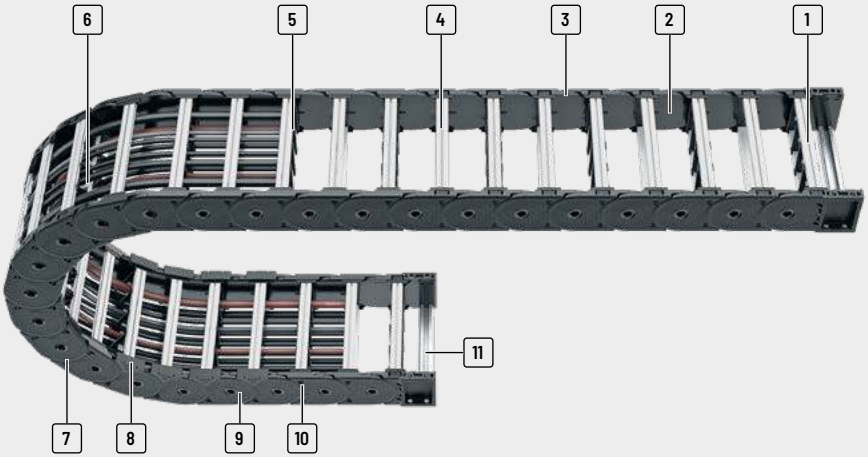
UNIFLEX *Advanced* **series**

Light and quiet all-rounder

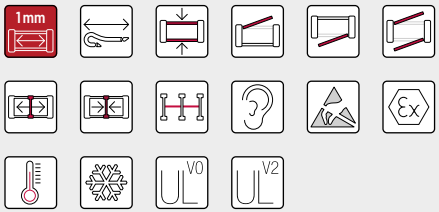
TSUBAKI ECO LINK



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

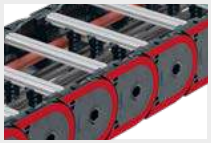
Features

» 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]	$B_{i\text{-}grid}$ [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

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	
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

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°.

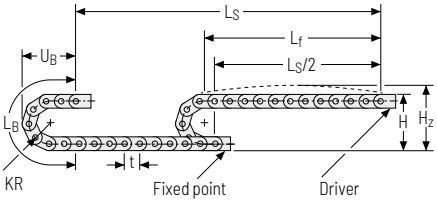
Design RSH 040 ..... page **344**

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

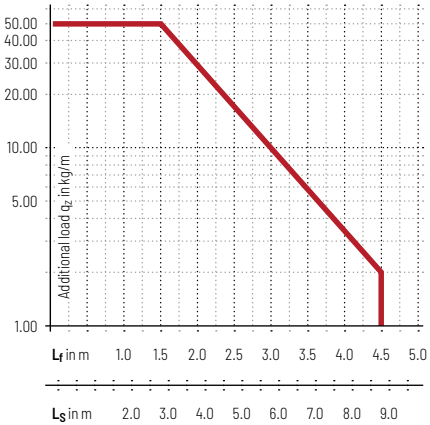


KR [mm]	H [mm]	H_Z [mm]	L_B [mm]	U_B [mm]
150	410	440	680	250
210	530	560	860	310
250	610	640	990	350
300	710	740	1150	400
350	810	840	1300	450
400	910	940	1460	500
500	1110	1140	1770	600

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.



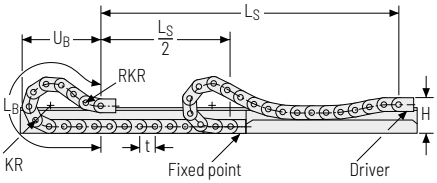
Speed
up to 10 m/s

Acceleration
up to 25 m/s²

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/s²

Travel length
up to 200 m

Additional load
up to 50 kg/m

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

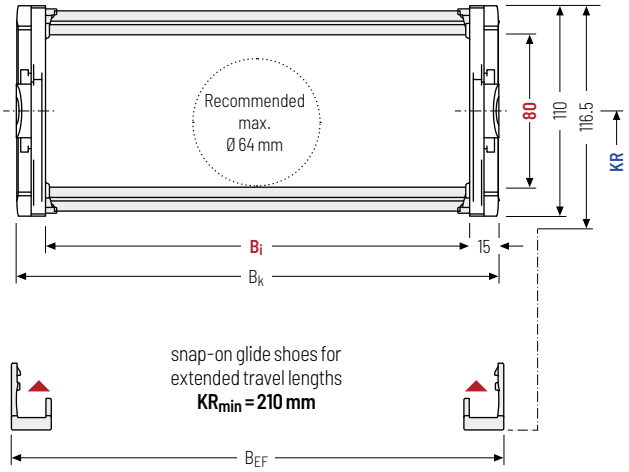
UA1995 RSH 020 | Dimensions · Technical data

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**



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**	4.168 – 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

UA1995 RSH 030 | Dimensions · Technical data

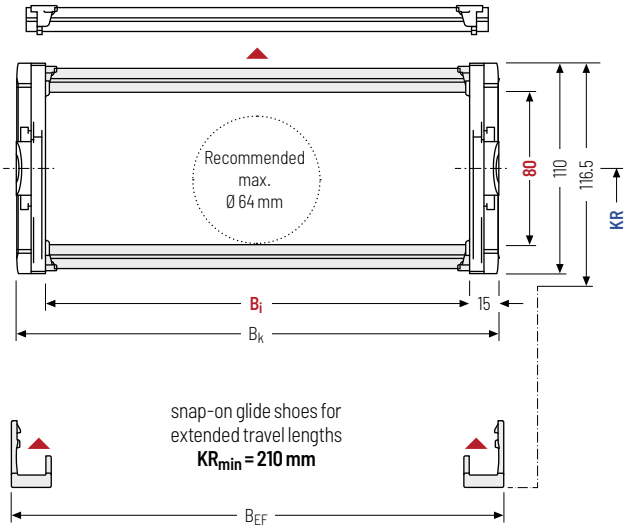
Stay variant RSH 030 –
with outside detachable stays

- 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**



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

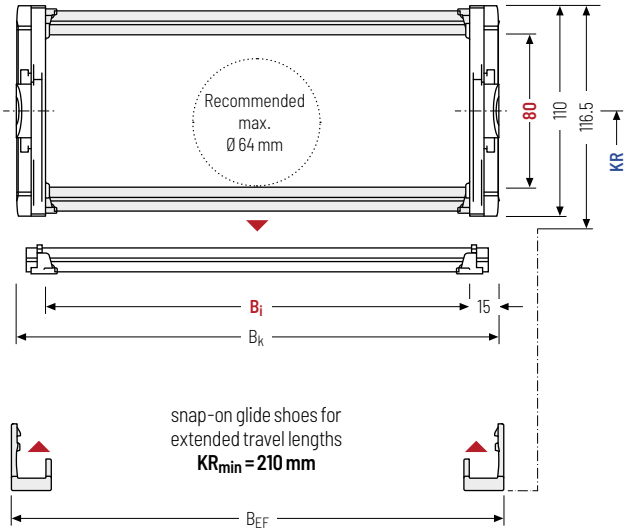
UA1995 RSH 040 | Dimensions · Technical data

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**



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

UA1995 RSH 070 | Dimensions · Technical data

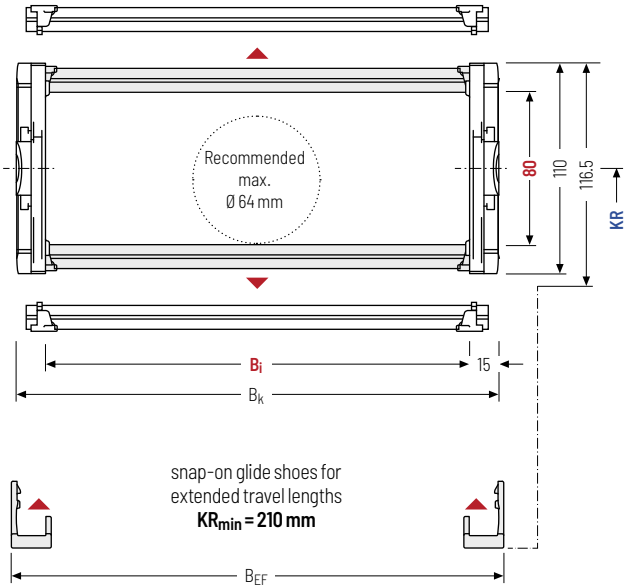
Stay variant RSH 070 – with outside and inside detachable stays

- 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**



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

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

Calculating the cable carrier length

Cable carrier length L_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

Divider systems

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

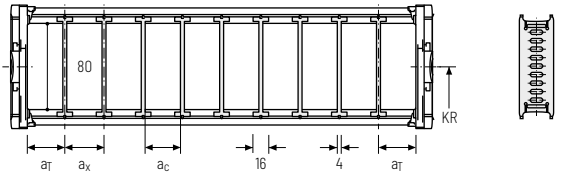
As a standard, dividers or the complete divider system (dividers with height separations) are movable in the cross section **(version A)**.

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	–

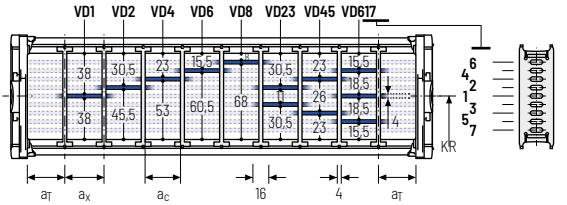
Number of dividers for design 020 depending on B_i



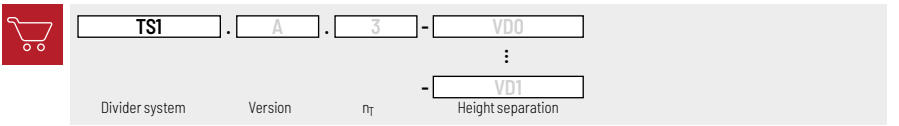
Divider system TS1 with continuous height separation*

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



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

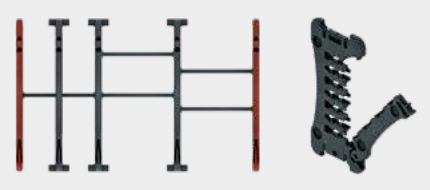
When using divider systems with height separation (TS1), please additionally state the position (e.g. VD1) viewed from the left driver belt. You are welcome to add a sketch to your order.

Divider system TS3 with height separation consisting of plastic partitions

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

Divider version A

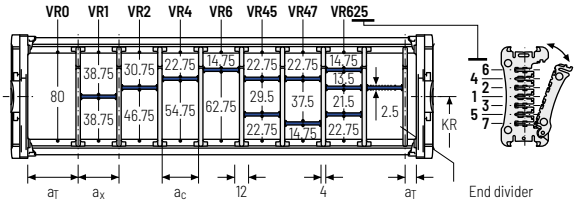
End divider

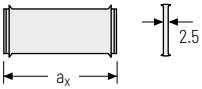


Vers.	$a_{T\,min}$ [mm]	$a_{x\,min}$ [mm]	$a_{C\,min}$ [mm]	$n_{T\,min}$
A	8 / 4*	14	10	2

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

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





a_x (center distance of dividers) [mm]

a_C (nominal width of inner chamber) [mm]

14	**16**	**19**	**23**	**24**	**28**	**29**	**32**	**33**	**34**	**38**	**39**	**43**	**44**	**48**	**49**	**54**
10	12	15	19	20	24	25	28	29	30	34	35	39	40	44	45	50
58	**59**	**64**	**68**	**69**	**74**	**78**	**79**	**80**	**84**	**88**	**89**	**94**	**96**	**99**	**112**	
54	55	60	64	65	70	74	75	76	80	84	85	90	92	95	108	

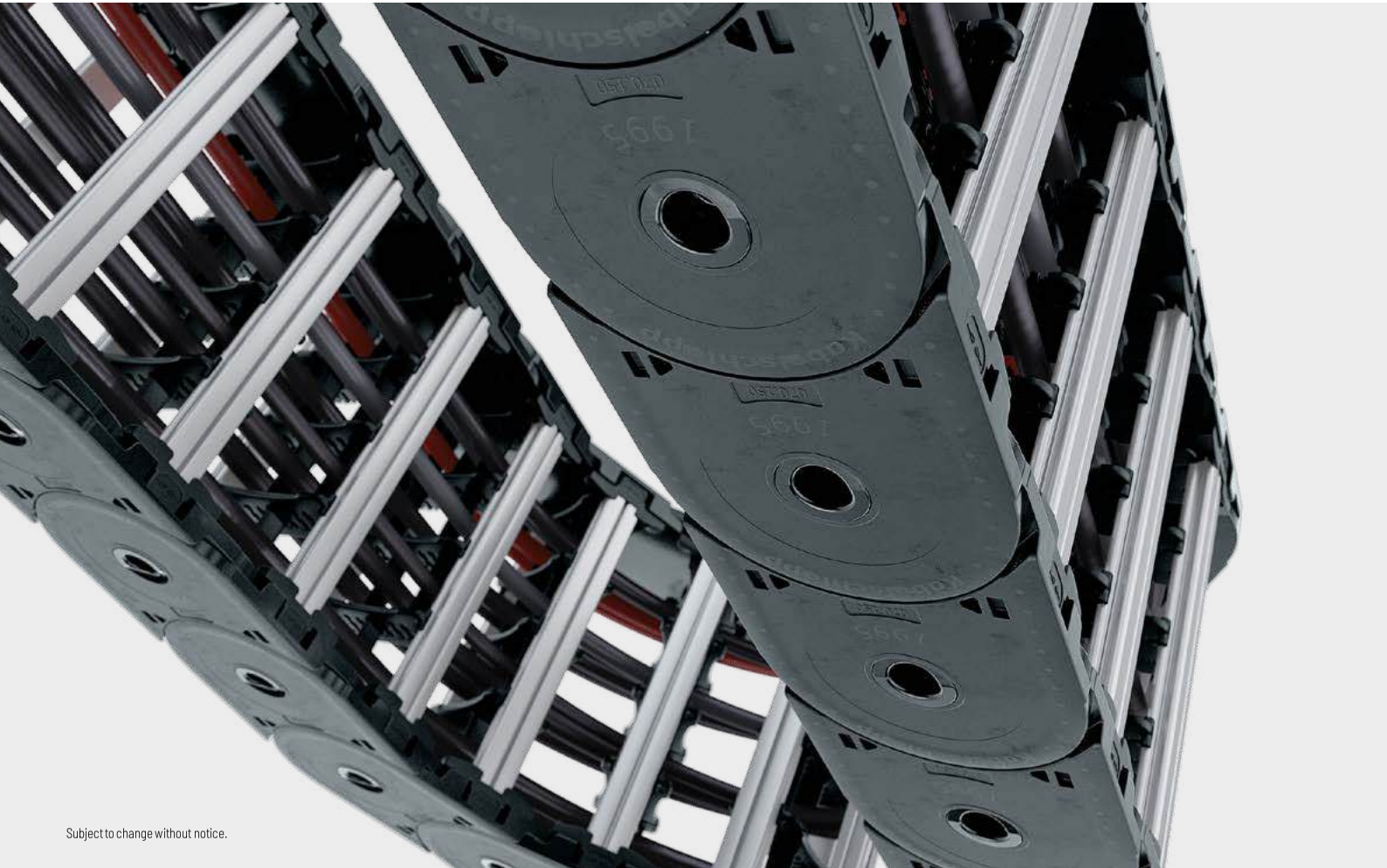
An additional central support is required when using **plastic partitions with a_x > 49 mm**.

Order example

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

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

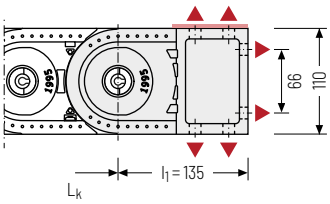
If using divider systems with height separation **(TS1, TS3)** please also state the positions [e.g. VD23] viewed from the left driver belt. You are welcome to add a sketch to your order.

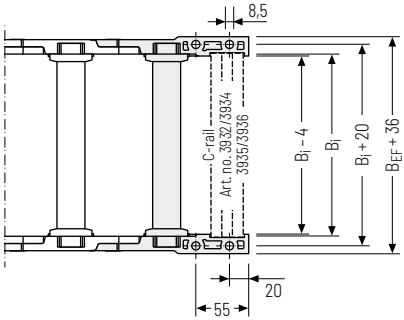


Subject to change without notice.

Universal end connectors UMB – plastic (standard)

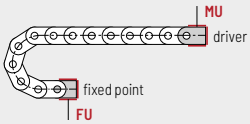
The universal mounting brackets (UMB) are made from plastic and can be mounted **from above, from below or on the face side**.





▲ Assembly options

Recommended tightening torque:
27 Nm for screws M8



Connection point
F – fixed point
M – driver

Connection type
U – Universal mounting bracket

Order example

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

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