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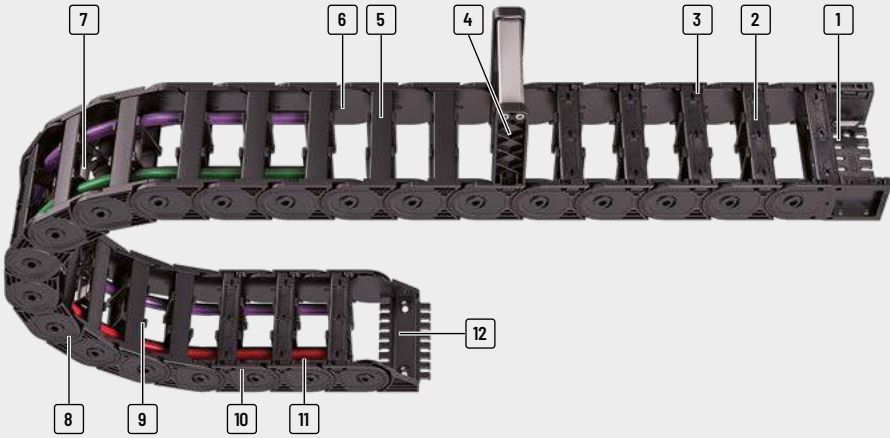
Light, quiet all-rounder with a wide range of applications*

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

Cable carrier

Cable carrier configuration

Configuration guidelines

Materials information

MONO series

QuickTrax® series

UNIFLEX Advanced series

TKP35 series

TKK series

EasyTrax® series

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] X 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 – 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
		RMA	44 (114-189)	60 (170-245)	125 – 200	147 – 222	1	66.5	75 – 300	15	35/151

Subject to change without notice.

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	•	–	–	–	•	•	•	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

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

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] X 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
9	10	25	200	8	20	•	–	–	•	•	•	•	204
9	10	25	200	8	20	•	•	–	•	•	•	•	205
9	10	25	200	8	20	•	•	–	•	•	•	•	206
9	10	25	200	8	200	•	•	–	•	•	•	•	207

Subject to change without notice.

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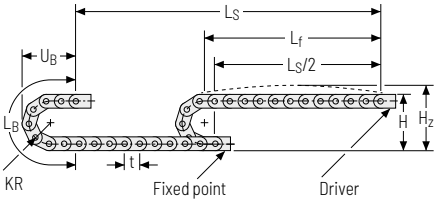
Closed frame
» Weight-optimised, closed plastic frame with particularly high torsional rigidity.
» **Outside/inside:** not openable.

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]	H$_z$ [mm]	L$_B$ [mm]	U$_B$ [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.
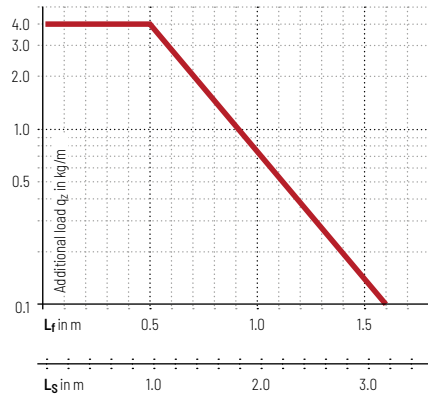
Speed
up to 10 m/s

Acceleration
up to 50 m/s^2

Travel length
up to 1.6 m

Additional load
up to 4 kg/m

Gliding arrangement
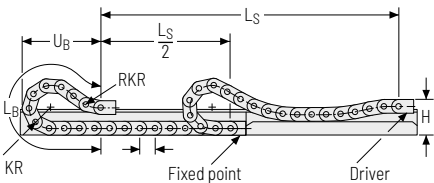
Speed
up to 3 m/s

Acceleration
up to 30 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.

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

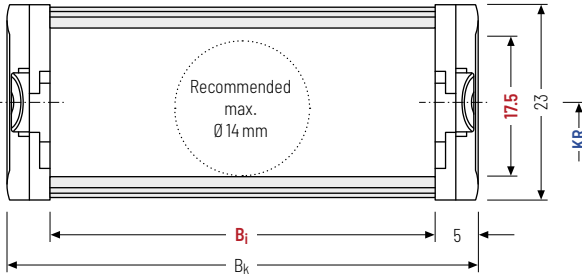# UA1250.020 | Dimensions · Technical data

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

Recommended max. Ø 14 mm

B_i

B_k

17.5

23

–KR–

5

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 TSO 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	–
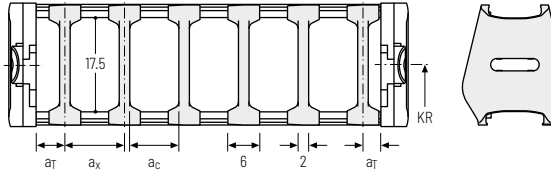
Order example

TSO	.	A	.	3
Divider system		Version		n_T

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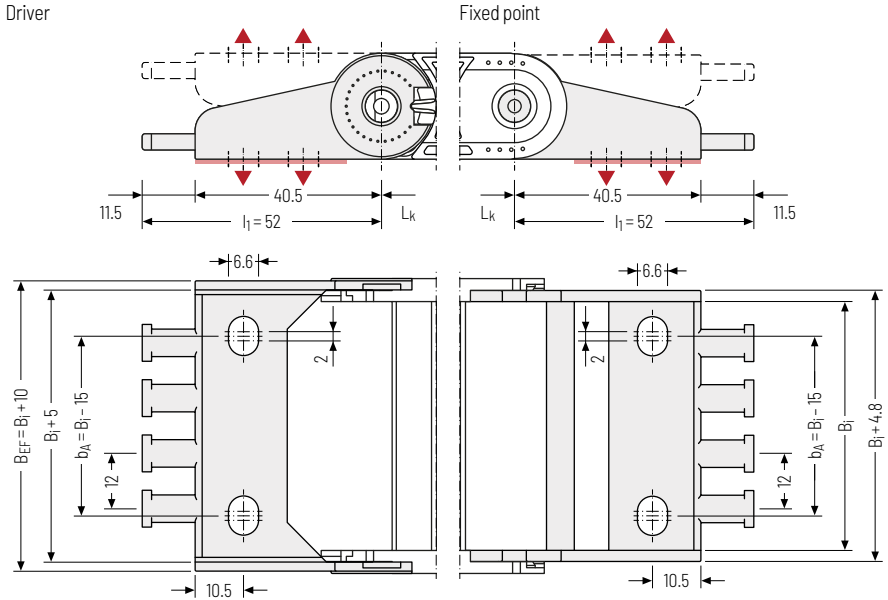
Additional product information online

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

Configure your cable carrier here:
online-engineer.de

Cable carrier

Cable carrier configuration

Configuration guidelines

Materials information

MONO series

QuickTrax® series

UNIFLEX Advanced series

TKP35 series

TKK series

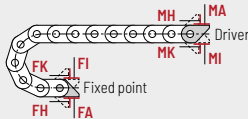EasyTrax® series

UA1250 | End connectors

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

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

Driver

Fixed point

11.5   40.5 $l_1 = 52$ L_k

L_k 40.5 $l_1 = 52$ 11.5

6.6   2 $B_{EF} = B_i + 10$ $B_i + 5$ $b_A = B_i - 15$ 12   10.5

6.6   2 $b_A = B_i - 15$ 12 B_i $B_i + 4.8$ 10.5

▲ Assembly options

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

MH · MA · Driver · MK · MI
FK · FI · Fixed point · FH · FA

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

Cable carrier

Cable carrier configuration

Configuration guidelines

Materials information

MONO series

QuickTrax® series

UNIFLEX Advanced series

TKP35 series

TKK series

EasyTrax® series

UA1320

	Pitch		Inner height		Inner widths		Bending radii
	32 mm		20 mm		15 – 65 mm		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
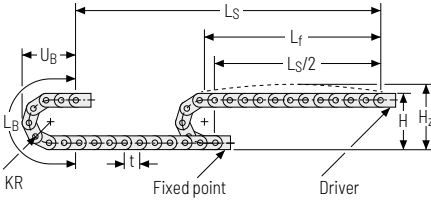
KR [mm]	H [mm]	H$_z$ [mm]	L$_B$ [mm]	U$_B$ [mm]
28	81.5	98.5	152	73
38	101.5	118.5	184	83
48	121.5	138.5	215	93
75	175.5	192.5	300	120
100	225.5	242.5	379	145
125	275.5	292.5	457	170

**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.
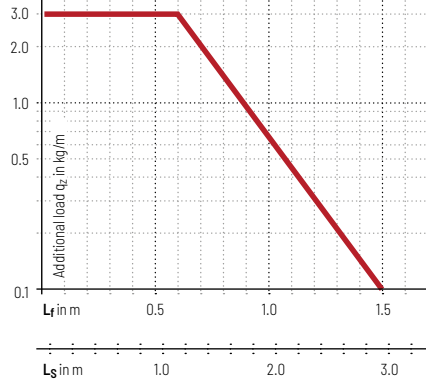
Speed
up to 10 m/s

Acceleration
up to 50 m/s^2

Travel length
up to 2.9 m

Additional load
up to 3 kg/m

Gliding arrangement
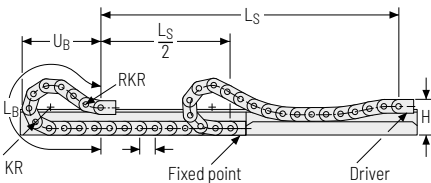
Speed
up to 2.5 m/s

Acceleration
up to 25 m/s^2

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. 844.

Cable carrier

Cable carrier configuration

Configuration guidelines

Materials information

MONO series

QuickTrax® series

UNIFLEX Advanced series

TKP35 series

TKK series

EasyTrax® series

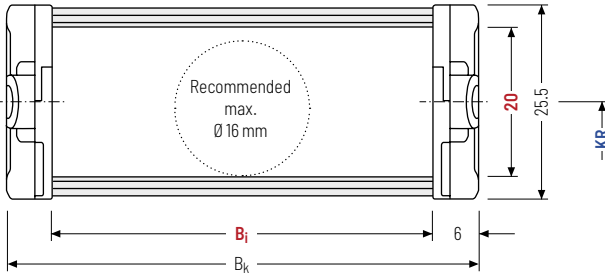# UA1320.020 | Dimensions · Technical data

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

Recommended max. Ø 16 mm

20

25.5

B_i

6

B_k

– KR

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

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 TSO without height separation

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

The dividers can be moved in the cross section.
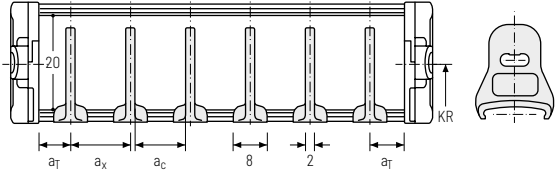
Order example

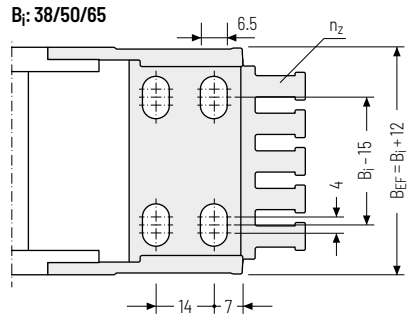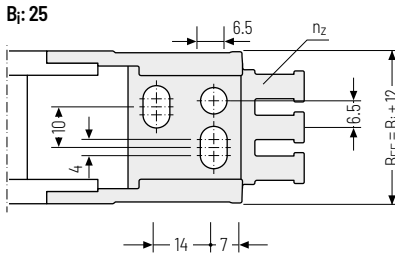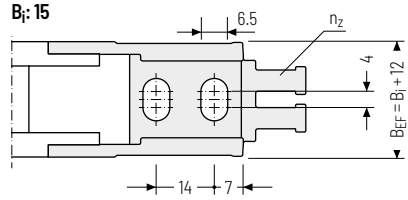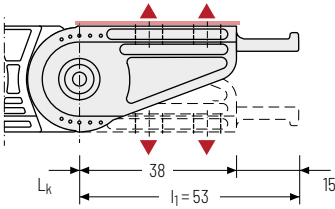| TS1	.	A	.	3
Divider system		Version		n_T

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

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
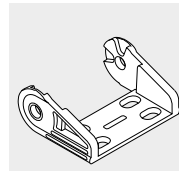
EasyTrax® series

UA1320 | End connectors

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

The plastic end connectors can be connected from above or below. The connection type can be changed by altering the position of the end connector.
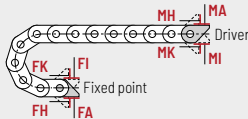
B_i: 15

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
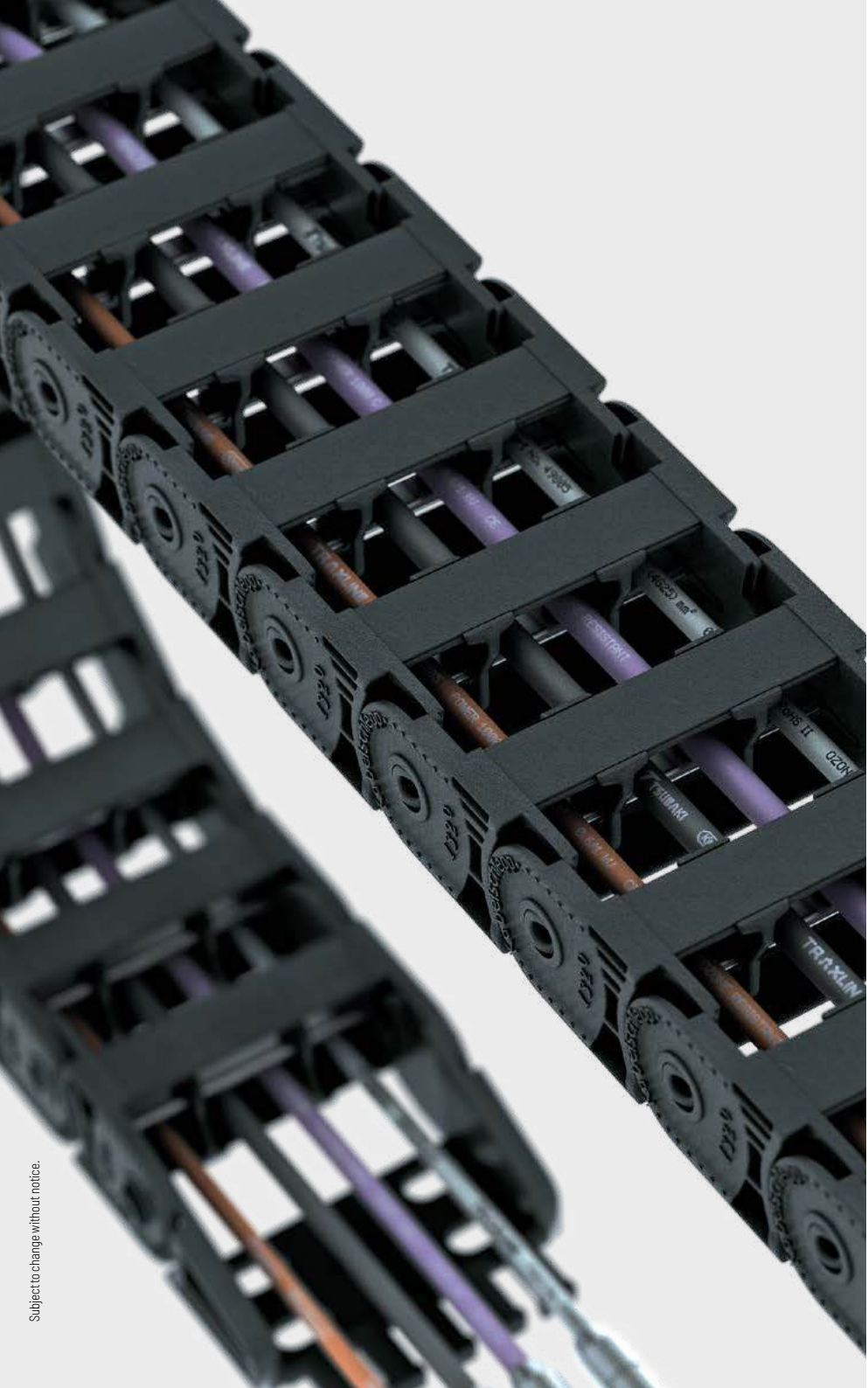F – fixed point
M – driver

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

Cable carrier

Cable carrier configuration

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QuickTrax® series

UNIFLEX Advanced series

TKP35 series

TKK series

EasyTrax® series

Cable carrier

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MONO series

QuickTrax® series

UNIFLEX Advanced series

TKP35 series

TKK series

EasyTrax® series

UA1455

Pitch	Inner height	Inner widths	Bending radii
45.5 mm	26 mm	25 – 130 mm	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
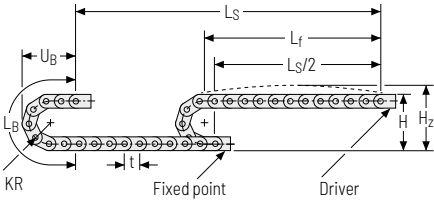
Frame with inside detachable stays
» Weight-optimised plastic frame with particularly high torsional rigidity.
» **Inside:** openable and detachable.

EasyTrax®

For an openable cable carrier with 25 mm inner height we recommend the series EasyTrax® 1455

Unsupported arrangement

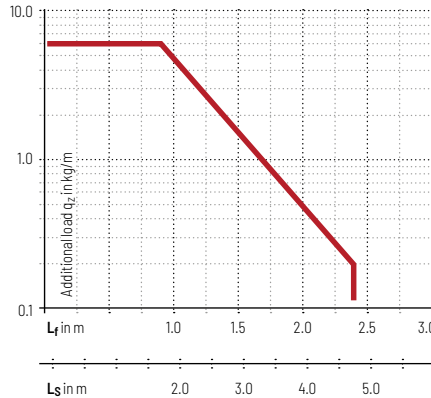| KR [mm]	H [mm]	H_Z [mm]	L_B [mm]	U_B [mm]
52	140	165	255	116
65	166	191	296	129
95	226	251	390	159
125	286	311	484	189
150	336	361	563	214
180	396	421	657	244
200	436	461	720	264

**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/s^2
	Travel length	up to 4.8 m
	Additional load	up to 6 kg/m

Gliding arrangement | GO module with chain links optimized for gliding
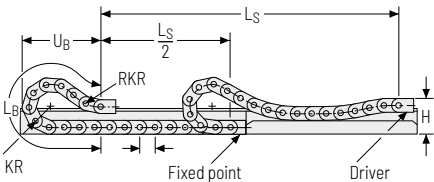
KR [mm]	H [mm]	GO-Modul RKR [mm]	L_B [mm]	U_B [mm]
52	108	225	780	377
65	108	225	825	389
95	108	225	1007	450
125	108	225	1189	508
150	108	225	1371	573
180	108	225	1599	655
200	108	225	1781	723

	Speed	up to 2.5 m/s
	Acceleration	up to 20 m/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. 844.

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

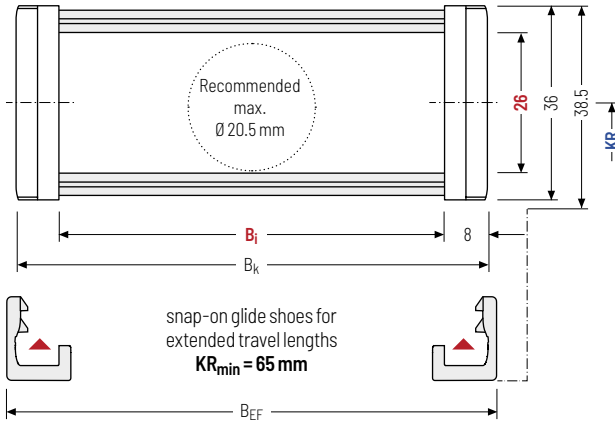# UA1455.020 | Dimensions · Technical data

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

Recommended max. Ø 20.5 mm

B_i

B_k

8

26

36

38.5

KR

snap-on glide shoes for extended travel lengths
KR$_{min}$ = 65 mm

B_{EF}

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

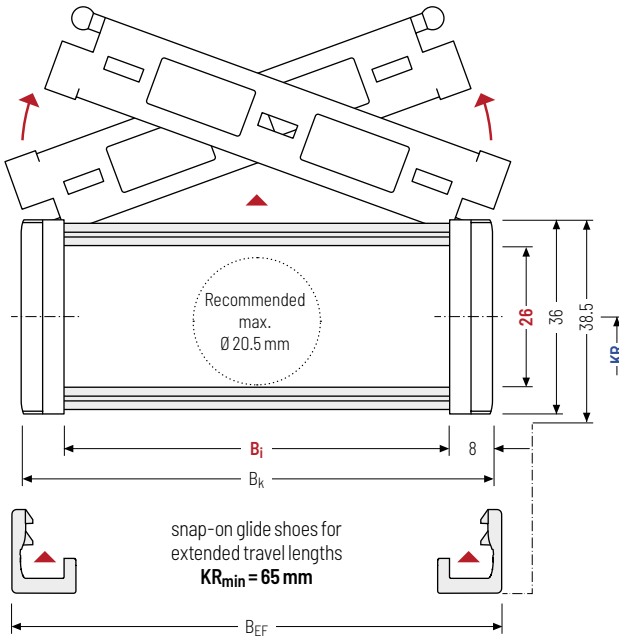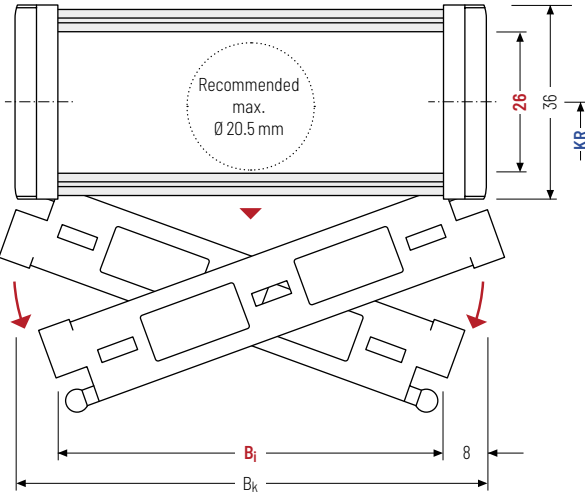## Stay variant 030 – with outside opening and detachable stays

» 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

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

Recommended max. Ø 20.5 mm

snap-on glide shoes for extended travel lengths
KR$_{min}$ = 65 mm

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

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

Recommended max. Ø 20.5 mm

26
36
KR

B_i
8
B_k

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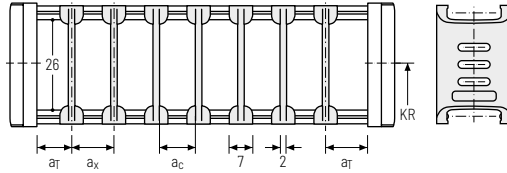The locking cams click into place in the locking grids in the stays **(version B)**.

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*

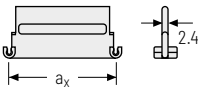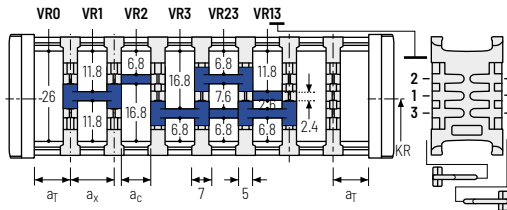| Vers.	a$_T$ min [mm]	a$_T$ max [mm]	a$_x$ min [mm]	a$_c$ min [mm]	a$_x$ grid [mm]	n$_T$ min
A	3.5	20	7	5	–	2
B	4/5**	20	7.5	5.5	2.5	2

* not for design 020
** 4 mm for B$_i$ 38 – 103; 5 mm for B$_i$ 25, 130
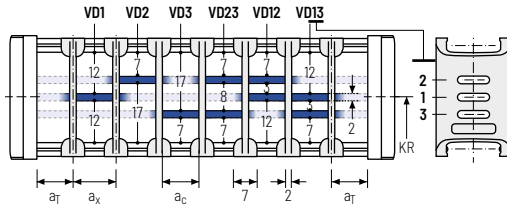
Divider system TS3 with height separation consisting of plastic section subdivisions

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

Cable carrier

Cable carrier configuration

Configuration guidelines

Materials information

MONO series

QuickTrax® series

UNIFLEX Advanced series

TKP35 series

TKK series

EasyTrax® series

UA1455 | End connectors

Cable carrier

Cable carrier configuration

Configuration guidelines

Materials information

MONO series

QuickTrax® series

UNIFLEX Advanced series

TKP35 series

TKK series

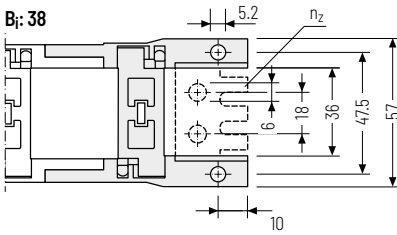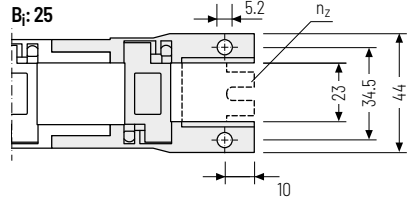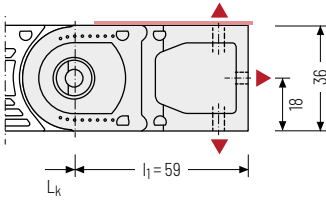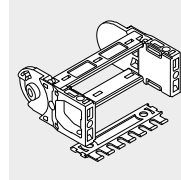EasyTrax® series

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**.
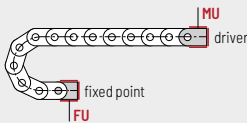
B_i: 25

$l_1 = 59$
L_k

B_i: 38
5.2 n_z

B_i: 58-130
5.2 n_z

$B_i - 22$
$B_i - 2$
$B_i + 9.5$
$B_i + 19$

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).
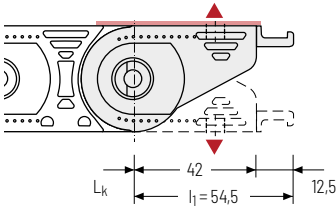Please state when ordering.

MU
driver

fixed point
FU

Connection point
F – fixed point
M – driver

Connection type
U – Universal mounting bracket

Order example

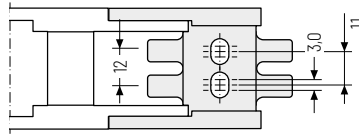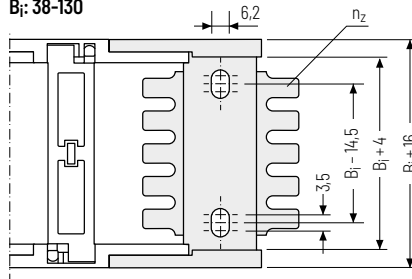| UMB	.	F	U
UMB	.	M	U
End connector		Connection point	Connection type

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.
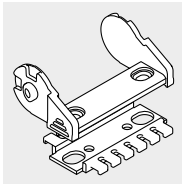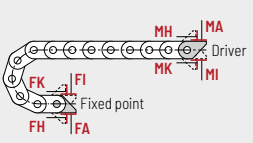
B$_i$: 25

B$_i$: 38-130

ℹ️ 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

Driver
MH MA
MK MI
FK FI
Fixed point
FH FA

Order example

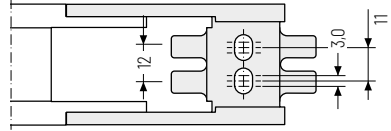| End connector	.	F	A
End connector	.	M	A
End connector		Connection point	Connection type

Cable carrier

Cable carrier configuration

Configuration guidelines

Materials information

MONO series

QuickTrax® series

UNIFLEX Advanced series

TKP35 series

TKK series

EasyTrax® series
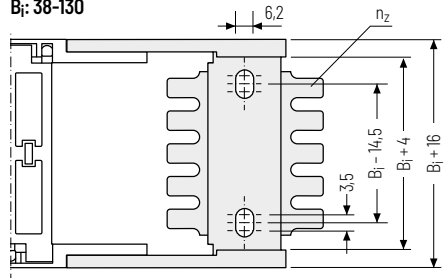
Single-part end connectors long – plastic

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.
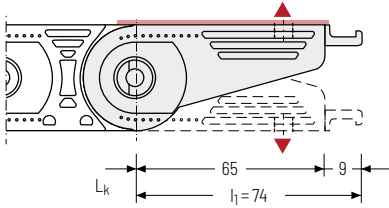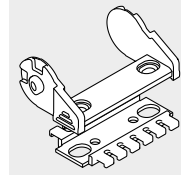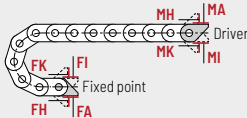

B$_i$: 25

B$_i$: 38–130

▲ Assembly options

ℹ 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.

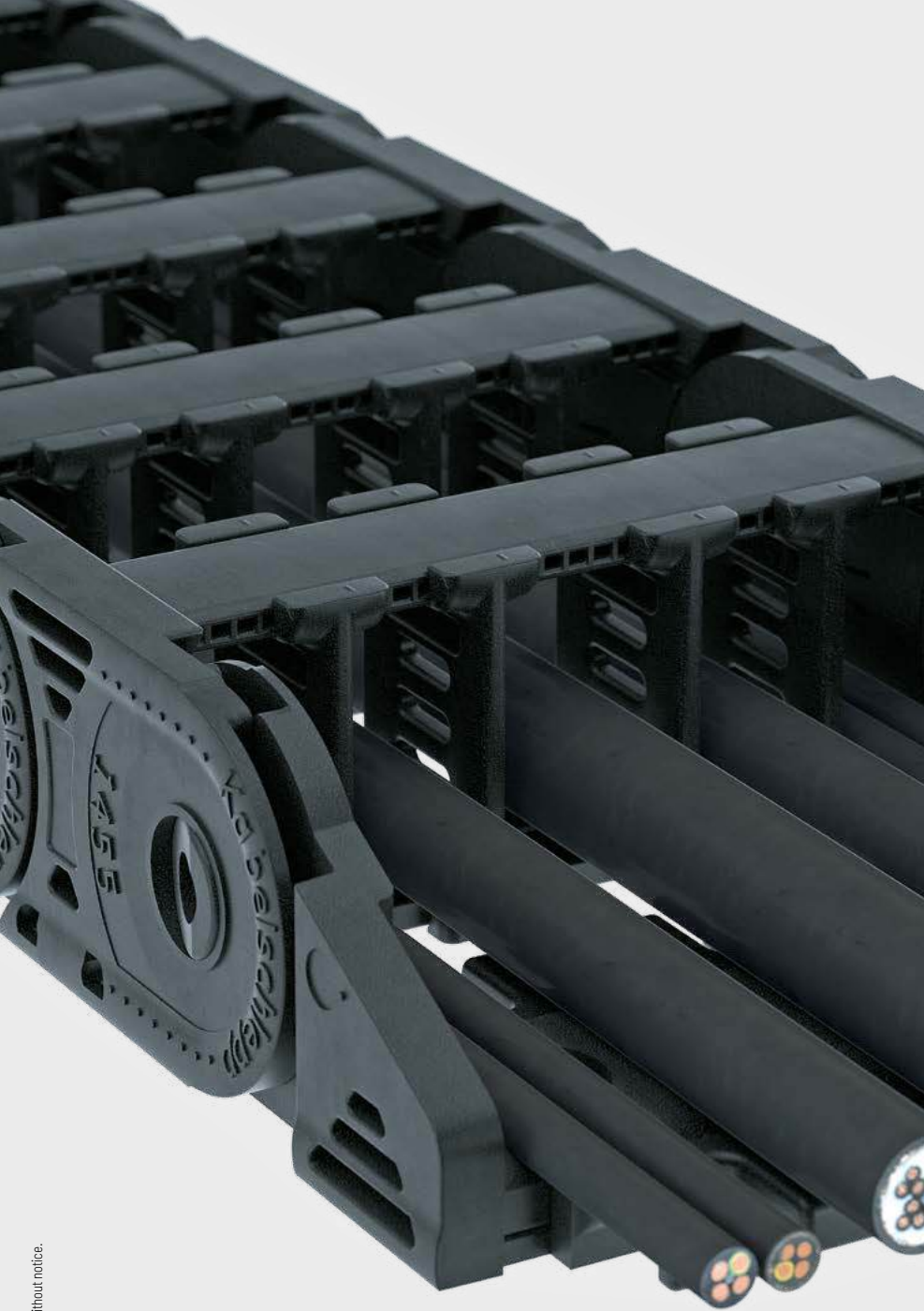**Connection point**
F – fixed point
M – driver

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

Cable carrier

Cable carrier configuration

Configuration guidelines

Materials information

MONO series

QuickTrax® series

UNIFLEX Advanced series

TKP35 series

TKK series

EasyTrax® series

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.
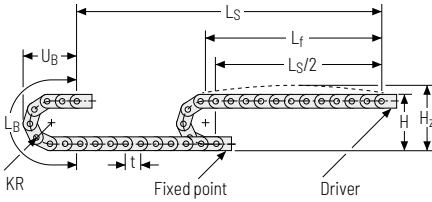
Additional product information online

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

Configure your cable carrier here:
online-engineer.de

Unsupported arrangement

KR [mm]	H [mm]	H_z [mm]	L_B [mm]	U_B [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 $q_k = 1.32$ kg/m with B_i 100 mm. For other inner widths, the maximum additional load changes.
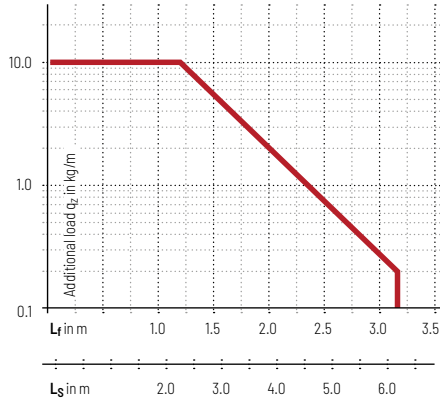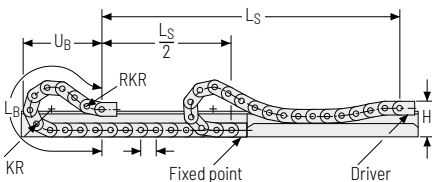

Speed up to 9 m/s

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]	L_B [mm]	U_B [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 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. 844.

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

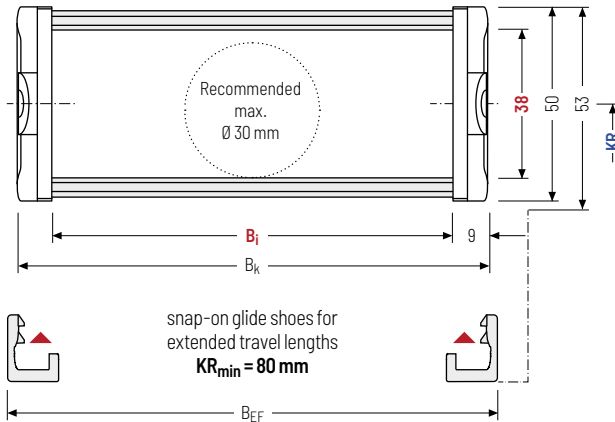# UA1555.020 | Dimensions · Technical data

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

Recommended max. Ø 30 mm

B_i

B_k

9

38

50

53

KR

snap-on glide shoes for extended travel lengths
KR$_{min}$ = 80 mm

B_{EF}

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

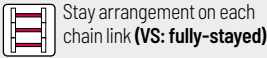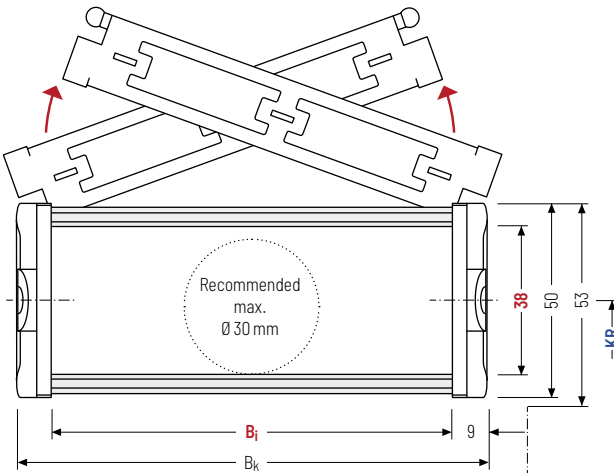| UA1555	.	020	.	125	.	160	–	1887		VS
Type		Stay variant		B$_i$ [mm]		KR [mm]		L$_k$ [mm]		Stay arrangement

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 – 150 mm

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

Recommended max. Ø 30 mm

38
50
53

− KR

B_i

9

B_k

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

snap-on glide shoes for extended travel lengths
KR_{min} = 80 mm

B_{EF}

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	125	1.13 – 1.51

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

UA1555.040 | Dimensions · Technical data
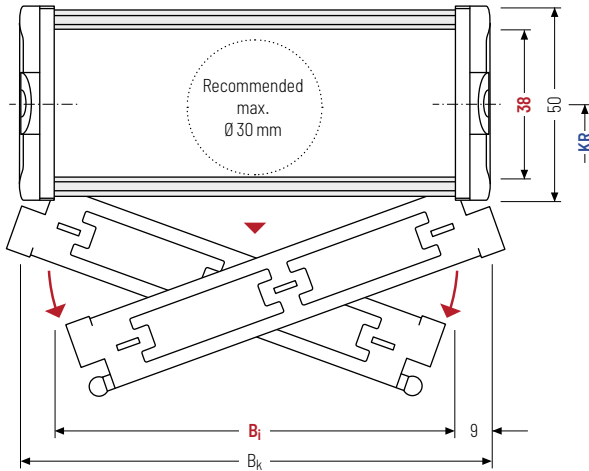
Stay variant 040 – with inside opening and detachable stays

» 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

Recommended max. Ø 30 mm

B$_i$

B$_k$

9

38

50

– KR

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]	KR [mm]				q$_k$ [kg/m]
38	50	53	**50** **125**	**75** **150**	100	B$_i$ + 18	**63** **160**	**80** **200**	100	125	1.13 – 1.52

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)**.
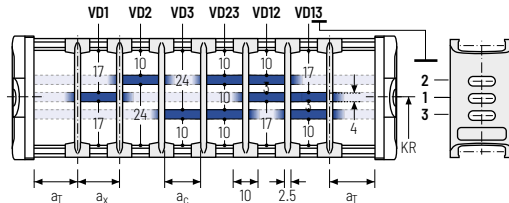
Divider system TS0 without height separation

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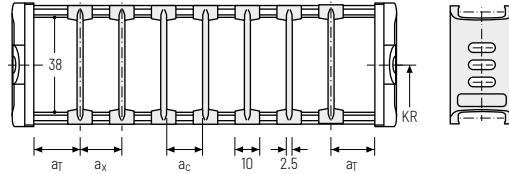
Number of dividers for design 020 depending on B_i
* not for design 020

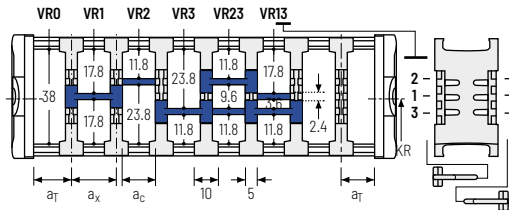## Divider system TS1 with continuous height separation*

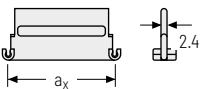| Vers.	a_T min [mm]	a_T max [mm]	a_x min [mm]	a_c min [mm]	a_x grid [mm]	n_T min
A	5	20	10	7.5	–	2
B	5	20.5	10	7.5	2.5	2

* 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

* not for design 020

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

Cable carrier

Cable carrier configuration

Configuration guidelines

Materials information

MONO series

QuickTrax® series

UNIFLEX Advanced series

TKP35 series

TKK series

EasyTrax® series

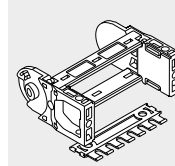Subject to change without notice.

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**.

$l_1 = 80.5$

L_k

50

61

5.5

n_z

$B_i - 5$

B_i

$B_i + 8$

$B_i + 18$

12.5

35

▲ 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.

MU
driver

fixed point

FU
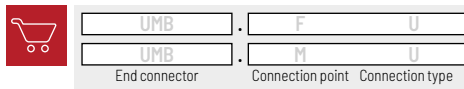
Connection point
F – fixed point
M – driver

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. 904.

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.
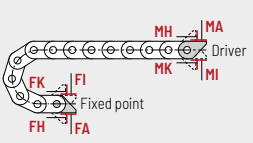
6.4

n_z

54

L_k

$l_1 = 66{,}5$

12.5

$B_i - 20$

$B_i + 18$

5.0

15
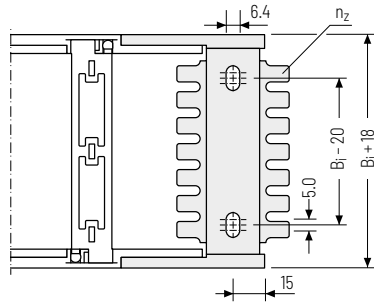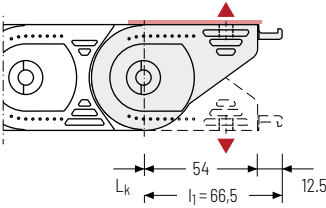
▲ Assembly options

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.

MH | MA
MK | MI
Driver

FK | FI
Fixed point

FH | FA

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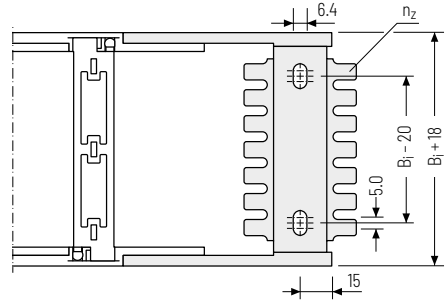
End connector	.	F	A
End connector	.	M	A
End connector		Connection point	Connection type

Cable carrier

Cable carrier configuration

Configuration guidelines

Materials information

MONO series

QuickTrax® series

UNIFLEX Advanced series

TKP35 series

TKK series

EasyTrax® series

UA1555 | End connectors

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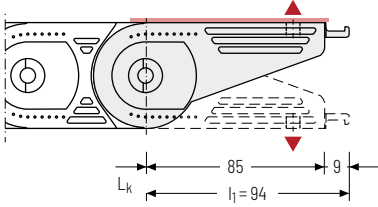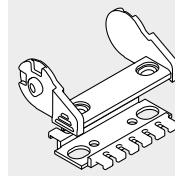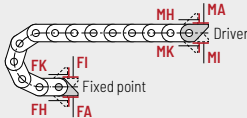
End connector U0555	. F	A
End connector U0555	. M	A
End connector	Connection point	Connection type

Cable carrier

Cable carrier configuration

Configuration guidelines

Materials information

MONO series

QuickTrax® series

UNIFLEX Advanced series

TKP35 series

TKK series

EasyTrax® series

Cable carrier

Cable carrier configuration

Configuration guidelines

Materials information

MONO series

QuickTrax® series

UNIFLEX Advanced series

TKP35 series

TKK series

EasyTrax® series

UA1665
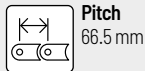
Pitch
66.5 mm

Inner height
44 mm

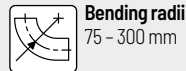**Inner widths**
50 – 250 mm

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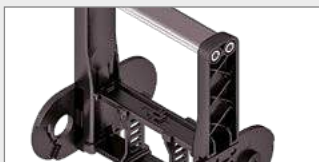» Weight-optimised plastic frame with particularly high torsional rigidity.
» **Inside:** openable and detachable.

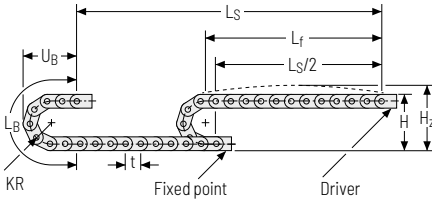**Design RMA**..page **188**

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

Unsupported arrangement

KR [mm]	H [mm]	H$_Z$ [mm]	L$_B$ [mm]	U$_B$ [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.
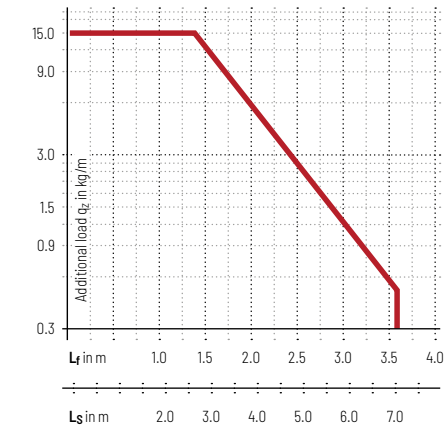
Speed
up to 8 m/s

Acceleration
up to 40 m/s^2

Travel length
up to 7 m

Additional load
up to 15 kg/m

Gliding arrangement | GO module with chain links optimized for gliding

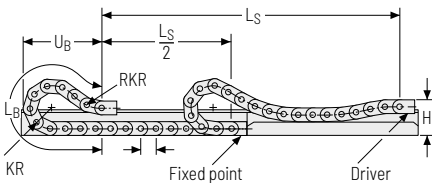| KR [mm]	H [mm]	GO-Modul RKR [mm]	L$_B$ [mm]	U$_B$ [mm]
75	180	300	1118	546
100	180	300	1251	593
120	180	300	1318	609
140	180	300	1450	654
200	180	300	1783	753
250	180	300	2182	864
300	180	300	2581	1035

Speed
up to 3 m/s

Acceleration
up to 15 m/s^2

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. 844.

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.

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

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

Recommended max. Ø 35 mm

B_i

B_k

11

44

60

63

KR

snap-on glide shoes for extended travel lengths
KR_{min} = 100 mm

B_{EF}

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	.	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

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

Recommended max. Ø 35 mm

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

snap-on glide shoes for extended travel lengths
$KR_{min} = 100$ mm

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

Subject to change without notice.

Cable carrier

Cable carrier configuration

Configuration guidelines

Materials information

MONO series

QuickTrax® series

UNIFLEX Advanced series

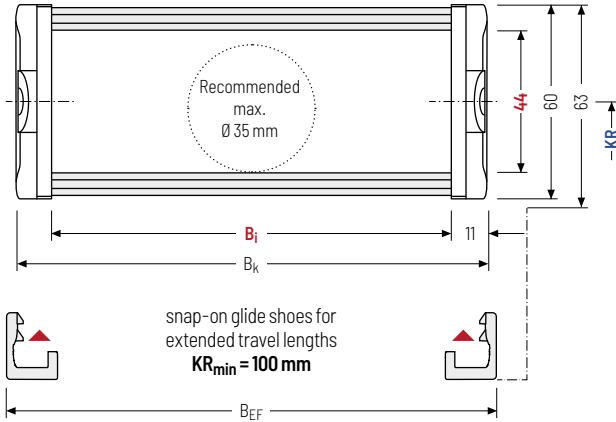TKP35 series

TKK series

EasyTrax® series

UA1665.040 | Dimensions · Technical data

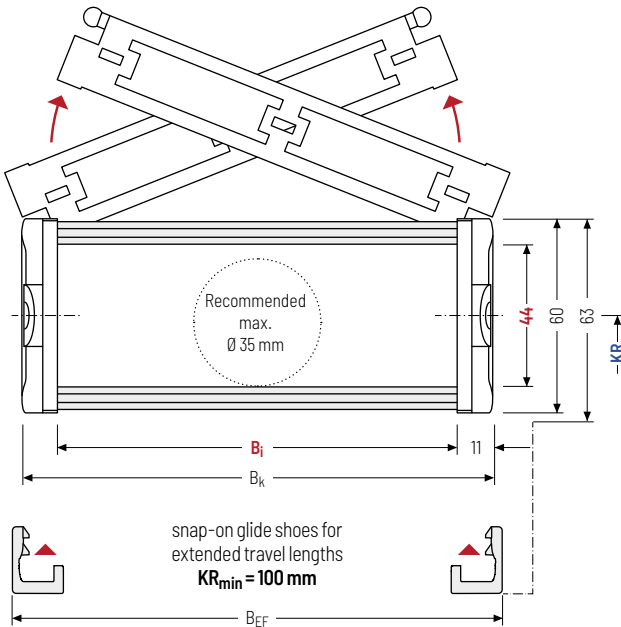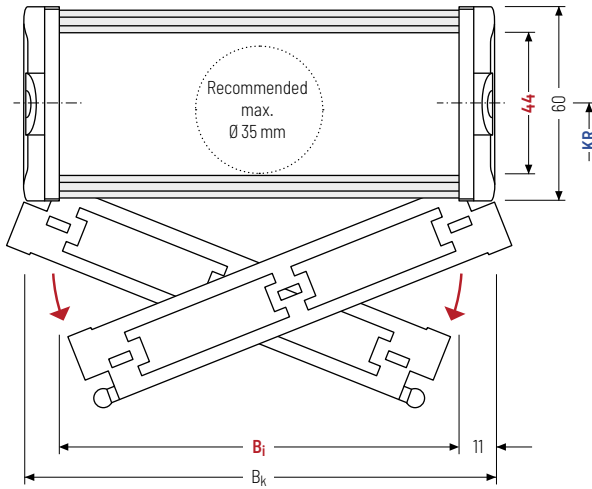## Stay variant 040 – with inside opening and detachable stays

» 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.

Recommended max. Ø 35 mm

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

Cable carrier

Cable carrier configuration

Configuration guidelines

Materials information

MONO series

QuickTrax® series

UNIFLEX Advanced series

TKP35 series

TKK series

EasyTrax® series

UA1665.RMA | Dimensions · Technical data
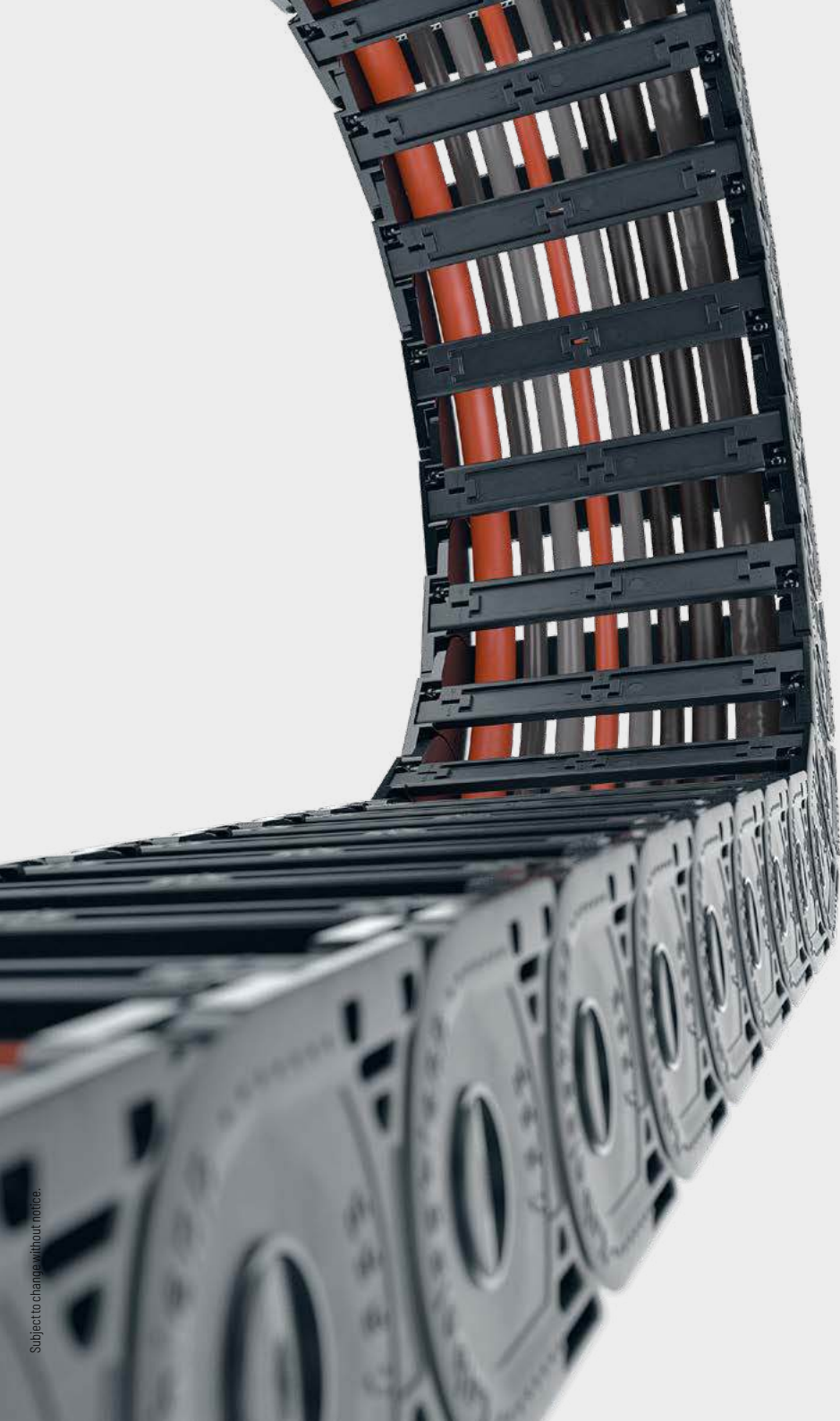
Cable carrier

Cable carrier configuration

Configuration guidelines

Materials information

MONO series

QuickTrax® series

UNIFLEX Advanced series

TKP35 series

TKK series

EasyTrax® series

Stay variant RMA –
mounting frame stay

» Weight-optimized plastic frame with particularly high torsional rigidity.
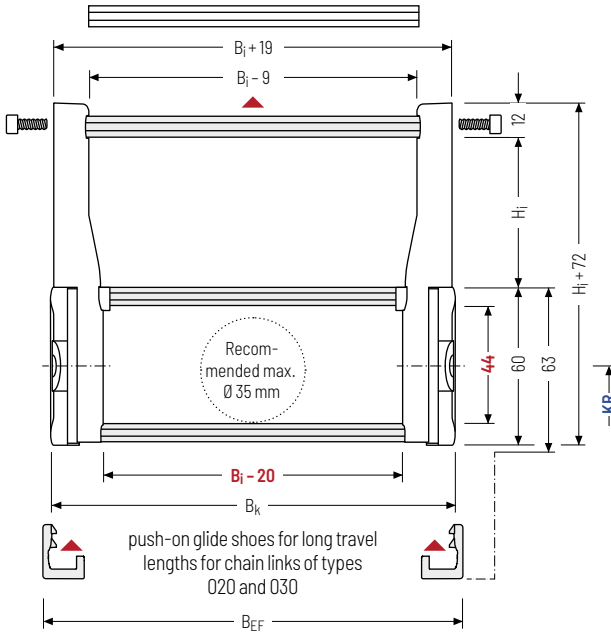» Plastic stays and aluminum profile bars with plastic mounting frame stays for guiding very large cable diameters.
» **Outside/inside:** threaded joint easy to release.
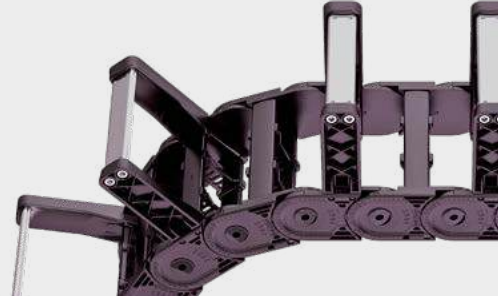
Stay arrangement on each chain link **(VS: fully-stayed)**

B_i 125 – 200 mm

B_i + 19
B_i – 9
12
H_i
H_i + 72
44
60
63
Recommended max. Ø 35 mm
B_i – 20
B_k
– KR

push-on glide shoes for long travel lengths for chain links of types 020 and 030

B_{EF}

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 (RMAI)* [kg/m]	q_k (RMAO)* [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

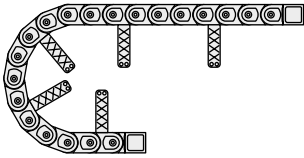| UA1665	.	030	.	150	.	140	–	2660	RMAO
Type		Stay variant		B_i [mm]		KR [mm]		L_k [mm]	Stay arrangement

Assembly variants

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

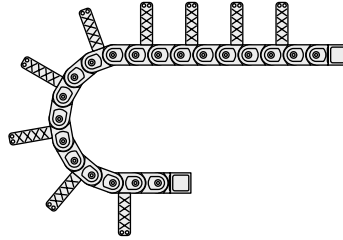Gliding application is not possible when using assembly version RMAI.

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

RMAO – assembly to the outside:
standard pitch, mounting frame stay on every 2nd 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 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]	Stays [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**.

Divider systems

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

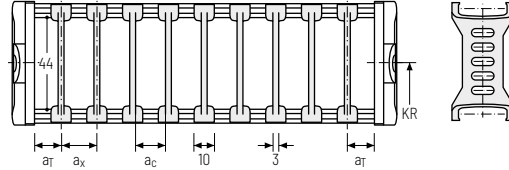As a standard, dividers or the complete divider system (dividers with height separations) are movable in the cross section **(version A)**.

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)**.
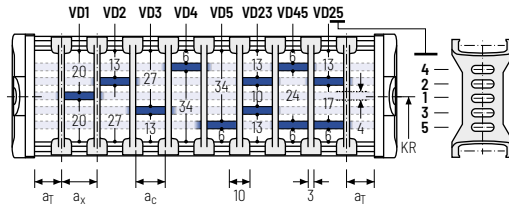
Divider system TS0 without height separation

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

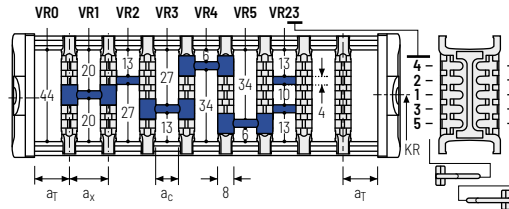## Divider system TS1 with continuous height separation*

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.
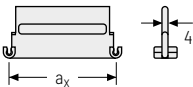
Aluminium partitions in 1 mm increments with **a$_x$ > 42 mm** are also available.

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.

UA1665 | End connectors

Cable carrier

Cable carrier configuration

Configuration guidelines

Materials information

MONO series

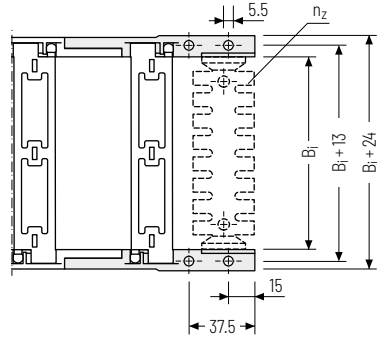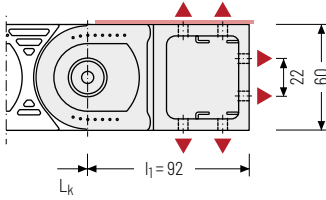QuickTrax® series

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**.

$l_1 = 92$

L_k

22

60

5.5

n_z

B_i

$B_i + 13$

$B_i + 24$

15

37.5

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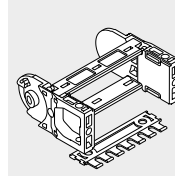
The end connectors are also available as an option **with** strain relief comb or **with** C-rail Art. no 3931 (1 on each side) for clamps. Please state when ordering.

MU
driver

fixed point
FU

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		
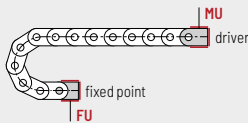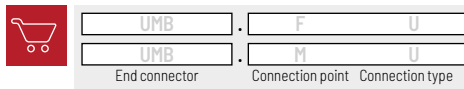
We recommend the use of strain reliefs at the driver and fixed point. See from p. 904.

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.
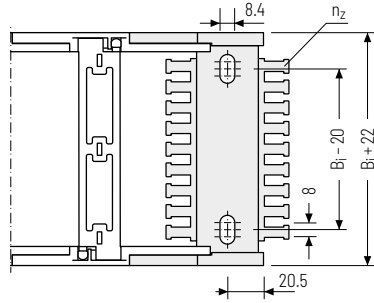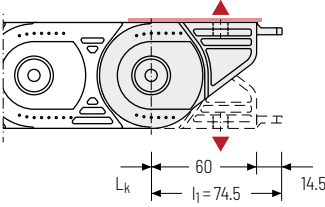
▲ Assembly options

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

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]	H$_z$ [mm]	L$_B$ [mm]	U$_B$ [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.

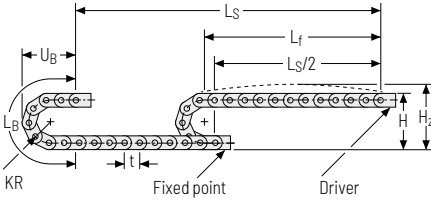Sagging of the cable carrier is technically permitted for extended travel lengths, depending on the specific application.

Intrinsic cable carrier weight q_k = 3.03 kg/m with B$_i$ 150 mm. For other inner widths, the maximum additional load changes.
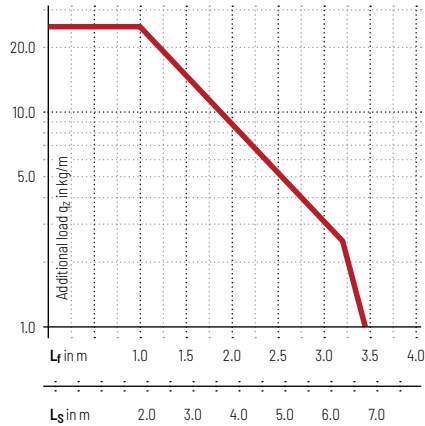
Speed
up to 10 m/s

Acceleration
up to 35 m/s^2

Travel length
up to 7.8 m

Additional load
up to 25 kg/m

Gliding arrangement | GO module with chain links optimized for gliding
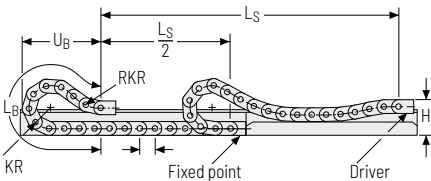
KR [mm]	H [mm]	GO-Modul RKR [mm]	L$_B$ [mm]	U$_B$ [mm]
90	231	400	1313	643
115	231	400	1440	688
140	231	400	1575	733
165	231	400	1715	779
190	231	400	1868	828
240	231	400	2225	951
285	231	400	2580	1081
340	231	400	3015	1240

Speed
up to 3 m/s

Acceleration
up to 8 m/s^2

Travel length
up to 200 m

Additional load
up to 25 kg/m

The gliding cable carrier must be guided in a channel.

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

Cable carrier

Cable carrier configuration

Configuration guidelines

Materials information

MONO series

QuickTrax® series

UNIFLEX Advanced series

TKP35 series

TKK series

EasyTrax® series

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

Recommended max. Ø 44 mm

B_i

13

B_k

56

77

81.6

KR

snap-on glide shoes for extended travel lengths
KR_{min} = 115 mm

B_{EF}

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

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

Recommended max. Ø 44 mm

B_i

B_k

13

56

77

81.6

KR

snap-on glide shoes for extended travel lengths
$KR_{min} = 115$ mm

B_{EF}

i 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

Cable carrier

Cable carrier configuration

Configuration guidelines

Materials information

MONO series

QuickTrax® series

UNIFLEX Advanced series

TKP35 series

TKK series

EasyTrax® series

Subject to change without notice.
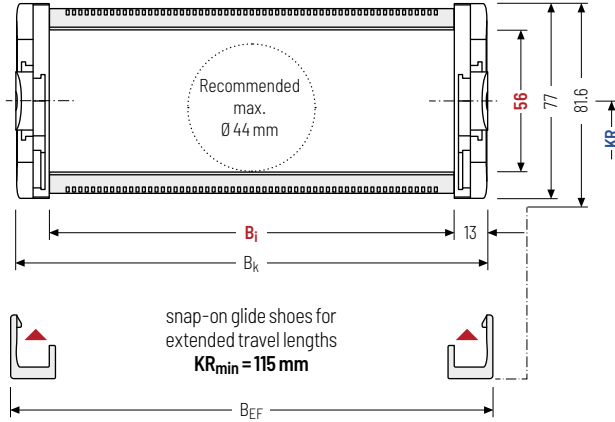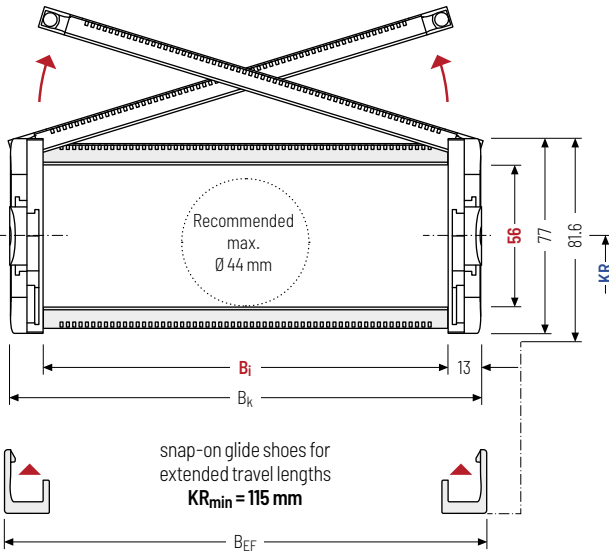
UA1775.040 | Dimensions · Technical data

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

Recommended max. Ø 44 mm

56
77
81.6
-KR

B_i
13
B_k

snap-on glide shoes for extended travel lengths
$KR_{min} = 115$ mm

B_{EF}

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.

Subject to change without notice.

UA1775 | Inner distribution | TS3

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.

2.5

a_X

VR0 VR1 VR2 VR3 VR4 VR5 VR43 VR145

End divider

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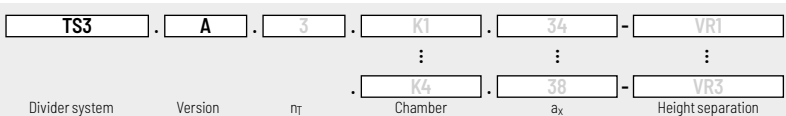
TS3	.	A	.	3	.	K1	.	34	-	VR1
					.	⋮	.	⋮		⋮
					.	K4	.	38	-	VR3
Divider system		Version		n_T		Chamber		a_X		Height separation

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.

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**.
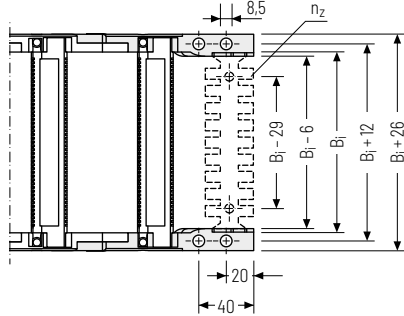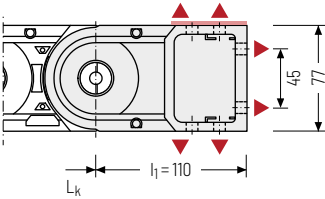
▲ Assembly options

ℹ 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.

MU driver

fixed point

FU
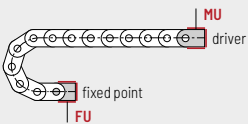
Connection point
F – fixed point
M – driver

Connection type
U – Universal mounting bracket

Order example

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

ℹ We recommend the use of strain reliefs at the driver and fixed point. See from p. 904.

Cable carrier

Cable carrier configuration

Configuration guidelines

Materials information

MONO series

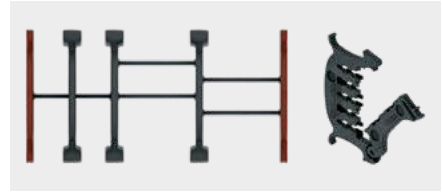QuickTrax® series

UNIFLEX Advanced series
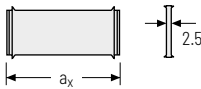
TKP35 series

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

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.
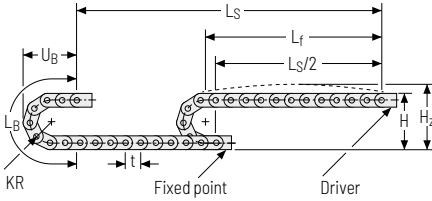» **Outside/inside:** release by rotating 90°.
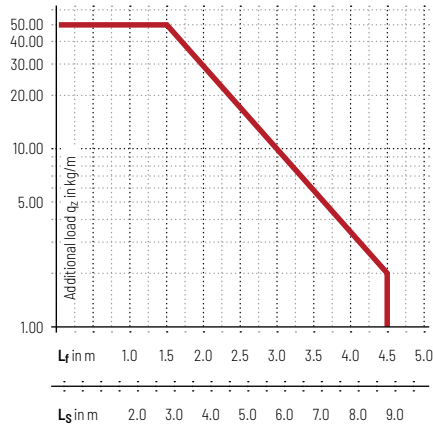
Unsupported arrangement

KR [mm]	H [mm]	H$_Z$ [mm]	L$_B$ [mm]	U$_B$ [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/s^2

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-Modul RKR [mm]	L$_B$ [mm]	U$_B$ [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^2

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. 844.

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

Cable carrier

Cable carrier configuration

Configuration guidelines

Materials information

MONO series

QuickTrax® series

UNIFLEX Advanced series

TKP35 series

TKK series

EasyTrax® series

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

Recommended max. Ø 64 mm

B_i

B_k

15

80

110

116.5

KR

snap-on glide shoes for extended travel lengths
$KR_{min} = 210$ mm

B_{EF}

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	.	020	.	150	.	210	–	3582		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
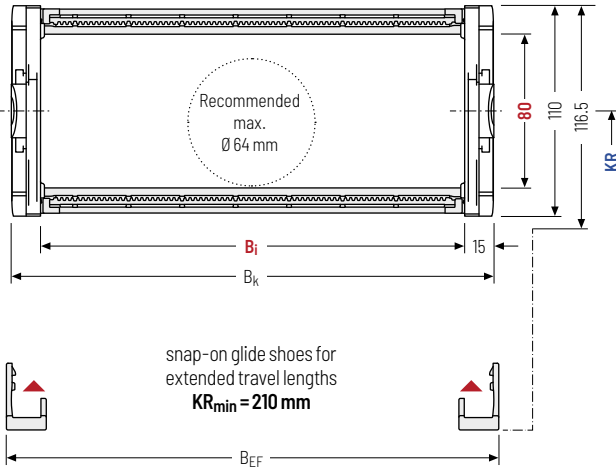
TKK series

EasyTrax® series

Stay variant 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

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

Recommended max. Ø 64 mm

80
110
116.5
KR

B_i
15
B_k

snap-on glide shoes for extended travel lengths
KR_{min} = 210 mm

B_{EF}

Calculating the cable carrier length

Cable carrier length L_k

$$L_k \approx \frac{L_S}{2} + L_B$$
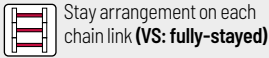
Cable carrier length L_k rounded to pitch t

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

Cable carrier

Cable carrier configuration

Configuration guidelines

Materials information

MONO series

QuickTrax® series

UNIFLEX Advanced series

TKP35 series

TKK series

EasyTrax® series

UA1995.040 | Dimensions · Technical data
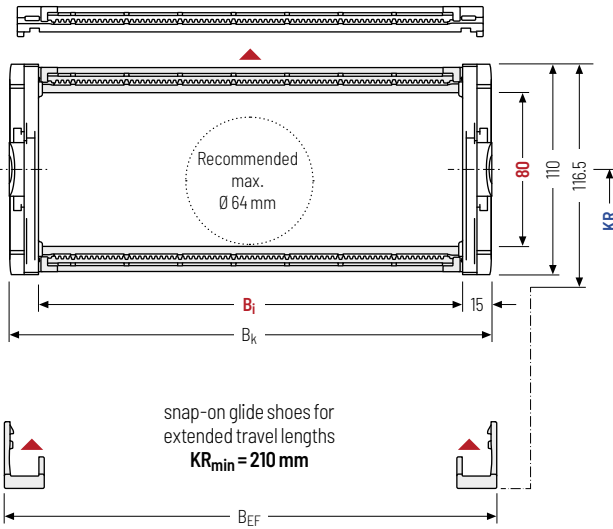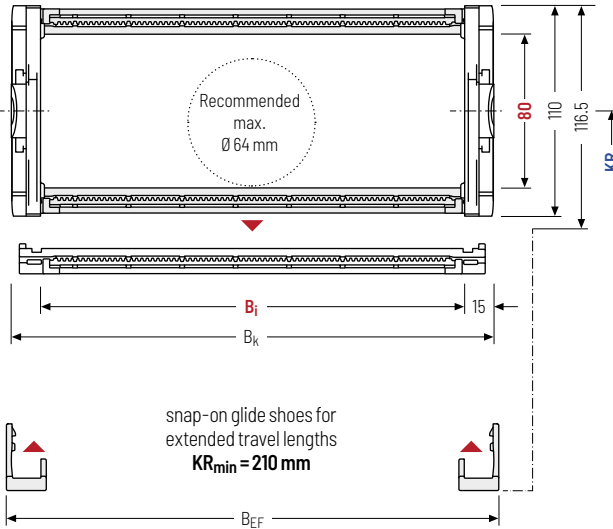
Stay variant 040 –
with inside detachable stays

» 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

Recommended max. Ø 64 mm

B_i

B_k

15

80

110

116.5

KR

snap-on glide shoes for extended travel lengths
KR_{min} = 210 mm

B_{EF}

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

Recommended max. Ø 64 mm
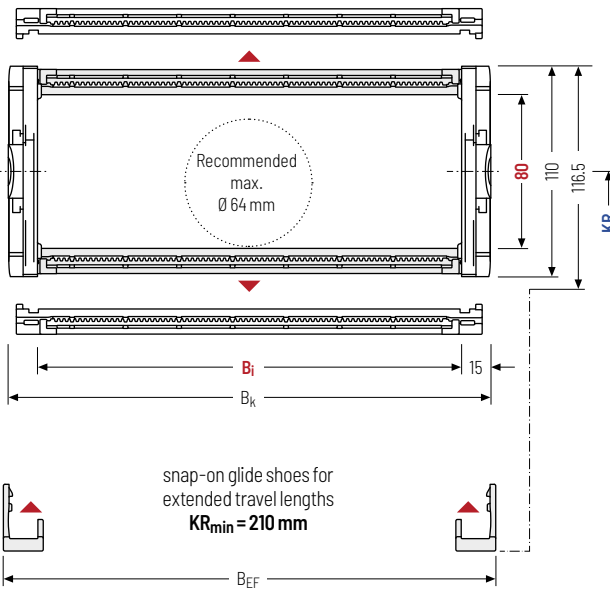
i The maximum cable diameter strongly depends on the bending radius and the desired cable type. Please contact us.

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

B_i

15

B_k

snap-on glide shoes for extended travel lengths
KR$_{min}$ = 210 mm

B_{EF}

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

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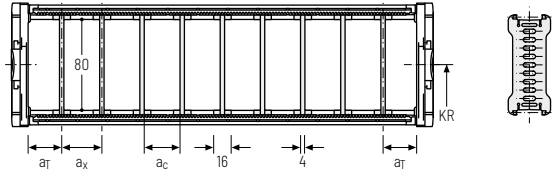
For applications with lateral acceleration and lying on the side, divider with arresting cams are available.
The locking cams click into place in the locking grids in the stays **(version B)**.

Divider system TS0 without height separation

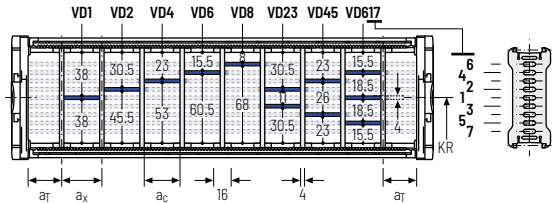| Vers.	$a_{T min}$ [mm]	$a_{x min}$ [mm]	$a_{c min}$ [mm]	$a_{x grid}$ [mm]	n_T min
A	10	16	12	–	–
B	10	17.5	13.5	2.5	–

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.
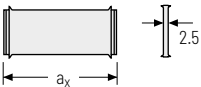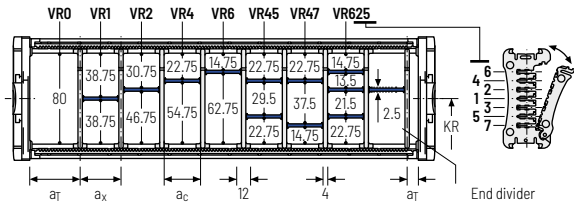
Divider version A

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.

2.5

a_x

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

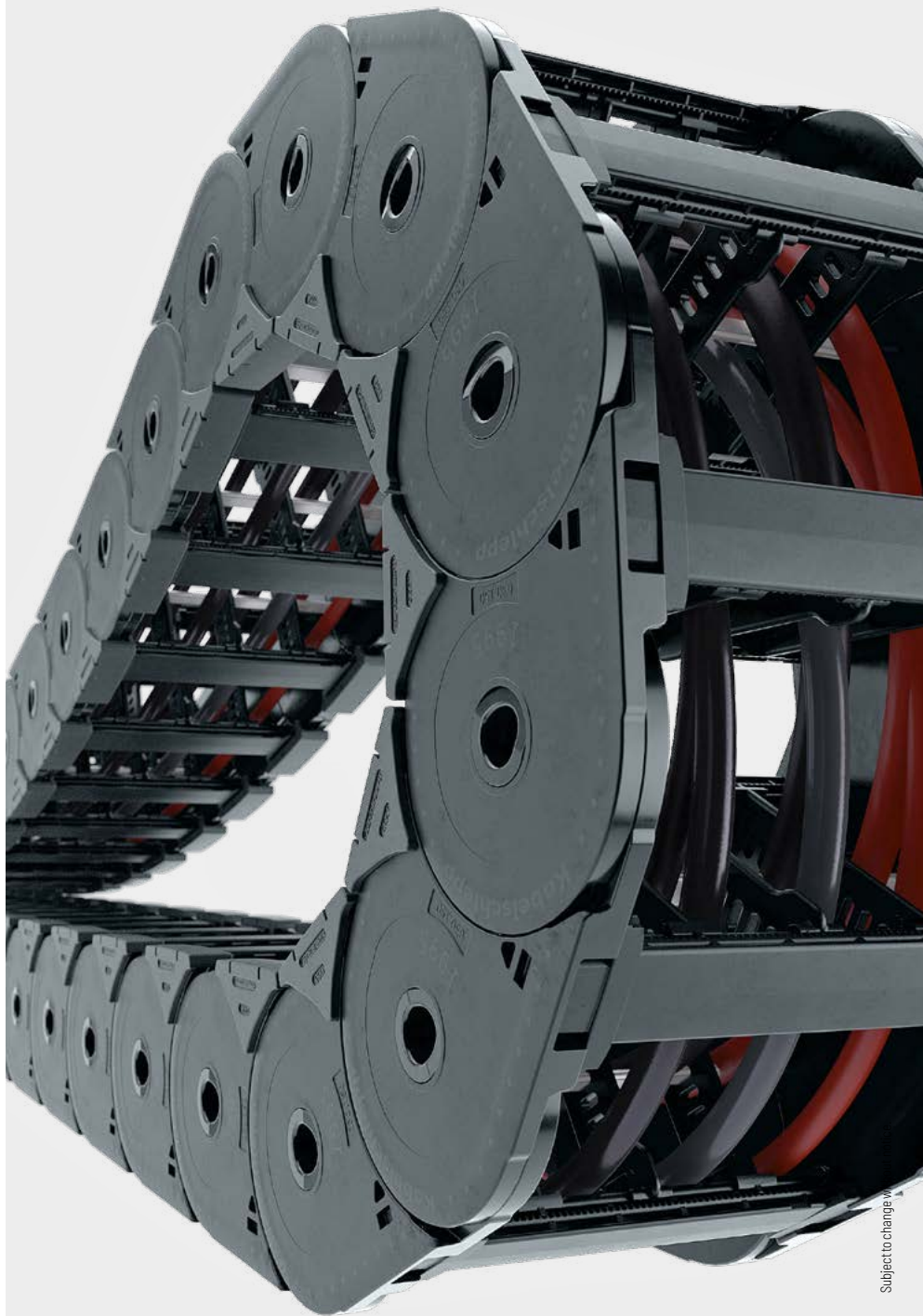| TS3	.	A	.	3	.	K1	.	34	-	VR1
						⋮		⋮		⋮
			.			K4	.	38	-	VR3
Divider system		Version		n_T		Chamber		a_x		Height separation

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.

Cable carrier

Cable carrier configuration

Configuration guidelines

Materials information

MONO series

QuickTrax® series

UNIFLEX Advanced series

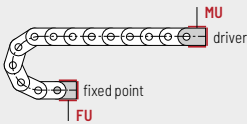TKP35 series

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

ℹ 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

ℹ We recommend the use of strain reliefs at the driver and fixed point. See from p. 904.

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

UNIFLEX *Advanced* **series**

Light and quiet all-rounder
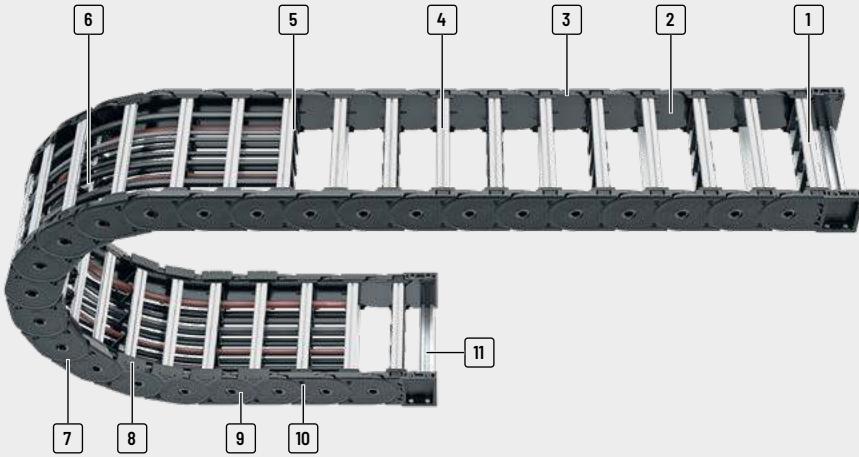
1 Aluminum stays available in **1 mm width sections**

2 Favourable ratio of inner to outer width

3 Chain link plates made of at least 35 % pure regranulate

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
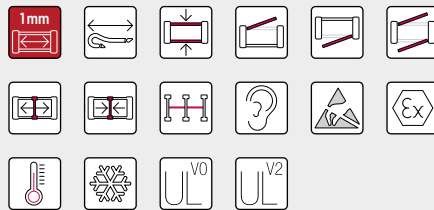
Replaceable glide shoes – optionally with automatic wear monitoring

UMB connectors made of sturdy plastic (strengths comparable to aluminium)
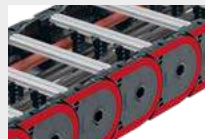
Lateral wear surfaces – for long service life for applications where the carrier is rotated through 90°

Rear grips at stopper for better force transmission and higher strengths

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] X mm	t [mm]	KR [mm]	Additional load ≤ [kg/m]	Cable-d_{max} [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 $\leq$ [m]	v_{max} $\leq$ [m/s]	a_{max} $\leq$ [m/s^2]	Travel length $\leq$ [m]	v_{max} $\leq$ [m/s]	a_{max} $\leq$ [m/s^2]	TS0	TS1	TS2	TS3	vertical hanging or standing	lying on the side	rotating arrangement	
9	10	25	200	8	20	•	–	–	•	•	•	•	342
9	10	25	200	8	20	•	•	–	•	•	•	•	343
9	10	25	200	8	20	•	•	–	•	•	•	•	344
9	10	25	200	8	200	•	•	–	•	•	•	•	345

PROTUM® series

K series

UNIFLEX Advanced series

M series

XL series

QUANTUM® series

TKR series

TKA series

UAT series

Subject to change without notice.

PROTUM® series

K series

UNIFLEX Advanced series

M 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
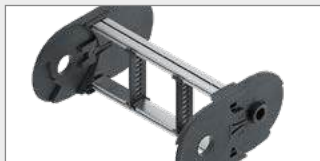
Design RSH 020 .... page **342**

Closed frame
» Aluminum profile bars for light to medium loads.
  Assembly without screws.
» **Outside/inside:** not openable.
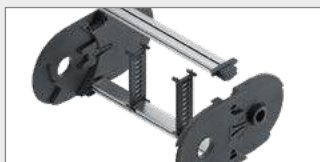
Design RSH 030 .... page **343**

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 **344**

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 **345**

Frame with outside and inside detachable stays
» Aluminum profile bars for light to medium loads.
  Assembly without screws.
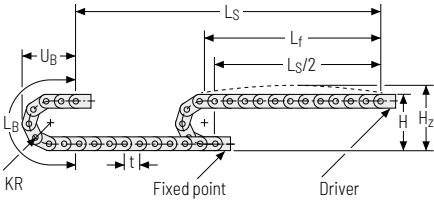» **Outside/inside:** release by rotating 90°.
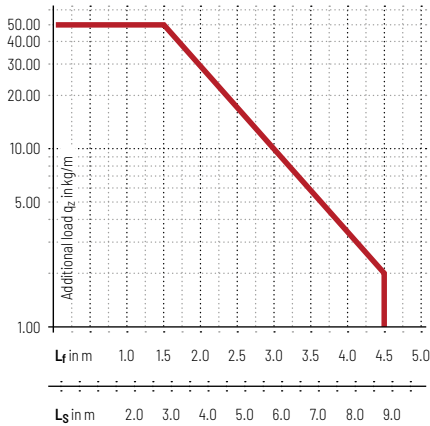
Unsupported arrangement

KR [mm]	H [mm]	H_z [mm]	L_B [mm]	U_B [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.
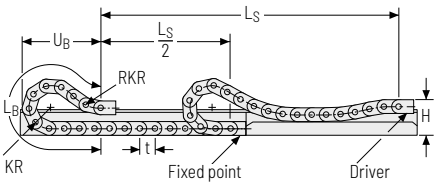
Sagging of the cable carrier is technically permitted for extended travel lengths, depending on the specific application.

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/s^2

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-Modul RKR [mm]	L_B [mm]	U_B [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^2

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. 844.

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

PROTUM® series

K series

UNIFLEX Advanced series

M series

XL series

QUANTUM® series

TKR series

TKA series

UAT series

PROTUM® series

K series

UNIFLEX Advanced series

M series

XL series

QUANTUM® series

TKR series

TKA series

UAT series

UA1995 RSH 020 | Dimensions · Technical data

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)**

1 mm B_i 66 – 600 mm in **1 mm width sections**

Recommended max. Ø 64 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

snap-on glide shoes for extended travel lengths
$KR_{min} = 210$ mm

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

Stay variant RSH 030 –
with outside detachable stays
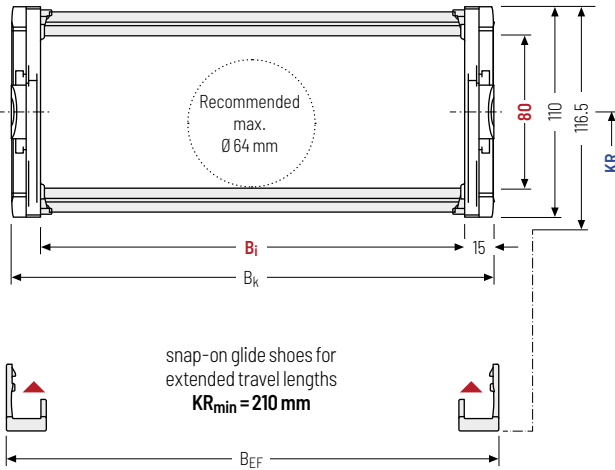
» Aluminum profile bars for light to medium loads. Assembly without screws.
» Available customized in **1 mm grid**.
» **Outside:** release by rotating 90°.

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

1 mm B_i 66 – 600 mm in **1 mm width sections**

Recommended max. Ø 64 mm

snap-on glide shoes for extended travel lengths
KR$_{min}$ = 210 mm

i 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

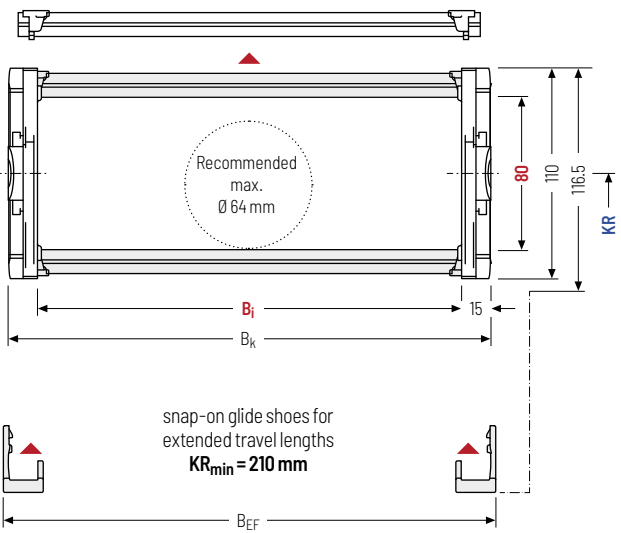* in 1 mm width sections

Order example

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

PROTUM® series

K series

UNIFLEX Advanced series

M series

XL series

QUANTUM® series

TKR series

TKA series

UAT series

UA1995 RSH 040 | Dimensions · Technical data

Stay variant RSH 040 –
with inside detachable stays
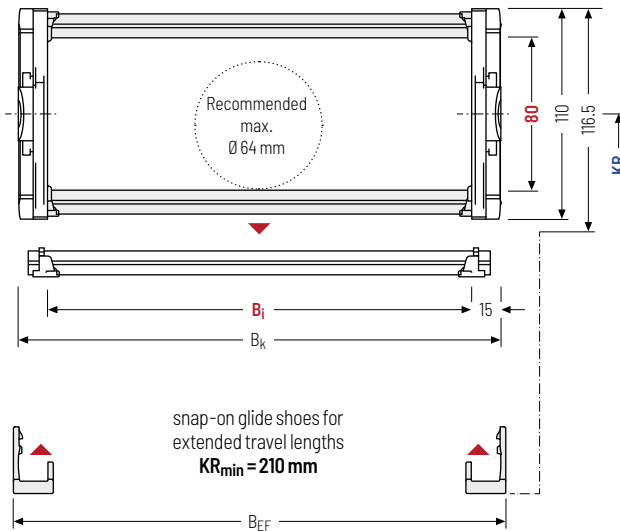
» Aluminum profile bars for light to medium loads. Assembly without screws.
» Available customized in **1 mm grid**.
» **Inside:** release by rotating 90°.

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

1 mm B_i 66 – 600 mm in **1 mm width sections**

Recommended max. Ø 64 mm

80
110
116.5

KR

B_i
B_k
15

snap-on glide shoes for extended travel lengths
KR_{min} = 210 mm

B_{EF}

ⓘ 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_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 040	.	210	–	3582	VS
Type		B_i [mm]		Stay variant		KR [mm]		L_k [mm]	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_i 66 – 600 mm in **1 mm width sections**
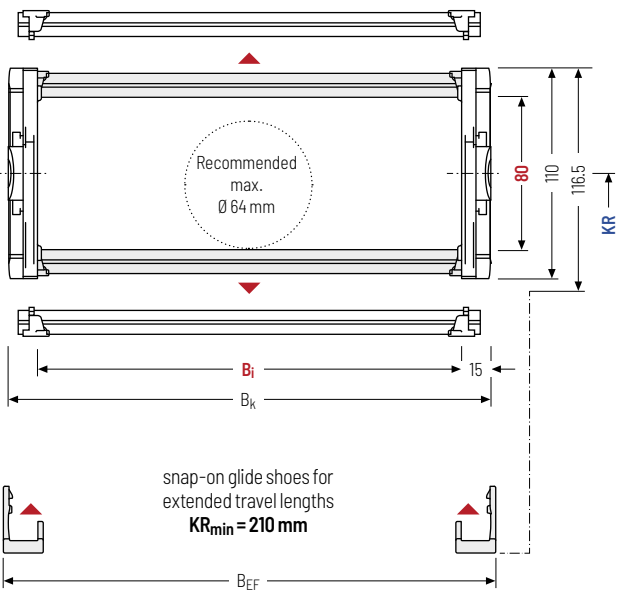
i The maximum cable diameter strongly depends on the bending radius and the desired cable type. Please contact us.

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

Recommended max. Ø 64 mm

B_i 15 B_k

snap-on glide shoes for extended travel lengths
KR_min = 210 mm

B_{EF}

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	4.211 – 4.216

* in 1 mm width sections

Order example

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

PROTUM® series

K series

UNIFLEX Advanced series

M series

XL series

QUANTUM® series

TKR series

TKA series

UAT series

346

PROTUM® series

K series

UNIFLEX Advanced series

M series

XL series

QUANTUM® series

TKR series

TKA series

UAT series

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)**.

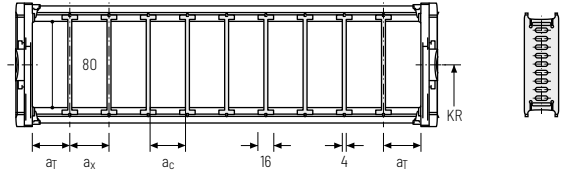For applications with lateral acceleration and lying on the side, the dividers can be attached by a fixing profile, available as an accessory **(version B)**. The fixing profile must be installed at the factory.

Divider system TS0 without height separation

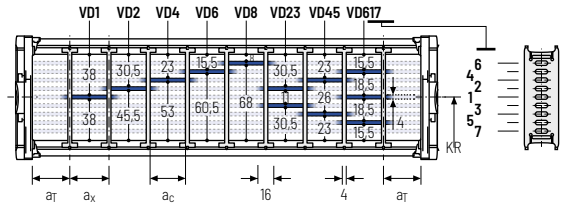| Vers.	$a_{T\,min}$ [mm]	$a_{x\,min}$ [mm]	$a_{c\,min}$ [mm]	$a_{x\,grid}$ [mm]	n_T min
A	10	16	12	–	–
B	10	17.5	13.5	2.5	–

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.
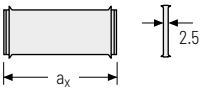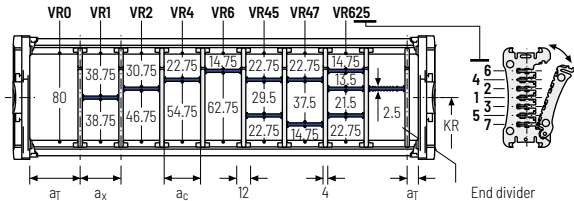
Divider version A

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.

| VR0 VR1 VR2 VR4 VR6 VR45 VR47 VR625 | End divider |

Value	
80	
38.75 30.75 22.75 14.75 22.75 22.75 14.75	
38.75 46.75 54.75 62.75 22.75 14.75 22.75	
29.5 37.5 21.5	
13.5 2.5	

a_T a_x a_c 12 4 a_T KR

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 $a_x > 49\,mm$**.

a_x 2.5

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.

PROTUM® series

K series

UNIFLEX Advanced series

M series

XL series

QUANTUM® series

TKR series

TKA series

UAT series

UA1995 | End connectors
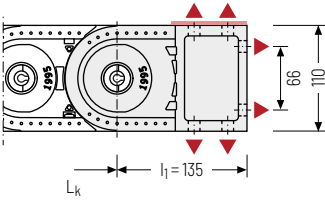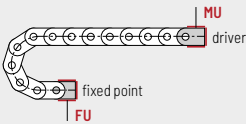
Universal end connectors UMB – plastic (standard)

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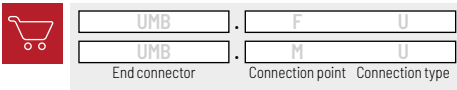
▲ Assembly options

i Recommended tightening torque:
27 Nm for screws M8

MU driver

Connection point
F – fixed point
M – driver

Connection type
U – Universal mounting bracket

fixed point
FU

Order example

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

i We recommend the use of strain reliefs at the driver and fixed point. See from p. 904.

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

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