UNIFLEX *Advanced* **series**

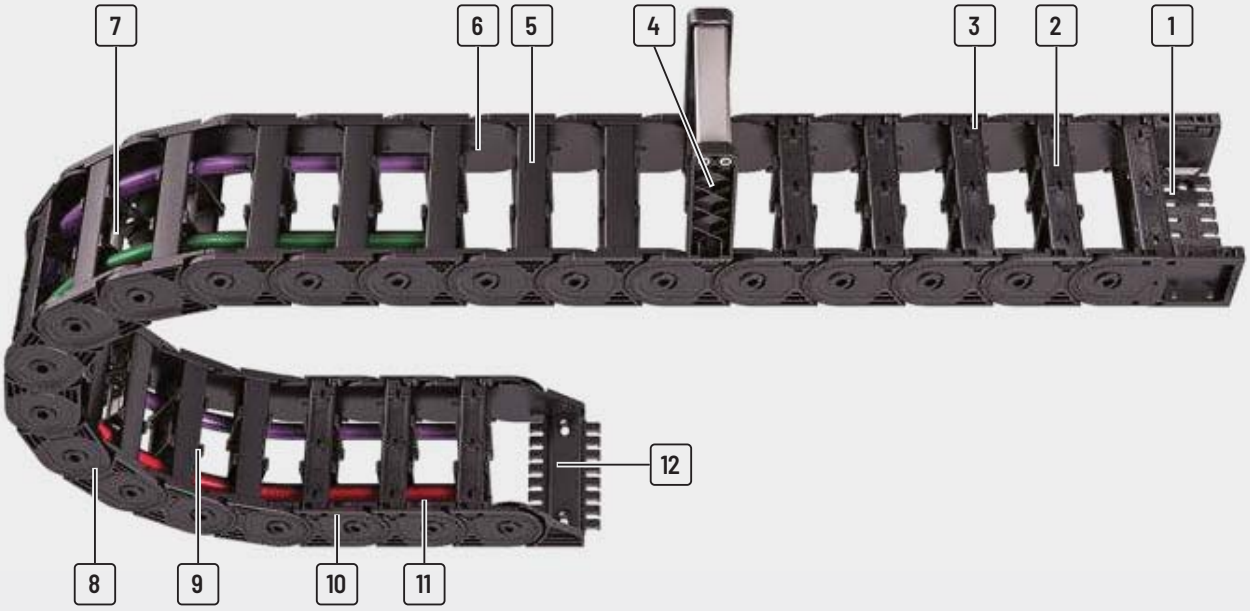
Light, quiet all-rounder with a wide range of applications*

Fraunhofer IPA TESTED® DEVICE
KABELSCHLEPP GmbH
1455.030.058.052
Report No. KA 1008-531

Fraunhofer IPA TESTED® DEVICE
KABELSCHLEPP GmbH
1455.030.058.052 ESDn
Report No. KA 1008-531

TSUBAKI ECO LINK

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



1 Universal mounting bracket (UMB) with integratable strain relief comb

2 Designs with inside or outside opening stays

3 Extremely fast and easy to open due to ball joint mechanism

4 Top-mounted frame stay

5 Single-part links (type 020)

6 Favourable ratio of inner to outer width

7 Many separation options for the cables

8 Robust double-stroke system for long unsupported lengths

9 Easy divider fixing

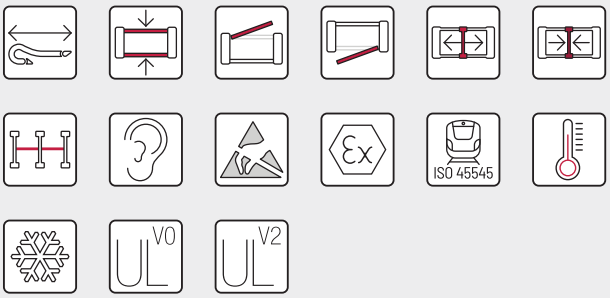
10 Very quiet through integrated noise damping

11 Lateral wear surfaces

12 Single-part end connectors with integratable strain relief comb

Features

» Extensive unsupported lengths
» High torsional rigidity
» Good ratio of inner to outer width
» Numerous custom material types for custom applications available
» Easy assembly and fast cable laying
» Assembly tools available
» Stays with ball joint opening on both sides
» Many possibilities for internal subdivision
» Wear surfaces for gliding applications with extended travel lengths



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

UNIFLEX Advanced series | Overview

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]
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 – 230	10	30
		030	38	50	50 – 150	68 – 168	–	55.5	63 – 230	10	30
		040	38	50	50 – 150	68 – 168	–	55.5	63 – 230	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
		RMA	44 (114-189)	60 (170-245)	125 – 200	147 – 222	1	66.5	75 – 300	15	35/151

UNIFLEX Advanced series | Overview

Unsupported arrangement			Gliding arrangement			Inner Distribution				Movement			Page
Travel length ≤ [m]	v_{max} ≤ [m/s]	a_{max} ≤ [m/s²]	Travel length ≤ [m]	v_{max} ≤ [m/s]	a_{max} ≤ [m/s²]	TS0	TS1	TS2	TS3	vertical hanging or standing	lying on the side	rotating arrangement	
1,6	10	50	60	3	30	•	–	–	–	•	•	•	150
2.9	10	50	80	2.5	25	•	–	–	–	•	•	•	156
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

UNIFLEX Advanced series | Overview

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

UNIFLEX Advanced series | Overview

Unsupported arrangement			Gliding arrangement			Inner Distribution				Movement			Page
Travel length ≤ [m]	v_{max} ≤ [m/s]	a_{max} ≤ [m/s²]	Travel length ≤ [m]	v_{max} ≤ [m/s]	a_{max} ≤ [m/s²]	TS0	TS1	TS2	TS3	vertical hanging or standing	lying on the side	rotating arrangement	
7.8	10	35	200	3	8	•	–	–	•	•	•	•	196
7.8	10	35	200	3	8	•	•	–	•	•	•	•	197
7.8	10	35	200	3	8	•	•	–	•	•	•	•	198
4.5	10	25	200	8	20	•	–	–	•	•	•	•	204
4.5	10	25	200	8	20	•	•	–	•	•	•	•	205
4.5	10	25	200	8	20	•	•	–	•	•	•	•	206
4.5	10	25	200	8	200	•	•	–	•	•	•	•	207

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**

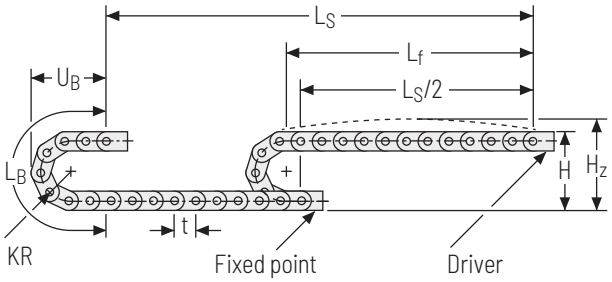
Closed frame

» 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 244.**

Unsupported arrangement

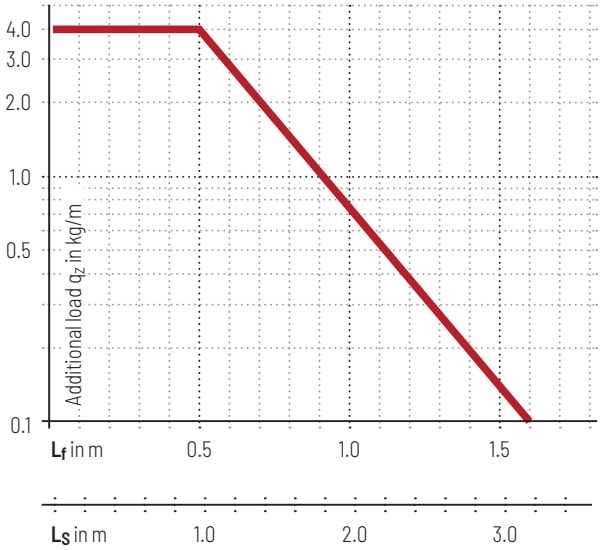


KR [mm]	H [mm]	Hz [mm]	LB [mm]	UB [mm]
28	79	104	138	65
38	99	124	169	75
45	113	138	191	82
60	143	168	238	97
75	173	198	286	112
100	223	248	364	137

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 kg/m with B_i 50 mm. For other inner widths, the maximum additional load changes.



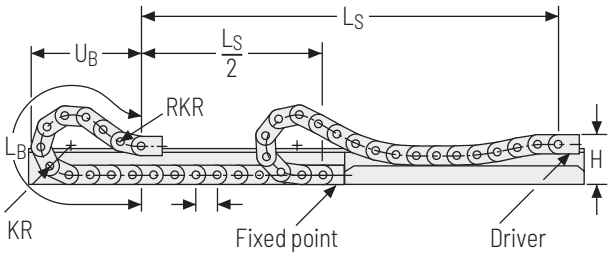
Speed
up to 10 m/s

Acceleration
up to 50 m/s²

Travel length
up to 1.6 m

Additional load
up to 4 kg/m

Gliding arrangement



Speed
up to 3 m/s

Acceleration
up to 30 m/s²

Travel length
up to 60 m

Additional load
up to 4kg/m

The gliding cable carrier must be guided in a channel. See p. 850.

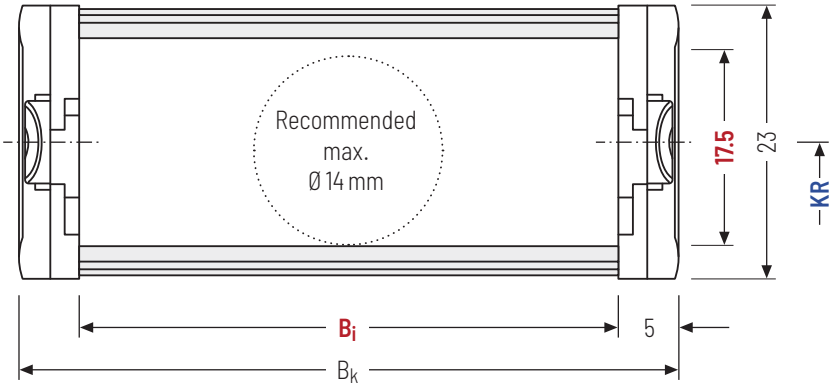
UA1250.020 | Dimensions · Technical data

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

* on request

Order example

UA1250	.	020	.	50	.	75	-	1100		VS
Type		Stay variant		B_i [mm]		KR [mm]		L_k [mm]		Stay arrangement

Divider systems

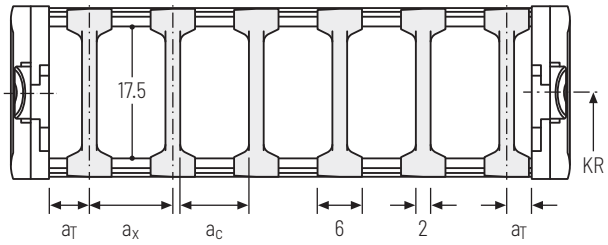
The divider system is mounted on every 2nd chain link as a standard.

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

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 TS0 without height separation

Vers.	a_T min [mm]	a_x min [mm]	a_c min [mm]	a_x grid [mm]	n_T min
A	3	6	4	–	–
B	3	6	4	2	–



Order example

TS0 . A . 3

Divider system | Version | n_T

Please state the designation of the divider system (TS0), the version, and the number of dividers per cross section [n_T]. You are welcome to add a sketch to your order.

Additional product information online

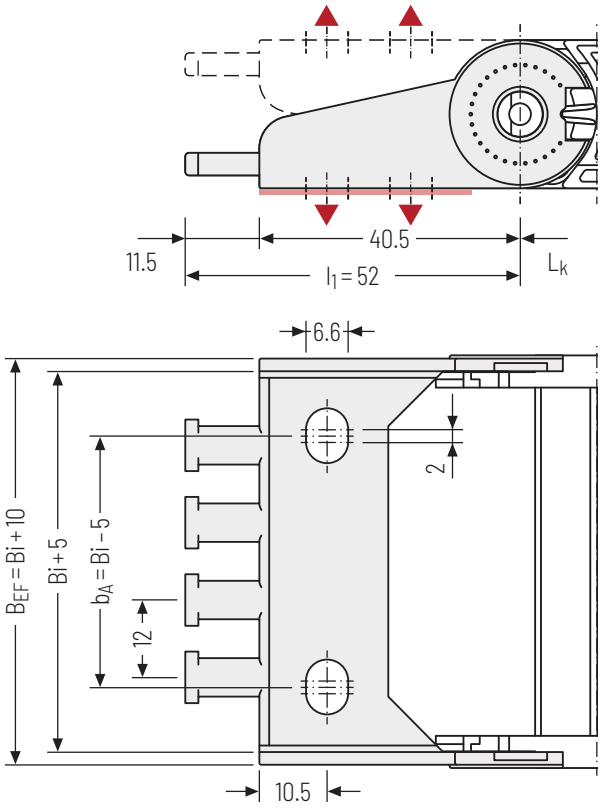
Installation instructions, etc.:
Additional info via your smartphone or check online at
tsubaki-kabelschlepp.com/downloads

Configure your cable carrier here:
online-engineer.de

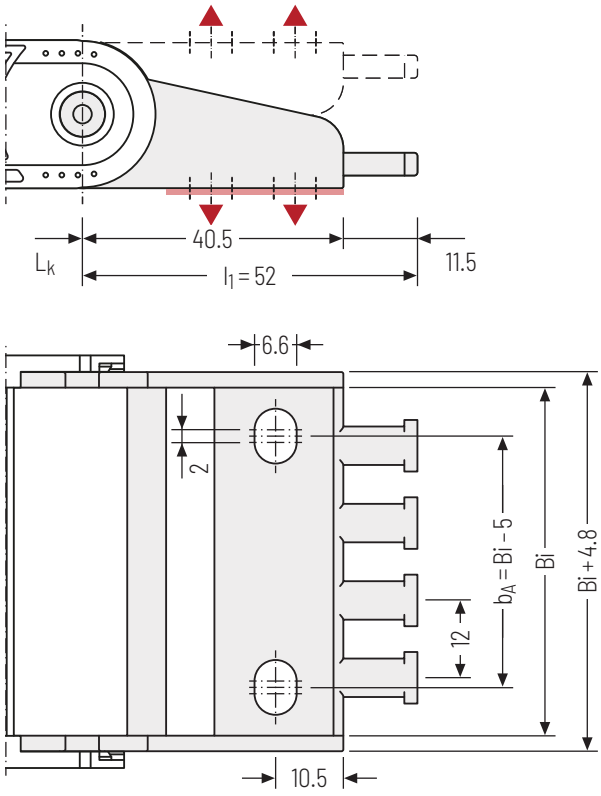
Single-part end connectors – plastic (with integrated strain relief)

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.

Driver

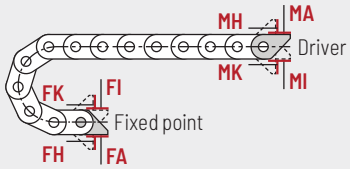


Fixed point



▲ Assembly options

B_i [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.

UA1320

Pitch
32 mm

Inner height
20 mm

Inner widths
15 – 65 mm

Bending radii
28 – 125 mm

Stay variants

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

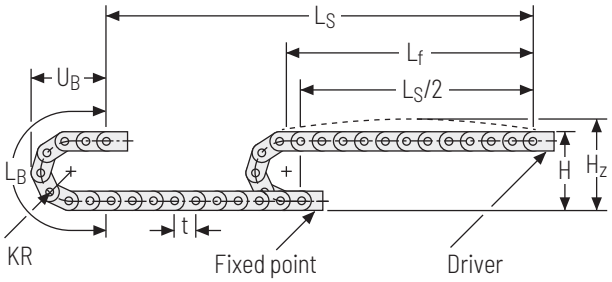
Closed frame

» 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 250.**

Unsupported arrangement

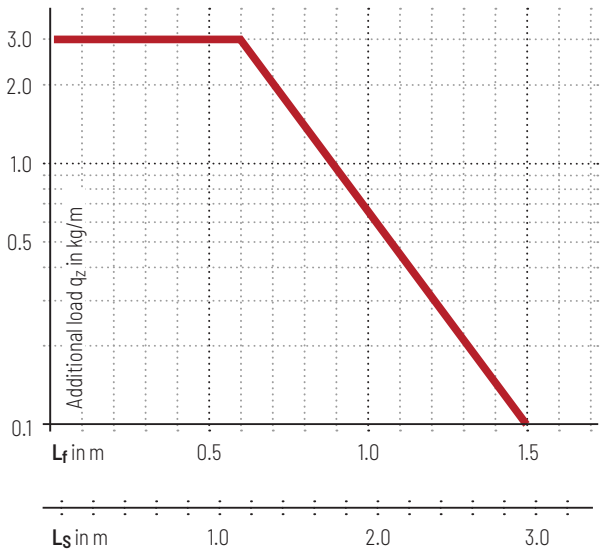


KR [mm]	H [mm]	Hz [mm]	LB [mm]	UB [mm]
28	81.5	98.5	152	73
38	101.5	118.5	184	83
48	121.5	138.5	215	93
75	175.5	192.5	300	120
100	225.5	242.5	379	145
125	275.5	292.5	457	170

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 kg/m with B_i 50 mm. For other inner widths, the maximum additional load changes.



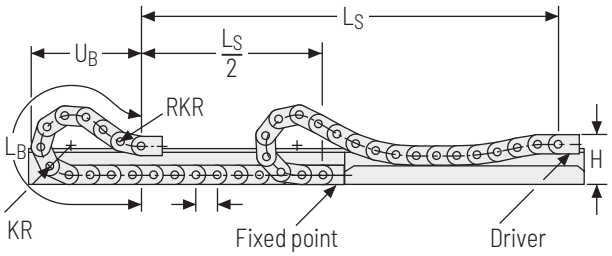
Speed
up to 10 m/s

Acceleration
up to 50 m/s²

Travel length
up to 2.9 m

Additional load
up to 3 kg/m

Gliding arrangement



Speed
up to 2.5 m/s

Acceleration
up to 25 m/s²

Travel length
up to 80 m

Additional load
up to 3 kg/m

The gliding cable carrier must be guided in a channel. See p. 850.

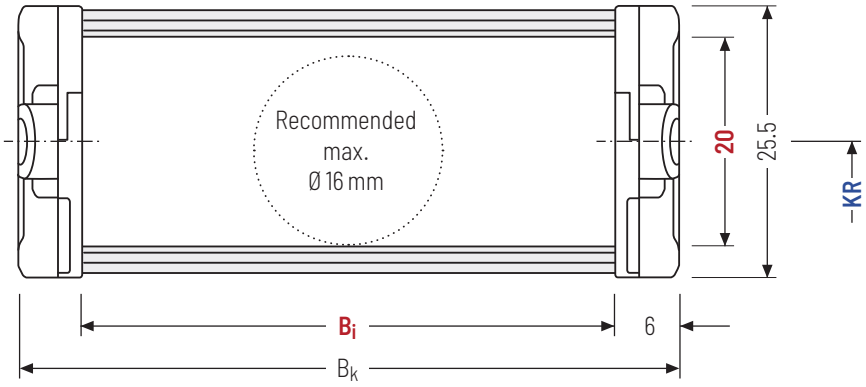
UA1320.020 | Dimensions · Technical data

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	.	020	.	50	.	100	-	960		VS
Type		Stay variant		B_i [mm]		KR [mm]		L_k [mm]		Stay arrangement

UA1320.020 | Inner distribution | TS0

Divider systems

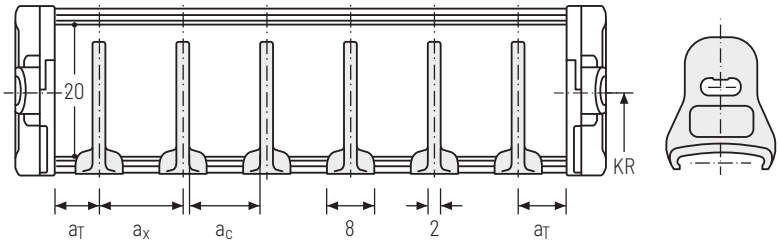
The divider system is mounted on every 2nd chain link as a standard.

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

Divider system TS0 without height separation

Vers.	$a_{T\,min}$ [mm]	$a_{x\,min}$ [mm]	$a_{c\,min}$ [mm]	$n_{T\,min}$
A	4	8	6	–

The dividers can be moved in the cross section.



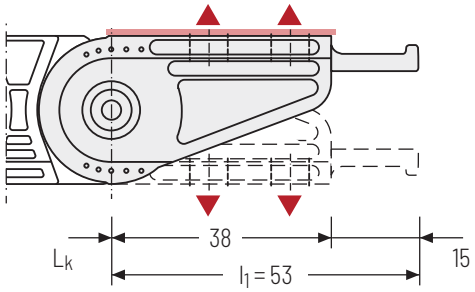
Order example

TS1	.	A	.	3
Divider system		Version		n_T

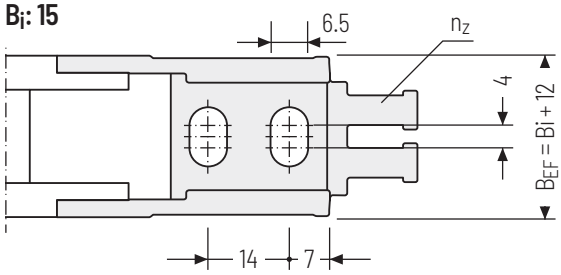
Please state the designation of the divider system **(TS0)**, the version, and the number of dividers per cross section [n_T]. You are welcome to add a sketch to your order.

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

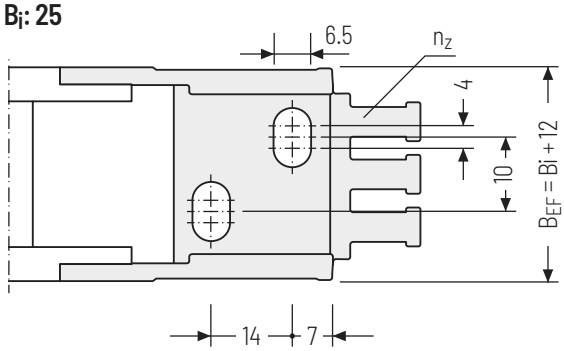
The plastic end connectors can be connected from above or below. The connection type can be changed by altering the position of the end connector.



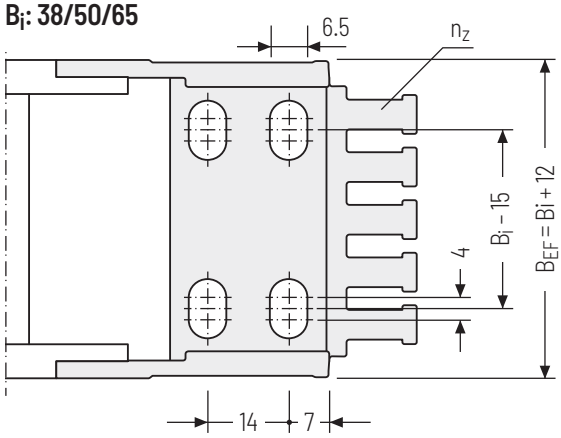
B_i: 15



B_i: 25

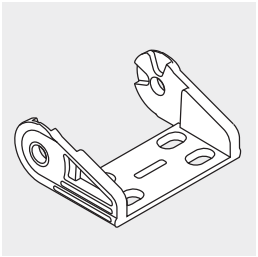


B_i: 38/50/65

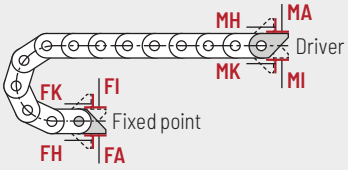


▲ Assembly options

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



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



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

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

Order example

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

UA1455

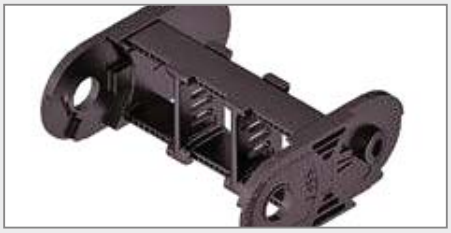
Pitch
45.5 mm

Inner height
26 mm

Inner widths
25 – 130 mm

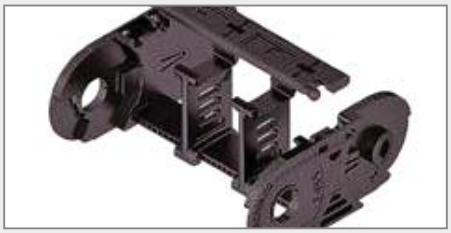
Bending radii
52 – 225 mm

Stay variants



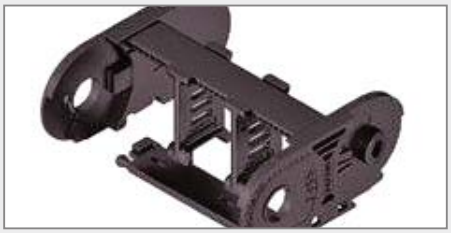
Design 020 ..... page **164**

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**

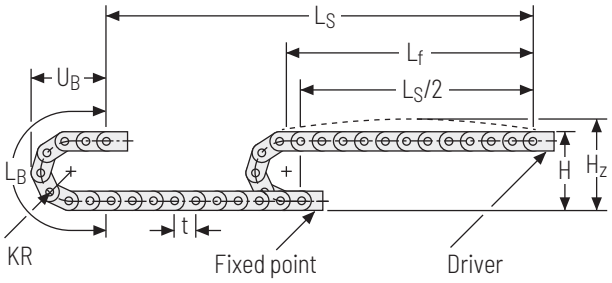
Frame with inside detachable stays
» Weight-optimised plastic frame with particularly high torsional rigidity.
» **Inside:** openable and detachable.

EasyTrax®

For an openable cable carrier with 25 mm inner height we recommend the series EasyTrax® 1455
ET1455 from page 256.

UA1455 | Installation dim. | Unsupported · Gliding

Unsupported arrangement

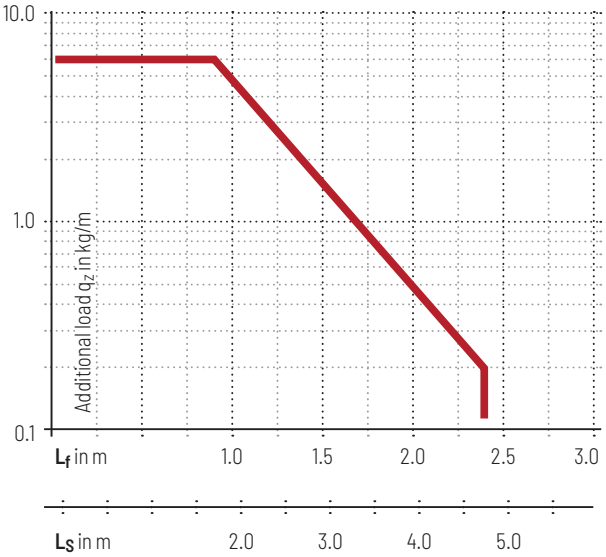


KR [mm]	H [mm]	Hz [mm]	LB [mm]	UB [mm]
52	140	165	255	116
65	166	191	296	129
95	226	251	390	159
125	286	311	484	189
150	336	361	563	214
180	396	421	657	244
200	436	461	720	264

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 kg/m with B_i 38 mm. For other inner widths, the maximum additional load changes.



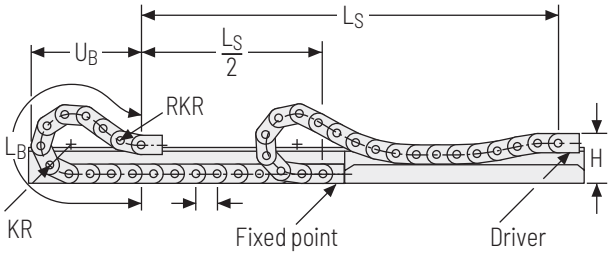
Speed
up to 10 m/s

Acceleration
up to 50 m/s²

Travel length
up to 4.8 m

Additional load
up to 6 kg/m

Gliding arrangement | GO module with chain links optimized for gliding



KR [mm]	H [mm]	GO-Modul RKR [mm]	LB [mm]	UB [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 m/s²

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. 850.

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.

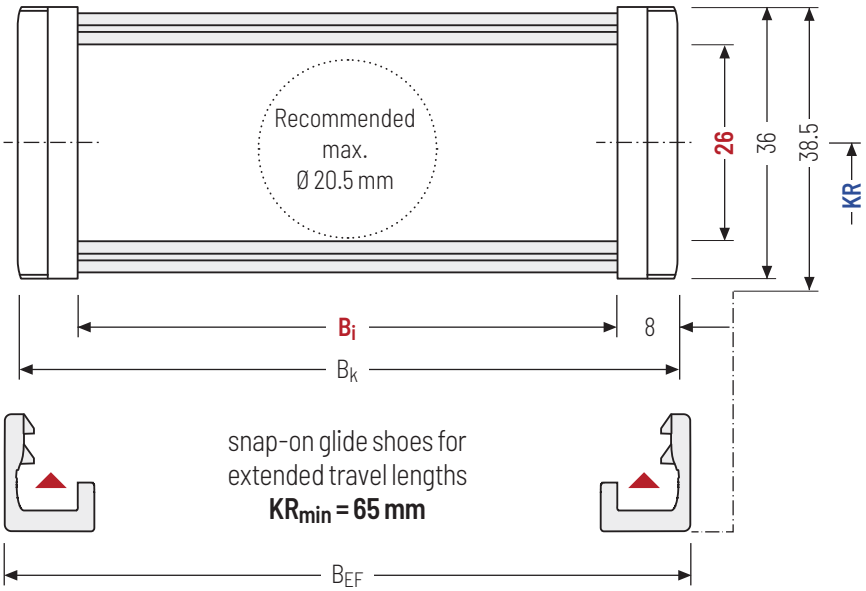
UA1455.020 | Dimensions · Technical data

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 78	38 103	58 130	B_i + 16	B_i + 19	52 150	65 180	95 200	125	0.71 – 1.12

Order example

UA1455	.	020	.	78	.	150	-	1456		VS
Type		Stay variant		B_i [mm]		KR [mm]		L_k [mm]		Stay arrangement

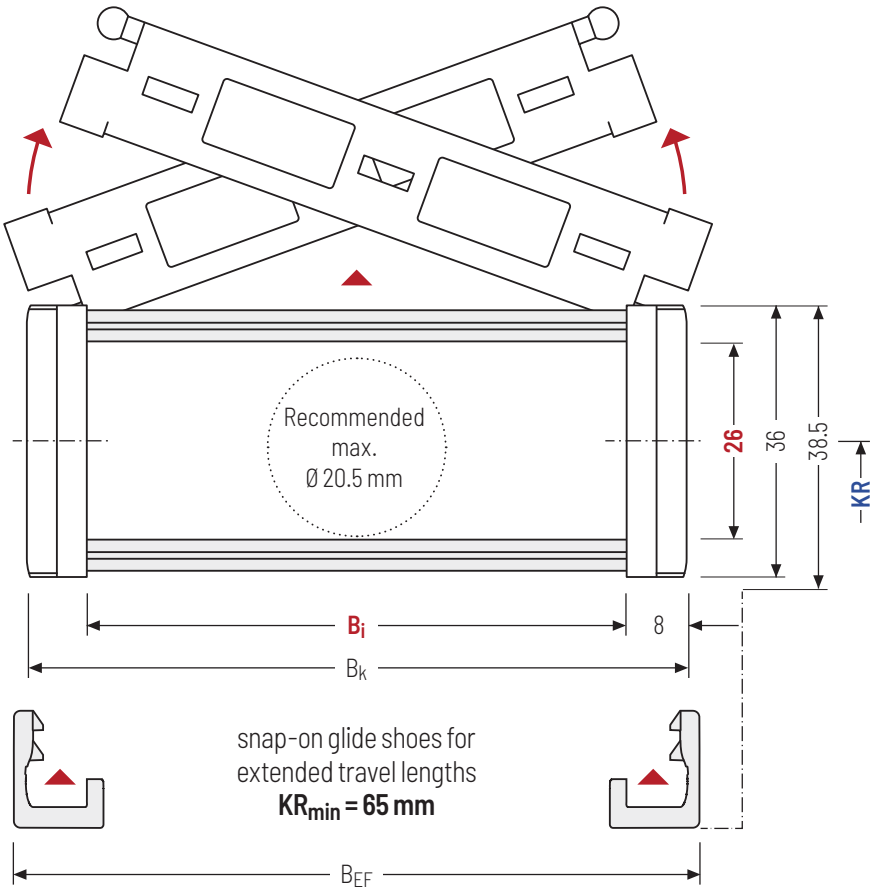
UA1455.030 | Dimensions · Technical data

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 78	38 103	58 130	B_i + 16	B_i + 19	52 150	65 180	95 200	125	0.73 – 1.10

Order example

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

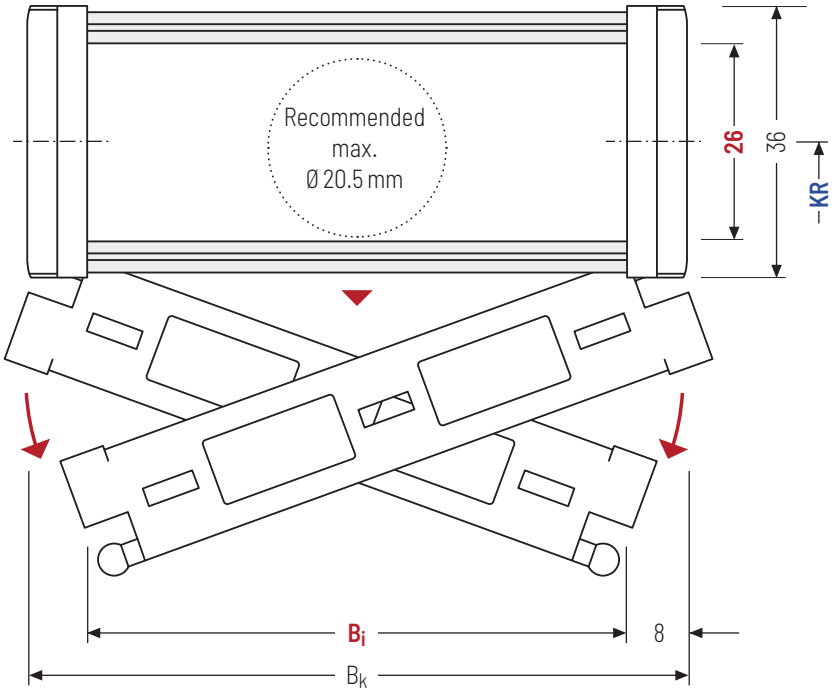
UA1455.040 | Dimensions · Technical data

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	.	040	.	78	.	150	-	1456	VS
Type		Stay variant		B_i [mm]		KR [mm]		L_k [mm]	Stay arrangement

Divider systems

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

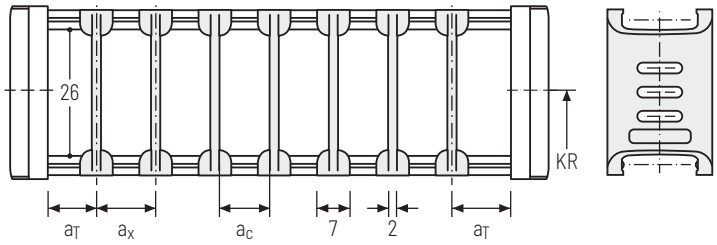
As a standard, dividers or the complete divider system (dividers with height separations) are movable in the cross section **(version A)**.

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_T min [mm]	a_x min [mm]	a_c min [mm]	a_x grid [mm]	n_T min
A	3.5	7	5	–	–
B*	4/5**	7.5	5.5	2.5	–

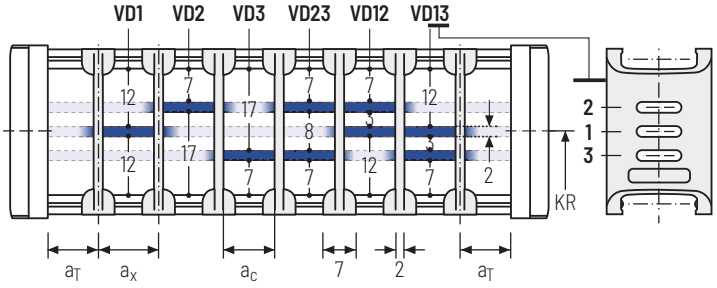
Number of dividers for design 020 depending on B_i
* not for design 020
** 4 mm for B_i 38 – 103; 5 mm for B_i 25, 130



Divider system TS1 with continuous height separation*

Vers.	a_T min [mm]	a_T max [mm]	a_x min [mm]	a_c min [mm]	a_x grid [mm]	n_T min
A	3.5	20	7	5	–	2
B	4/5**	20	7.5	5.5	2.5	2

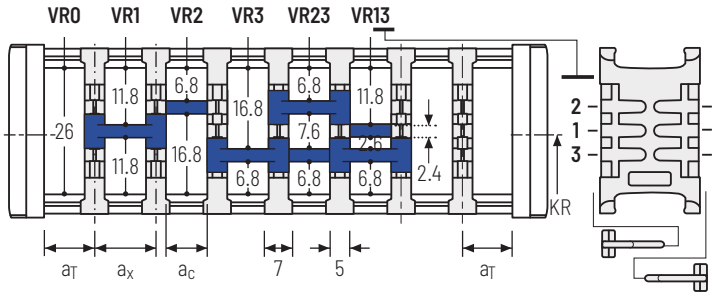
* not for design 020
** 4 mm for B_i 38 – 103; 5 mm for B_i 25, 130

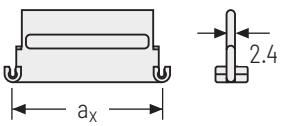


Divider system TS3 with height separation consisting of plastic section subdivisions

Vers.	a_T min [mm]	a_x min [mm]	a_c min [mm]	n_T min
A	3.5	15	10	2

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





a_x (centre distance of dividers) [mm]

a_c (usable width of inner chamber) [mm]

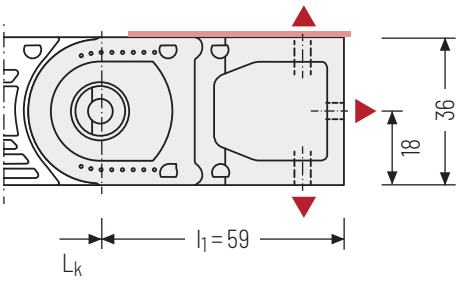
15	20	25	30	35	40	45	55	65	75
10	15	20	25	30	35	40	50	60	70

Order example

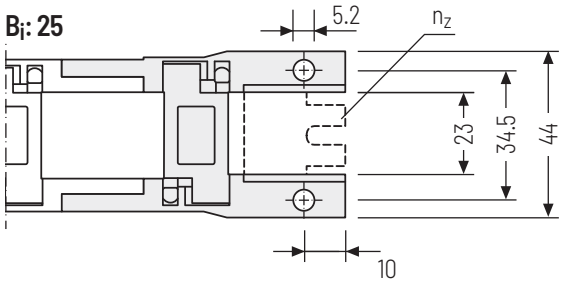
TS3	.	A	.	2	.	K1	.	34	-	VR1
						⋮		⋮		⋮
					.	K4	.	38	-	VR3
Divider system		Version		n_T		Chamber		a_x		Height separation

Universal end connectors UMB – plastic (standard)

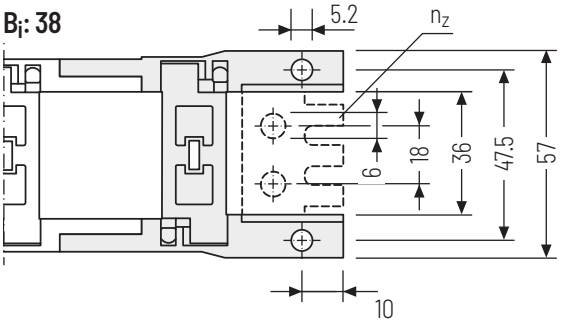
The universal mounting brackets (UMB) are made from plastic and can be mounted **from above, from below or on the face side**.



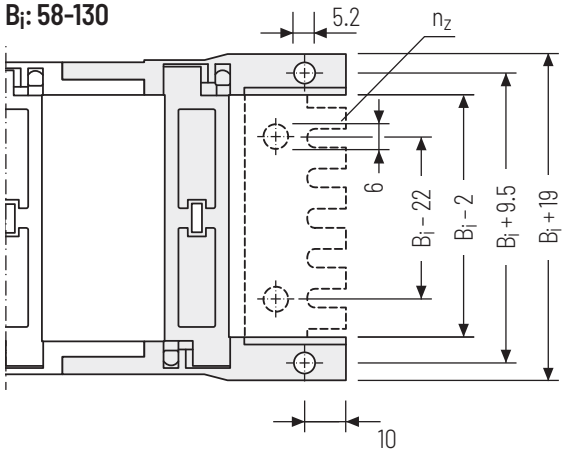
B_i: 25



B_i: 38



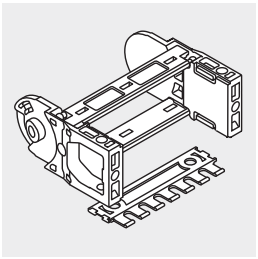
B_i: 58-130



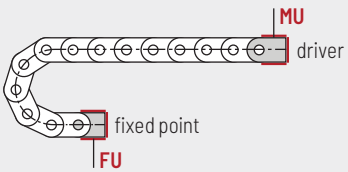
Recommended tightening torque:
5 Nm for screws M5 - 8.8

▲ 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

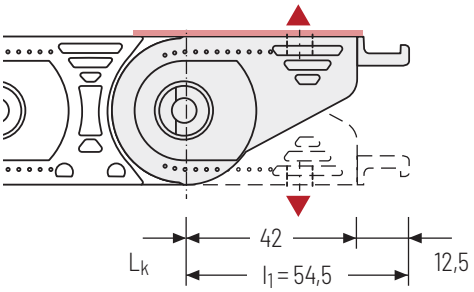
Connection type
U – Universal mounting bracket

Order example

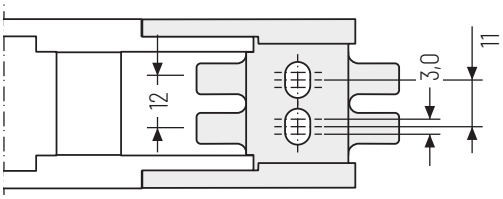
UMB	.	F	U
UMB	.	M	U
End connector		Connection point	Connection type

Single-part end connectors short – plastic

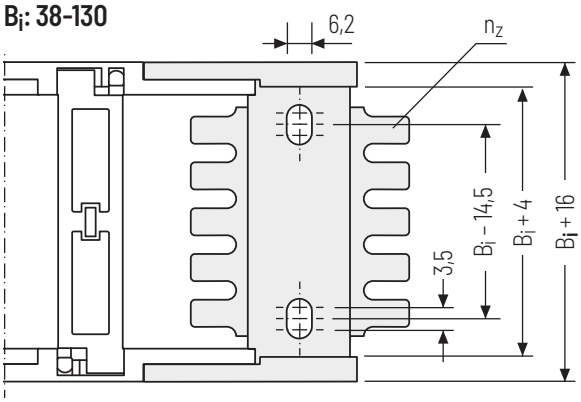
The plastic end connectors can be connected **from above or below**. The connection type can be changed by altering the position of the end connector.



B_i: 25



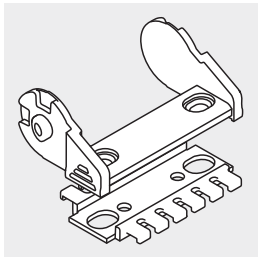
B_i: 38-130



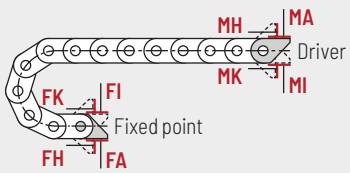
Recommended tightening torque:
6 Nm for screws M6 - 8.8

▲ Assembly options

B_i [mm]	n_z
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_i 25). Please state when ordering.



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

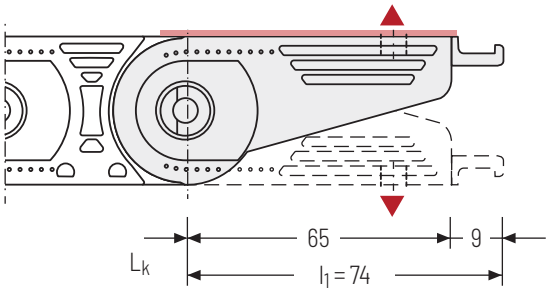
Connection type
- **A** – threaded joint outside (standard)
- **I** – threaded joint inside
- **H** – threaded joint, rotated 90° to the outside
- **K** – threaded joint, rotated 90° to the inside

Order example

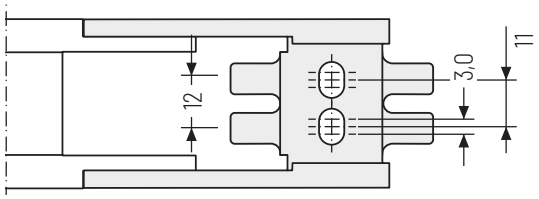
End connector	.	F	A
End connector	.	M	A
End connector		Connection point	Connection type

Single-part end connectors long – plastic

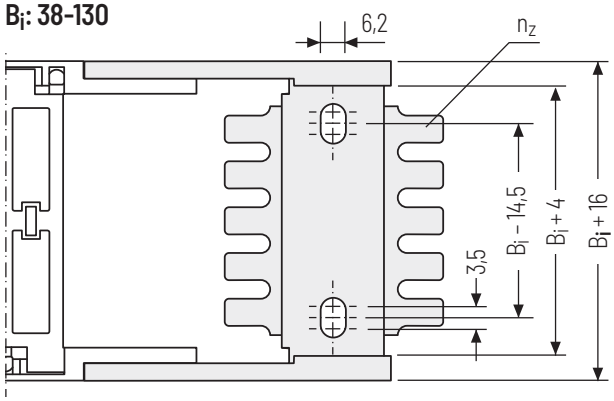
The plastic end connectors can be connected **from above or below and allow a 1: 1 replacement of the UNIFLEX 0455 in the connection area**. The connection type can be changed by altering the position of the end connector.



B_i: 25



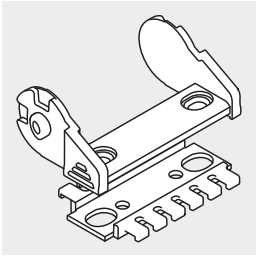
B_i: 38-130



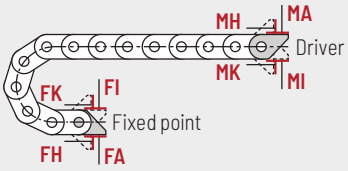
▲ Assembly options

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

B_i [mm]	n_z
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_i 25). Please state when ordering.



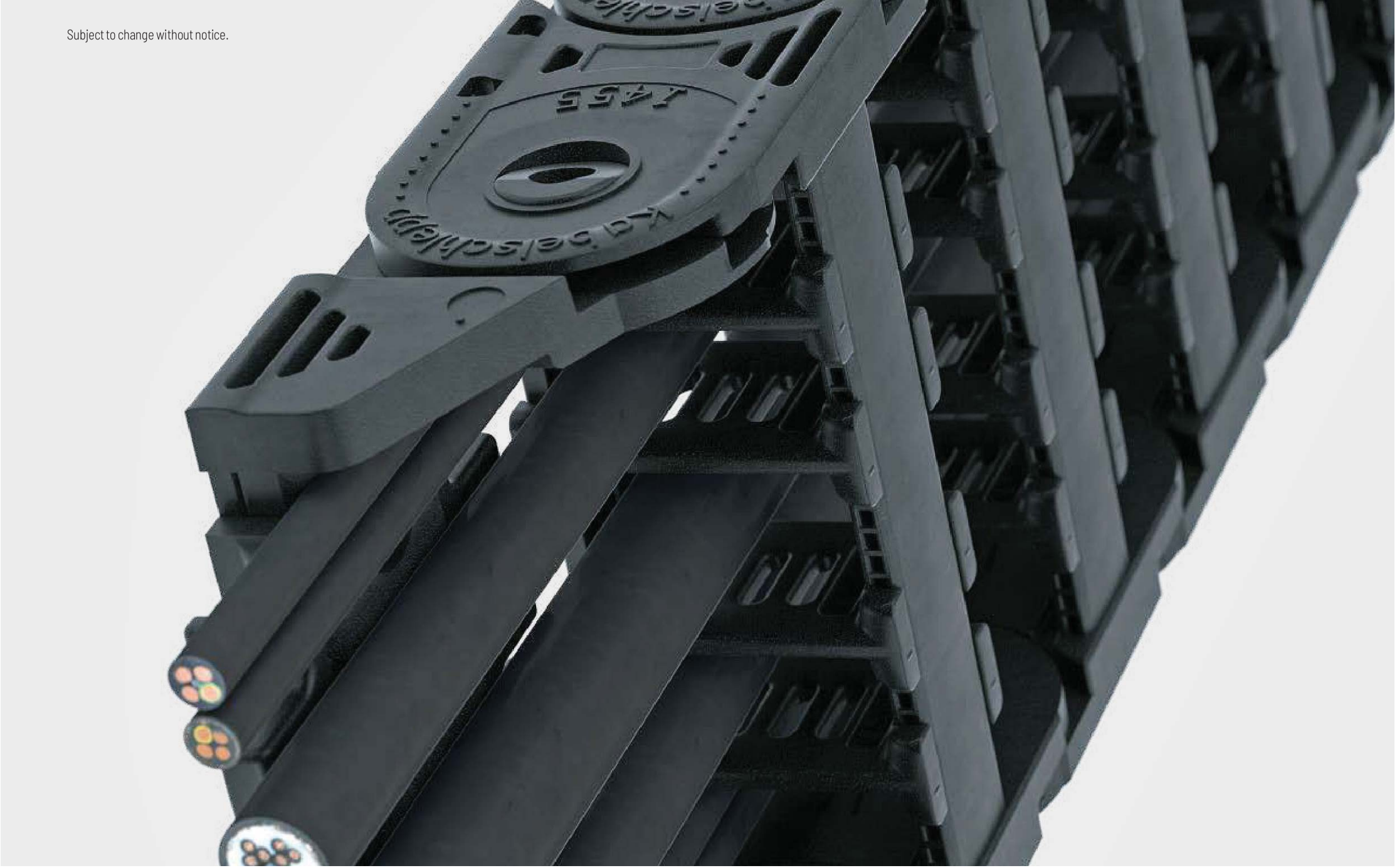
Connection point
- **F** – fixed point
- **M** – driver

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.



UA1555

Pitch
55.5 mm

Inner height
38 mm

Inner widths
50 – 150 mm

Bending radii
63 – 230 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**

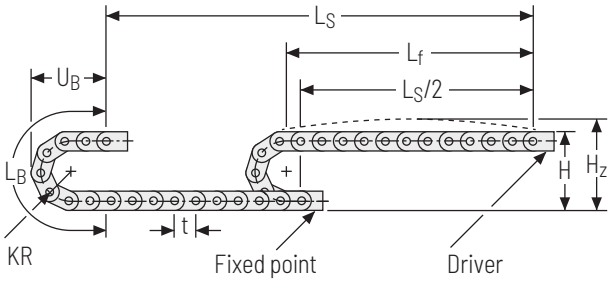
Frame with inside detachable stays
» Weight-optimised plastic frame with particularly high torsional rigidity.
» **Inside:** openable and detachable.

Additional product information online

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

Configure your cable carrier here:
online-engineer.de

Unsupported arrangement

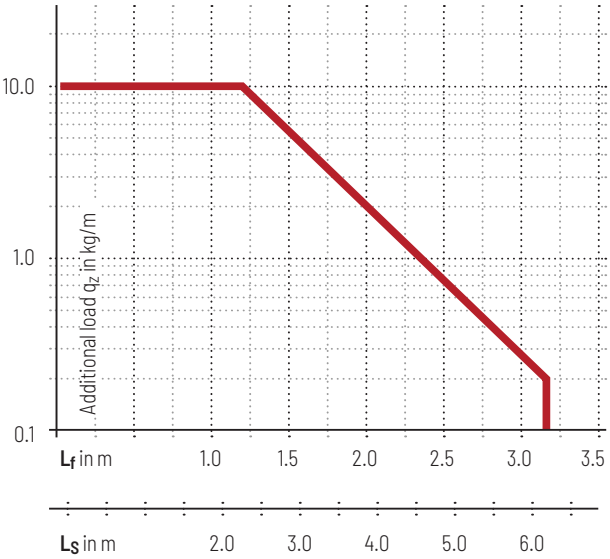


KR [mm]	H [mm]	Hz [mm]	LB [mm]	UB [mm]
63	176	216	309	145
80	210	240	362	165
100	250	280	425	185
125	300	330	504	210
160	370	400	614	245
200	450	480	740	285
230	510	540	834	315

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 kg/m with B_i 100 mm. For other inner widths, the maximum additional load changes.



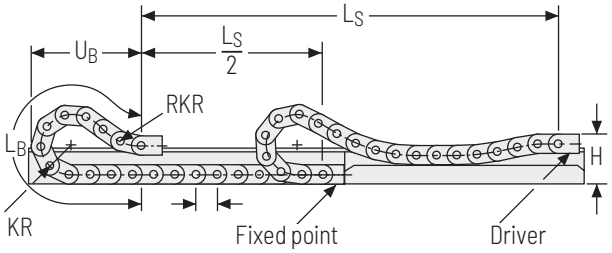
Speed
up to 9 m/s

Acceleration
up to 45 m/s²

Travel length
up to 6.3 m

Additional load
up to 10 kg/m

Gliding arrangement | GO module with chain links optimized for gliding



KR [mm]	H [mm]	GO-Modul RKR [mm]	LB [mm]	UB [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
230	150	250	1993	807

Speed
up to 3 m/s

Acceleration
up to 20 m/s²

Travel length
up to 125 m

Additional load
up to 10 kg/m

The gliding cable carrier must be guided in a channel. See p. 850.

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.

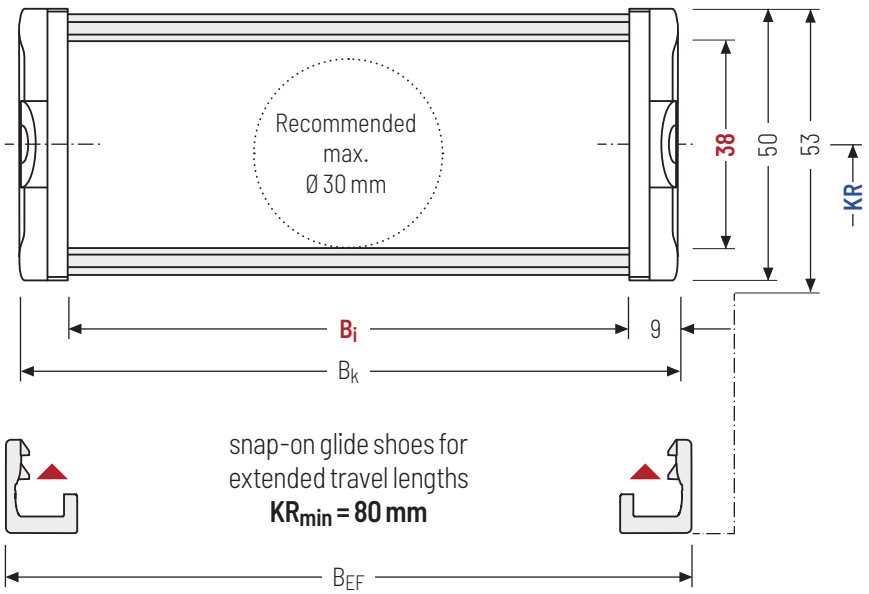
UA1555.020 | Dimensions · Technical data

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	50 125	75 150	100	B_i + 18	B_i + 22	63 160	80 200	100 230*	125	1.13 – 1.52

* only B_i 100

Order example

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

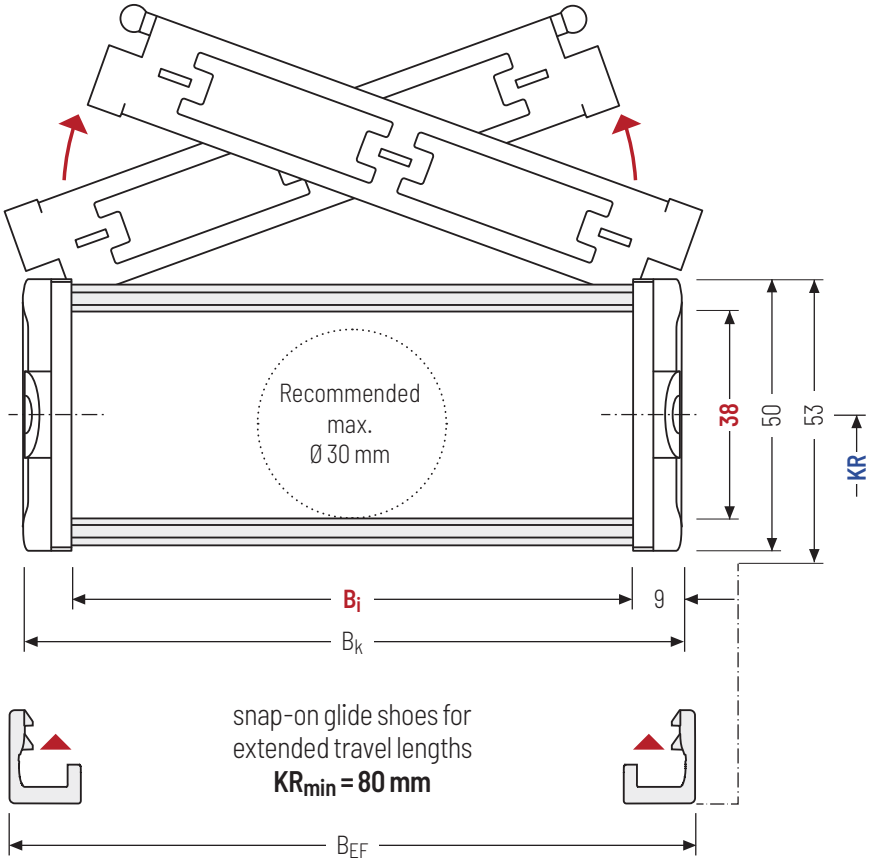
UA1555.030 | Dimensions · Technical data

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 – 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	50 125	75 150	100	B_i + 18	B_i + 22	63 160	80 200	100 230*	125	1.13 – 1.51

* only B_i 100

Order example

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

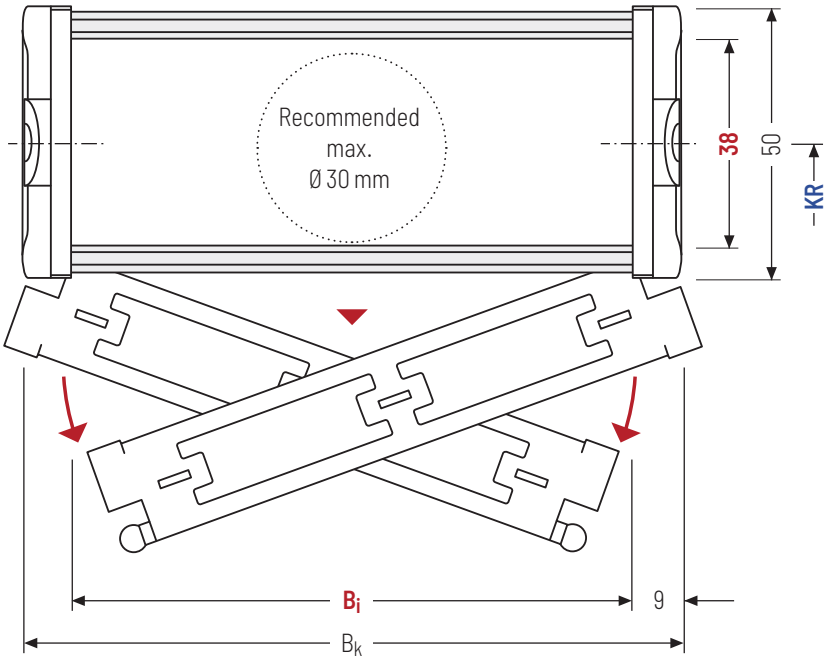
UA1555.040 | Dimensions · Technical data

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 – 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_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	50 125	75 150	100	B_i + 18	B_i + 22	63 160	80 200	100 230*	125	1.13 – 1.52

* only B_i 100

Order example

UA1555	.	040	.	125	.	160	-	1887		VS
Type		Stay variant		B_i [mm]		KR [mm]		L_k [mm]		Stay arrangement

Divider systems

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

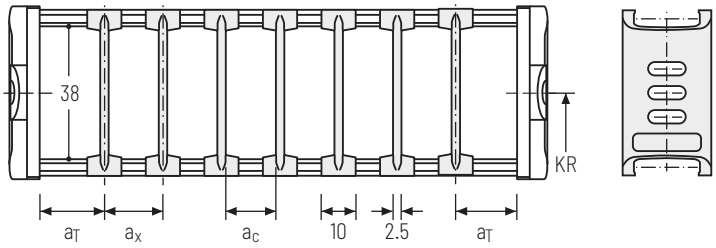
As a standard, dividers or the complete divider system (dividers with height separations) are movable in the cross section **(version A)**.

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_T min [mm]	a_x min [mm]	a_c min [mm]	a_x grid [mm]	n_T min
A	5	10	7.5	–	–
B*	5	10	7.5	2.5	–

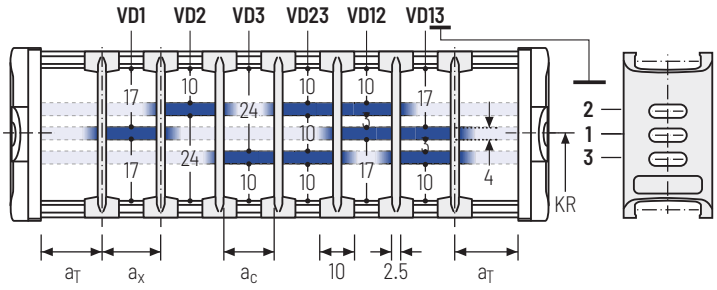
Number of dividers for design 020 depending on B_i
* not for design 020



Divider system TS1 with continuous height separation*

Vers.	a_T min [mm]	a_T max [mm]	a_x min [mm]	a_c min [mm]	a_x grid [mm]	n_T min
A	5	20	10	7.5	–	2
B	5	20.5	10	7.5	2.5	2

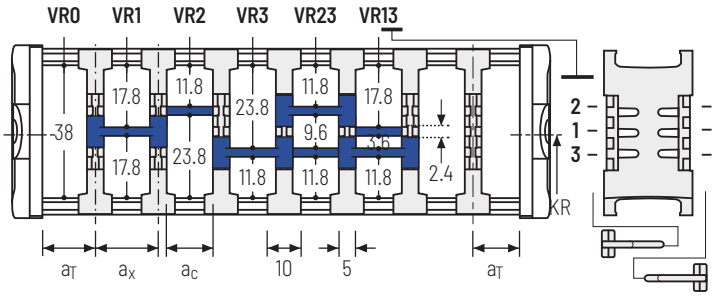
* not for design 020

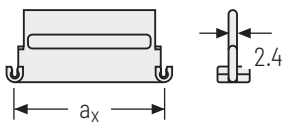


Divider system TS3 with height separation consisting of plastic section subdivisions

Vers.	a_T min [mm]	a_x min [mm]	a_c min [mm]	n_T min
A	5	15	10	2

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





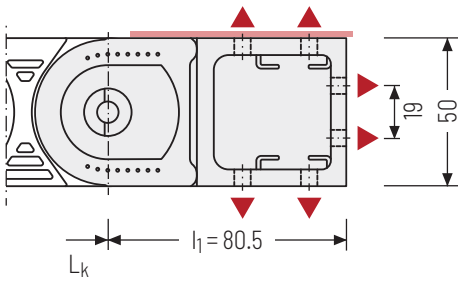
a_x (centre distance of dividers) [mm]									
a_C (usable width of inner chamber) [mm]									
15	**20**	**25**	**30**	**35**	**40**	**45**	**55**	**65**	**75**
10	15	20	25	30	35	40	50	60	70

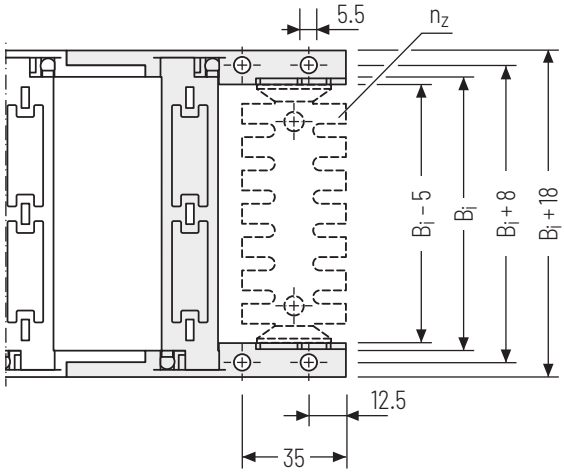
Order example

TS3	.	A	.	2	.	K1	.	34	-	VR1
						⋮		⋮		⋮
					.	K4	.	38	-	VR3
Divider system		Version		n_T		Chamber		a_x		Height separation

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**.

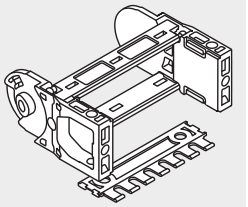




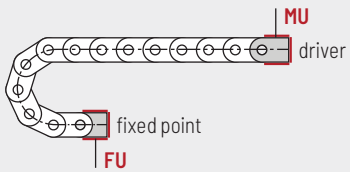
▲ Assembly options

Recommended tightening torque:
5 Nm for screws M5 - 8.8

B_i [mm]	n_z
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.



Connection point
F – fixed point
M – driver

Connection type
U – Universal mounting bracket

Order example

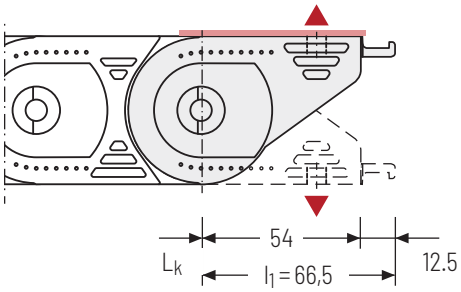
UMB	.	F	U
UMB	.	M	U
End connector		Connection point	Connection type

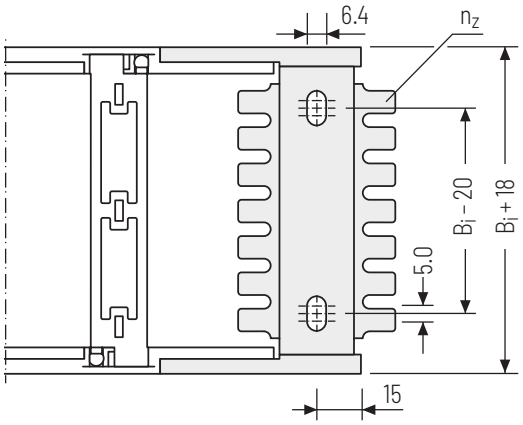
We recommend the use of strain reliefs at the driver and fixed point. See from p. 908.

UA1555 | End connectors

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.

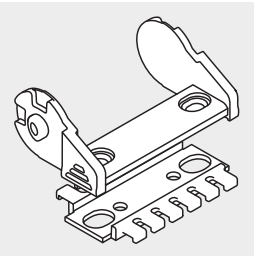




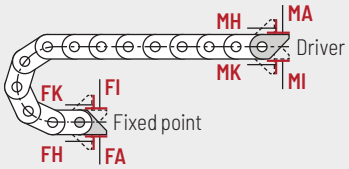
▲ Assembly options

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

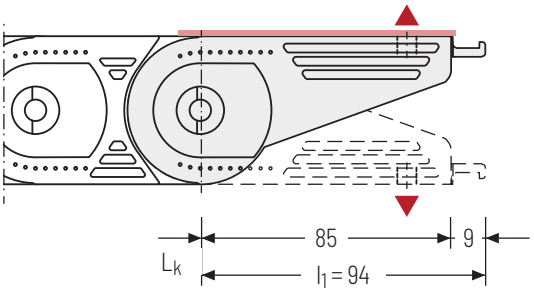
Connection type
A – threaded joint outside (standard)
I – threaded joint inside
H – threaded joint, rotated 90° to the outside
K – threaded joint, rotated 90° to the inside

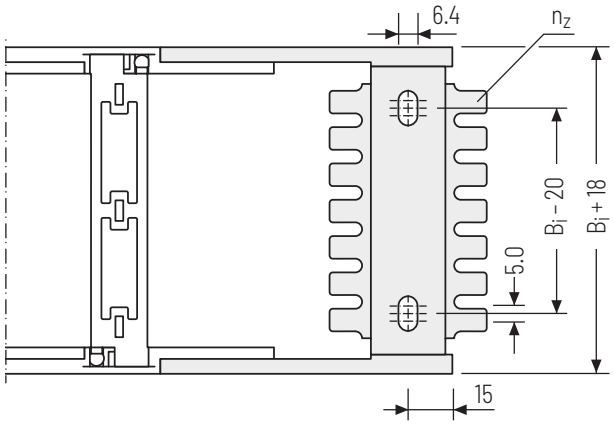
Order example

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

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.

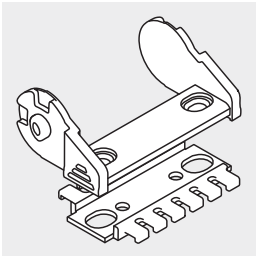




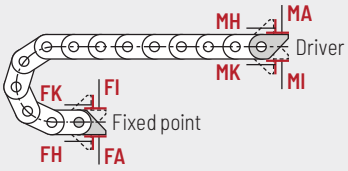
▲ Assembly options

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

B_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 U0455	.	F	A
End connector U0455	.	M	A
End connector		Connection point	Connection type

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**

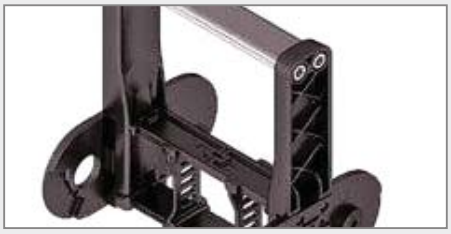
Closed frame
» Weight-optimised, closed plastic frame with particularly high torsional rigidity.
» **Outside/inside:** not openable.

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.

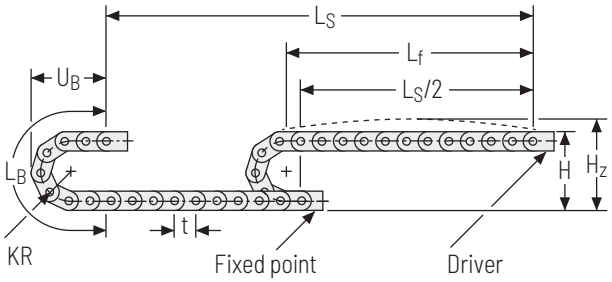


Design RMA ..... page **188**

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

UA1665 | Installation dim. | Unsupported · Gliding

Unsupported arrangement

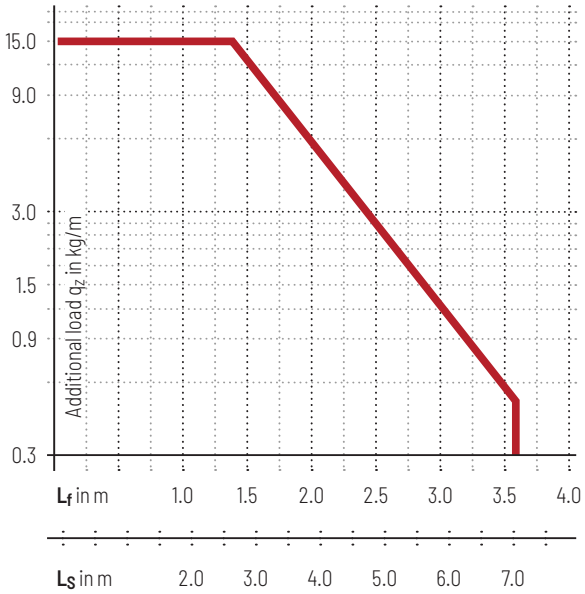


KR [mm]	H [mm]	Hz [mm]	LB [mm]	UB [mm]
75	210	245	369	172
100	260	295	448	197
120	300	335	511	217
140	340	375	574	237
200	460	495	762	297
250	560	595	919	347
300	660	695	1076	397

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 kg/m with B_i 200 mm. For other inner widths, the maximum additional load changes.



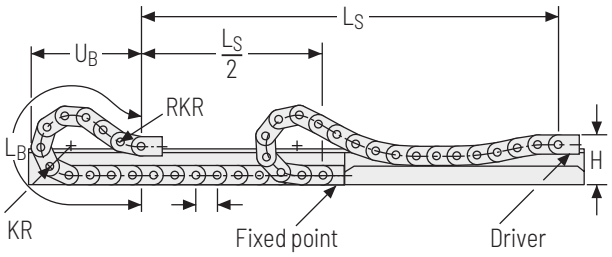
Speed
up to 8 m/s

Acceleration
up to 40 m/s²

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-Modul RKR [mm]	LB [mm]	UB [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/s²

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. 850.

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.

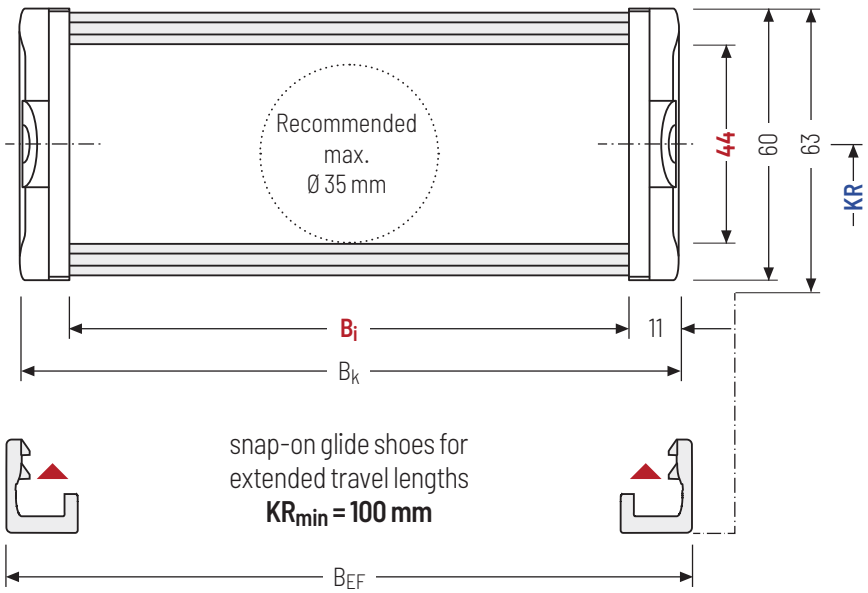
UA1665.020 | Dimensions · Technical data

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 75 100 125 150 175 200 225 250	B_i + 22	B_i + 27	75 100 120 140 200 250 300	1.67 – 2.76

Order example

UA1665	020	125	140	2660	VS
Type	Stay variant	B_i [mm]	KR [mm]	L_k [mm]	Stay arrangement

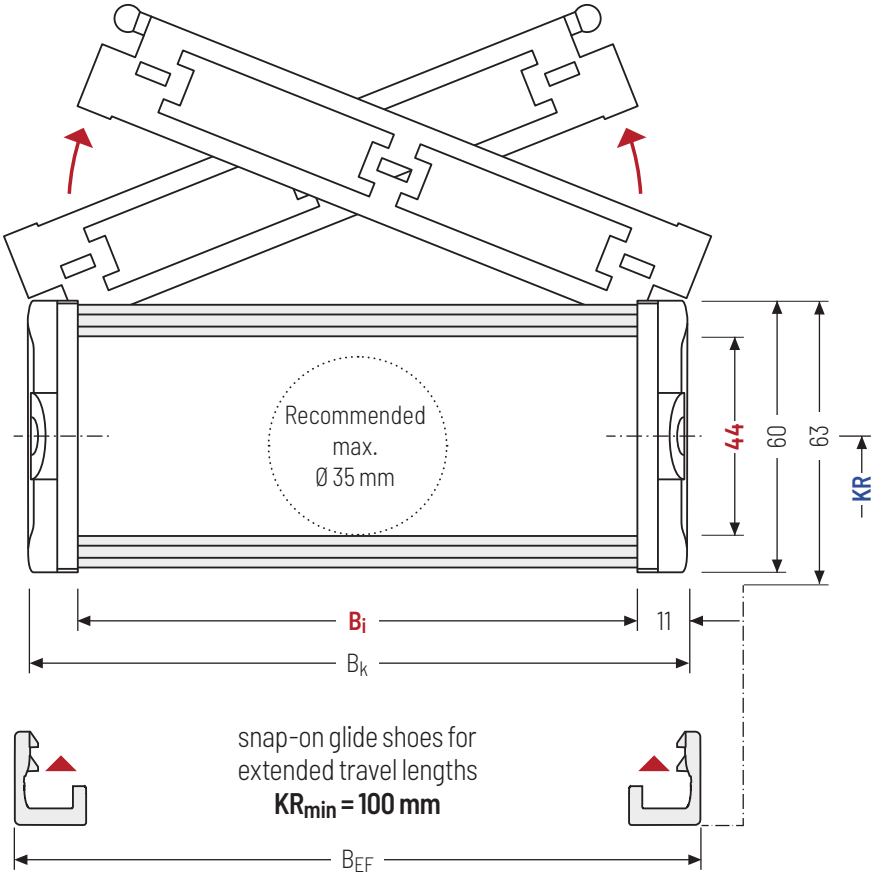
UA1665.030 | Dimensions · Technical data

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_{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 – 2.70
			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

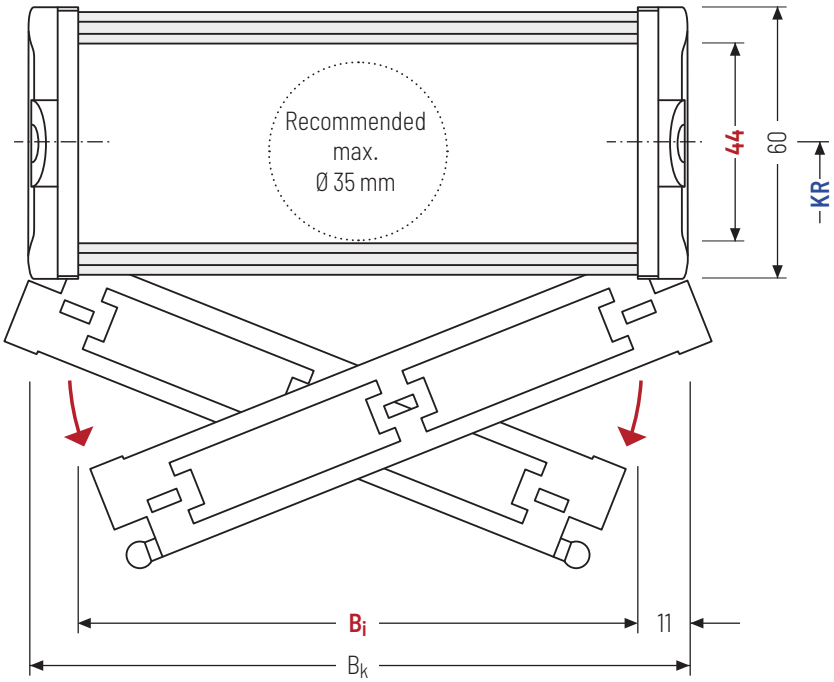
UA1665.040 | Dimensions · Technical data

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		

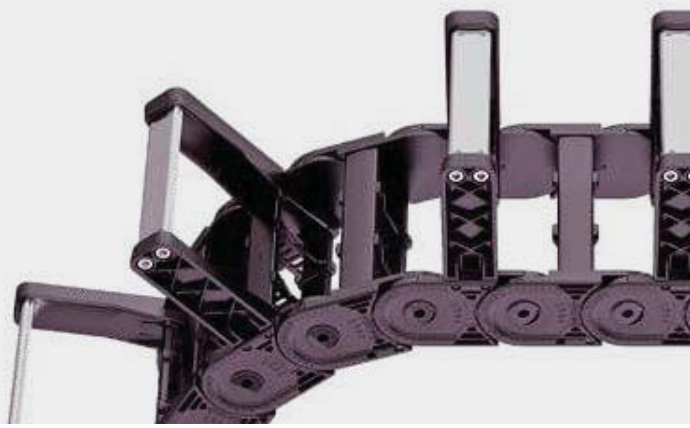
Order example

UA1665	.	040	.	125	.	140	-	2660	VS
Type		Stay variant		B_i [mm]		KR [mm]		L_k [mm]	Stay arrangement

UA1665.RMA | Dimensions · Technical data

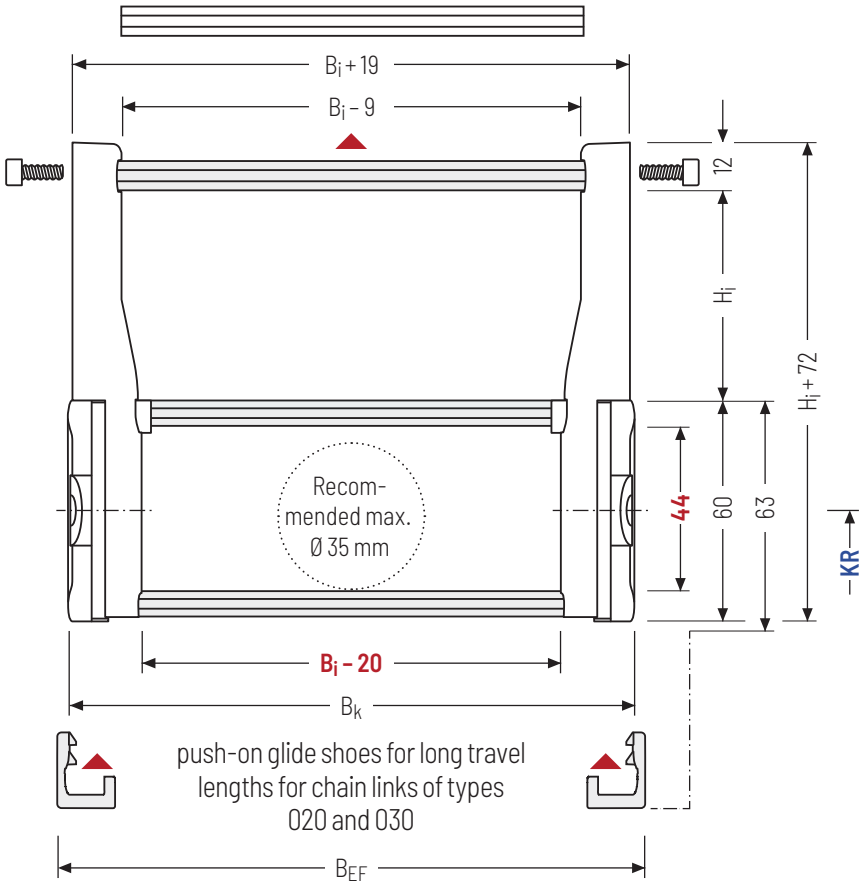
Stay variant RMA – mounting frame stay

- 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/inside:** 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

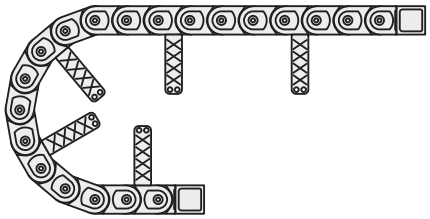
h_i [mm]	h_G [mm]	H_i [mm]		B_i [mm]		B_k [mm]	B_{EF} [mm]	KR [mm]				q_k (RVAI)* [kg/m]	q_k (RVAO)* [kg/m]
44	60	114	139	125	150	B_i + 22	B_i + 27	75	100	120	140	3.10 – 3.95	3.58 – 4.66
		164	189	175	200			200	250	300			

* indicated according to standard pitch

Order example

UA1665	.	RMA	.	150	.	140	-	2660	RVAO
Type		Stay variant		B_i [mm]		KR [mm]		L_k [mm]	Stay arrangement

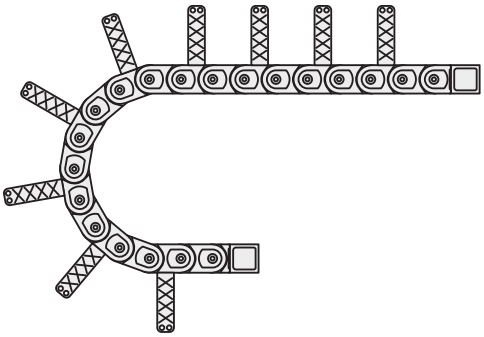
Assembly variants



RVAI – assembly to the inside:
standard pitch, mounting frame stay on every 4th stay, no screw fixing.

Gliding application is not possible when using assembly version RVAI.

Observe minimum KR:
H_i = 114 mm: KR_{min} = 200 mm
H_i = 139 mm: KR_{min} = 250 mm
H_i = 164 mm: KR_{min} = 300 mm
H_i = 189 mm: KR_{min} = 300 mm



RVAO – assembly to the outside:
standard pitch, mounting frame stay on every 2nd stay, screw fixing.

The cable carrier has to rest on the side bands and not on the stays.

Guiding in a **channel is required** for support. Please contact our technical support at 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_i and H_i:

B_i [mm]	H_i [mm]	KR_{min} [mm]	Brackets [mm]
125	114	200	100
150	139	250	125
175	164	300	150
200	189	300	175

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**

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**.

Subject to change without notice.

Divider systems

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

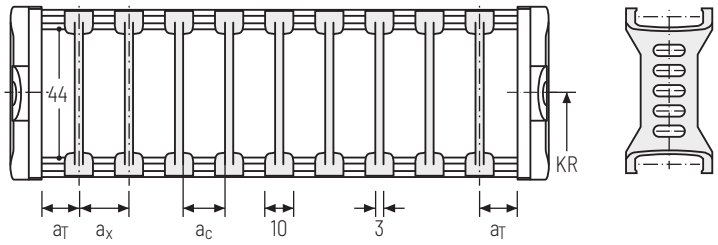
As a standard, dividers or the complete divider system (dividers with height separations) are movable in the cross section **(version A)**.

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_T min [mm]	a_x min [mm]	a_c min [mm]	a_x grid [mm]	n_T min
A	5	10	7	–	–
B*	5	10	7	2.5	–

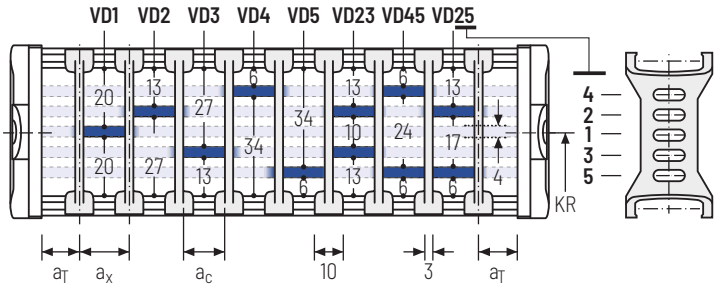
Number of dividers for design 020 depending on B_i
* not for design 020



Divider system TS1 with continuous height separation*

Vers.	a_T min [mm]	a_T max [mm]	a_x min [mm]	a_c min [mm]	a_x grid [mm]	n_T min
A	5	20	10	7	–	2
B	5	20	10	7	2.5	2

* not for design 020

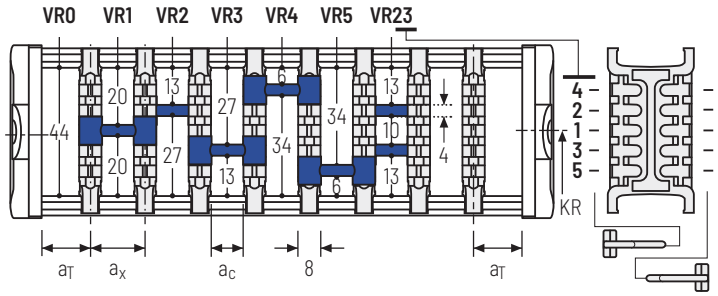


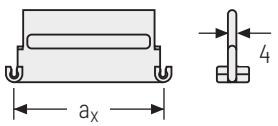
Divider system TS3 with height separation consisting of plastic section subdivisions

Vers.	a_T min [mm]	a_x min [mm]	a_c min [mm]	n_T min
A	4	16/40*	8	2

* 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_x > 42 mm** are also available.

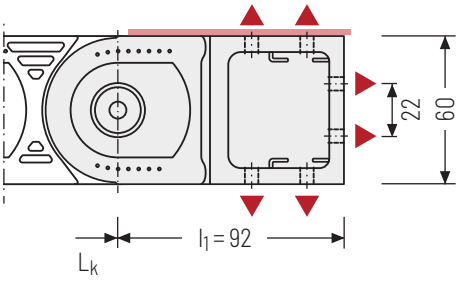
a_x (centre distance of dividers) [mm]
a_c (usable width of inner chamber) [mm]

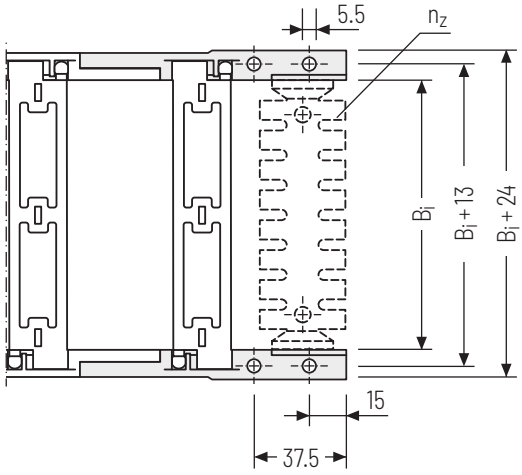
16	**18**	**23**	**28**	**32**	**33**	**38**	**43**	**48**	**58**	**64**	**68**
8	10	15	20	24	25	30	35	40	50	56	60
78	**80**	**88**	**96**	**112**	**128**	**144**	**160**	**176**	**192**	**208**	
70	72	80	88	104	120	136	152	168	184	200	

When using partitions with **a_x > 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.

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**.

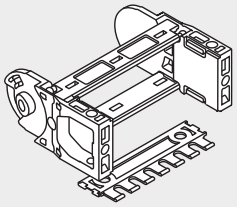




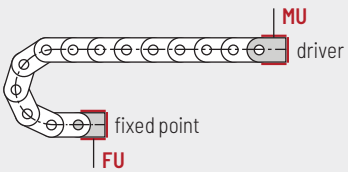
▲ Assembly options

Recommended tightening torque:
5 Nm for screws M5 - 8.8

B_i [mm]	n_z
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

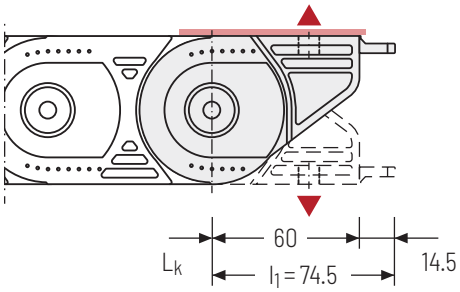
UMB	.	F	U
UMB	.	M	U
End connector		Connection point	Connection type

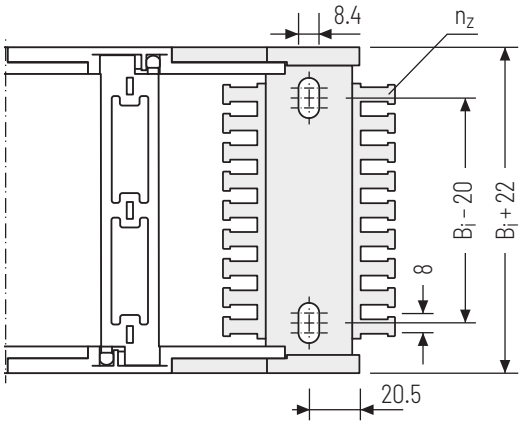
We recommend the use of strain reliefs at the driver and fixed point. See from p. 908.

UA1665 | End connectors

Single-part end connectors – plastic

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

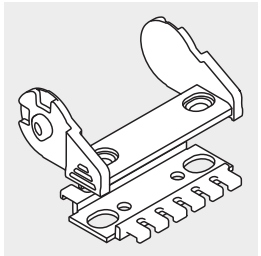




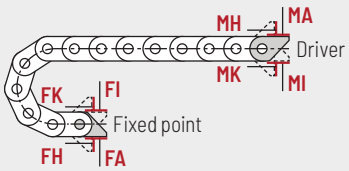
▲ Assembly options

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

UA1775

Pitch
77.5 mm

Inner height
56 mm

Inner widths
100 – 400 mm

Bending radii
90 – 340 mm

Stay variants

Design 020 ..... page **196**

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

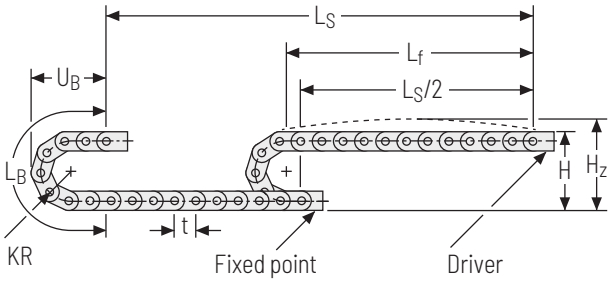
Design 030 ..... page **197**

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

Design 040 ..... page **198**

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

Unsupported arrangement

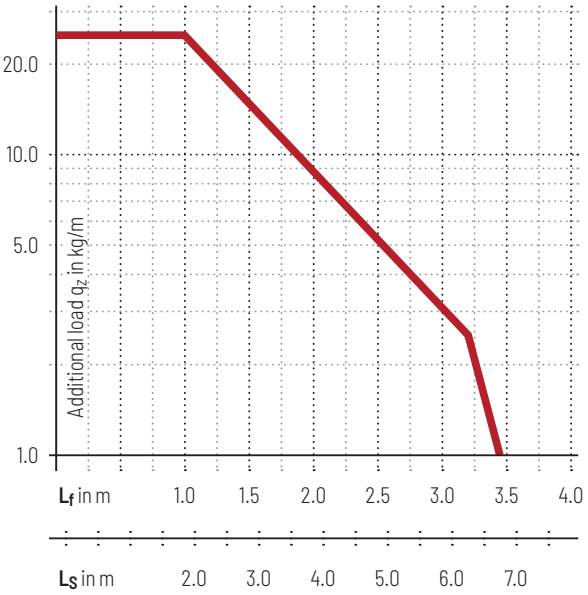


KR [mm]	H [mm]	Hz [mm]	LB [mm]	UB [mm]
90	257	297	438	206
115	307	347	516	231
140	357	397	595	256
165	407	447	673	281
190	457	497	752	306
240	557	597	909	356
285	647	687	1050	401
340	757	797	1223	456

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 kg/m with B_i 150 mm. For other inner widths, the maximum additional load changes.



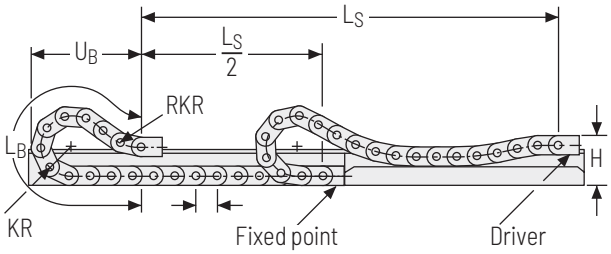
Speed
up to 10 m/s

Acceleration
up to 35 m/s²

Travel length
up to 7.8 m

Additional load
up to 25 kg/m

Gliding arrangement | GO module with chain links optimized for gliding



KR [mm]	H [mm]	GO-Modul RKR [mm]	LB [mm]	UB [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/s²

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. 850.

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.

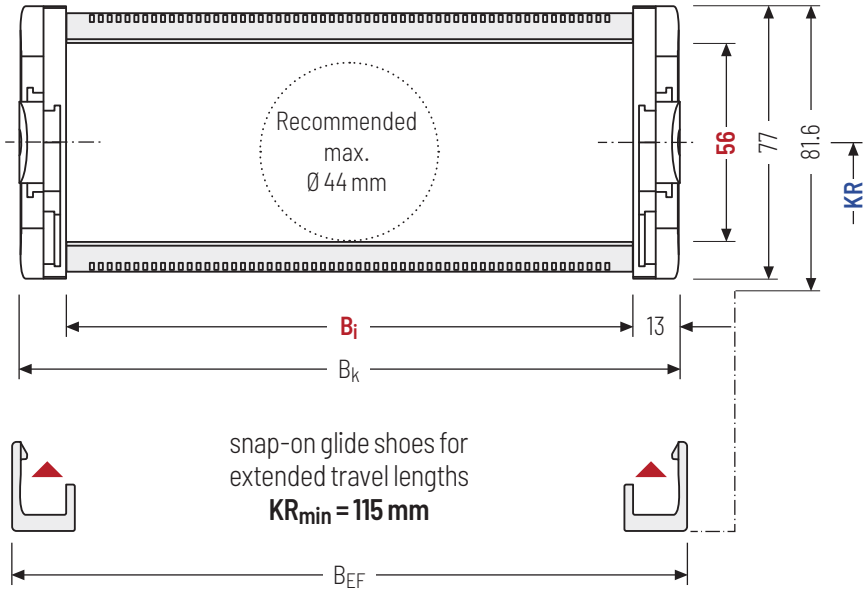
UA1775.020 | Dimensions · Technical data

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]
56	77	81.6	100	125	150	175	B_i + 26	B_i + 30	90	115	140	2.844 – 4.239
			200	225	250	275			165	190	240	
			300	325	350	400			285	340		

Order example

UA1775	.	020	.	150	.	140	-	3100		VS
Type		Stay variant		B_i [mm]		KR [mm]		L_k [mm]		Stay arrangement

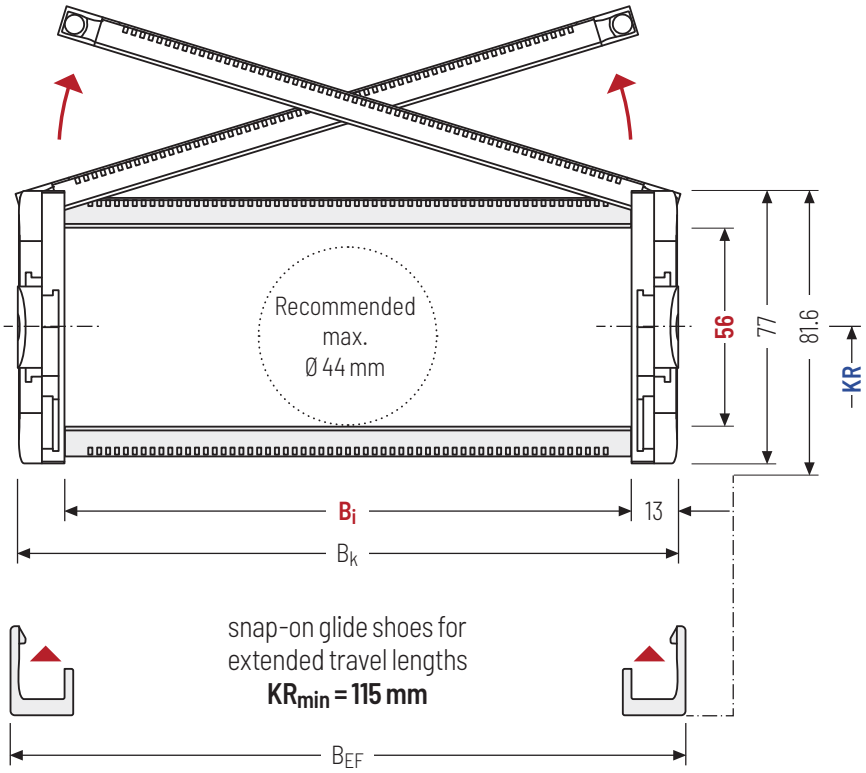
UA1775.030 | Dimensions · Technical data

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 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]
56	77	81.6	100	125	150	175	B_i + 26	B_i + 30	90	115	140	2.831 – 4.224
			200	225	250	275			165	190	240	
			300	325	350	400			285	340		

Order example

UA1775	.	030	.	150	.	140	-	3100		VS
Type		Stay variant		B_i [mm]		KR [mm]		L_k [mm]		Stay arrangement

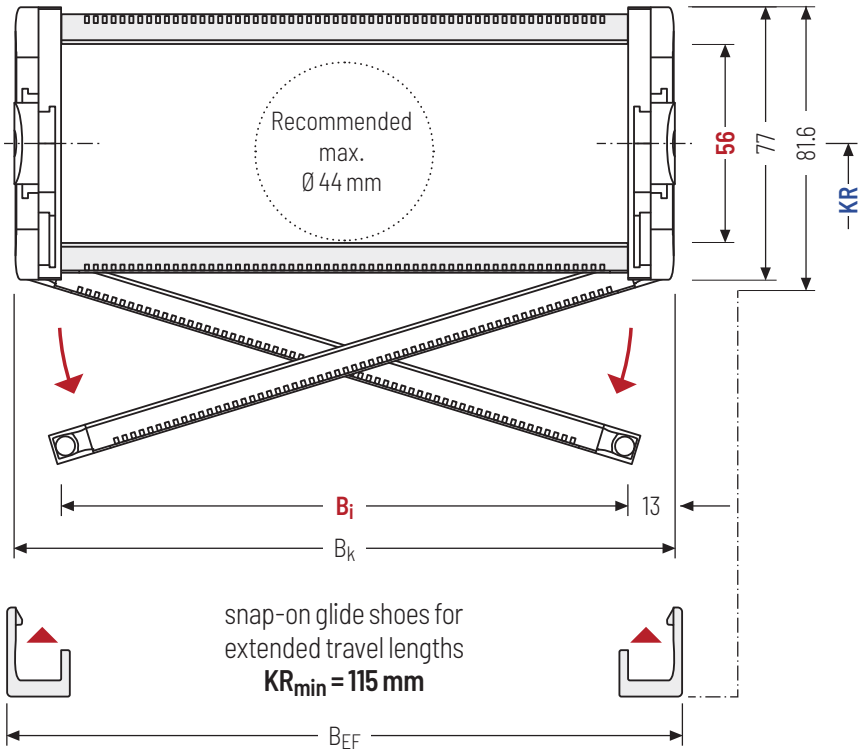
UA1775.040 | Dimensions · Technical data

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]
56	77	81.6	100	125	150	175	B_i + 26	B_i + 30	90	115	140	2.831 – 4.224
			200	225	250	275			165	190	240	
			300	325	350	400			285	340		

Order example

UA1775	.	040	.	150	.	140	-	3100		VS
Type		Stay variant		B_i [mm]		KR [mm]		L_k [mm]		Stay arrangement

Divider systems

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

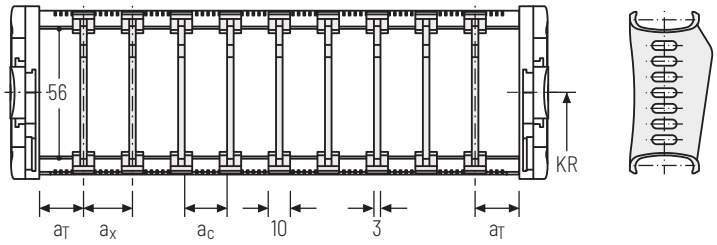
As a standard, dividers or the complete divider system (dividers with height separations) are movable in the cross section **(version A)**.

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_T min [mm]	a_x min [mm]	a_c min [mm]	a_x grid [mm]	n_T min
A	5	10	7	–	–
B	5	10	7	2.5	–

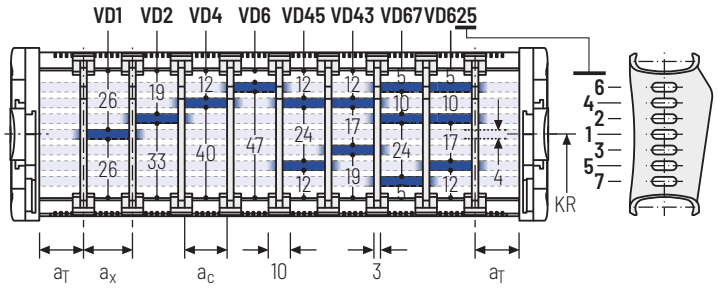
Number of dividers for design 020 depending on B_i



Divider system TS1 with continuous height separation*

Vers.	a_T min [mm]	a_x min [mm]	a_c min [mm]	a_x grid [mm]	n_T min
A	5	10	7	–	2
B	5	10	7	2.5	2

* not for design 020



Order example

TS1 . A . 3 - VD0 ⋮ - VD1

Divider system | Version | n_T | Height separation

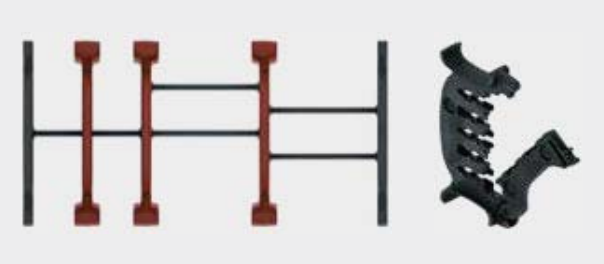
Please state the designation of the divider system **(TS0, TS1,...)**, the version, and the number of dividers per cross section [n_T].

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

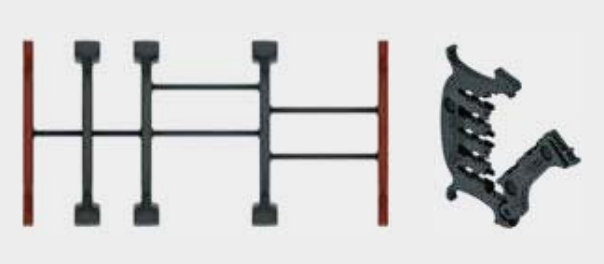
Divider system TS3 with height separation consisting of plastic partitions

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



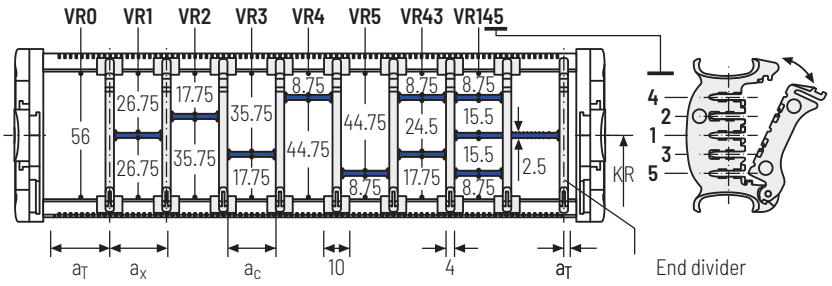
End divider

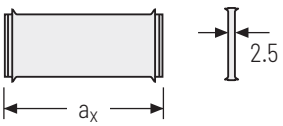


Vers.	a_T min [mm]	a_x min [mm]	a_c min [mm]	n_T min
A	5 / 2*	14	10	2

* For End divider

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





a_x (center distance of dividers) [mm]															
a_C (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	

When using **partitions with a_x > 49 mm** we recommended an additional preferential central support.

Order example

TS3	.	A	.	3	.	K1	.	34	-	VR1
						⋮		⋮		⋮
					.	K4	.	38	-	VR3
Divider system		Version		n_T		Chamber		a_x		Height separation

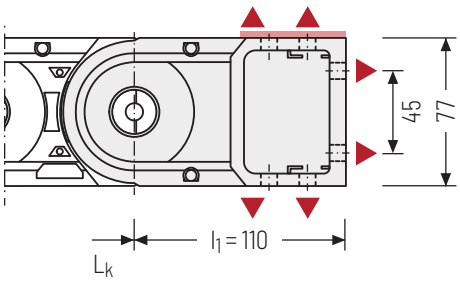
Please state the designation of the divider system **(TS0, TS1,...)**, version and number of dividers per cross section [n_T]. In addition, please also enter the chambers [K] from left to right, as well as the assembly distances [a_T/a_X] (as seen from the driver).

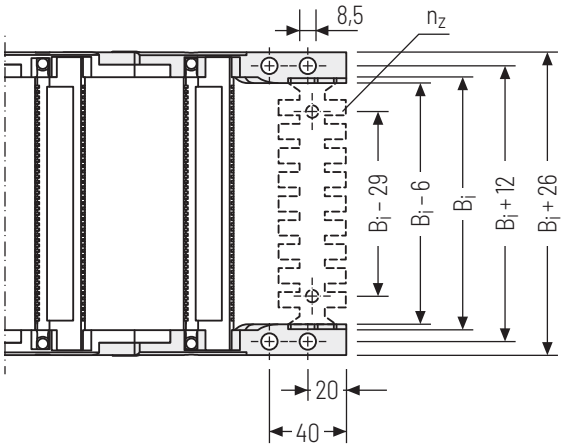
If using divider systems with height separation **(TS1, TS3)** please also state the positions [e.g. VD23] viewed from the left driver belt. You are welcome to add a sketch to your order.

UA1775 | End connectors

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**.

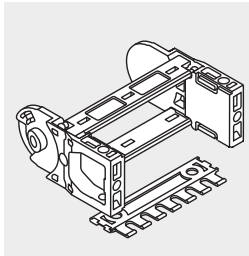




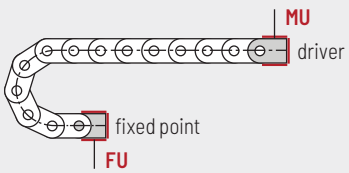
▲ Assembly options

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. 908.

UA1995

Pitch
99.5 mm

Inner height
80 mm

Inner widths
85 – 250 mm

Bending radii
150 – 500 mm

Stay variants

Design 020 ..... page **204**

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

Design 030 ..... page **205**

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

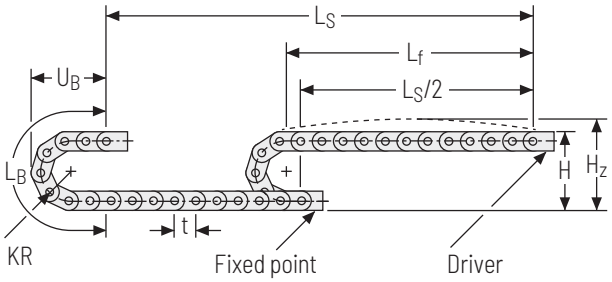
Design 040 ..... page **206**

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

Design 070 ..... page **207**

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

Unsupported arrangement

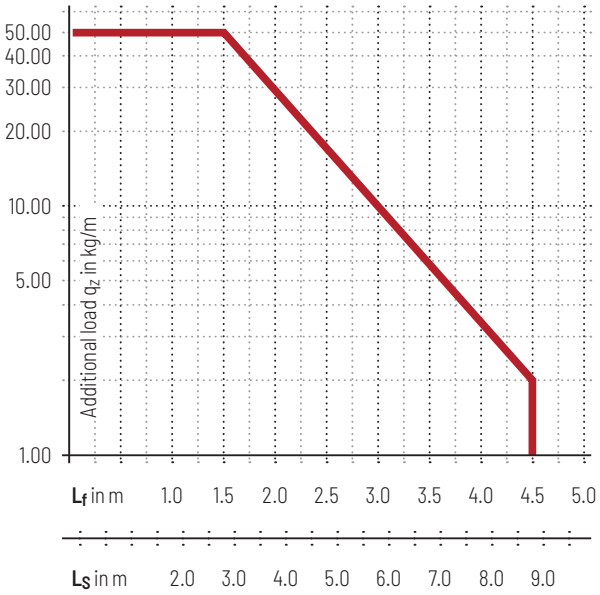


KR [mm]	H [mm]	Hz [mm]	LB [mm]	UB [mm]
150	410	440	680	250
210	530	560	860	310
250	610	640	990	350
300	710	740	1150	400
350	810	840	1300	450
400	910	940	1460	500
500	1110	1140	1770	600

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 kg/m with B_i 196 mm. For other inner widths, the maximum additional load changes.



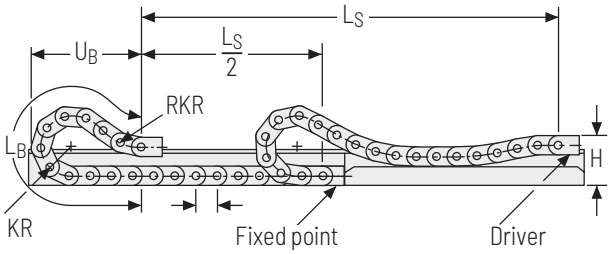
Speed
up to 10 m/s

Acceleration
up to 25 m/s²

Travel length
up to 4.5 m

Additional load
up to 50 kg/m

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



KR [mm]	H [mm]	GO-Modul RKR [mm]	LB [mm]	UB [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/s²

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. 850.

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 design 070

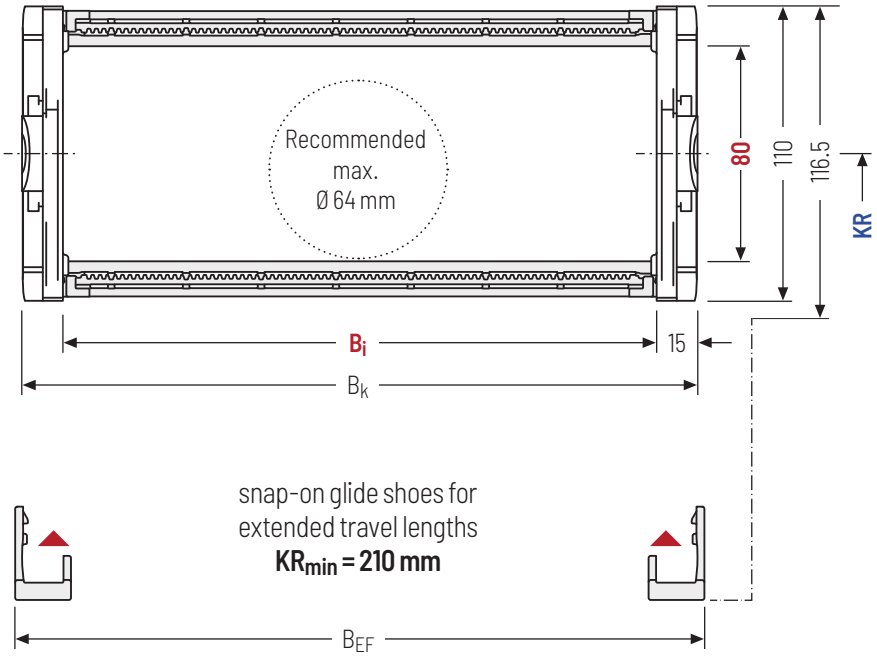
UA1995.020 | Dimensions · Technical data

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	85 125 138 150 180 196 225 250	$B_i + 30$	$B_i + 36$	150 210 250 300 350 400 500	3.860 – 3.861

Order example

UA1995	.	020	.	150	.	210	-	3582		VS
Type		Stay variant		B_i [mm]		KR [mm]		L_k [mm]		Stay arrangement

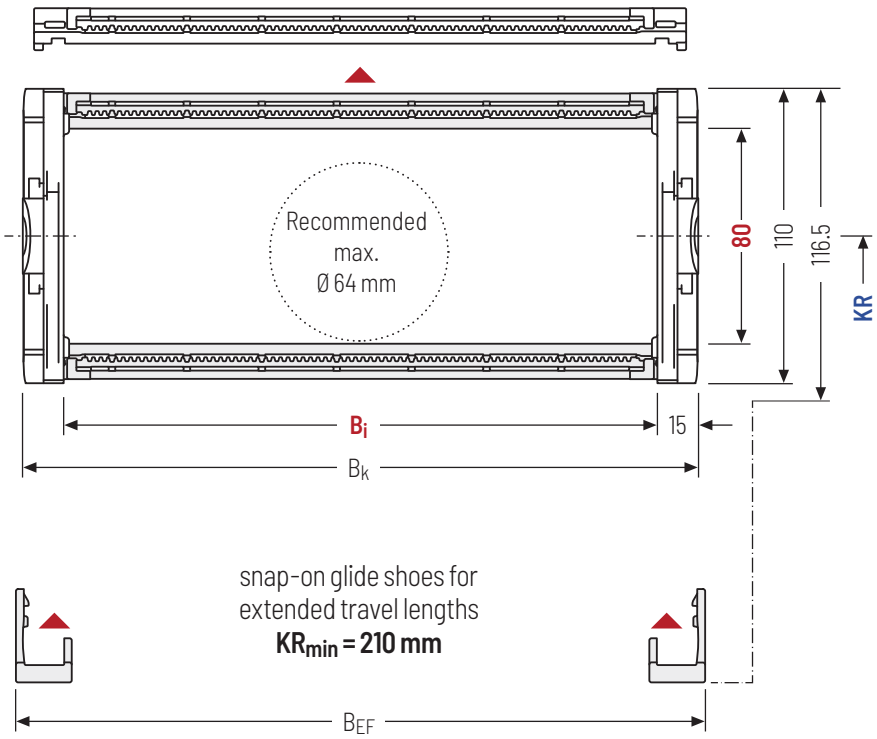
UA1995.030 | Dimensions · Technical data

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_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	3.833 – 3.834
			180	196	225	250			350	400	500		

Order example

UA1995	.	030	.	150	.	210	-	3582		VS
Type		Stay variant		B_i [mm]		KR [mm]		L_k [mm]		Stay arrangement

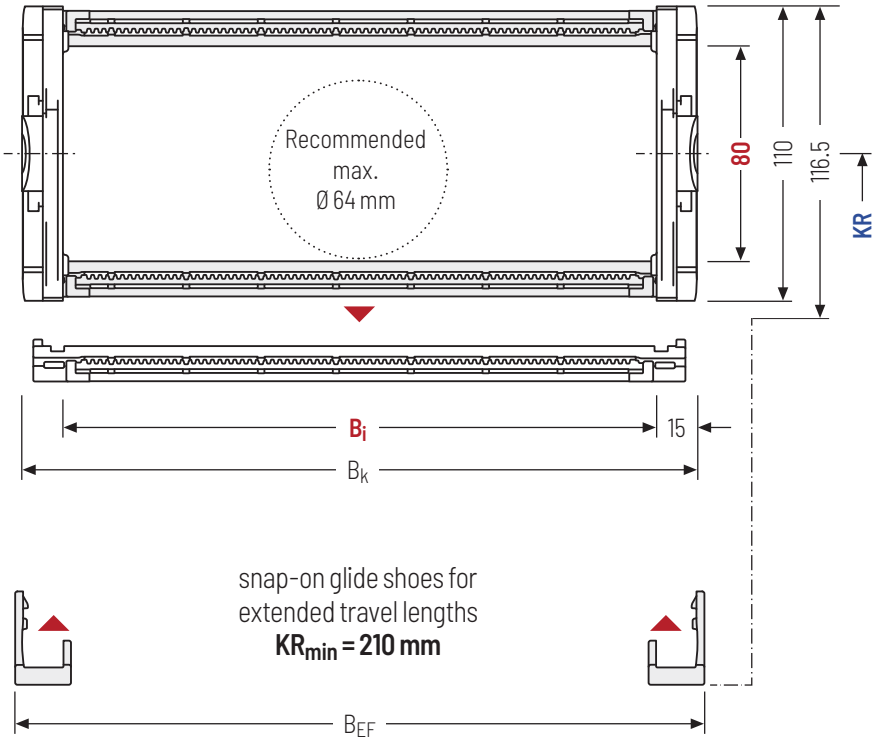
UA1995.040 | Dimensions · Technical data

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

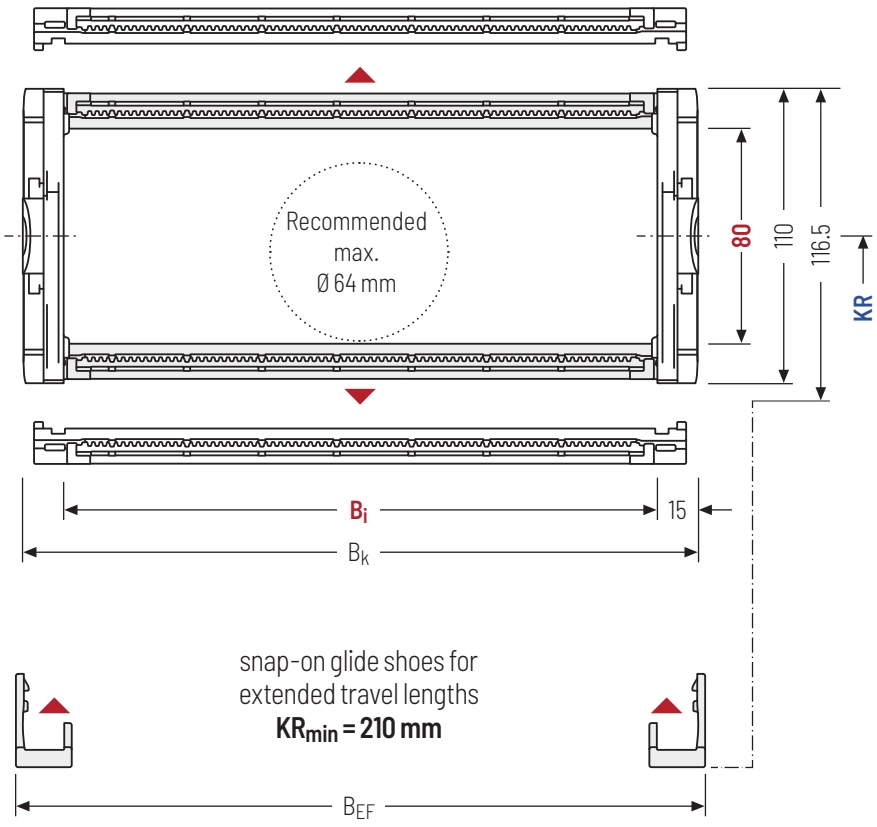
UA1995.070 | Dimensions · Technical data

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_i 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_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	3.852 – 3.853
			180	196	225	250			350	400	500		

Order example

UA1995	.	070	.	150	.	210	-	3582		VS
Type		Stay variant		B_i [mm]		KR [mm]		L_k [mm]		Stay arrangement

UA1995 | Inner distribution | TS0 · TS1

Divider systems

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

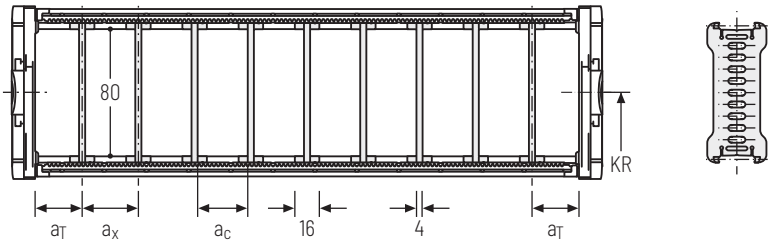
As a standard, dividers or the complete divider system (dividers with height separations) are movable in the cross section **(version A)**.

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.	$a_{T\,min}$ [mm]	$a_{x\,min}$ [mm]	$a_{c\,min}$ [mm]	$a_{x\,grid}$ [mm]	n_T min
A	10	16	12	–	–
B	10	17.5	13.5	2.5	–

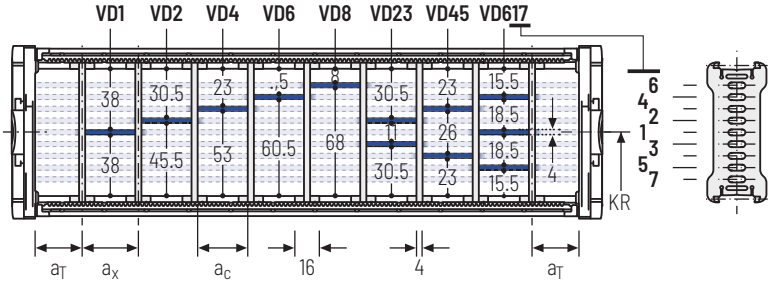
Number of dividers for design 020 depending on B_i



Divider system TS1 with continuous height separation*

Vers.	$a_{T\,min}$ [mm]	$a_{x\,min}$ [mm]	$a_{c\,min}$ [mm]	$a_{x\,grid}$ [mm]	n_T 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 system | Version | n_T | Height separation

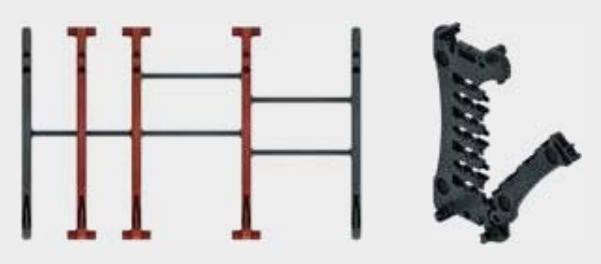
Please state the designation of the divider system **(TS0, TS1,...)**, the version, and the number of dividers per cross section [n_T].

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

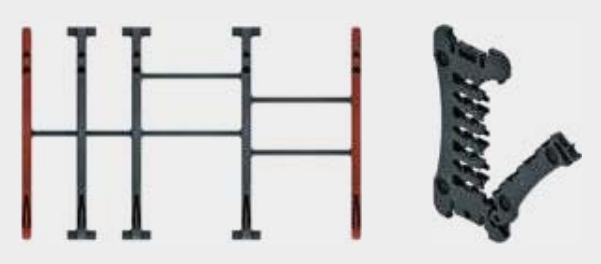
Divider system TS3 with height separation consisting of plastic partitions

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



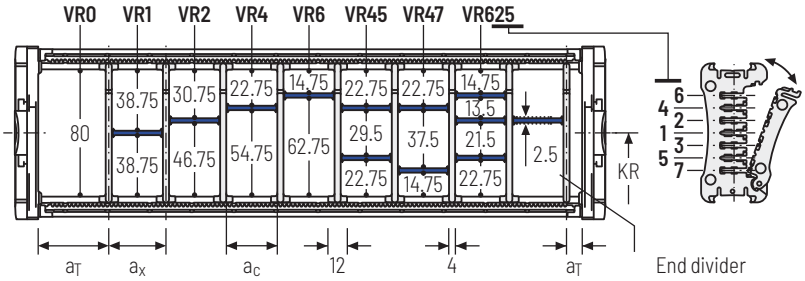
End divider

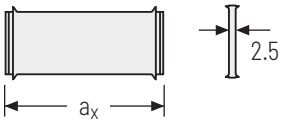


Vers.	a_T min [mm]	a_x min [mm]	a_c min [mm]	n_T min
A	8 / 4*	14	10	2

Number of dividers for design 020 depending on B_i
* For End divider

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





a_x (center distance of dividers) [mm]																
a_c (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_x > 49 mm**.

Order example

TS3	.	A	.	3	.	K1	.	34	-	VR1
						⋮		⋮		⋮
					.	K4	.	38	-	VR3
Divider system		Version		n_T		Chamber		a_x		Height separation

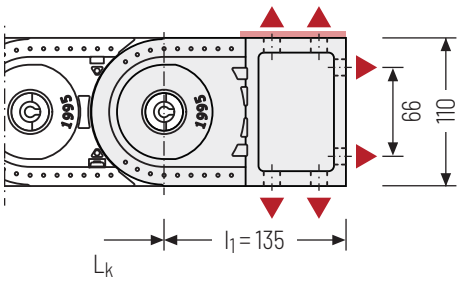
Please state the designation of the divider system **(TS0, TS1,...)**, version and number of dividers per cross section [n_T]. In addition, please also enter the chambers [K] from left to right, as well as the assembly distances [a_T/a_x] (as seen from the driver).

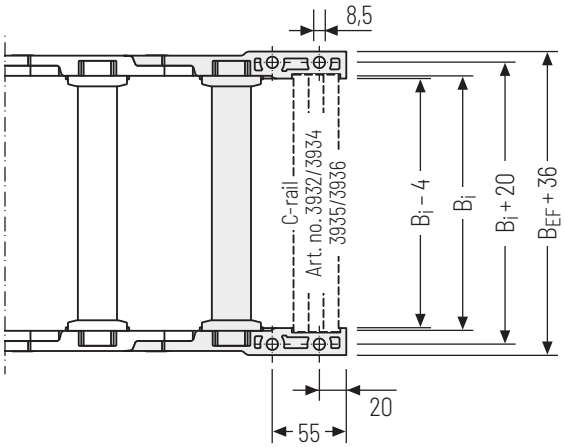
If using divider systems with height separation **(TS1, TS3)** please also state the positions [e.g. VD23] viewed from the left driver belt. You are welcome to add a sketch to your order.

UA1995 | End connectors

Universal end connectors UMB – plastic (standard)

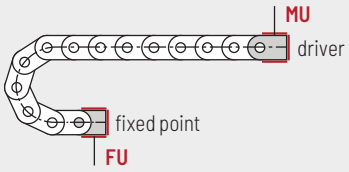
The universal mounting brackets (UMB) are made from plastic and can be mounted **from above, from below or on the face side**.





▲ 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

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. 908.

Additional product information online

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

Configure your cable carrier here:
online-engineer.de