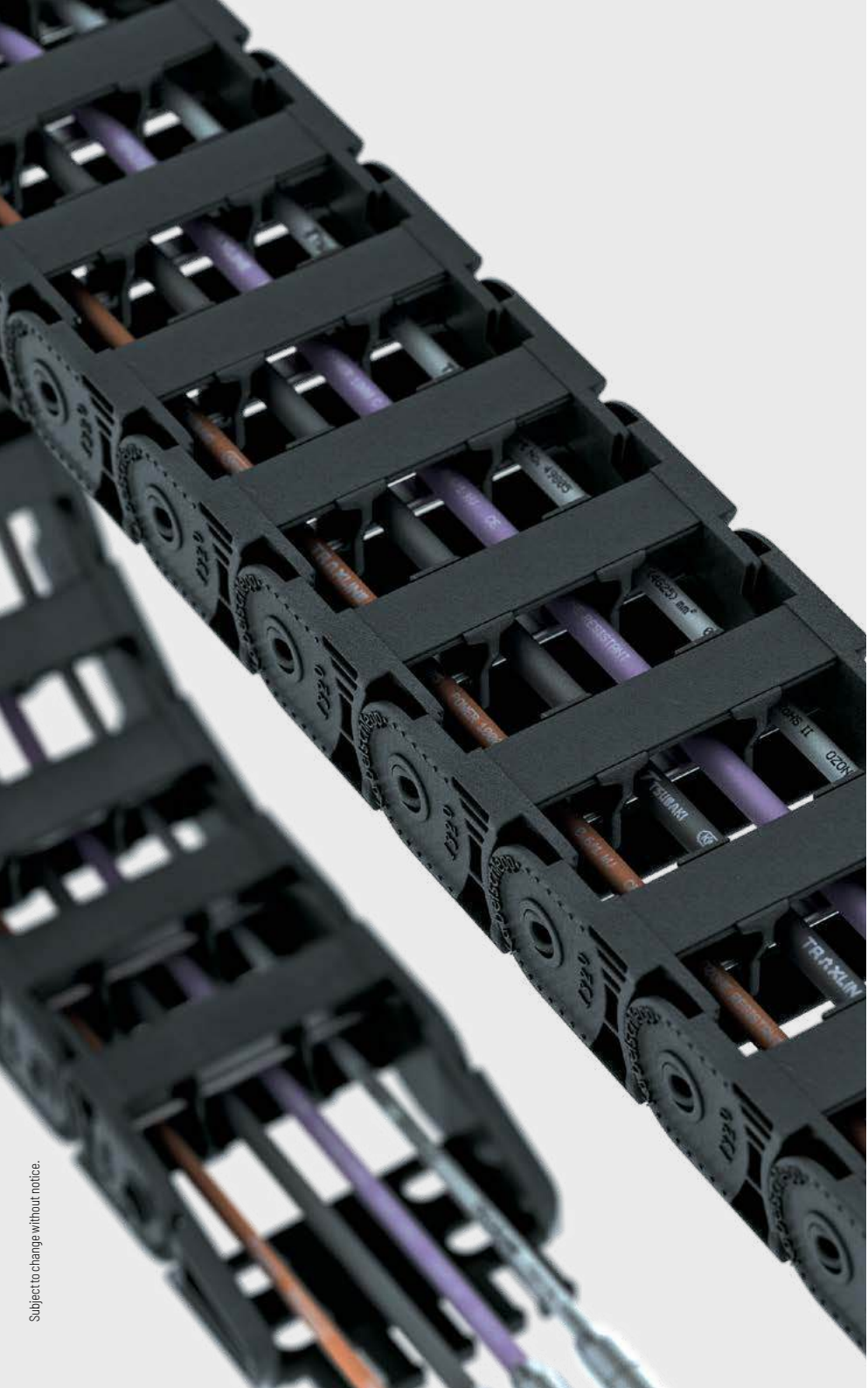
### Connection type

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

## Order example



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



Subject to change without notice.

161					
EasyTrax® series	TKK series	TKP35 series	UNIFLEX Advanced series	QuickTrax® series	MONO series
Materials information					
Configuration guidelines					
Cable carrier configuration					
Cable carrier					

# UA1455



**Pitch**  
45.5 mm



**Inner height**  
26 mm



**Inner widths**  
25 – 130 mm



**Bending radii**  
52 – 200 mm

## Stay variants



### Design 020 ..... page 164

#### Closed frame

- » Weight-optimised, closed plastic frame with particularly high torsional rigidity.
- » **Outside/inside:** not openable.



### Design 030 ..... page 165

#### Frame with outside detachable stays

- » Weight-optimised plastic frame with particularly high torsional rigidity.
- » **Outside:** openable and detachable.



### Design 040 ..... page 166

#### Frame with inside detachable stays

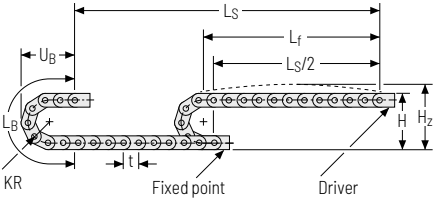
- » Weight-optimised plastic frame with particularly high torsional rigidity.
- » **Inside:** openable and detachable.



### EasyTrax®

For an openable cable carrier with 25 mm inner height we recommend the series EasyTrax® 1455  
**ET1455 from page 258.**

Unsupported arrangement

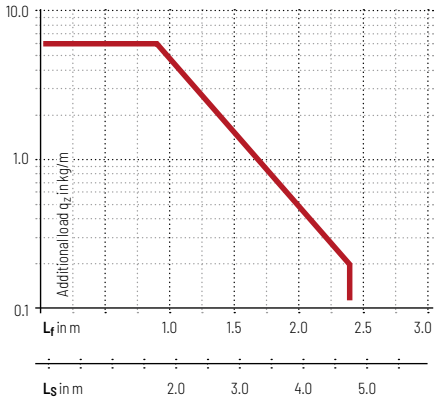


KR [mm]	H [mm]	H <sub>z</sub> [mm]	L <sub>B</sub> [mm]	U <sub>B</sub> [mm]
52	140	165	255	116
65	166	191	296	129
95	226	251	390	159
125	286	311	484	189
150	336	361	563	214
180	396	421	657	244
200	436	461	720	264

**Load diagram for unsupported length** depending on the additional load.

Sagging of the cable carrier is technically permitted for extended travel lengths, depending on the specific application.

Intrinsic cable carrier weight  $q_k = 0.75 \text{ kg/m}$  with  $B_0 38 \text{ mm}$ . For other inner widths, the maximum additional load changes.



**Speed**  
up to 10 m/s



**Acceleration**  
up to  $50 \text{ m/s}^2$

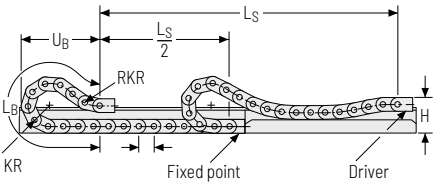


**Travel length**  
up to 4.8 m



**Additional load**  
up to 6 kg/m

Gliding arrangement | G0 module with chain links optimized for gliding



KR [mm]	H [mm]	G0 module RKR [mm]	L <sub>B</sub> [mm]	U <sub>B</sub> [mm]
52	108	225	780	377
65	108	225	825	389
95	108	225	1007	450
125	108	225	1189	508
150	108	225	1371	573
180	108	225	1599	655
200	108	225	1781	723



**Speed**  
up to 2.5 m/s



**Acceleration**  
up to  $20 \text{ m/s}^2$



**Travel length**  
up to 120 m



**Additional load**  
up to 6 kg/m



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

The G0 module mounted on the driver is a defined sequence of 5 adapted KR/RKR link plates.

Glide shoes must be used for gliding applications.

Only designs 020 and 030 can be used for a gliding arrangement.

Cable carrier

Cable carrier configuration

Configuration guidelines

Materials information

MONO series

QuickTrax® series

UNIFLEX Advanced series

TKP35 series

TKK series

EasyTrax® series

Stay variant 020 – closed frame

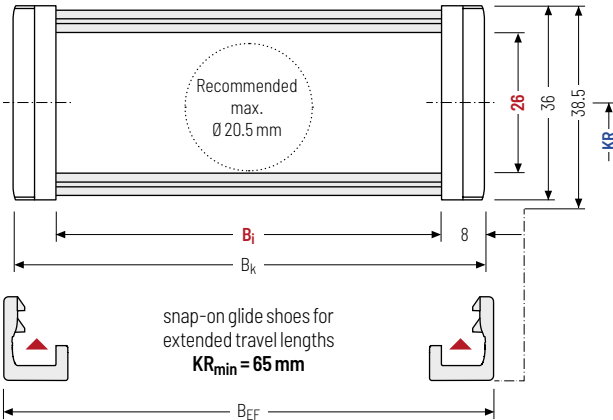
- » Weight-optimised, closed plastic frame with particularly high torsional rigidity.
- » **Outside/inside:** not openable.



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



$B_i$  25 – 130 mm



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

Calculating the cable carrier length

Cable carrier length  $L_k$

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

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



Special version for support legs of commercial vehicles

Special versions for the safe guiding and separating of rigid hydraulic hoses and electric cables in a limited space in extendable support feet of commercial vehicles on request.

$h_i$ [mm]	$h_G$ [mm]	$h_G'$ [mm]	$B_i$ [mm]			$B_k$ [mm]	$B_{EF}$ [mm]	$KR$ [mm]				$q_k$ [kg/m]
26	36	38.5	25	38	58	$B_i + 16$	$B_i + 19$	52	65	95	125	0.71 – 1.12
			78	103	130			150	180	200		

Order example



UA1455  
Type

020  
Stay variant

78  
 $B_i$  [mm]

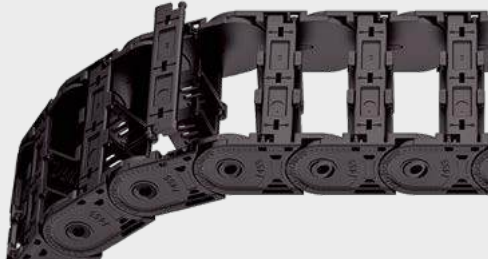
150  
 $KR$  [mm]

1456  
 $L_k$  [mm]

VS  
Stay arrangement

Stay variant 030 – with outside opening and detachable stays

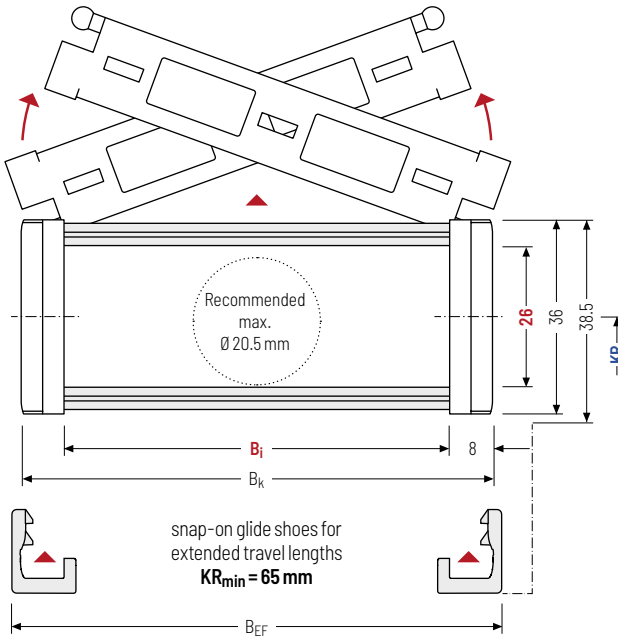
- » Weight-optimised plastic frame with particularly high torsional rigidity.
- » Swivable and detachable left or right in any position.
- » **Outside:** openable and detachable.



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



$B_i$  25 – 130 mm



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

Calculating the cable carrier length

Cable carrier length  $L_k$

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

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

$h_i$ [mm]	$h_G$ [mm]	$h_{G'}$ [mm]	$B_i$ [mm]			$B_k$ [mm]	$B_{EF}$ [mm]	$KR$ [mm]				$q_k$ [kg/m]
26	36	38.5	25	38	58	$B_i + 16$	$B_i + 19$	52	65	95	125	0.73 – 1.10
			78	103	130			150	180	200		

Order example



UA1455	030	78	150	1456	VS
Type	Stay variant	$B_i$ [mm]	$KR$ [mm]	$L_k$ [mm]	Stay arrangement

Cable carrier

Cable carrier configuration

Configuration guidelines

Materials information

MONO series

QuickTrax® series

UNIFLEX Advanced series

TKP35 series

TKK series

EasyTrax® series

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

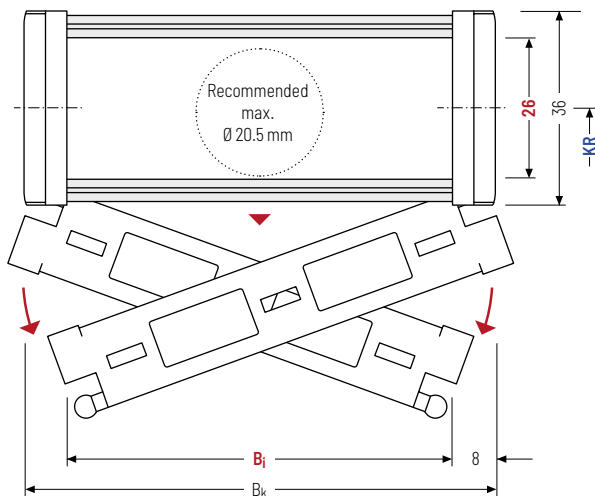
- » Weight-optimised plastic frame with particularly high torsional rigidity.
- » Swivable and detachable left or right in any position.
- » **Inside:** openable and detachable.



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



$B_i$  25 – 130 mm



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



Design 040 is not suitable for gliding arrangements.

### Calculating the cable carrier length

#### Cable carrier length $L_k$

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

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

$h_i$ [mm]	$h_g$ [mm]	$B_i$ [mm]			$B_k$ [mm]	$KR$ [mm]				$q_k$ [kg/m]
26	36	25	38	58	$B_i + 16$	52	65	95	125	0.73 – 1.10
		78	103	130		150	180	200		

### Order example



**UA1455**  
Type

**040**  
Stay variant

**78**  
 $B_i$  [mm]

**150**  
 $KR$  [mm]

**1456**  
 $L_k$  [mm]

**VS**  
Stay arrangement

Divider systems

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

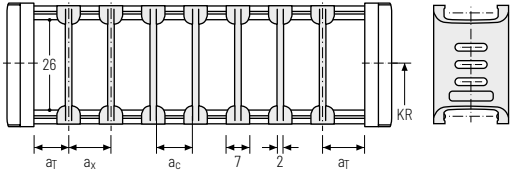
As a standard, dividers or the complete divider system (dividers with height separations) are movable in the cross section (**version A**).

For applications with lateral acceleration and lying on the side, divider with arresting cams are available.  
The locking cams click into place in the locking grids in the stays (**version B**).

Divider system TSO without height separation

Vers.	a <sub>T</sub> min [mm]	a <sub>x</sub> min [mm]	a <sub>c</sub> min [mm]	a <sub>x</sub> grid [mm]	η <sub>T</sub> min
A	3.5	7	5	-	-
B*	4/5**	7.5	5.5	2.5	-

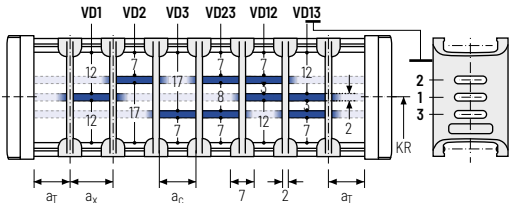
Number of dividers for design Q20 depending on B<sub>i</sub>  
\* not for design Q20  
\*\* 4 mm for B<sub>i</sub> 38 - 103; 5 mm for B<sub>i</sub> 25, 130



Divider system TS1 with continuous height separation\*

Vers.	a <sub>T</sub> min [mm]	a <sub>T</sub> max [mm]	a <sub>x</sub> min [mm]	a <sub>c</sub> min [mm]	a <sub>x</sub> grid [mm]	η <sub>T</sub> min
A	3.5	20	7	5	-	2
B	4/5**	20	7.5	5.5	2.5	2

\* not for design Q20  
\*\* 4 mm for B<sub>i</sub> 38 - 103; 5 mm for B<sub>i</sub> 25, 130

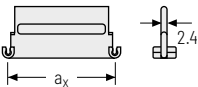
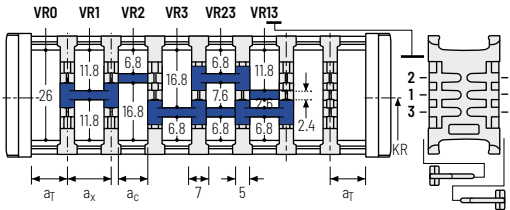


Divider system TS3 with height separation consisting of plastic section subdivisions\*

Vers.	a <sub>T</sub> min [mm]	a <sub>x</sub> min [mm]	a <sub>c</sub> min [mm]	η <sub>T</sub> min
A	3.5	15	10	2

\* not for design Q20

The dividers are fixed with the section subdivision. The entire divider system can be moved in the cross section.



a <sub>x</sub> (centre distance of dividers) [mm]									
a <sub>c</sub> (usable width of inner chamber) [mm]									
15	20	25	30	35	40	45	55	65	75
10	15	20	25	30	35	40	50	60	70

Order example

TS3

A

2

K1

34

VR1

⋮

⋮

⋮

K4

38

VR3

Divider system

Version

η<sub>T</sub>

Chamber

a<sub>x</sub>

Height separation

Cable carrier

Cable carrier configuration

Configuration guidelines

Materials information

MONO series

QuickTrax® series

UNIFLEX Advanced series

TKP35 series

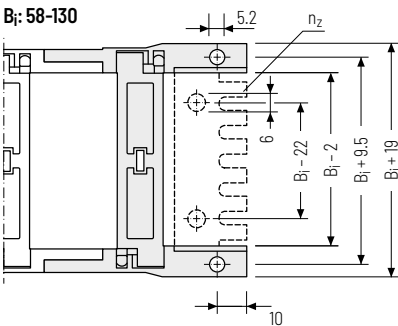
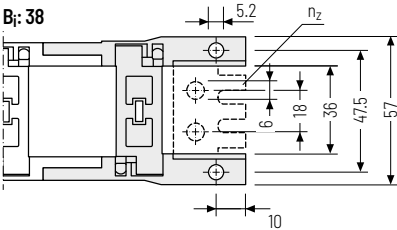
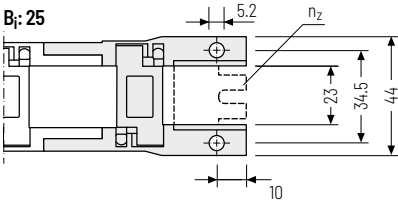
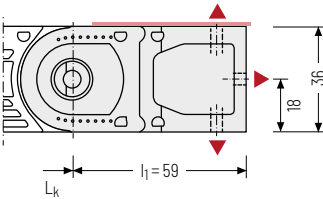
TKK series

EasyTrax® series



## Universal end connectors UMB – plastic (standard)

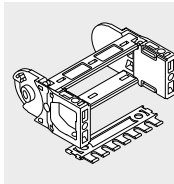
The universal mounting brackets (UMB) are made from plastic and can be mounted **from above, from below or on the face side**.



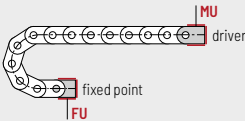
Recommended tightening torque:  
5 Nm for screws M5 - 8.8

Assembly options

$B_i$ [mm]	$n_z$
25	2
38	3
58	5
78	7
103	9
130	11



The end connectors are optionally also available **with** strain relief comb (1 on each side). Please state when ordering.



**Connection point**  
**F** – fixed point  
**M** – driver

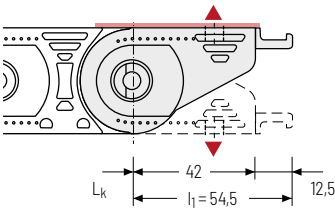
**Connection type**  
**U** – Universal mounting bracket

## Order example

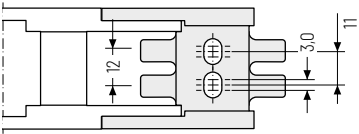
	UMB	F	U
	UMB	M	U
	End connector	Connection point	Connection type

Single-part end connectors short – plastic

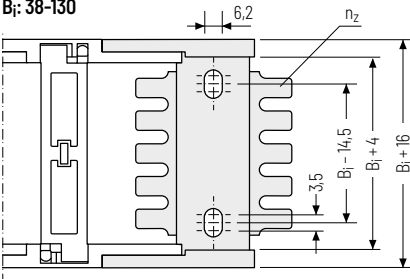
The plastic end connectors can be connected **from above or below**. The connection type can be changed by altering the position of the end connector.



B<sub>i</sub>: 25



B<sub>i</sub>: 38-130

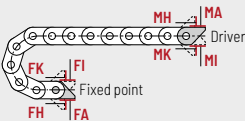


Recommended tightening torque:  
6 Nm for screws M6 – 8.8

▲ Assembly options

B <sub>i</sub> [mm]	n <sub>z</sub>
25	2 x 2
38	2 x 3
58	2 x 4
78	2 x 6
103	2 x 8
130	2 x 10

The end connectors are optionally also available **without** strain relief comb (except B<sub>i</sub> 25). Please state when ordering.



**Connection point**  
**F** – fixed point  
**M** – driver

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

Order example

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

Cable carrier

Cable carrier configuration

Configuration guidelines

Materials information

MONO series

QuickTrax® series

UNIFLEX Advanced series

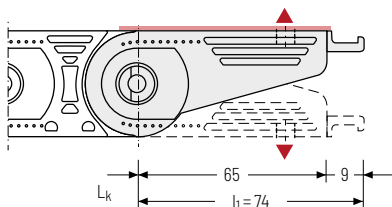
TKP35 series

TKK series

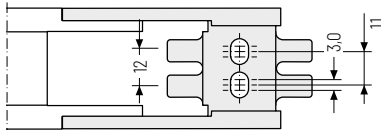
EasyTrax® series

## Single-part end connectors long – plastic

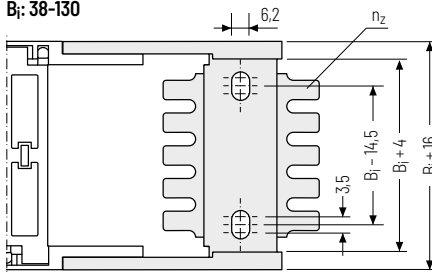
The plastic end connectors can be connected **from above or below** and allow a **1:1 replacement of the UNIFLEX 0455 in the connection area**. The connection type can be changed by altering the position of the end connector.



**B<sub>i</sub>: 25**



**B<sub>i</sub>: 38-130**

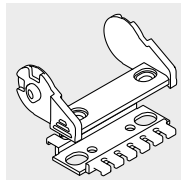


▲ Assembly options

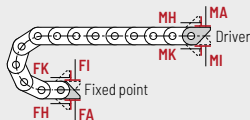


Recommended tightening torque:  
6 Nm for screws M6 - 8.8 and washers

B <sub>i</sub> [mm]	n <sub>z</sub>
25	2 x 2
38	2 x 3
58	2 x 4
78	2 x 6
103	2 x 8
130	2 x 10



The end connectors are optionally also available **without** strain relief comb (except B<sub>i</sub> 25). Please state when ordering.



### Connection point

**F** – fixed point  
**M** – driver

### Connection type

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

## Order example



End connector U0455

F

A

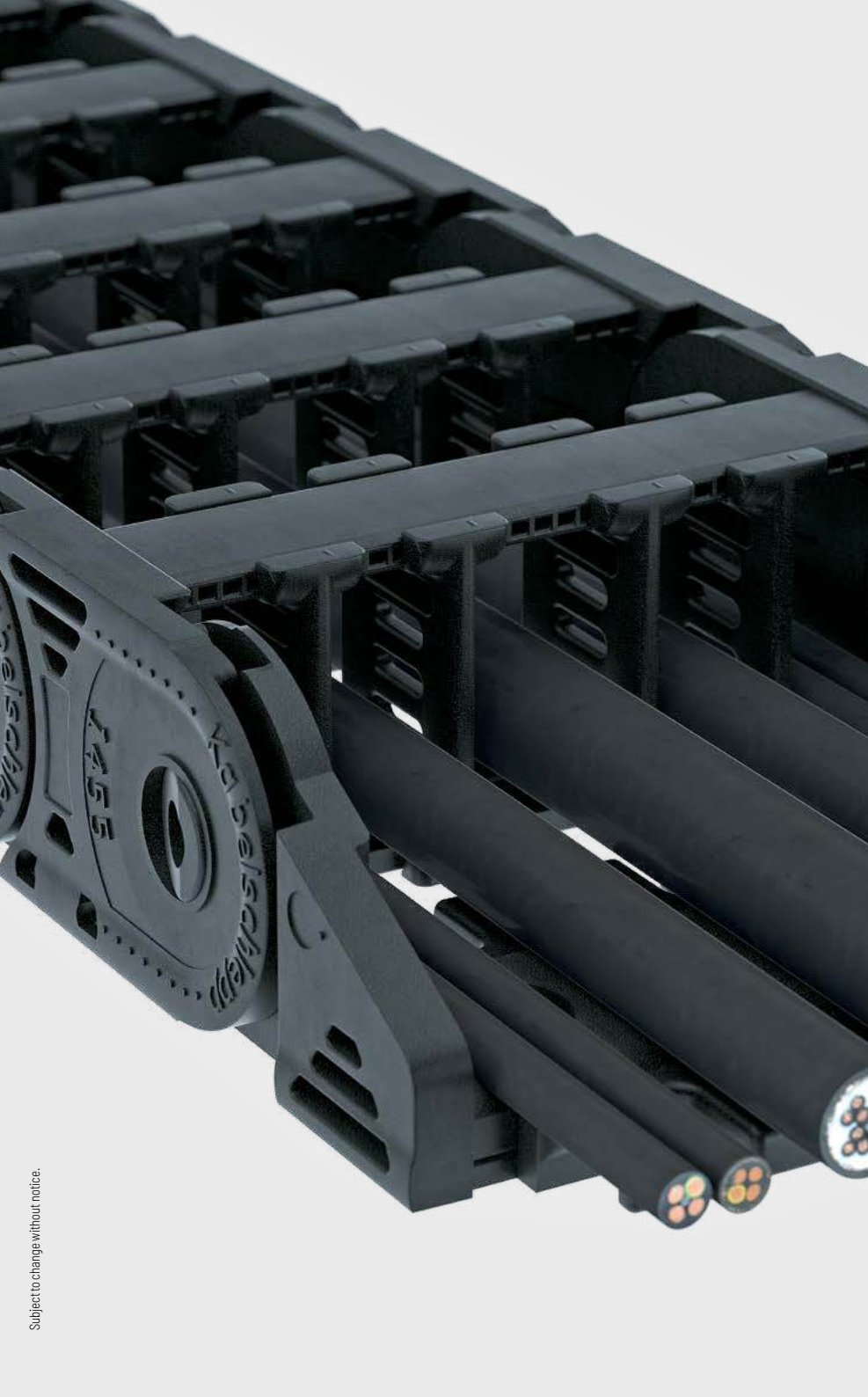
End connector U0455

M

A

End connector

Connection point Connection type



Subject to change without notice.

EasyTrax®  
series

TKK  
series

TKP35  
series

UNIFLEX  
Advanced  
series

QuickTrax®  
series

MONO  
series

Materials  
information

Configuration  
guidelines

Cable carrier  
configuration

Cable carrier

# UA1555



**Pitch**  
55.5 mm



**Inner height**  
38 mm



**Inner widths**  
50 – 150 mm



**Bending radii**  
63 – 200 mm

## Stay variants



**Design 020** ..... page 174

### Closed frame

- » Weight-optimised, closed plastic frame with particularly high torsional rigidity.
- » **Outside/inside:** not openable.



**Design 030** ..... page 175

### Frame with outside detachable stays

- » Weight-optimised plastic frame with particularly high torsional rigidity.
- » **Outside:** openable and detachable.



**Design 040** ..... page 176

### Frame with inside detachable stays

- » Weight-optimised plastic frame with particularly high torsional rigidity.
- » **Inside:** openable and detachable.

## Additional product information online

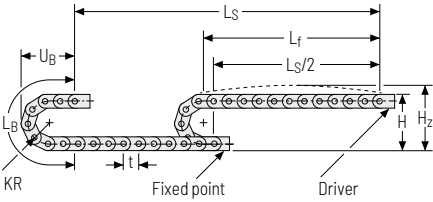


Installation instructions, etc.:  
Additional info via your smartphone or  
check online at  
[tsubaki-kabelschlepp.com/  
downloads](http://tsubaki-kabelschlepp.com/downloads)



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

Unsupported arrangement

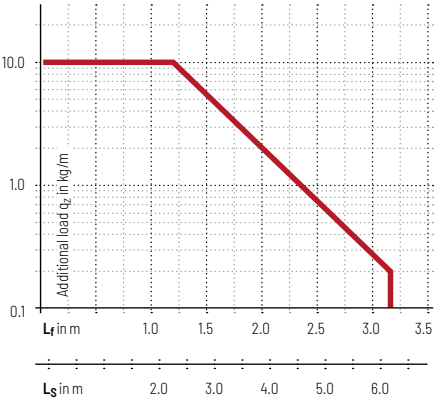


KR [mm]	H [mm]	H <sub>z</sub> [mm]	L <sub>B</sub> [mm]	U <sub>B</sub> [mm]
63	176	216	309	145
80	210	240	362	165
100	250	280	425	185
125	300	330	504	210
160	370	400	614	245
200	450	480	740	285

**Load diagram for unsupported length** depending on the additional load.

Sagging of the cable carrier is technically permitted for extended travel lengths, depending on the specific application.

Intrinsic cable carrier weight  $q_k = 1.32 \text{ kg/m}$  with  $B_i 100 \text{ mm}$ . For other inner widths, the maximum additional load changes.



**Speed**  
up to 9 m/s



**Acceleration**  
up to  $45 \text{ m/s}^2$

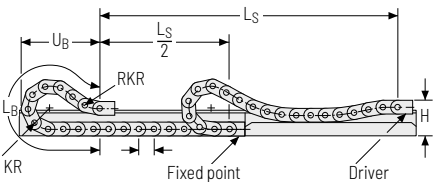


**Travel length**  
up to 6.3 m



**Additional load**  
up to  $10 \text{ kg/m}$

Gliding arrangement | GO module with chain links optimized for gliding



KR [mm]	H [mm]	GO module RKR [mm]	L <sub>B</sub> [mm]	U <sub>B</sub> [mm]
63	150	250	939	458
80	150	250	994	473
100	150	250	1105	510
125	150	250	1272	567
160	150	250	1438	612
200	150	250	1771	730



**Speed**  
up to 3 m/s



**Acceleration**  
up to  $20 \text{ m/s}^2$



**Travel length**  
up to 125 m



**Additional load**  
up to  $10 \text{ kg/m}$



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

The GO module mounted on the driver is a defined sequence of 5 adapted KR/RKR link plates.

Glide shoes must be used for gliding applications.

Only designs 020 and 030 can be used for a gliding arrangement.

Cable carrier

Cable carrier  
configuration

Configuration  
guidelines

Materials  
information

MONO  
series

QuickTrax®  
series

UNIFLEX  
Advanced  
series

TKP35  
series

TKK  
series

EasyTrax®  
series

Stay variant 020 – closed frame

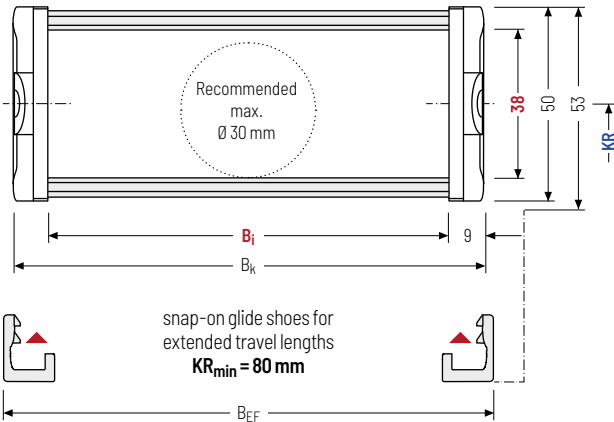
- » Weight-optimised, closed plastic frame with particularly high torsional rigidity.
- » **Outside/inside:** not openable.



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



$B_i$  50 – 150 mm



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

Calculating the cable carrier length

Cable carrier length  $L_k$

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

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

$h_i$ [mm]	$h_g$ [mm]	$h_g'$ [mm]	$B_i$ [mm]			$B_k$ [mm]	$B_{EF}$ [mm]	$KR$ [mm]				$q_k$ [kg/m]
38	50	53	50	75	100	$B_i + 18$	$B_i + 22$	63	80	100	125	1.13 – 1.52
			125	150				160	200			

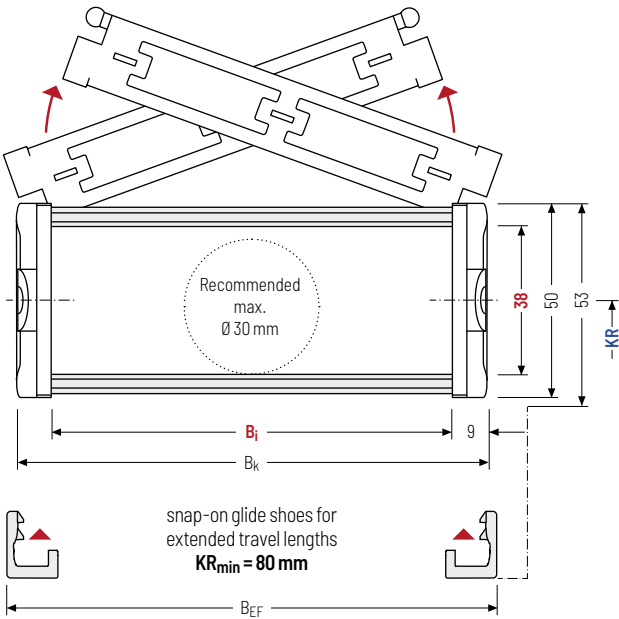
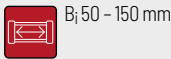
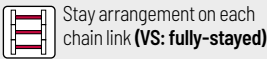
Order example



UA1555 Type	•	020 Stay variant	•	125 $B_i$ [mm]	•	160 $KR$ [mm]	•	1887 $L_k$ [mm]	•	VS Stay arrangement
----------------	---	---------------------	---	-------------------	---	------------------	---	--------------------	---	------------------------

Stay variant 030 – with outside opening and detachable stays

- » Weight-optimised plastic frame with particularly high torsional rigidity.
- » Swivable and detachable left or right in any position.
- » **Outside:** openable and detachable.



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

Calculating the cable carrier length

Cable carrier length  $L_k$

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

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

$h_i$ [mm]	$h_g$ [mm]	$h_{g'}$ [mm]	$B_i$ [mm]			$B_k$ [mm]	$B_{EF}$ [mm]	$KR$ [mm]				$q_k$ [kg/m]
38	50	53	50	75	100	$B_i + 18$	$B_i + 22$	63	80	100	125	1.13 - 1.51
			125	150				160	200			

Order example

 UA1555 . 030 . 125 . 160 . 1887 . VS  
Type Stay variant  $B_i$  [mm]  $KR$  [mm]  $L_k$  [mm] Stay arrangement

Cable carrier
Cable carrier configuration
Configuration guidelines
Materials information
MONO series
QuickTrax® series
UNIFLEX Advanced series
TKP35 series
TKK series
EasyTrax® series



Stay variant 040 – with inside opening and detachable stays

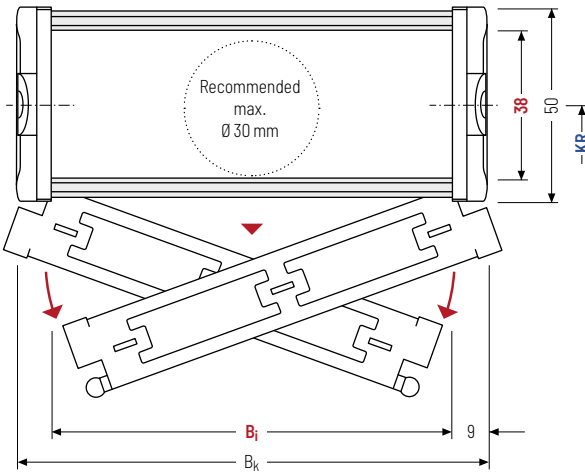
- » Weight-optimised plastic frame with particularly high torsional rigidity.
- » Swivable and detachable left or right in any position.
- » **Inside:** openable and detachable.



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



B<sub>i</sub> 50 - 150 mm



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



Design 040 is not suitable for gliding arrangements.

Calculating the cable carrier length

Cable carrier length L<sub>k</sub>

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

Cable carrier length L<sub>k</sub> rounded to pitch t

h <sub>i</sub> [mm]	h <sub>g</sub> [mm]	B <sub>i</sub> [mm]			B <sub>k</sub> [mm]	KR [mm]				q <sub>k</sub> [kg/m]
38	50	50	75	100	B <sub>i</sub> + 18	63	80	100	125	1.13 - 1.52
		125	150			160	200			

Order example



UA1555  
Type

040  
Stay variant

125  
B<sub>i</sub> [mm]

160  
KR [mm]

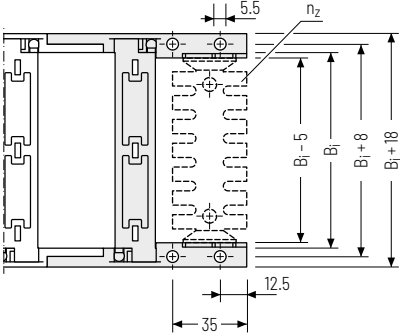
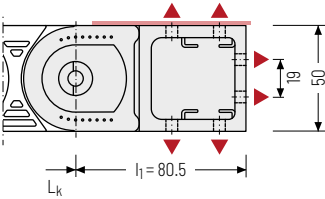
1887  
L<sub>k</sub> [mm]

VS  
Stay arrangement




Universal end connectors UMB – plastic (standard)

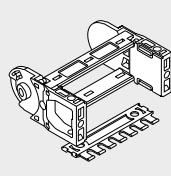
The universal mounting brackets (UMB) are made from plastic and can be mounted **from above, from below or on the face side**.



▲ Assembly options

 Recommended tightening torque:  
5 Nm for screws M5 – 8.8

$B_1$ [mm]	$n_2$
50	2 x 3
75	2 x 5
90	2 x 6
100	2 x 7
125	2 x 9
150	2 x 11



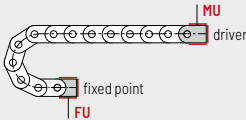
The end connectors are optionally also available **with** strain relief comb or **with** C-rail Art. no. 3931 (1 on each side) for clamps. Please state when ordering.

UNIFLEX  
Advanced  
series

TKP35  
series

TKK  
series


EasyTrax®  
series




**Connection point**  
**F** – fixed point  
**M** – driver

**Connection type**  
**U** – Universal mounting bracket

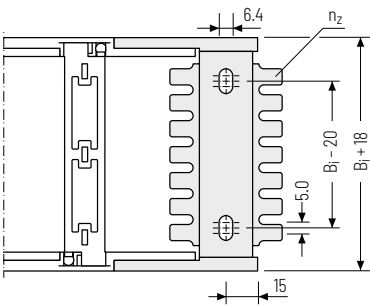
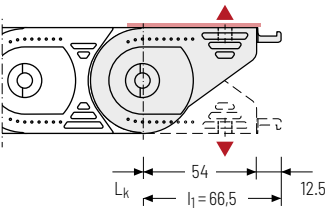
Order example

	UMB	F	U
	UMB	M	U
	End connector	Connection point	Connection type


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

Single-part end connectors short – plastic

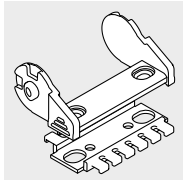
The plastic end connectors can be **connected from above or below**. The connection type can be changed by altering the position of the end connector.



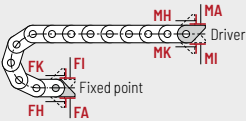
▲ Assembly options

 Recommended tightening torque:  
6 Nm for screws M6 - 8.8

$B_i$ [mm]	$n_z$
50	2 x 4
75	2 x 6
100	2 x 8
125	2 x 10
150	2 x 12



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




Connection point

- F – fixed point
- M – driver

Connection type

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

Order example

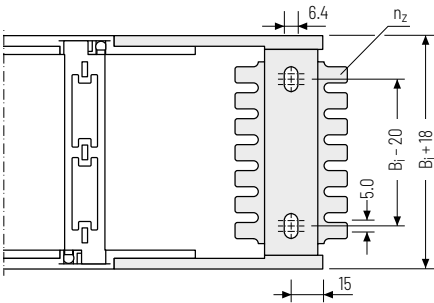
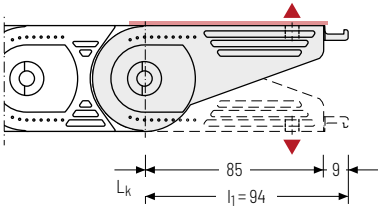


End connector	F	A
End connector	M	A
End connector	Connection point	Connection type

Cable carrier	Cable carrier configuration	Configuration guidelines	Materials information	MONO series	QuickTrax® series	UNIFLEX Advanced series	TKP35 series	TKK series	EasyTrax® series
---------------	-----------------------------	--------------------------	-----------------------	-------------	-------------------	-------------------------	--------------	------------	------------------

Single-part end connectors long – plastic

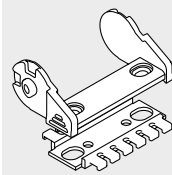
The plastic end connectors can be connected **from above or below** and allow a **1:1 replacement of the UNIFLEX 0555 in the connection area**. The connection type can be changed by altering the position of the end connector.



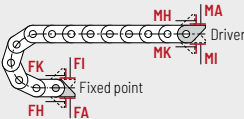
▲ Assembly options

Recommended tightening torque:  
6 Nm for screws M6 – 8.8 and washers

$B_1$ [mm]	$n_z$
50	2 x 4
75	2 x 6
100	2 x 8
125	2 x 10
150	2 x 12



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



Connection point

F – fixed point  
M – driver

Connection type

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

Order example

	End connector U0555	F	A
	End connector U0555	M	A
	End connector	Connection point	Connection type



Subject to change without notice.

EasyTrax® series	TKK series	TKP35 series	UNIFLEX Advanced series		QuickTrax® series	MONO series	Materials information	Configuration guidelines	Cable carrier configuration	Cable carrier
---------------------	---------------	-----------------	-------------------------------	--	----------------------	----------------	--------------------------	-----------------------------	--------------------------------	---------------

# UA1665



**Pitch**  
66.5 mm



**Inner height**  
44 mm



**Inner widths**  
50 – 250 mm



**Bending radii**  
75 – 300 mm

## Stay variants



**Design 020** ..... page 184

### Closed frame

- » Weight-optimised, closed plastic frame with particularly high torsional rigidity.
- » **Outside/inside:** not openable.



**Design 030** ..... page 185

### Frame with outside detachable stays

- » Weight-optimised plastic frame with particularly high torsional rigidity.
- » **Outside:** openable and detachable.



**Design 040** ..... page 186

### Frame with inside detachable stays

- » Weight-optimised plastic frame with particularly high torsional rigidity.
- » **Inside:** openable and detachable.



**Design RMAI** ..... page 188

### Mounting frame stay

- » Weight-optimised plastic frame with particularly high torsional rigidity.
- » **Inside:** threaded joint easy to release.

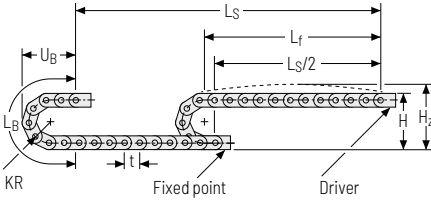


**Design RMAO** ..... page 190

### Mounting frame stay

- » Weight-optimised plastic frame with particularly high torsional rigidity.
- » **Outside:** threaded joint easy to release.

## Unsupported arrangement

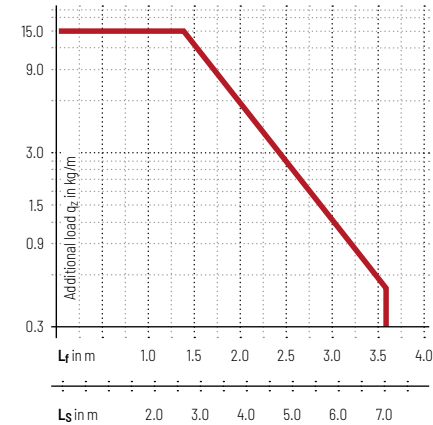


KR [mm]	H [mm]	H <sub>z</sub> [mm]	L <sub>B</sub> [mm]	U <sub>B</sub> [mm]
75	210	245	369	172
100	260	295	448	197
120	300	335	511	217
140	340	375	574	237
200	460	495	762	297
250	560	595	919	347
300	660	695	1076	397

**Load diagram for unsupported length** depending on the additional load.

Sagging of the cable carrier is technically permitted for extended travel lengths, depending on the specific application.

Intrinsic cable carrier weight  $q_k = 2.43 \text{ kg/m}$  with  $B_3 200 \text{ mm}$ . For other inner widths, the maximum additional load changes.



**Speed**  
up to 8 m/s



**Acceleration**  
up to 40 m/s<sup>2</sup>

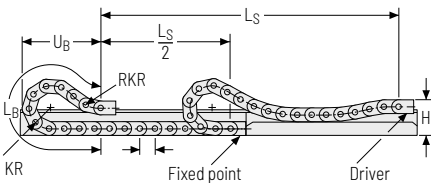


**Travel length**  
up to 7 m



**Additional load**  
up to 15 kg/m

## Gliding arrangement | GO module with chain links optimized for gliding



KR [mm]	H [mm]	GO module RKR [mm]	L <sub>B</sub> [mm]	U <sub>B</sub> [mm]
75	180	300	1118	546
100	180	300	1251	593
120	180	300	1318	609
140	180	300	1450	654
200	180	300	1783	753
250	180	300	2182	864
300	180	300	2581	1035



**Speed**  
up to 3 m/s



**Acceleration**  
up to 15 m/s<sup>2</sup>



**Travel length**  
up to 150 m



**Additional load**  
up to 15 kg/m



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

The GO module mounted on the driver is a defined sequence of 5 adapted KR/RKR link plates.

Glide shoes must be used for gliding applications.

Only designs 020 and 030 can be used for a gliding arrangement.



## Stay variant 020 – closed frame

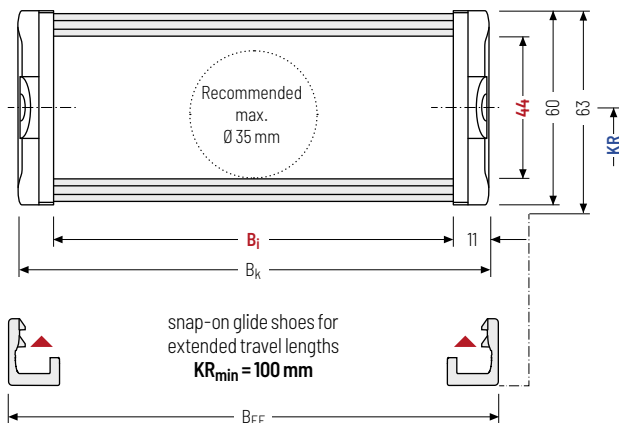
- » Weight-optimised, closed plastic frame with particularly high torsional rigidity.
- » **Outside/inside:** not openable.



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



$B_i$  50 – 250 mm



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

### Calculating the cable carrier length

#### Cable carrier length $L_k$

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

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

$h_i$ [mm]	$h_g$ [mm]	$h_g'$ [mm]	$B_i$ [mm]					$B_k$ [mm]	$B_{EF}$ [mm]	$KR$ [mm]				$q_k$ [kg/m]
44	60	63	50	75	100	125	150	$B_i + 22$	$B_i + 27$	75	100	120	140	1.67 – 2.76
			175	200	225	250				200	250	300		

### Order example



**UA1665**  
Type

**020**  
Stay variant

**125**  
 $B_i$  [mm]

**140**  
 $KR$  [mm]

**2660**  
 $L_k$  [mm]

**VS**  
Stay arrangement

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

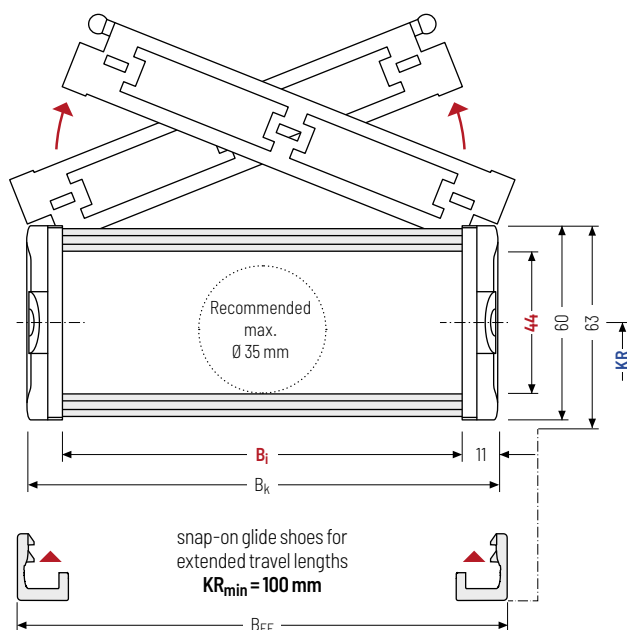
- » Weight-optimised plastic frame with particularly high torsional rigidity.
- » Swivable and detachable left or right in any position.
- » **Outside:** openable and detachable.



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



$B_i$  50 – 250 mm



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

### Calculating the cable carrier length

#### Cable carrier length $L_k$

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

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

$h_i$ [mm]	$h_g$ [mm]	$h_g'$ [mm]	$B_i$ [mm]					$B_k$ [mm]	$B_{kf}$ [mm]	$KR$ [mm]				$q_k$ [kg/m]
44	60	63	50	75	100	125	150	$B_i + 22$	$B_i + 27$	75	100	120	140	1.67 – 2.70
			175	200	225	250				200	250	300		

### Order example



UA1665	030	125	140	2660	VS
Type	Stay variant	$B_i$ [mm]	$KR$ [mm]	$L_k$ [mm]	Stay arrangement

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

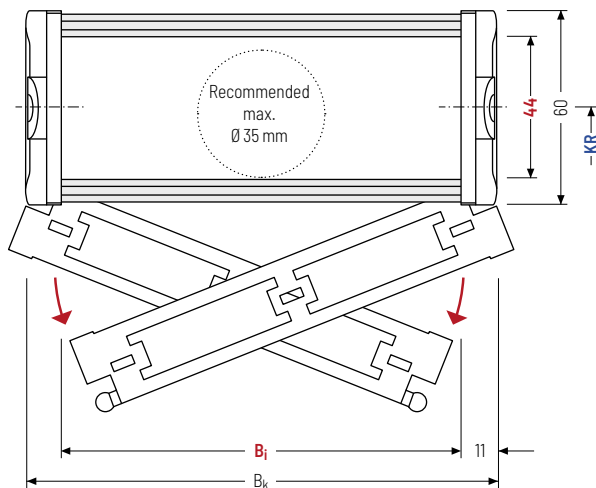
- » Weight-optimised plastic frame with particularly high torsional rigidity.
- » Swivable and detachable left or right in any position.
- » **Inside:** openable and detachable.



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



$B_i$  50 – 250 mm



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



Design 040 is not suitable for gliding arrangements.

### Calculating the cable carrier length

#### Cable carrier length $L_k$

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

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

$h_i$ [mm]	$h_g$ [mm]	$B_i$ [mm]					$B_k$ [mm]	$KR$ [mm]				$q_k$ [kg/m]
44	60	50	75	100	125	150	$B_i + 22$	75	100	120	140	1.67 – 2.70
		175	200	225	250			200	250	300		

### Order example



UA1665  
Type

040  
Stay variant

125  
 $B_i$  [mm]

140  
 $KR$  [mm]

2660  
 $L_k$  [mm]

VS  
Stay arrangement



Subject to change without notice.

EasyTrax®  
series

TKK  
series

TKP35  
series

**UNIFLEX**  
Advanced  
series

QuickTrax®  
series

MONO  
series

Materials  
information

Configuration  
guidelines

Cable carrier  
configuration

Cable carrier

Stay variant RMAI –  
mounting frame stay

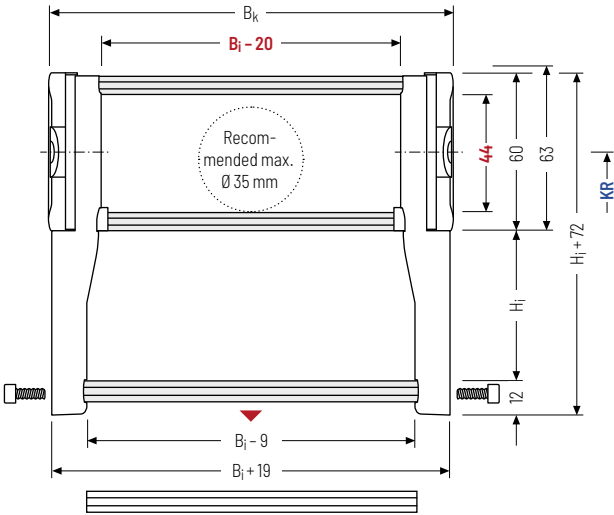
- » Weight-optimized plastic frame with particularly high torsional rigidity.
- » Plastic stays and aluminum profile bars with plastic mounting frame stays for guiding very large cable diameters.
- » **Inside:** threaded joint easy to release.



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



B<sub>1</sub> 125 - 200 mm



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

Calculating the  
cable carrier length

Cable carrier length  $L_k$

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

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

$h_i$ [mm]	$h_G$ [mm]	$H_i$ [mm]	$B_1$ [mm]	$B_k$ [mm]	$B_{EF}$ [mm]	$KR$ [mm]	$q_k^*$ [kg/m]
44	60	114 139 164 189	125 150 175 200	$B_1 + 22$	$B_1 + 27$	75 100 120 140 200 250 300	3.10 - 3.95

\* indicated according to standard pitch

Order example



UA1665  
Type

RMAI  
Stay variant

150  
 $B_1$  [mm]

140  
 $KR$  [mm]

2660  
 $L_k$  [mm]

VS  
Stay arrangement

**RMAI – assembly to the inside:**

standard pitch, mounting frame stay on every 4<sup>th</sup> stay,  
no screw fixing.

Gliding application is not possible when using assembly  
version RMAI.

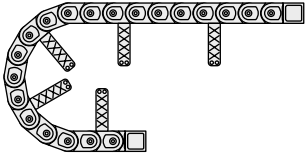
Observe minimum KR:

H<sub>i</sub> = 114 mm: KR<sub>min</sub> = 200 mm

H<sub>i</sub> = 139 mm: KR<sub>min</sub> = 250 mm

H<sub>i</sub> = 164 mm: KR<sub>min</sub> = 300 mm

H<sub>i</sub> = 189 mm: KR<sub>min</sub> = 300 mm



**Cross section mounting frame stay**

To achieve a nearly square cross section in the mounting  
frame stay, we recommend the following combination of B<sub>i</sub>  
and H<sub>i</sub>:

B <sub>i</sub> [mm]	H <sub>i</sub> [mm]	KR <sub>min</sub> [mm]	Stays [mm]
125	114	200	100
150	139	250	125
175	164	300	150
200	189	300	175

Cable carrier

Cable carrier  
configuration

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guidelines

Materials  
information

MONO  
series

QuickTrax®  
series

UNIFLEX  
Advanced  
series

TKP35  
series

TKK  
series

EasyTrax®  
series



**TOTALTRAX® complete systems**

Benefit from the advantages of the TOTALTRAX® complete system.  
A complete delivery from one source – with a warranty certificate  
on request! Learn more at [tsubaki-kabelschlepp.com/totaltrax](https://tsubaki-kabelschlepp.com/totaltrax)



**TRAXLINE® cables for cable carriers**

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

Stay variant RMAO –  
mounting frame stay

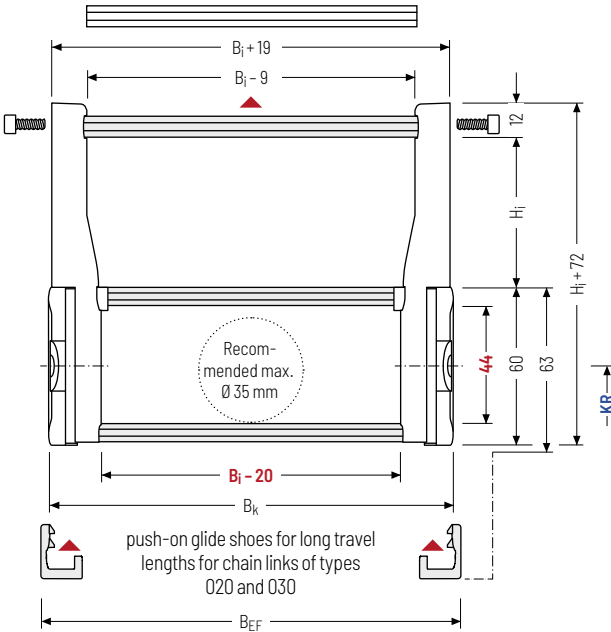
- » Weight-optimized plastic frame with particularly high torsional rigidity.
- » Plastic stays and aluminum profile bars with plastic mounting frame stays for guiding very large cable diameters.
- » **Outside:** threaded joint easy to release.



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



$B_i$  125 – 200 mm



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

Calculating the  
cable carrier length

Cable carrier length  $L_k$

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

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

$h_i$ [mm]	$h_G$ [mm]	$H_i$ [mm]	$B_i$ [mm]	$B_k$ [mm]	$B_{EF}$ [mm]	$KR$ [mm]	$q_k^*$ [kg/m]
44	60	114 139 164 189	125 150 175 200	$B_i + 22$	$B_i + 27$	75 100 120 140 200 250 300	3.58 – 4.66

\* indicated according to standard pitch

Order example



UA1665  
Type

RMAO  
Stay variant

150  
 $B_i$  [mm]

140  
 $KR$  [mm]

2660  
 $L_k$  [mm]

VS  
Stay arrangement

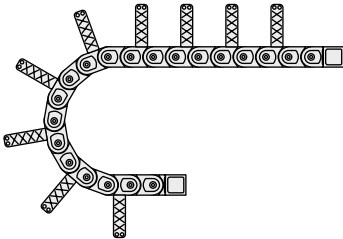
**RMAO – assembly to the outside:**

standard pitch, mounting frame stay on every 2<sup>nd</sup> stay, screw fixing.

The cable carrier rests on the bars. A bracket must be provided for the fixed point.

Guiding in a **channel is required** for support. Please contact our technical support at [technik@kabelschlepp.de](mailto:technik@kabelschlepp.de) to find the corresponding guide channel.

Please note the operating and installation height.



**Cross section mounting frame stay**

To achieve a nearly square cross section in the mounting frame stay, we recommend the following combination of B<sub>i</sub> and H<sub>i</sub>:

B <sub>i</sub> [mm]	H <sub>i</sub> [mm]	KR <sub>min</sub> [mm]	Stays [mm]
125	114	200	100
150	139	250	125
175	164	300	150
200	189	300	175

Cable carrier

Cable carrier configuration

Configuration guidelines

Materials information

MONO series

QuickTrax® series

UNIFLEX Advanced series

TKP35 series

TKK series

EasyTrax® series



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EasyTrax®  
series

TKK  
series

TKP35  
series

UNIFLEX  
Advanced  
series

QuickTrax®  
series

MONO  
series

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Cable carrier

## Divider systems

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

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

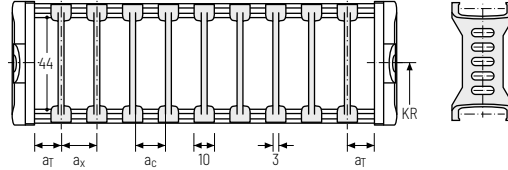
For applications with lateral acceleration and lying on the side, divider with arresting cams are available.

The locking cams click into place in the locking grids in the stays (**version B**).

## Divider system TS0 without height separation

Vers.	a <sub>T</sub> min [mm]	a <sub>x</sub> min [mm]	a <sub>c</sub> min [mm]	a <sub>x</sub> grid [mm]	η <sub>T</sub> min
A	5	10	7	-	-
B*	5	10	7	2.5	-

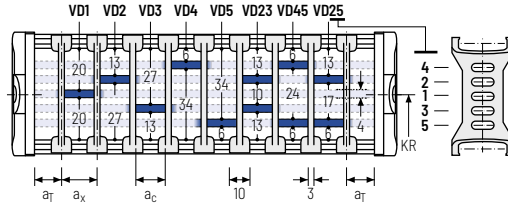
Number of dividers for design Q20 depending on B<sub>i</sub>  
\* not for design Q20



## Divider system TS1 with continuous height separation\*

Vers.	a <sub>T</sub> min [mm]	a <sub>T</sub> max [mm]	a <sub>x</sub> min [mm]	a <sub>c</sub> min [mm]	a <sub>x</sub> grid [mm]	η <sub>T</sub> min
A	5	20	10	7	-	2
B	5	20	10	7	2.5	2

\* not for design Q20



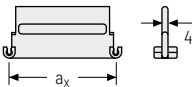
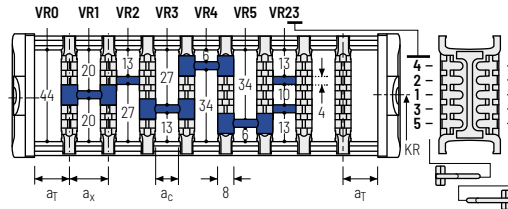
## Divider system TS3 with height separation consisting of plastic section subdivisions\*

Vers.	a <sub>T</sub> min [mm]	a <sub>x</sub> min [mm]	a <sub>c</sub> min [mm]	η <sub>T</sub> min
A	4	16/40**	8	2

\* not for design Q20

\*\* for aluminium partitions

The dividers are fixed with the partitions. The entire divider system can be moved in the cross section.



Aluminium partitions in 1 mm increments with a<sub>x</sub> > 42 mm are also available.

a <sub>x</sub> (centre distance of dividers) [mm]											
a <sub>c</sub> (usable width of inner chamber) [mm]											
16	18	23	28	32	33	38	43	48	58	64	68
8	10	15	20	24	25	30	35	40	50	56	60
78	80	88	96	112	128	144	160	176	192	208	
70	72	80	88	104	120	136	152	168	184	200	

When using partitions with a<sub>x</sub> > 112 mm, we recommend an additional central support with a **twin divider**. The height separations VD4 and VD5 are not possible when using twin dividers.

Cable carrier

Cable carrier configuration

Configuration guidelines

Materials information

MONO series

QuickTrax® series

UNIFLEX Advanced series

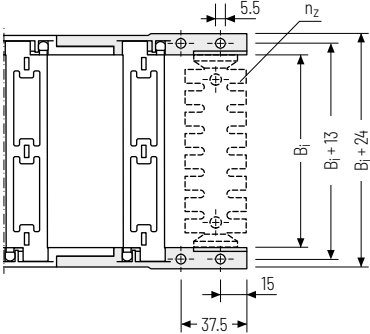
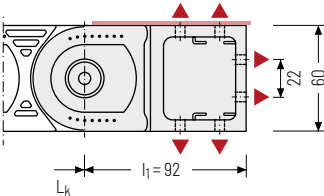
TKP35 series

TKK series

EasyTrax® series

Universal end connectors UMB – plastic (standard)

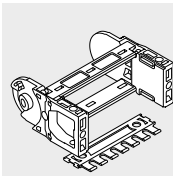
The universal mounting brackets (UMB) are made from plastic and can be mounted **from above, from below or on the face side**.



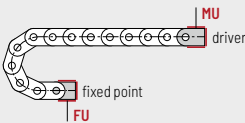
▲ Assembly options

Recommended tightening torque:  
5 Nm for screws M5 – 8.8

B <sub>1</sub> [mm]	n <sub>2</sub>
50	2 x 3
75	2 x 5
100	2 x 7
125	2 x 9
150	2 x 11
175	2 x 13



The end connectors are also available as an option **with** strain relief comb or **with** C-rail Art. no 3931 (1 on each side) for clamps. Please state when ordering.



**Connection point**  
**F** – fixed point  
**M** – driver

**Connection type**  
**U** – Universal mounting bracket

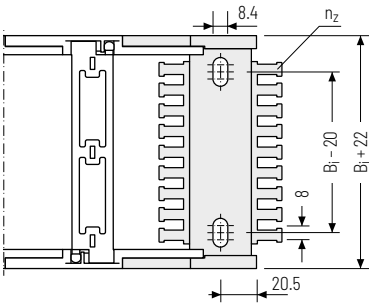
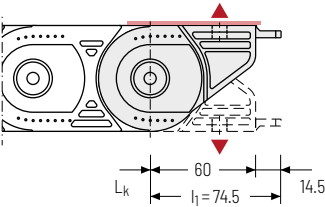
Order example

	UMB	F	U
	UMB	M	U
	End connector	Connection point	Connection type


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

Single-part end connectors – plastic

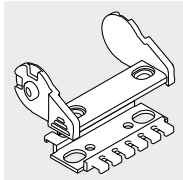
The plastic end connectors can be connected **from above or below**. The connection type can be changed by altering the position of the end connector.



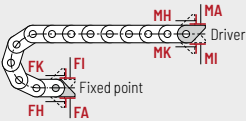
▲ Assembly options

 Recommended tightening torque:  
15 Nm for screws M8 – 8.8

$B_i$ [mm]	$n_z$
50	2 x 4
75	2 x 6
100	2 x 8
125	2 x 10
150	2 x 12
175	2 x 14
200	2 x 16
225	2 x 18
250	2 x 20



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




Connection point

- F – fixed point
- M – driver

Connection type

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

Order example



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

Cable carrier	Cable carrier configuration	Configuration guidelines	Materials information	MONO series	QuickTrax® series	UNIFLEX Advanced series	TKP35 series	TKK series	EasyTrax® series
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# UA1775



**Pitch**  
77.5 mm



**Inner height**  
56 mm



**Inner widths**  
100 – 400 mm



**Bending radii**  
90 – 340 mm

## Stay variants



**Design 020** ..... page **198**

### Closed frame

- » Weight-optimised, closed plastic frame with particularly high torsional rigidity.
- » **Outside/inside:** not openable.



**Design 030** ..... page **199**

### Frame with outside detachable stays

- » Weight-optimised plastic frame with particularly high torsional rigidity.
- » **Outside:** openable and detachable.

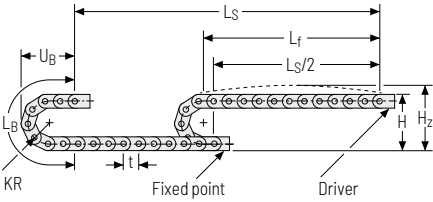


**Design 040** ..... page **200**

### Frame with inside detachable stays

- » Weight-optimised plastic frame with particularly high torsional rigidity.
- » **Inside:** openable and detachable.

Unsupported arrangement



KR [mm]	H [mm]	H <sub>Z</sub> [mm]	L <sub>B</sub> [mm]	U <sub>B</sub> [mm]
90	257	297	438	206
115	307	347	516	231
140	357	397	595	256
165	407	447	673	281
190	457	497	752	306
240	557	597	909	356
285	647	687	1050	401
340	757	797	1223	456

**Load diagram for unsupported length** depending on the additional load.

Sagging of the cable carrier is technically permitted for extended travel lengths, depending on the specific application.

Intrinsic cable carrier weight  $q_k = 3.03 \text{ kg/m}$  with  $B_f 150 \text{ mm}$ . For other inner widths, the maximum additional load changes.



**Speed**  
up to 10 m/s



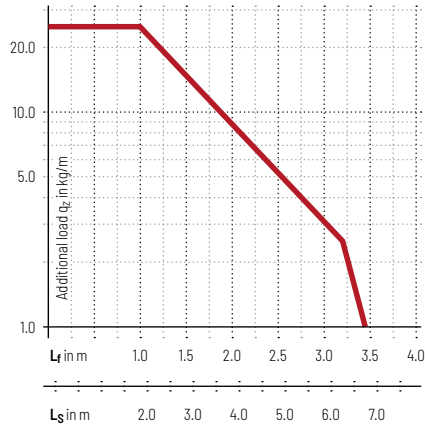
**Acceleration**  
up to 35 m/s<sup>2</sup>



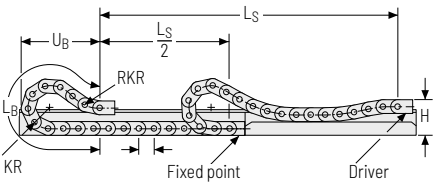
**Travel length**  
up to 6.8 m



**Additional load**  
up to 25 kg/m



Gliding arrangement | GO module with chain links optimized for gliding



KR [mm]	H [mm]	GO module RKR [mm]	L <sub>B</sub> [mm]	U <sub>B</sub> [mm]
90	231	400	1313	643
115	231	400	1440	688
140	231	400	1575	733
165	231	400	1715	779
190	231	400	1868	828
240	231	400	2225	951
285	231	400	2580	1081
340	231	400	3015	1240



**Speed**  
up to 3 m/s



**Acceleration**  
up to 8 m/s<sup>2</sup>



**Travel length**  
up to 200 m



**Additional load**  
up to 25 kg/m



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

The GO module mounted on the driver is a defined sequence of 5 adapted KR/RKR link plates.

Glide shoes must be used for gliding applications.

Cable carrier

Cable carrier configuration

Configuration guidelines

Materials information

MONO series

QuickTrax® series

UNIFLEX Advanced series

TKP35 series

TKK series

EasyTrax® series

Stay variant 020 – closed frame

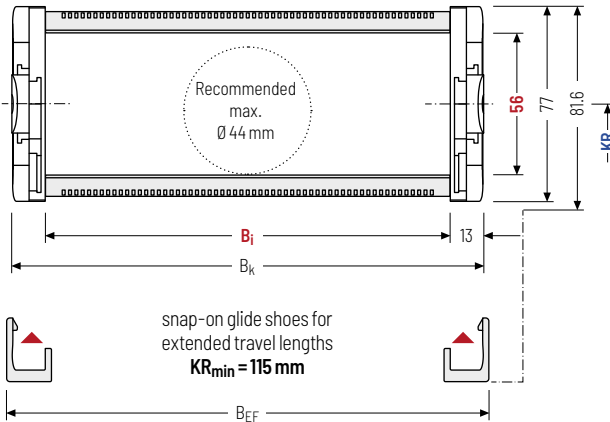
- » Weight-optimised, closed plastic frame with particularly high torsional rigidity.
- » **Outside/inside:** not openable.



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



$B_i$  100 – 400 mm



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

Calculating the cable carrier length

Cable carrier length  $L_k$

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

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

$h_i$ [mm]	$h_G$ [mm]	$h_G'$ [mm]	$B_i$ [mm]					$B_k$ [mm]	$B_{EF}$ [mm]	$KR$ [mm]			$q_k$ [kg/m]
			100	125	150	175	200			90	115	140	
56	77	81.6	225	250	275	300	325	$B_i + 26$	$B_i + 30$	165	190	240	2.844 – 4.239
			350	375	400					285	340		

Order example



UA1775  
Type

020  
Stay variant

150  
 $B_i$  [mm]

140  
 $KR$  [mm]

3100  
 $L_k$  [mm]

VS  
Stay arrangement

Stay variant 030 – with outside opening and detachable stays

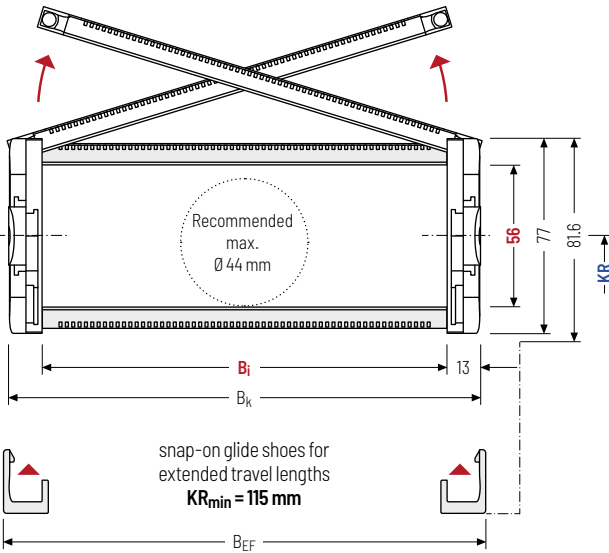
- » Weight-optimised plastic frame with particularly high torsional rigidity.
- » Swivable and detachable left or right in any position.
- » **Outside:** openable and detachable.



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



B<sub>i</sub> 100 – 400 mm



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

Calculating the cable carrier length

Cable carrier length L<sub>k</sub>

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

Cable carrier length L<sub>k</sub> rounded to pitch t

h <sub>i</sub> [mm]	h <sub>G</sub> [mm]	h <sub>G'</sub> [mm]	B <sub>i</sub> [mm]					B <sub>k</sub> [mm]	B <sub>EF</sub> [mm]	KR [mm]			q <sub>k</sub> [kg/m]
56	77	81.6	100	125	150	175	200	B <sub>i</sub> + 26	B <sub>i</sub> + 30	90	115	140	2.831 – 4.224
			225	250	275	300	325			165	190	240	
			350	375	400					285	340		

Order example



UA1775 Type · 030 Stay variant · 150 B<sub>i</sub> [mm] · 140 KR [mm] · 3100 L<sub>k</sub> [mm] · VS Stay arrangement

Cable carrier

Cable carrier configuration

Configuration guidelines

Materials information

MONO series

QuickTrax® series

UNIFLEX Advanced series

TKP35 series

TKK series

EasyTrax® series



Stay variant 040 – with inside opening and detachable stays

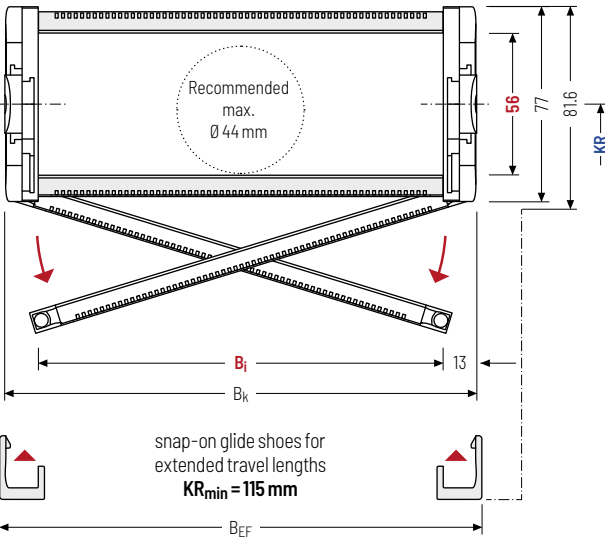
- » Weight-optimised plastic frame with particularly high torsional rigidity.
- » Swivable and detachable left or right in any position.
- » **Inside:** openable and detachable.



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



$B_i$  100 – 400 mm



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



Design 040 is not suitable for a gliding arrangements without the use of gliding shoes.

Calculating the cable carrier length

Cable carrier length  $L_k$

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

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

$h_i$ [mm]	$h_g$ [mm]	$h_g'$ [mm]	$B_i$ [mm]					$B_k$ [mm]	$B_{EF}$ [mm]	$KR$ [mm]			$q_k$ [kg/m]
			100	125	150	175	200			90	115	140	
56	77	81.6	225	250	275	300	325	$B_i + 26$	$B_i + 30$	165	190	240	2.831 – 4.224
			350	375	400					285	340		

Order example



UA1775  
Type

040  
Stay variant

150  
 $B_i$  [mm]

140  
 $KR$  [mm]

3100  
 $L_k$  [mm]

VS  
Stay arrangement

Divider systems

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

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

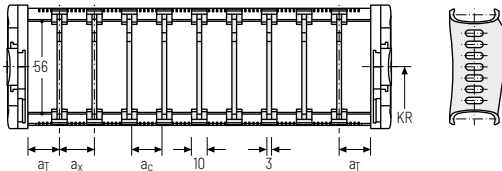
For applications with lateral acceleration and lying on the side, divider with arresting cams are available.

The locking cams click into place in the locking grids in the stays (**version B**).

Divider system TS0 without height separation

Vers.	a <sub>T</sub> min [mm]	a <sub>x</sub> min [mm]	a <sub>c</sub> min [mm]	a <sub>x</sub> grid [mm]	n <sub>T</sub> min
A	5	10	7	-	-
B	5	10	7	2.5	-

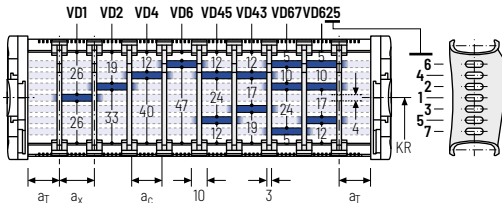
Number of dividers for design Q20 depending on B<sub>i</sub>




Divider system TS1 with continuous height separation\*

Vers.	a <sub>T</sub> min [mm]	a <sub>x</sub> min [mm]	a <sub>c</sub> min [mm]	a <sub>x</sub> grid [mm]	n <sub>T</sub> min
A	5	10	7	-	2
B	5	10	7	2.5	2

\* not for design Q20



Order example



TS1

A

3

VD0

⋮

VD1

Divider system

Version

n<sub>T</sub>

Height separation

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

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

Cable carrier

Cable carrier configuration

Configuration guidelines

Materials information

MONO series

QuickTrax® series

UNIFLEX Advanced series

TKP35 series

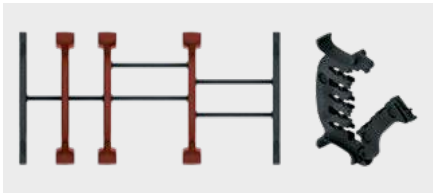
TKK series

EasyTrax® series

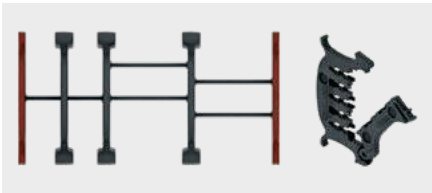
Divider system TS3 with height separation consisting of plastic partitions

As a standard, the divider **version A** is used for vertical partitioning within the cable carrier. The complete divider system can be moved within the cross section.

Divider version A



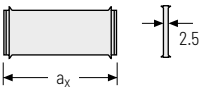
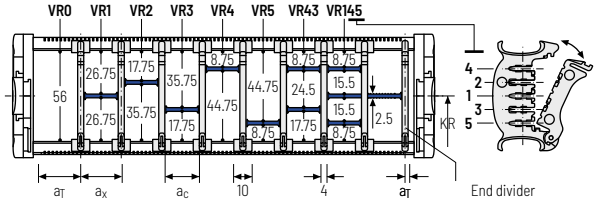
End divider



Vers.	a <sub>T</sub> min [mm]	a <sub>x</sub> min [mm]	a <sub>c</sub> min [mm]	η <sub>T</sub> min
A	5/2*	14	10	2

\* For End divider


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



a <sub>x</sub> (center distance of dividers) [mm]																			
a <sub>c</sub> (nominal width of inner chamber) [mm]																			
14	16	19	23	24	28	29	32	33	34	38	39	43	44	48	49	54	58	59	64
10	12	15	19	20	24	25	28	29	30	34	35	39	40	44	45	50	64	68	69
58	59	64	68	69	74	78	79	80	84	88	89	94	96	99	112	54	55	60	64
54	55	60	64	65	70	74	75	76	80	84	85	90	92	95	108	65	70	74	75

When using **partitions with a<sub>x</sub> > 49 mm** we recommended an additional preferential central support.

Order example



TS3

A

3

K1

34

VR1

⋮

K4

38

VR3

Divider system

Version

η<sub>T</sub>

Chamber

a<sub>x</sub>

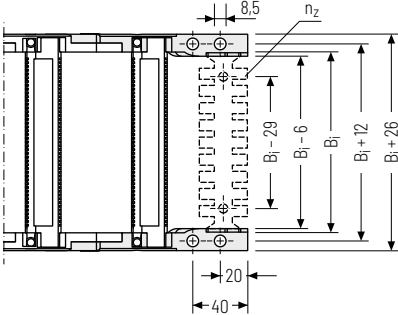
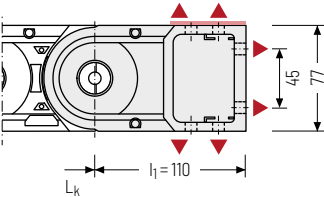
Height separation

Please state the designation of the divider system (**TS0, TS1,...**), version and number of dividers per cross section [η<sub>T</sub>]. In addition, please also enter the chambers [K] from left to right, as well as the assembly distances [a<sub>T</sub>/a<sub>x</sub>] (as seen from the driver).


If using divider systems with height separation (**TS1, TS3**) please also state the positions [e.g. VD23] viewed from the left driver belt. You are welcome to add a sketch to your order.

Universal end connectors UMB – plastic (standard)

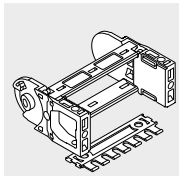
The universal mounting brackets (UMB) are made from plastic and can be mounted **from above, from below or on the face side**.



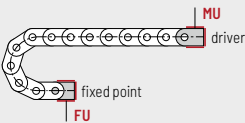
▲ Assembly options

 Recommended tightening torque:  
27 Nm for screws M8

$B_i$ [mm]	$n_z$
100	2 x 7
125	2 x 9
150	2 x 11
175	2 x 13



The end connectors are also available as an option **with** strain relief comb or **with** C-rail Art. no 3931 (1 on each side) for clamps. Please state when ordering.




**Connection point**  
**F** – fixed point  
**M** – driver

**Connection type**  
**U** – Universal mounting bracket

Order example



UMB	.	F	U
UMB	.	M	U
End connector		Connection point	Connection type

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

Cable carrier
Cable carrier configuration
Configuration guidelines
Materials information
MONO series
QuickTrax® series
UNIFLEX Advanced series
TKP35 series
TKK series
EasyTrax® series

# UA1995



**Pitch**  
99.5 mm



**Inner height**  
80 mm



**Inner widths**  
85 – 250 mm



**Bending radii**  
150 – 500 mm

## Stay variants



**Design 020** ..... page **206**

### Closed frame

- » Weight-optimised, closed plastic frame with particularly high torsional rigidity.
- » **Outside/inside:** not openable.



**Design 030** ..... page **207**

### Frame with outside detachable stays

- » Weight-optimised plastic frame with particularly high torsional rigidity.
- » **Outside:** release by rotating 90°.



**Design 040** ..... page **208**

### Frame with inside detachable stays

- » Weight-optimised plastic frame with particularly high torsional rigidity.
- » **Inside:** release by rotating 90°.

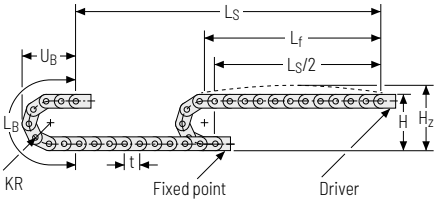


**Design 070** ..... page **209**

### Frame with outside and inside detachable stays

- » Weight-optimised plastic frame with particularly high torsional rigidity.
- » **Outside/inside:** release by rotating 90°.

Unsupported arrangement



KR [mm]	H [mm]	H <sub>z</sub> [mm]	L <sub>B</sub> [mm]	U <sub>B</sub> [mm]
150	410	440	680	250
210	530	560	860	310
250	610	640	990	350
300	710	740	1150	400
350	810	840	1300	450
400	910	940	1460	500
500	1110	1140	1770	600

**Load diagram for unsupported length** depending on the additional load.

Sagging of the cable carrier is technically permitted for extended travel lengths, depending on the specific application.

Intrinsic cable carrier weight  $q_k = 3.85 \text{ kg/m}$  with  $B_i 196 \text{ mm}$ . For other inner widths, the maximum additional load changes.



**Speed**  
up to 10 m/s



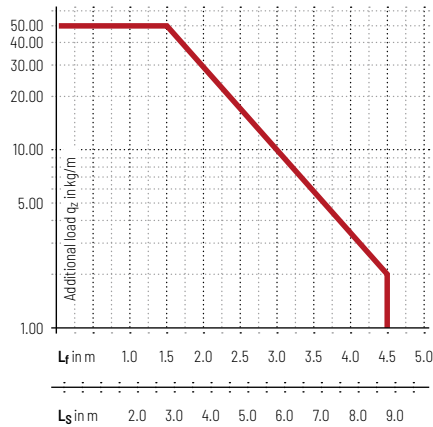
**Acceleration**  
up to  $25 \text{ m/s}^2$



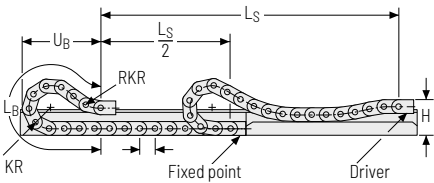
**Travel length**  
up to 9 m



**Additional load**  
up to  $50 \text{ kg/m}$



Gliding arrangement | GO module with chain links optimized for gliding\*



KR [mm]	H [mm]	GO module RKR [mm]	L <sub>B</sub> [mm]	U <sub>B</sub> [mm]
150	330	400	1805	890
210	330	400	2180	1010
250	330	400	2390	1070
300	330	400	2690	1160
350	330	400	3090	1310
400	330	400	3490	1450
500	330	400	4280	1740



**Speed**  
up to 8 m/s



**Acceleration**  
up to  $20 \text{ m/s}^2$



**Travel length**  
up to 200 m



**Additional load**  
up to  $50 \text{ kg/m}$



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

The GO module mounted on the driver is a defined sequence of 5 adapted KR/RKR link plates.

Glide shoes must be used for gliding applications.

Stay variant 020 – closed frame

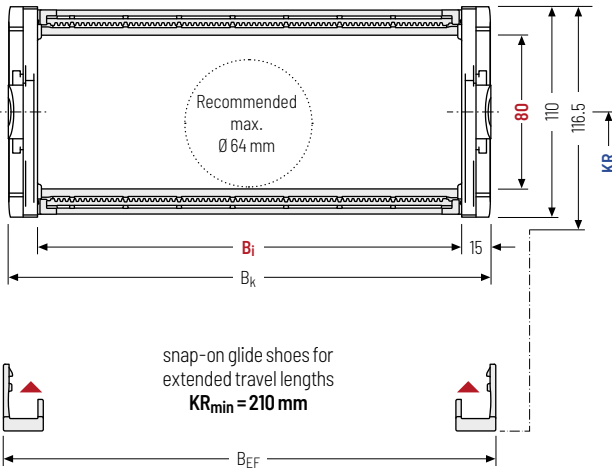
- » Weight-optimised, closed plastic frame with particularly high torsional rigidity.
- » **Outside/inside:** not openable.



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



$B_i$  85 – 250 mm



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

Calculating the cable carrier length

Cable carrier length  $L_k$

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

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

$h_i$ [mm]	$h_g$ [mm]	$h_g'$ [mm]	$B_i$ [mm]				$B_k$ [mm]	$B_{EF}$ [mm]	$KR$ [mm]				$q_k$ [kg/m]
80	110	116.5	85	125	138	150	$B_i + 30$	$B_i + 36$	150	210	250	300	3.860 – 3.861
			180	196	225	250			350	400	500		

Order example



UA1995  
Type

020  
Stay variant

150  
 $B_i$  [mm]

210  
 $KR$  [mm]

3582  
 $L_k$  [mm]

VS  
Stay arrangement

Stay variant 030 –  
with outside detachable stays

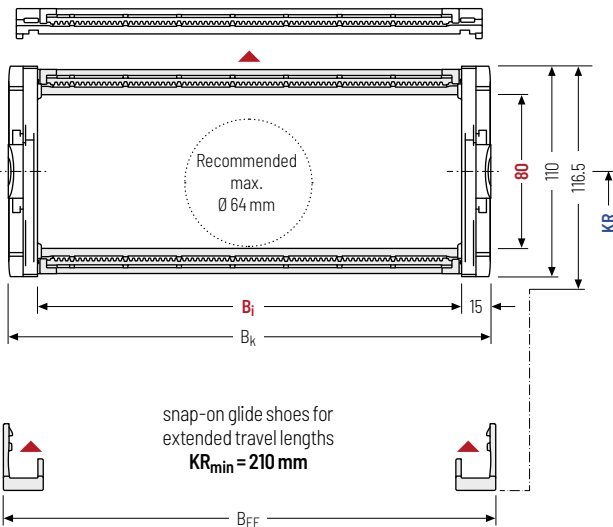
- » Weight-optimised plastic frame with particularly high torsional rigidity.
- » **Outside:** release by rotating 90°.



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



B<sub>i</sub> 85 – 250 mm



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

Calculating the cable carrier length

Cable carrier length L<sub>k</sub>

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

Cable carrier length L<sub>k</sub> rounded to pitch t

h <sub>i</sub> [mm]	h <sub>g</sub> [mm]	h <sub>g'</sub> [mm]	B <sub>i</sub> [mm]				B <sub>k</sub> [mm]	B <sub>EF</sub> [mm]	KR [mm]				q <sub>k</sub> [kg/m]
80	110	116.5	85	125	138	150	B <sub>i</sub> + 30	B <sub>i</sub> + 36	150	210	250	300	3.833 – 3.834
			180	196	225	250			350	400	500		

Order example



UA1995 . 030 . 150 . 210 . 3582 . VS  
Type Stay variant B<sub>i</sub> [mm] KR [mm] L<sub>k</sub> [mm] Stay arrangement

Cable carrier
Cable carrier configuration
Configuration guidelines
Materials information
MONO series
QuickTrax® series
UNIFLEX Advanced series
TKP35 series
TKK series
EasyTrax® series



Stay variant 040 –  
with inside detachable stays

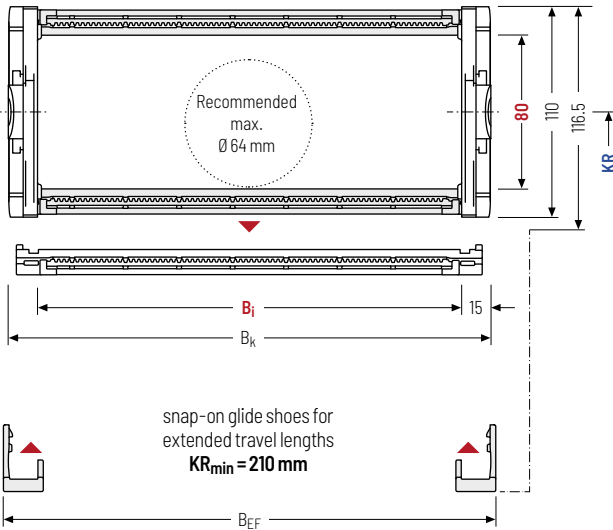
- » Weight-optimised plastic frame with particularly high torsional rigidity.
- » **Inside:** release by rotating 90°.



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



$B_i$  85 – 250 mm



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

Design 040 is not suitable for a gliding arrangements without the use of gliding shoes.

Calculating the  
cable carrier length

Cable carrier length  $L_k$

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

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

$h_i$ [mm]	$h_g$ [mm]	$h_g'$ [mm]	$B_i$ [mm]				$B_k$ [mm]	$B_{EF}$ [mm]	$KR$ [mm]				$q_k$ [kg/m]
80	110	116.5	85	125	138	150	$B_i + 30$	$B_i + 36$	150	210	250	300	3.833 – 3.834
			180	196	225	250			350	400	500		

Order example



UA1995 Type	040 Stay variant	150 $B_i$ [mm]	210 $KR$ [mm]	3582 $L_k$ [mm]	VS Stay arrangement
----------------	---------------------	-------------------	------------------	--------------------	------------------------

Stay variant 070 – with outside and inside detachable stays

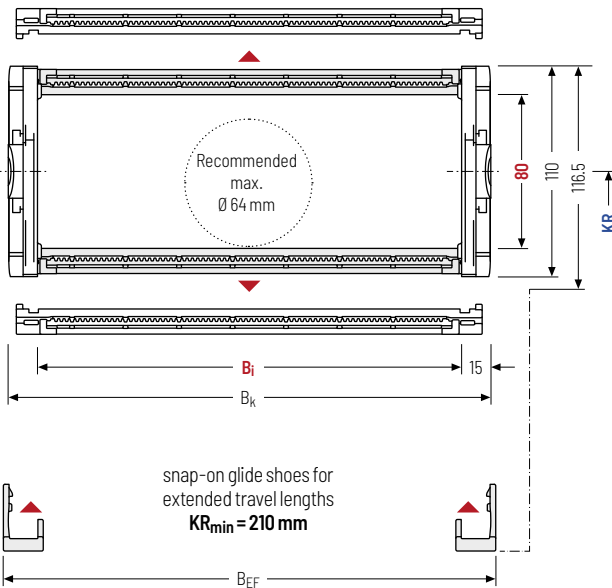
- » Weight-optimised plastic frame with particularly high torsional rigidity.
- » **Outside/Inside:** release by rotating 90°.



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



B<sub>i</sub> 85 – 250 mm



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

Design 070 is not suitable for a gliding arrangements without the use of gliding shoes.

Calculating the cable carrier length

Cable carrier length L<sub>k</sub>

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

Cable carrier length L<sub>k</sub> rounded to pitch t

h <sub>i</sub> [mm]	h <sub>G</sub> [mm]	h <sub>G'</sub> [mm]	B <sub>i</sub> [mm]				B <sub>k</sub> [mm]	B <sub>EF</sub> [mm]	KR [mm]				q <sub>k</sub> [kg/m]
80	110	116.5	85	125	138	150	B <sub>i</sub> + 30	B <sub>i</sub> + 36	150	210	250	300	3.852 – 3.853
			180	196	225	250			350	400	500		

Order example



UA1995 . 070 . 150 . 210 . 3582 . VS

Type Stay variant B<sub>i</sub> [mm] KR [mm] L<sub>k</sub> [mm] Stay arrangement

Cable carrier
Cable carrier configuration
Configuration guidelines
Materials information
MONO series
QuickTrax® series
UNIFLEX Advanced series
TKP35 series
TKK series
EasyTrax® series

Divider systems

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

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

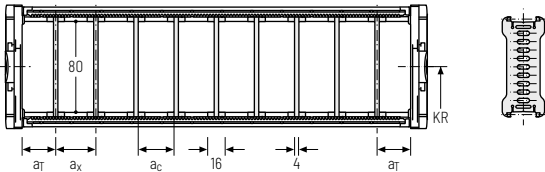
For applications with lateral acceleration and lying on the side, divider with arresting cams are available.

The locking cams click into place in the locking grids in the stays (**version B**).

Divider system TS0 without height separation

Vers.	a <sub>T</sub> min [mm]	a <sub>X</sub> min [mm]	a <sub>C</sub> min [mm]	a <sub>X</sub> grid [mm]	η <sub>T</sub> min
A	10	16	12	-	-
B	10	17.5	13.5	2.5	-

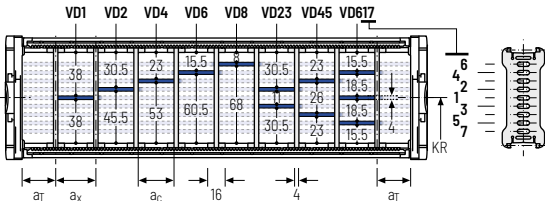
Number of dividers for design 020 depending on B<sub>1</sub>




Divider system TS1 with continuous height separation\*

Vers.	a <sub>T</sub> min [mm]	a <sub>X</sub> min [mm]	a <sub>C</sub> min [mm]	a <sub>X</sub> grid [mm]	η <sub>T</sub> min
A	10	16	12	-	2
B	10	17.5	13.5	2.5	2

\* not for design 020



Order example



TS1

A

3

VD0

⋮

VD1

Divider systemVersionη<sub>T</sub>Height separation

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

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

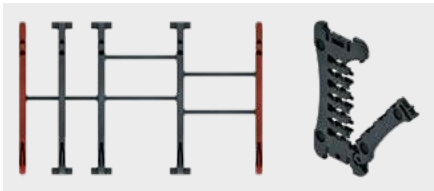
Divider system TS3 with height separation consisting of plastic partitions

As a standard, the divider **version A** is used for vertical partitioning within the cable carrier. The complete divider system can be moved within the cross section.

Divider version A



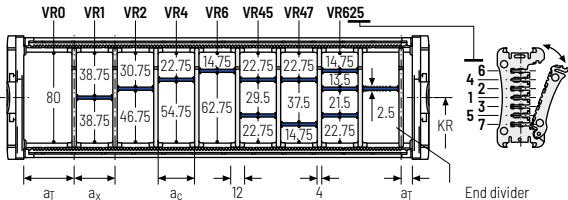
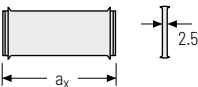
End divider



Vers.	a <sub>T</sub> min [mm]	a <sub>x</sub> min [mm]	a <sub>c</sub> min [mm]	n <sub>T</sub> min
A	8 / 4*	14	10	2

Number of dividers for design 020 depending on B<sub>i</sub>  
\* For End divider

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



a <sub>x</sub> (center distance of dividers) [mm]															
a <sub>c</sub> (nominal width of inner chamber) [mm]															
14	16	19	23	24	28	29	32	33	34	38	39	43	44	48	54
10	12	15	19	20	24	25	28	29	30	34	35	39	40	44	50
58	59	64	68	69	74	78	79	80	84	88	89	94	96	99	112
54	55	60	64	65	70	74	75	76	80	84	85	90	92	95	108

An additional central support is required when using plastic partitions with **a<sub>x</sub> > 49 mm**.

Order example



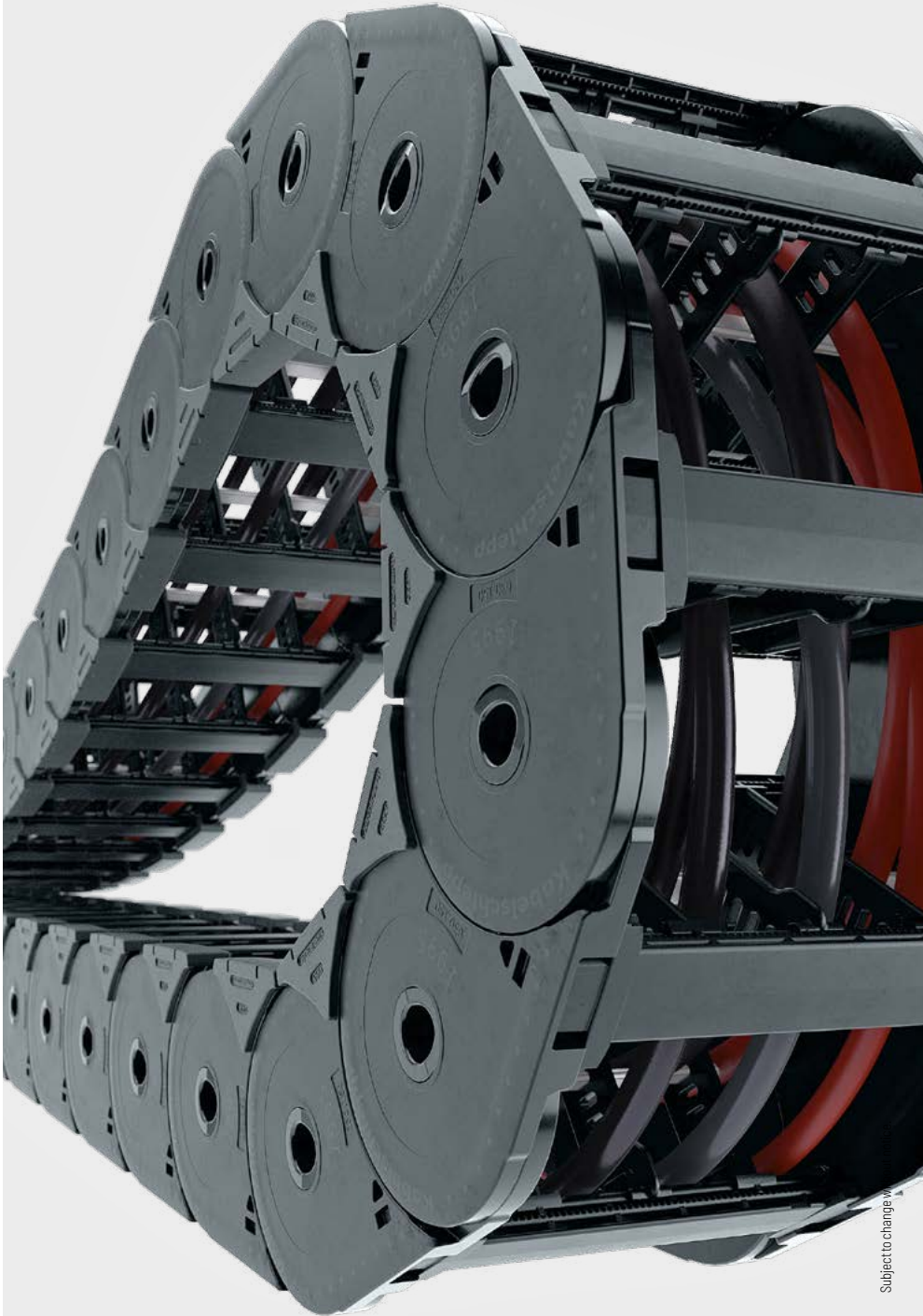
TS3	A	3	K1	34	VR1
			:	:	:
			K4	38	VR3
Divider system	Version	n <sub>T</sub>	Chamber	a <sub>x</sub>	Height separation

Please state the designation of the divider system (**TS0, TS1,...**), version and number of dividers per cross section [n<sub>T</sub>]. In addition, please also enter the chambers [K] from left to right, as well as the assembly distances [a<sub>T</sub>/a<sub>x</sub>] (as seen from the driver).

If using divider systems with height separation (**TS1, TS3**) please also state the positions [e.g. VD23] viewed from the left driver belt. You are welcome to add a sketch to your order.

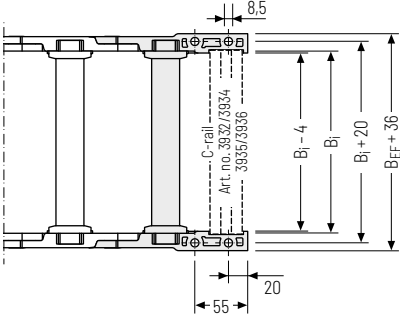
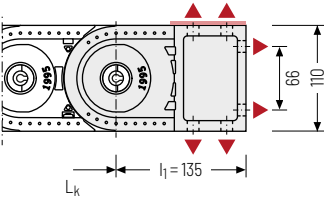
Cable carrier
Cable carrier configuration
Configuration guidelines
Materials information
MONO series
QuickTrax® series
UNIFLEX Advanced series
TKP35 series
TKK series
EasyTrax® series

EasyTrax® series	TKK series	TKP35 series	UNIFLEX Advanced series		QuickTrax® series	MONO series	Materials information	Configuration guidelines	Cable carrier configuration	Cable carrier
---------------------	---------------	-----------------	-------------------------------	--	----------------------	----------------	--------------------------	-----------------------------	--------------------------------	---------------




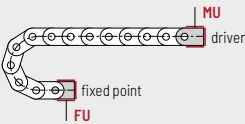
Universal end connectors UMB – plastic (standard)

The universal mounting brackets (UMB) are made from plastic and can be mounted **from above, from below or on the face side**.



▲ Assembly options

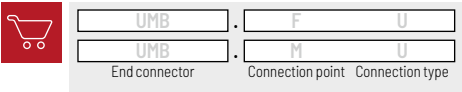
 Recommended tightening torque:  
27 Nm for screws M8




**Connection point**  
**F** – fixed point  
**M** – driver

**Connection type**  
**U** – Universal mounting bracket

Order example



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

Cable carrier
Cable carrier configuration
Configuration guidelines
Materials information
MONO series
QuickTrax® series
UNIFLEX Advanced series
TKP35 series
TKK series
EasyTrax® series

Additional product information online



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



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

# UNIFLEX *Advanced* series

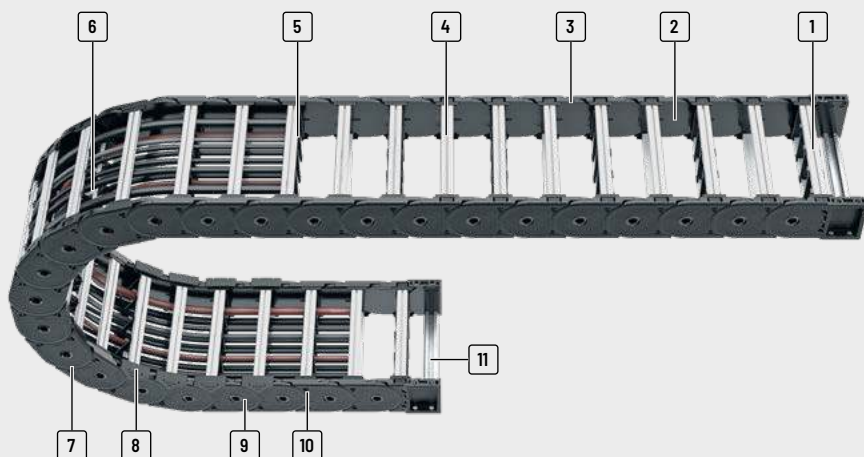
Light and quiet all-rounder



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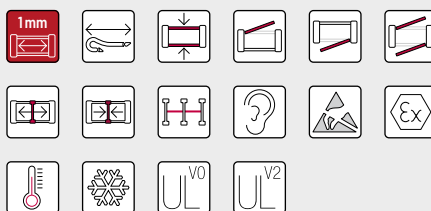




- 1 Aluminum stays available in **1 mm width sections**
- 2 Favourable ratio of inner to outer width
- 3 Chain link plates made of at least 35 % pure regregrulate
- 4 Quick and easy opening to the inside or outside for cable laying
- 5 Fixable dividers
- 6 Many separation options for the cables
- 7 Robust double-stroke system for long unsupported lengths
- 8 Replaceable glide shoes
- 9 Very quiet through integrated noise damping
- 10 Lateral wear surfaces
- 11 C-rail for strain relief elements

## Features

- » Four designs: closed, and openable to the inner or outer side or to both sides
- » Good ratio of inner to outer width
- » Easy assembly and fast cable laying
- » UMB connectors made of sturdy plastic (strengths comparable to aluminium)
- » Low-wear, cable-friendly design with smooth surface
- » Polygon-optimized bending radii for smooth and low-wear chain running



Replaceable glide shoes - optionally with automatic wear monitoring



UMB connectors made of sturdy plastic (strengths comparable to aluminium)



Lateral wear surfaces - for long service life for applications where the carrier is rotated through 90°



Rear grips at stopper for better force transmission and higher strengths



PROTUN® series
K series
UNIFLEX Advanced series
M series
TKHP® series
XL series
QUANTUM® series
TKR series
TKA series
UAT series

Type	Opening variant	Stay variant	h <sub>i</sub> [mm]	h <sub>G</sub> [mm]	B <sub>i</sub> [mm]	B <sub>k</sub> [mm]	B <sub>i</sub> - grid [mm]	t [mm]	KR [mm]	Additional load ≤ [kg/m]	Cable- d <sub>max</sub> [mm]
UA1995											
		RSH 020	80	110	66 - 600	96 - 630	1	99.5	150 - 500	50	64
		RSH 030	80	110	66 - 600	96 - 630	1	99.5	150 - 500	50	64
		RSH 040	80	110	66 - 600	96 - 630	1	99.5	150 - 500	50	64
		RSH 070	80	110	66 - 600	96 - 630	1	99.5	150 - 500	50	64

Unsupported arrangement			Gliding arrangement			Inner Distribution				Movement			Page
Travel length ≤ [m]	$v_{max}$ ≤ [m/s]	$a_{max}$ ≤ [m/s <sup>2</sup> ]	Travel length ≤ [m]	$v_{max}$ ≤ [m/s]	$a_{max}$ ≤ [m/s <sup>2</sup> ]	TS0	TS1	TS2	TS3	vertical hanging or standing	lying on the side	rotating arrangement	
9	10	25	200	8	20	•	-	-	•	•	•	•	350
9	10	25	200	8	20	•	•	-	•	•	•	•	351
9	10	25	200	8	20	•	•	-	•	•	•	•	352
9	10	25	200	8	20	•	•	-	•	•	•	•	353

PROTUM® series
K series
UNIFLEX Advanced series
M series
TKHP® series
XL series
QUANTUM® series
TKR series
TKA series
UAT series

# UA1995



**Pitch**  
99.5 mm



**Inner height**  
80 mm

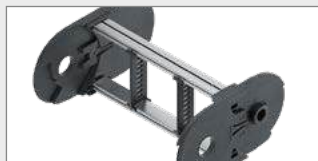


**Inner widths**  
66 – 600 mm



**Bending radii**  
150 – 500 mm

## Stay variants



**Design RSH 020** ..... page **350**

### Closed frame

- » Aluminum profile bars for light to medium loads.  
Assembly without screws.
- » **Outside/inside:** not openable.



**Design RSH 030** ..... page **351**

### Frame with outside detachable stays

- » Aluminum profile bars for light to medium loads.  
Assembly without screws.
- » **Outside:** release by rotating 90°.



**Design RSH 040** ..... page **352**

### Frame with inside detachable stays

- » Aluminum profile bars for light to medium loads.  
Assembly without screws.
- » **Inside:** release by rotating 90°.

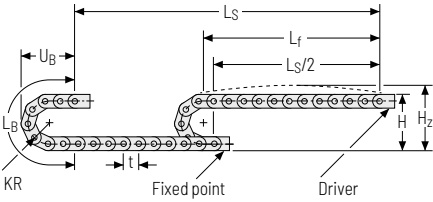


**Design RSH 070** ..... page **353**

### Frame with outside and inside detachable stays

- » Aluminum profile bars for light to medium loads.  
Assembly without screws.
- » **Outside/inside:** release by rotating 90°.

Unsupported arrangement



KR [mm]	H [mm]	H <sub>z</sub> [mm]	L <sub>B</sub> [mm]	U <sub>B</sub> [mm]
150	410	440	680	250
210	530	560	860	310
250	610	640	990	350
300	710	740	1150	400
350	810	840	1300	450
400	910	940	1460	500
500	1110	1140	1770	600

**Load diagram for unsupported length** depending on the additional load.

Sagging of the cable carrier is technically permitted for extended travel lengths, depending on the specific application.

Intrinsic cable carrier weight  $q_k = 3.85 \text{ kg/m}$  with  $B_i 196 \text{ mm}$ . For other inner widths, the maximum additional load changes.



**Speed**  
up to 10 m/s



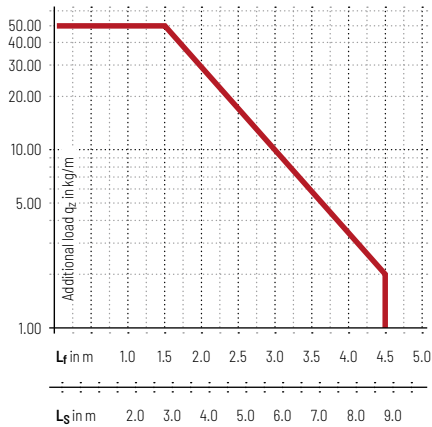
**Acceleration**  
up to 25 m/s<sup>2</sup>



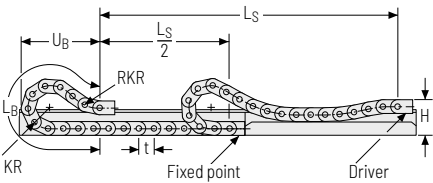
**Travel length**  
up to 9 m



**Additional load**  
up to 50 kg/m



Gliding arrangement | GO module with chain links optimized for gliding\*



KR [mm]	H [mm]	GO module RKR [mm]	L <sub>B</sub> [mm]	U <sub>B</sub> [mm]
150	330	400	1805	890
210	330	400	2180	1010
250	330	400	2390	1070
300	330	400	2690	1160
350	330	400	3090	1310
400	330	400	3490	1450
500	330	400	4280	1740



**Speed**  
up to 8 m/s



**Acceleration**  
up to 20 m/s<sup>2</sup>



**Travel length**  
up to 200 m



**Additional load**  
up to 50 kg/m



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

The GO module mounted on the driver is a defined sequence of 5 adapted KR/RKR link plates.

Glide shoes must be used for gliding applications.

Stay variant RSH 020 – closed frame

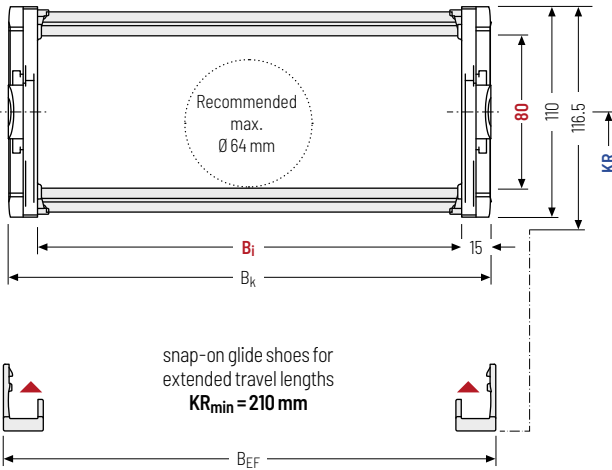
- » Aluminum profile bars for light to medium loads. Assembly without screws.
- » Available customized in **1 mm grid**.
- » **Outside/inside:** not openable.



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



**1mm** B<sub>i</sub> 66 – 600 mm  
in 1 mm width sections



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

Calculating the cable carrier length

Cable carrier length L<sub>k</sub>

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

Cable carrier length L<sub>k</sub> rounded to pitch t

$h_i$ [mm]	$h_G$ [mm]	$h_{G'}$ [mm]	$B_i$ [mm]*	$B_k$ [mm]	$B_{EF}$ [mm]	KR [mm]							$q_k$ [kg/m]
80	110	116.5	66 – 600	$B_i + 30$	$B_i + 36$	150	210	250	300	350	400	500	4.168 – 4.173

\* in 1 mm width sections

Order example



UA1995  
Type

150  
B<sub>i</sub> [mm]

RSH 020  
Stay variant

210  
KR [mm]

3582  
L<sub>k</sub> [mm]

VS  
Stay arrangement

Stay variant RSH 030 –  
with outside detachable stays

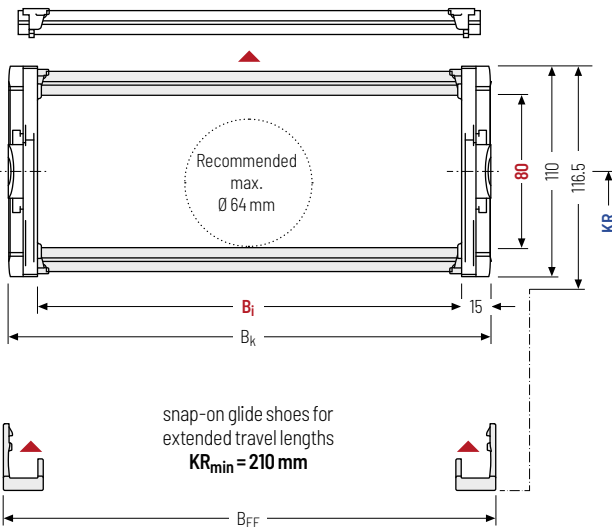
- » Aluminum profile bars for light to medium loads.  
Assembly without screws.
- » Available customized in **1 mm grid**.
- » **Outside:** release by rotating 90°.



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



**1mm** B<sub>I</sub> 66 – 600 mm  
in 1 mm width sections



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

Calculating the  
cable carrier length

Cable carrier length  $L_k$

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

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

$h_i$ [mm]	$h_g$ [mm]	$h_g'$ [mm]	$B_i$ [mm]*	$B_k$ [mm]	$B_{EF}$ [mm]	$KR$ [mm]							$q_k$ [kg/m]
80	110	116.5	66 – 600	$B_i + 30$	$B_i + 36$	150	210	250	300	350	400	500	4,192 – 4,197

\* in 1 mm width sections

Order example



UA1995	150	RSH 030	210	3582	VS
Type	B <sub>i</sub> [mm]	Stay variant	KR [mm]	L <sub>k</sub> [mm]	Stay arrangement

PROTUM®  
series

K  
series

UNIFLEX  
Advanced  
series

M  
series

TKHP®  
series

XL  
series

QUANTUM®  
series

TKR  
series

TKA  
series

UAT  
series

Stay variant RSH 040 –  
with inside detachable stays

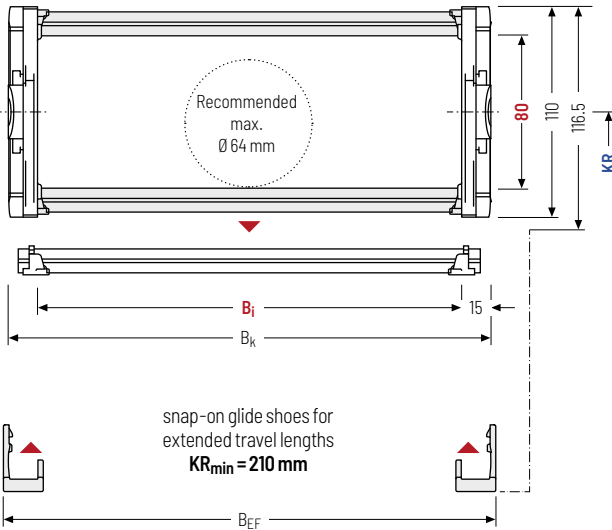
- » Aluminum profile bars for light to medium loads.  
Assembly without screws.
- » Available customized in **1 mm grid**.
- » **Inside**: release by rotating 90°.



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



**1 mm** B<sub>i</sub> 66 – 600 mm  
in 1 mm width sections



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

Design RSH 040 is not suitable for a gliding arrangements without the use of gliding shoes.

Calculating the  
cable carrier length

Cable carrier length L<sub>k</sub>

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

Cable carrier length L<sub>k</sub>  
rounded to pitch t

$h_i$ [mm]	$h_G$ [mm]	$h_{G'}$ [mm]	$B_i$ [mm]*	$B_k$ [mm]	$B_{EF}$ [mm]	KR [mm]							$q_k$ [kg/m]
80	110	116.5	66 – 600	$B_i + 30$	$B_i + 36$	150	210	250	300	350	400	500	4.192 – 4.197

\* in 1 mm width sections

Order example



UA1995  
Type

150  
B<sub>i</sub> [mm]

RSH 040  
Stay variant

210  
KR [mm]

3582  
L<sub>k</sub> [mm]

VS  
Stay arrangement

Stay variant RSH 070 – with outside and inside detachable stays

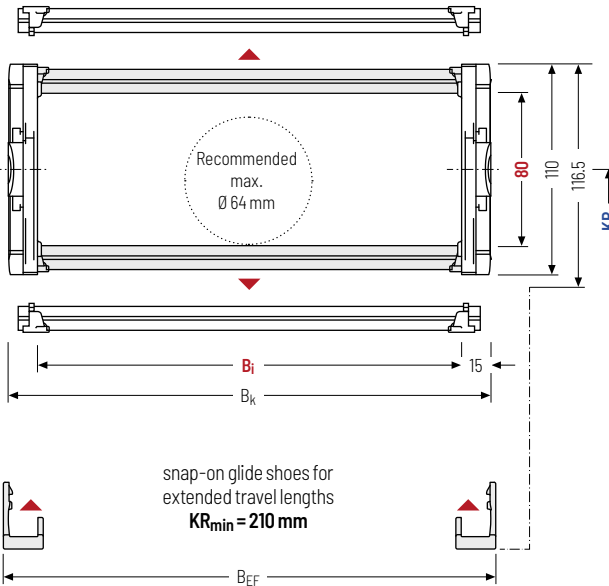
- » Aluminum profile bars for light to medium loads.  
Assembly without screws.
- » Available customized in **1 mm grid**.
- » **Outside/Inside:** release by rotating 90°.



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



**1 mm** B<sub>i</sub> 66 – 600 mm  
in 1 mm width sections



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



Design RSH 070 is not suitable for a gliding arrangements without the use of gliding shoes.

Calculating the cable carrier length

Cable carrier length L<sub>k</sub>

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

Cable carrier length L<sub>k</sub>  
rounded to pitch t

h <sub>i</sub> [mm]	h <sub>G</sub> [mm]	h <sub>G</sub> ' [mm]	B <sub>i</sub> [mm]*	B <sub>k</sub> [mm]	B <sub>EF</sub> [mm]	KR [mm]								q <sub>k</sub> [kg/m]
80	110	116.5	66 - 600	B <sub>i</sub> + 30	B <sub>i</sub> + 36	150	210	250	300	350	400	500		4,211 - 4,216

\* in 1 mm width sections

Order example



UA1995	150	RSH 070	210	3582	VS
Type	B <sub>i</sub> [mm]	Stay variant	KR [mm]	L <sub>k</sub> [mm]	Stay arrangement

PROTUM®  
series

K  
series

UNIFLEX  
Advanced  
series

M  
series

TKHP®  
series

XL  
series

QUANTUM®  
series

TKR  
series

TKA  
series

UAT  
series



Divider systems

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

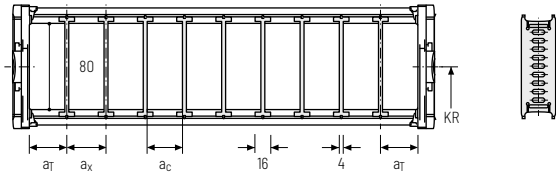
As a standard, dividers or the complete divider system (dividers with height separations) are movable in the cross section (**version A**).

For applications with lateral acceleration and lying on the side, the dividers can be attached by a fixing profile, available as an accessory (**version B**). The fixing profile must be installed at the factory.

Divider system TSO without height separation

Vers.	a <sub>T</sub> min [mm]	a <sub>X</sub> min [mm]	a <sub>C</sub> min [mm]	a <sub>X</sub> grid [mm]	n <sub>T</sub> min
A	10	16	12	-	-
B	10	17.5	13.5	2.5	-

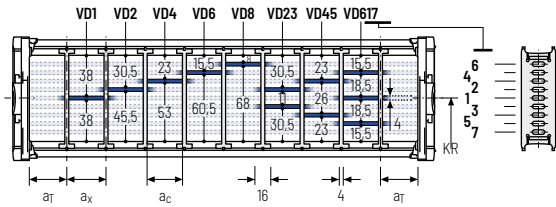
Number of dividers for design RSH 020 depending on B<sub>i</sub>




Divider system TS1 with continuous height separation\*

Vers.	a <sub>T</sub> min [mm]	a <sub>X</sub> min [mm]	a <sub>C</sub> min [mm]	a <sub>X</sub> grid [mm]	n <sub>T</sub> min
A	10	16	12	-	2
B	10	17.5	13.5	2.5	2

\* not for design RSH 020



Order example



TS1

A

3

VD0

⋮

VD1

Divider systemVersionn<sub>T</sub>Height separation

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

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

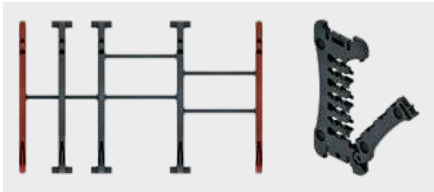
Divider system TS3 with height separation consisting of plastic partitions

As a standard, the divider **version A** is used for vertical partitioning within the cable carrier. The complete divider system can be moved within the cross section.

Divider version A



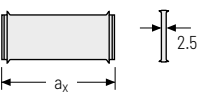
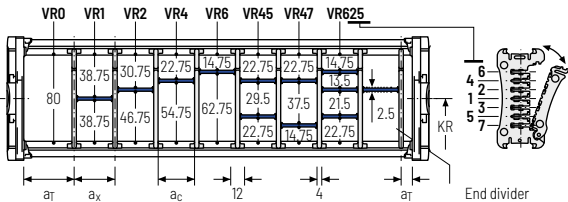
End divider



Vers.	a <sub>T</sub> min [mm]	a <sub>x</sub> min [mm]	a <sub>c</sub> min [mm]	n <sub>T</sub> min
A	8 / 4*	14	10	2

Number of dividers for design RSH 020 depending on B<sub>i</sub>  
\* For End divider

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



a <sub>x</sub> (center distance of dividers) [mm]																
a <sub>c</sub> (nominal width of inner chamber) [mm]																
14	16	19	23	24	28	29	32	33	34	38	39	43	44	48	49	54
10	12	15	19	20	24	25	28	29	30	34	35	39	40	44	45	50
58	59	64	68	69	74	78	79	80	84	88	89	94	96	99	112	
54	55	60	64	65	70	74	75	76	80	84	85	90	92	95	108	

An additional central support is required when using plastic partitions with a<sub>x</sub> > 49 mm.

Order example

TS3

A

3

K1

34

VR1

⋮

⋮

⋮

K4

38

VR3

Divider system

Version

n<sub>T</sub>

Chamber

a<sub>x</sub>

Height separation

Please state the designation of the divider system (**TS0, TS1,...**), version and number of dividers per cross section [n<sub>T</sub>]. In addition, please also enter the chambers [K] from left to right, as well as the assembly distances [a<sub>T</sub>/a<sub>x</sub>] (as seen from the driver).

If using divider systems with height separation (**TS1, TS3**) please also state the positions [e.g. VD23] viewed from the left driver belt. You are welcome to add a sketch to your order.

PROTUM®  
series

K  
series

UNIFLEX  
Advanced  
series

M  
series

TKHP®  
series

XL  
series

QUANTUM®  
series

TKR  
series

TKA  
series

UAT  
series

PROTUM®  
series

K  
series

UNIFLEX  
Advanced  
series

M  
series

TKHP®  
series

XL  
series

QUANTUM®  
series

TKR  
series

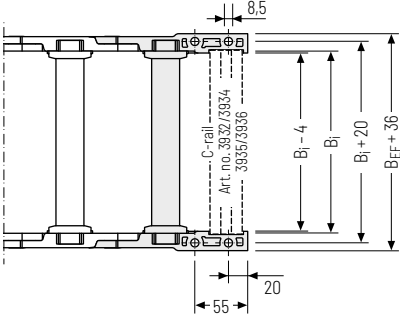
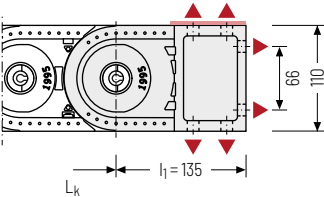
TKA  
series

UAT  
series




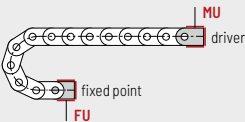
Universal end connectors UMB – plastic (standard)

The universal mounting brackets (UMB) are made from plastic and can be mounted **from above, from below or on the face side**.



▲ Assembly options

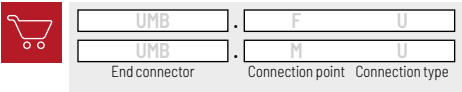
 Recommended tightening torque:  
27 Nm for screws M8




**Connection point**  
**F** – fixed point  
**M** – driver

**Connection type**  
**U** – Universal mounting bracket

Order example



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

PROTUM® series	K series	UNIFLEX Advanced series	M series	TKHP® series	XL series	QUANTUM® series	TKR series	TKA series	UAT series
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Additional product information online



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



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