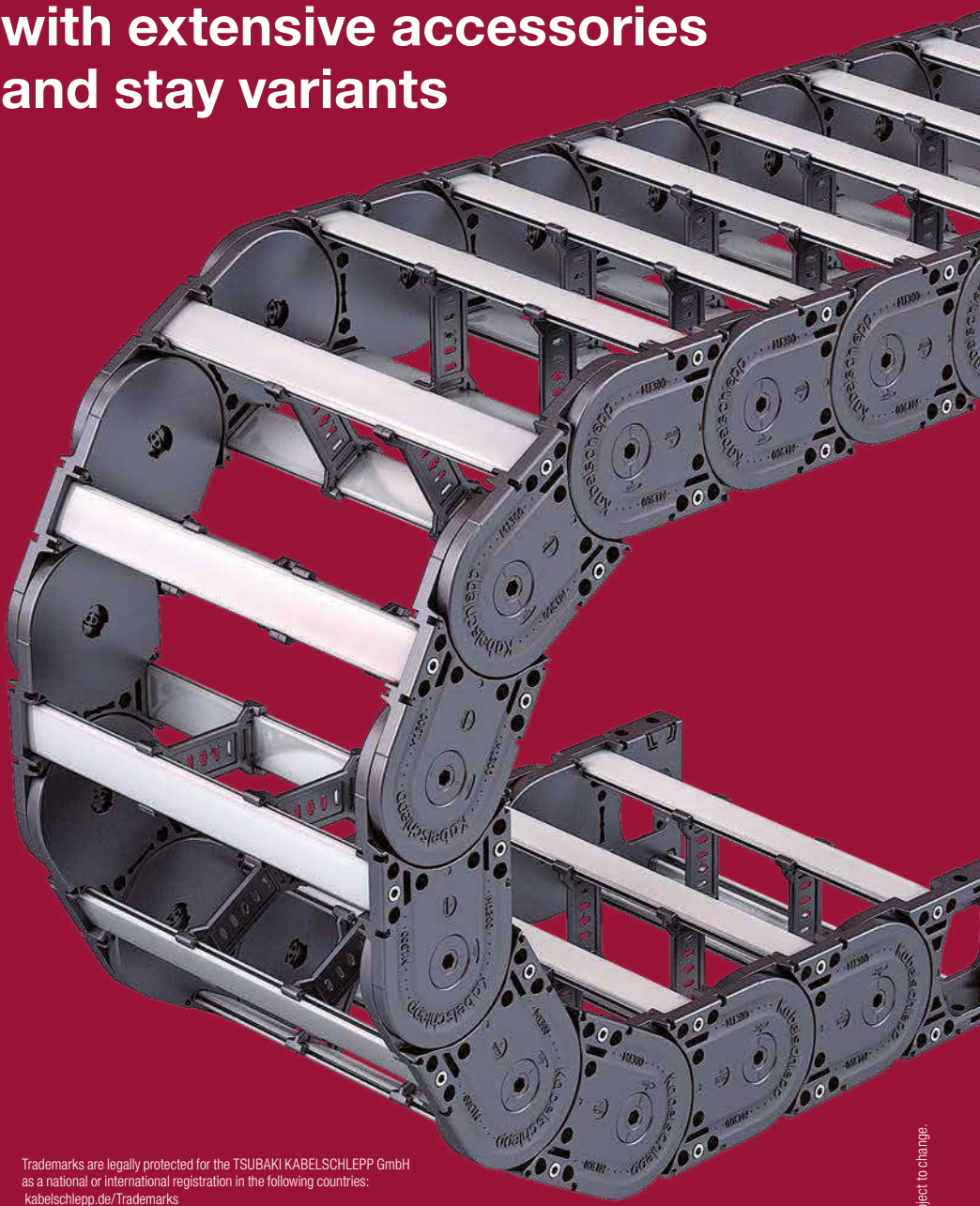
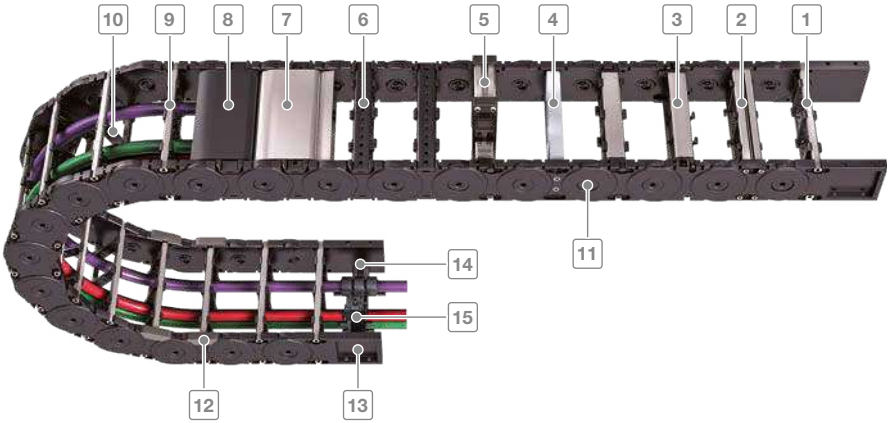
M series

Variable cable carrier with extensive accessories and stay variants



M series | Overview



1 Aluminum stays available in **1 mm width sections**

2 4-fold bolted aluminum stays for extreme loads

3 Aluminum stays with ball joint

4 Aluminum hole stays

5 Mounting frame stays

6 Plastic stays available in **4, 8** or **16 mm width sections**

7 Aluminum cover available in **1 mm width sections**

8 Plastic cover available in **8** or **16 mm width sections**

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

10 Fixable dividers

11 Locking bolts

12 Replaceable glide shoes

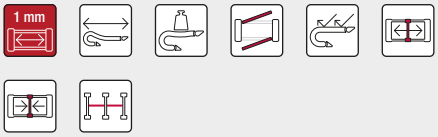
13 Universal end connectors (UMB)

14 C-rail for strain relief elements

15 Strain relief combs

Features

- Encapsulated, dirt-resistant stroke system
- Durable sidebands through robust link plate design
- Easy assembly of side bands through bars with easy-to-assemble locking bolts
- Long service life due to minimized hinge wear owing to the “life extending 2 disc principle“
- Large selection of vertical and horizontal stay systems and dividing options for your cables
- Versions with aluminum stays in 1 mm width sections up to 800 mm inner width
- Versions with plastic stays available in 4, 8 or 16 mm width sections



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

Sturdy link plate design, encapsulated stroke system

Easy to assemble through locking bolts

Replaceable glide shoes for long service life for gliding applications

M series | Overview

Key for abbreviations on page 16

Design guidelines from page 62

Technical support:
technik@kabelschlepp.de

Type	Opening variant	Stay variant	h_i [mm]	h_G [mm]	B_i [mm]	B_k [mm]	$B_{i\text{-}grid}$ [mm] X mm	t [mm]	KR [mm]	Additional load ≤ [kg/m]	Cable-d_{max} [mm]
M0320											
		RS 01	19	27.5	25 – 280	36 – 291	1	32	37 – 200	2.5	15
		RS 02	19	27.5	25 – 280	36 – 291	1	32	37 – 200	2.5	15
		RE	19	27.5	25 – 189	36 – 200	4	32	37 – 200	2.5	15
M0475											
		RD 01	28	39	24 – 280	41 – 297	8	47.5	55 – 300	3.0	22
		RD 02	28	39	24 – 280	41 – 297	8	47.5	55 – 300	3.0	22
M0650											
		RS	38	57	75 – 400	109 – 434	1	65	75 – 350	25	30
		LG	–	57	75 – 500	109 – 534	1	65	75 – 350	25	29
		RMA	38 (200)	57 (224)	200 – 400	234 – 434	1	65	75 – 350	25	–
		RE	42	57	50 – 266	84 – 300	8	65	75 – 350	25	33
		RD	42	57	50 – 266	84 – 300	8	65	75 – 350	25	33
M0950											
		RS	58	80	75 – 400	114 – 439	1	95	140 – 380	35	46
		RV	58	80	75 – 500	114 – 539	1	95	140 – 380	35	46
		RM	54	80	75 – 600	114 – 639	1	95	140 – 380	35	43
		LG	–	80	75 – 600	114 – 639	1	95	140 – 380	35	38
		RMA	58 (200)	80 (224)	200 – 500	239 – 539	1	95	140 – 380	35	–
		RMR	51	80	75 – 600	114 – 639	1	95	140 – 380	35	46
		RE	58	80	45 – 557	84 – 596	16	95	140 – 380	35	46
		RD	58	80	45 – 557	84 – 596	16	95	140 – 380	35	46

* Additional information can be found in our technical manual.

Unsupported arrangement			Gliding arrangement			Inner distribution				Installation variants			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	
2.8	10	50	80	2.5	25	●	●	–	–	●	●	●	318
2.8	10	50	80	2.5	25	●	●	–	–	●	●	●	318
2.8	10	50	80	2.5	25	●	●	–	–	●	●	●	320
2.7	10	50	–	–	–	●	●	●	–	●	●	●	326
2.7	10	50	–	–	–	●	●	●	–	●	●	●	328
4.8	10	40	220	8	20	●	●	●	●	●	●	●	334
4.8	10	40	220	8	20	–	–	–	–	●	●	●	*
4.8	10	40	220	8	20	●	–	–	–	●	●	–	*
4.8	10	40	220	8	20	●	●	–	●	●	●	●	338
4.8	10	40	220	8	20	●	●	–	●	●	●	●	*
7.4	10	30	260	8	20	●	●	●	●	●	●	●	344
7.4	10	30	260	8	20	●	●	●	●	●	–	●	348
7.4	10	30	260	8	20	●	●	●	–	●	●	●	352
7.4	10	30	260	8	20	–	–	–	–	●	●	●	*
7.4	10	30	260	8	20	●	–	–	–	●	●	–	*
7.4	10	30	260	8	20	●	–	–	–	●	●	●	*
7.4	10	30	260	8	20	●	●	●	●	●	●	●	354
7.4	10	30	260	8	20	●	●	●	●	●	●	●	*

M series | Overview

Key for abbreviations on page 16

Design guidelines from page 62

Technical support:
technik@kabelschlepp.de

Type	Opening variant	Stay variant	h_i [mm]	h_G [mm]	B_i [mm]	B_k [mm]	$B_{i\text{-}grid}$ [mm] X mm	t [mm]	KR [mm]	Additional load ≤ [kg/m]	Cable-d_{max} [mm]
M1250											
		RS	72	96	75 – 400	120 – 445	1	125	180 – 500	65	61
		RV	72	96	100 – 600	145 – 645	1	125	180 – 500	65	61
		RM	69	96	100 – 800	145 – 845	1	125	180 – 500	65	59
		LG	–	96	100 – 800	145 – 845	1	125	180 – 500	65	59
		RMA	72 (200)	96 (226)	200 – 800	245 – 845	1	125	180 – 500	65	–
		RMR	66	96	100 – 800	145 – 845	1	125	180 – 500	65	54
		RE	72	96	71 – 551	116 – 596	16	125	180 – 500	65	61
		RD	72	96	71 – 551	116 – 596	16	125	180 – 500	65	61
M1300											
		RMF	87	120	100 – 800	150 – 850	1	130	150 – 500	70	75
		RMS	87	120	100 – 800	150 – 850	1	130	150 – 500	70	75
		RM	87	120	100 – 800	150 – 850	1	130	150 – 500	70	75
		LG	–	120	100 – 800	150 – 850	1	130	150 – 500	70	74

* Additional information can be found in our technical manual.

Technical manual

Do you need more information on the M series?
Our technical manual with all information on configuring your cable carrier can be found at **tsubaki-kabelschlepp.com/download**.

Unsupported arrangement			Gliding arrangement			Inner distribution				Installation variants			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	
9.7	5	25	320	2	2 – 3	●	●	–	●	●	●	●	360
9.7	5	25	320	2	2 – 3	●	●	●	●	●	–	●	364
9.7	5	25	320	2	2 – 3	●	●	●	–	●	●	●	368
9.7	5	25	320	2	2 – 3	–	–	–	–	●	●	●	*
9.7	5	25	320	2	2 – 3	●	–	–	–	●	●	–	*
9.7	5	25	320	2	2 – 3	●	–	–	–	●	●	●	*
9.7	5	25	320	2	2 – 3	●	●	●	●	●	●	●	370
9.7	5	25	320	2	2 – 3	●	●	●	●	●	●	●	*
10.8	5	25	350	5	20	●	●	–	●				376
10.8	5	25	350	5	20	●	●	–	●	●	●	●	378
10.8	5	25	350	5	20	●	●	–	●	●	●	●	*
10.8	5	25	350	5	20	–	–	–	–	●	●	●	*

M0320

Pitch
32 mm

Inner height
19 mm

Inner widths
25 – 280 mm

Bending radii
37 – 200 mm

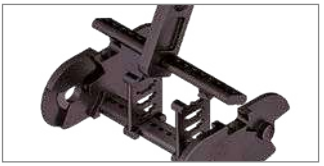
Stay variants

Aluminum stay 01 ..... page 318

Frame stay detachable inside
- Aluminum profile bars for light to medium loads. Assembly without screws.
- **Inside:** release by turning by 90°.

Aluminum stay 02 ..... page 318

Frame stay detachable outside "the standard"
- Aluminum profile bars for light to medium loads. Assembly without screws.
- **Outside:** release by turning by 90°.



Plastic stay RE ..... page 320

Frame screw-in stay
- Plastic profile bars for light to medium loads. Assembly without screws.
- **Inside/outside:** release by turning by 90°.

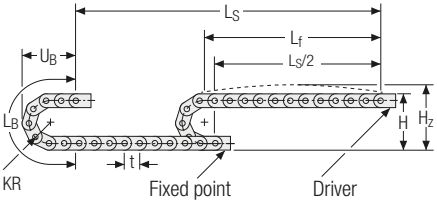
More product information online

Assembly instructions etc.: Additional info via your smartphone or check online at **tsubaki-kabelschlepp.com/support**

Configure your custom cable carrier here: **online-engineer.de**

M0320 | Installation dim. | Unsupported · Gliding

Unsupported arrangement

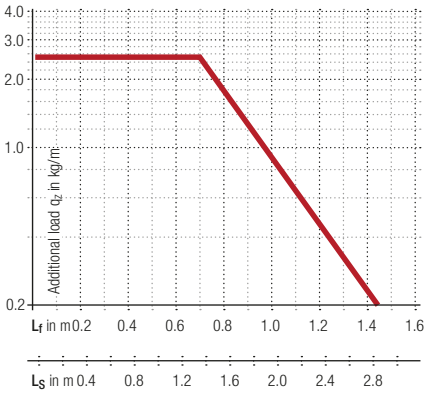


KR [mm]	H [mm]	H_Z [mm]	L_B [mm]	U_B [mm]
37	101.5	121.5	181	83
47	121.5	141.5	212	93
77	181.5	201.5	306	123
100	227.5	247.5	379	146
200	427.5	427.5	693	246

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 = 0.54 kg/m. For other inner widths, the maximum additional load changes.



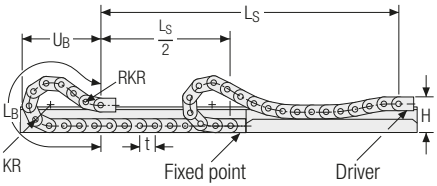
Speed
up to 10 m/s

Acceleration
up to 50 m/s²

Travel length
up to 2.8 m

Additional load
up to 2.5 kg/m

Gliding arrangement



Speed
up to 2.5 m/s

Acceleration
up to 25 m/s²

The gliding cable carrier must be guided in a channel. See p. 732.

Travel length
up to 80 m

Additional load
up to 2.5 kg/m

Our technical support can provide help for gliding arrangements:
technik@kabelschlepp.de

Key for abbreviations on page 16

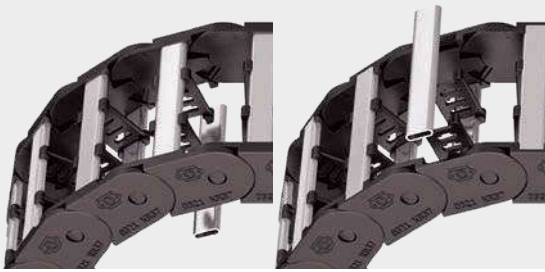
Design guidelines from page 62

Technical support:
technik@kabelschlepp.de

MC0320 01/02 | Dimensions · Technical data

Aluminum stay 01/02 –
frame stay detachable outside

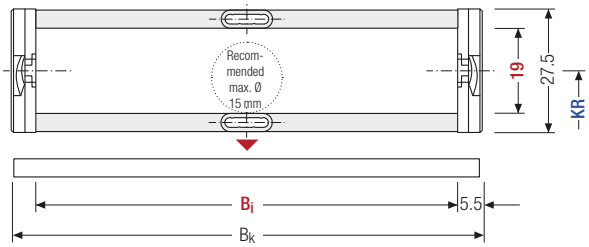
- Extremely quick to open and close
- Aluminum profile bars for light to medium loads. Assembly without screws.
- Available customized in **1 mm grid**.
- **Outside/inside:** release by turning by 90°.



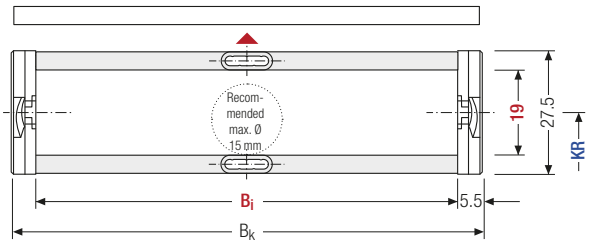
Stay arrangement on each chain link **(VS: fully-stayed)**

1 mm
B_i 25 – 280 mm in **1 mm width sections**

Aluminum stay 01 frame stay detachable inside



Aluminum stay 02 frame stay detachable outside



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]
19	27.5	25 – 280	B_i + 11	37	47	77	100	200	0.47 – 1.70

* in 1 mm width sections

Order example

MC0320	.	200	.	01	.	100	-	1152	VS
Type		B_i [mm]		Stay variant		KR [mm]		L_k [mm]	Stay arrangement

Divider systems

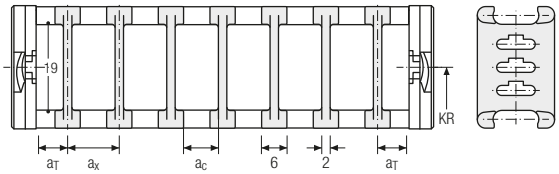
As a standard, the divider system is mounted on each crossbar – for stay mounting on every 2nd chain link (HS).

As a standard, dividers and the complete divider system (dividers with height separations) can be moved in the cross section **(version A).**

Divider system TS0 without height separation

Vers.	$a_{T\,min}$ [mm]	$a_{x\,min}$ [mm]	$a_{C\,min}$ [mm]	$n_{T\,min}$
A	3	6	4	–

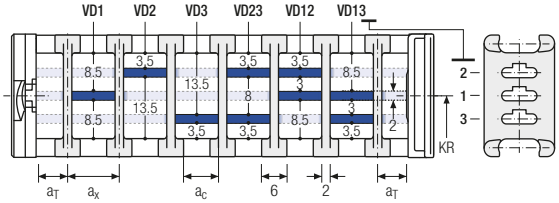
The dividers can be moved in the cross section.



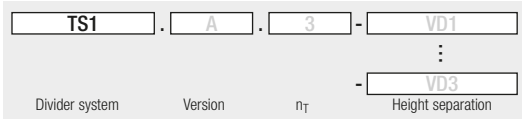
Divider system TS1 with continuous height separation

Vers.	$a_{T\,min}$ [mm]	$a_{T\,max}$ [mm]	$a_{x\,min}$ [mm]	$a_{C\,min}$ [mm]	$n_{T\,min}$
A	3	20	6	4	2

The dividers can be moved in the cross section.



Order example



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

If using divider systems with height separation **(TS1)** please also state the positions [e.g. VD1] viewed from the left driver belt. You are welcome to add a sketch to your order.

Key for abbreviations on page 16

Design guidelines from page 62

Technical support:
technik@kabelschlepp.de

ME0320 RE | Dimensions · Technical data

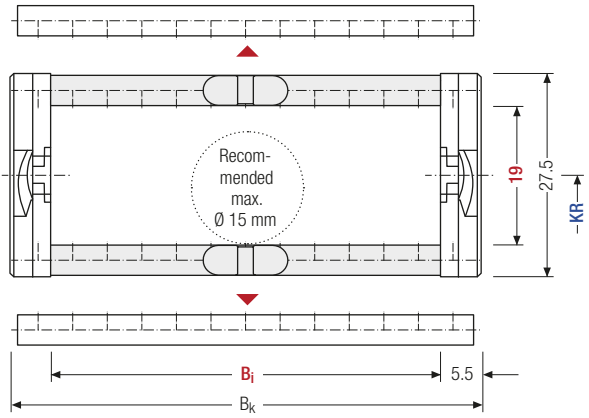
Plastic stay RE –
screw-in frame stay

- Plastic profile bars for light to medium loads. Assembly without screws.
- Available customized in **4 mm grid**.
- **Outside/inside:** release by turning by 90°.

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

4 mm

B_i 25 – 189 mm in **4 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]	B_i [mm]												B_k [mm]	KR [mm]		q_k [kg/m]
19	27.5	25	29	33	37	41	45	49	53	57	61	65		B_i + 11	37	47	0.46 – 1.00
		69	73	77	81	85	89	93	97	101	105	109			77	100	
		113	117	121	125	129	133	137	141	145	149				200		

For B_i > 149 mm we recommend a multi-band chain.

Order example

ME0320	.	105	.	RE	.	100	-	1152		VS
Type		B_i [mm]		Stay variant		KR [mm]		L_k [mm]		Stay arrangement

Divider systems

As a standard, the divider system is mounted on each crossbar – for stay mounting on every 2nd chain link (HS).

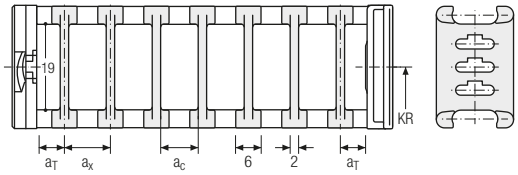
As a standard, dividers and the complete divider system (dividers with height separations) can be moved in the cross section **(version A).**

The dividers are easily attached to the stay for applications with lateral acceleration and for applications laying on their side by simply turning the frame stay by 180°. The arresting cams click into place in the locking grids in the crossbars **(version B)**.
The groove in the frame stay faces outwards.

Divider system TS0 without height separation

Vers.	$a_{T\,min}$ [mm]	$a_{x\,min}$ [mm]	$a_{C\,min}$ [mm]	$a_{x\,grid}$ [mm]	$n_{T\,min}$
A	3	6	4	–	–
B	4.5	8	6	4	–

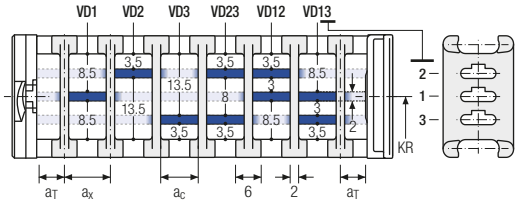
The dividers can be moved in the cross section.



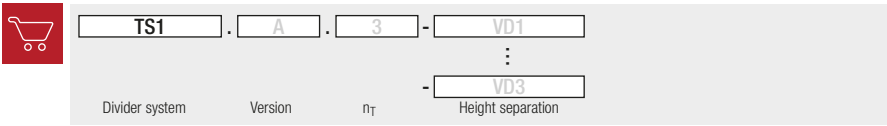
Divider system TS1 with continuous height separation

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	20	6	4	–	2
B	4.5	20.5	8	6	4	2

The dividers can be moved in the cross section.



Order example



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

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

M0320 | End connectors

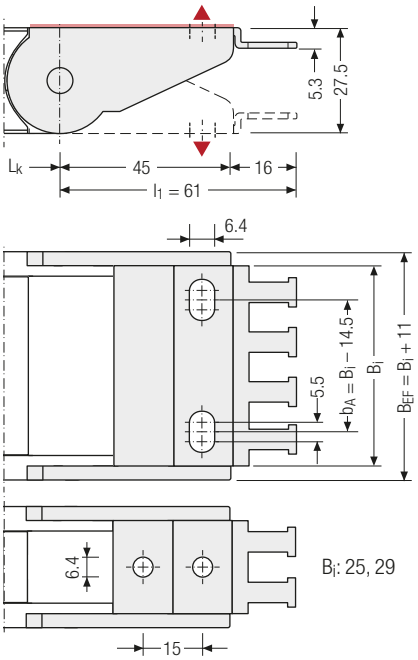
Key for abbreviations on page 16

Design guidelines from page 62

Technical support:
technik@kabelschlepp.de

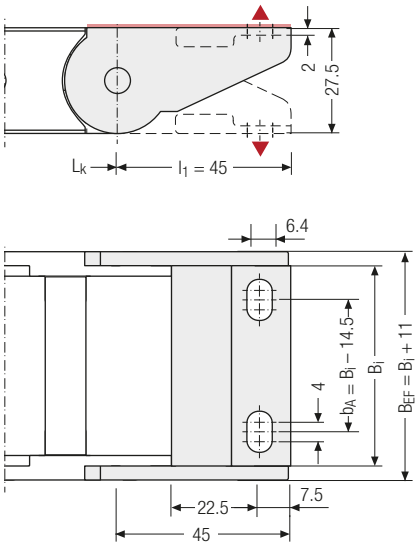
One part end connectors – plastic/aluminum (with integrated strain relief)

The plastic/aluminum end connectors can be **connected from above or below**. The connection variants on the fixed point and on the driver can be combined and, if required, changed afterwards.



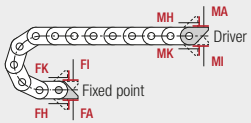
One-part end connectors – plastic/aluminum

The plastic/aluminum end connectors can be **connected from above or below**. The connection variants on the fixed point and on the driver can be combined and, if required, changed afterwards.



▲ Assembly options

Bi [mm]	nz	Bi [mm]	nz	Bi [mm]	nz	Bi [mm]	nz
25	2	39	4	89	7	149	11
29	2	49	4	109	8		
37	3	69	5	124	10		



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

Plastic/aluminum	.	F	A
Plastic/aluminum	.	M	A
End connector		Connection point	Connection type

We recommend the use of strain reliefs before driver and fixed point. See from p. 794.

M0475

Pitch
47.5 mm

Inner height
28 mm

Inner widths
24 – 280 mm

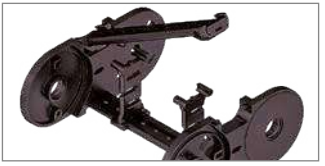
Bending radii
55 – 300 mm

Stay variants

Plastic stay RD 01 page 326

Frame stay with hinge in the inner radius

- Plastic profile bars with hinge for light to medium loads. Assembly without screws.
- **Outside:** release by turning by 90°.
- **Inside:** swivable to both sides.



Plastic stay RD 02 page 328

Frame stay with hinge in the outer radius

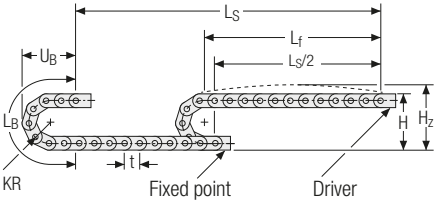
- Plastic profile bars with hinge for light to medium loads. Assembly without screws.
- **Outside:** swivable to both sides.
- **Inside:** release by turning by 90°.

More product information online

Assembly instructions etc.: Additional info via your smartphone or check online at **tsubaki-kabelschlepp.com/support**

Configure your custom cable carrier here: **online-engineer.de**

Unsupported arrangement

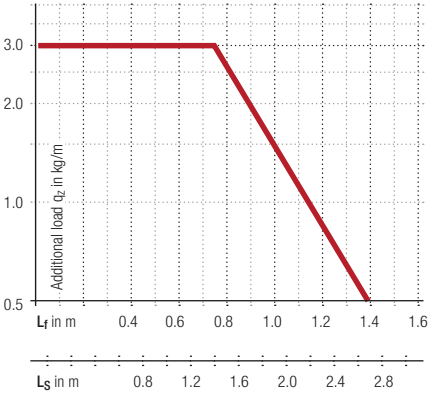


KR [mm]	H [mm]	H_Z [mm]	L_B [mm]	U_B [mm]
55	149	174	268	122
75	189	214	331	142
100	239	264	410	167
130	299	324	504	197
160	359	384	598	227
200	439	464	724	267
250	539	564	881	317
300	639	664	1038	367

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 = 1.7 kg/m. For other inner widths, the maximum additional load changes.



Speed
up to 10 m/s

Acceleration
up to 50 m/s²

Travel length
up to 2.7 m

Additional load
up to 3.0 kg/m

MK0475 RD 01 | Dimensions · Technical data

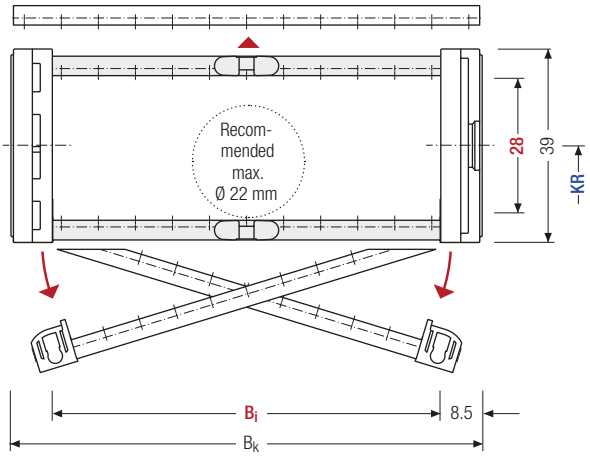
Plastic stay RD 01 – frame stay with hinge in the inner radius

- Plastic profile bars with hinge for light to medium loads. Assembly without screws.
- Available customized in **8 mm grid**.
- **Outside:** release by turning by 90°.
  Inside: swivable to both sides.

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

8 mm

B_i 24 – 280 mm in **8 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]	B_i [mm]											B_k [mm]	KR [mm]		q_k [kg/m]
28	39	24	32	40	48	56	64	72	80	88	96		B_i + 17	55	75	0.79 – 3.03
		104	112	120	128	136	144	152	160	168	176			100	130	
		184	192	200	208	216	224	232	240	248	256			160	200	
		264	272	280										250	300	

Order example

MK0475	.	128	.	RD 01	.	100	-	1425		VS
Type		B_i [mm]		Stay variant		KR [mm]		L_k [mm]		Stay arrangement

Key for abbreviations on page 16

Design guidelines from page 62

MK0475 RD 01 | Inner distribution | TS0 · TS1 · TS2

Divider systems

As a standard, the divider system is mounted on each crossbar – for stay mounting on every 2nd chain link (HS).

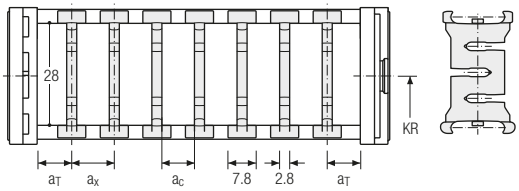
As a standard, dividers and the complete divider system (dividers with height separations) can be moved in the cross section **(version A).**

The dividers are easily attached to the stay for applications with lateral acceleration and for applications laying on their side by simply turning the frame stay by 180°. The arresting cams click into place in the locking grids in the crossbars **(version B)**.
The groove in the frame stay faces outwards.

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	6	7.8	5	–	–
B	12	8	5,2	8	–

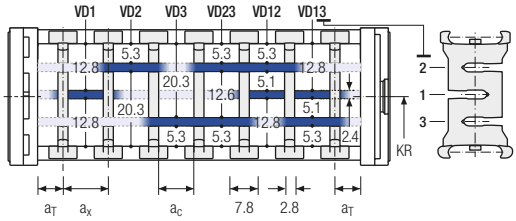
The dividers can be moved within the cross section (version A) or fixed (version B).



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	6	20	7.8	5	–	2
B	12	20	8	5,2	8	2

The dividers can be moved within the cross section (version A) or fixed (version B).

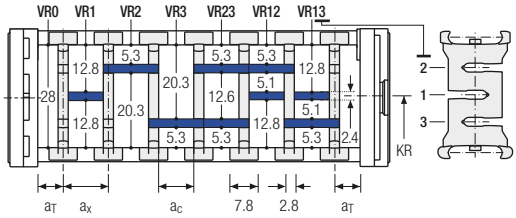


Divider system TS2 with partial height separation

Vers.	$a_{T\,min}$ [mm]	$a_{x\,min}$ [mm]	$a_{C\,min}$ [mm]	$a_{x\,grid}$ [mm]	$n_{T\,min}$
B	12	8*/24	5,2*/21,2	8	2

* for VR0

With grid distribution **(8 mm grid)**. The dividers are fixed by the height separation, the complete divider system is movable in the cross section (version A) or fixed (version B).



Order example

TS2	.	A	.	3	.	K1	.	34	-	VR1
						⋮		⋮		⋮
					.	K4	.	38	-	VR3
Divider system		Version		n_T		Chamber		a_x		Height separation

Key for abbreviations on page 16

Design guidelines from page 62

Technical support:
technik@kabelschlepp.de

MK0475 RD 02 | Dimensions · Technical data

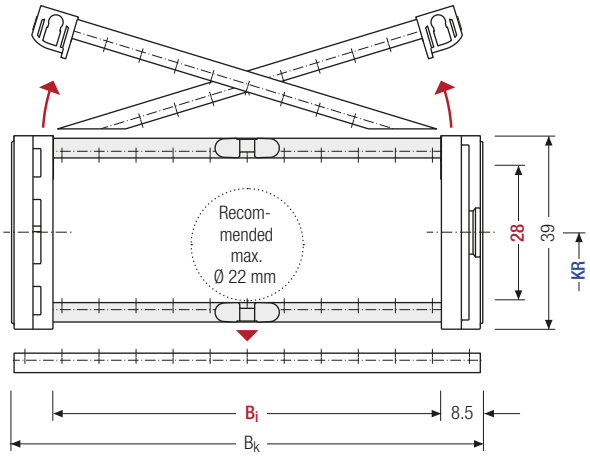
Plastic stay RD 02 – frame stay with hinge in the outer radius

- Plastic profile bars with hinge for light to medium loads. Assembly without screws.
- Available customized in **8 mm grid**.
- **Outside:** swivable to both sides.
  Inside: release by turning by 90°.

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

8 mm

B_i 24 – 280 mm in **8 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]	B_i [mm]											B_k [mm]	KR [mm]		q_k [kg/m]
28	39	24	32	40	48	56	64	72	80	88	96		B_i + 17	55	75	0.79 – 3.03
		104	112	120	128	136	144	152	160	168	176			100	130	
		184	192	200	208	216	224	232	240	248	256			160	200	
		264	272	280										250	300	

Order example

MK0475	.	128	.	RD 02	.	100	-	1425		VS
Type		B_i [mm]		Stay variant		KR [mm]		L_k [mm]		Stay arrangement

MK0475 RD 02 | Inner distribution | TS0 · TS1 · TS2

Divider systems

As a standard, the divider system is mounted on each crossbar – for stay mounting on every 2nd chain link (HS).

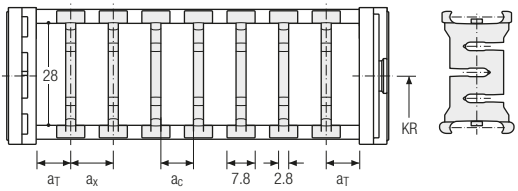
As a standard, dividers and the complete divider system (dividers with height separations) can be moved in the cross section **(version A).**

The dividers are easily attached to the stay for applications with lateral acceleration and for applications laying on their side by simply turning the frame stay by 180°. The arresting cams click into place in the locking grids in the crossbars **(version B)**.
The groove in the frame stay faces outwards.

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	6	7.8	5	–	–
B	12	8	5,2	8	–

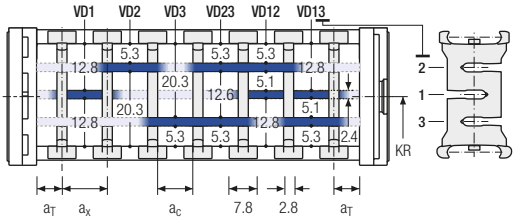
The dividers can be moved within the cross section (version A) or fixed (version B).



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	6	20	7.8	5	–	2
B	12	20	8	5,2	8	2

The dividers can be moved within the cross section (version A) or fixed (version B).

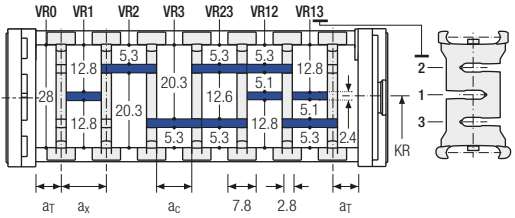


Divider system TS2 with partial height separation

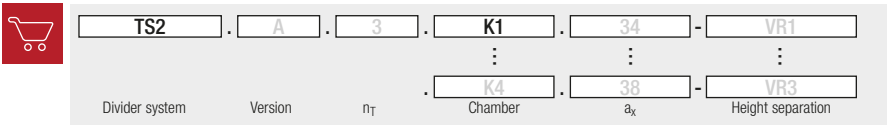
Vers.	$a_{T\,min}$ [mm]	$a_{x\,min}$ [mm]	$a_{C\,min}$ [mm]	$a_{x\,grid}$ [mm]	$n_{T\,min}$
B	12	8*/24	5,2*/21,2	8	2

* for VR0

With grid distribution **(8 mm grid)**. The dividers are fixed by the height separation, the complete divider system is movable in the cross section (version A) or fixed (version B).



Order example

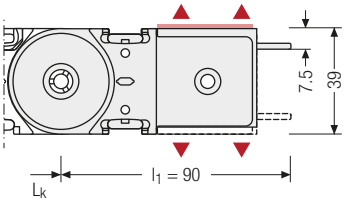


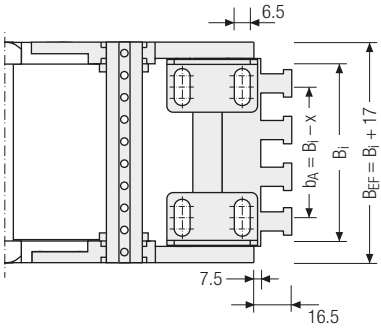
Subject to change.

M0475 | End connectors | Plastic/Steel

End connectors – plastic/steel (with strain relief)

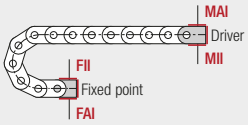
Link end connector made of plastic, end connector made of sheet steel with screw-fixed aluminum strain relief.
The connection variants on the fixed point and on the driver can be combined and, if required, changed afterwards.





▲ Assembly options

B_i [mm]	x [mm]	n_z
40	17.5	3
56	21.5	4
80	17.5	6
104	19.0	8
128	19.5	9
152	17.5	11
192	18.5	14



Connection point
F – fixed point
M – driver

Connection surface
I – connection surface inside

Connection type
A – threaded joint outside (standard)
I – threaded joint inside

Order example

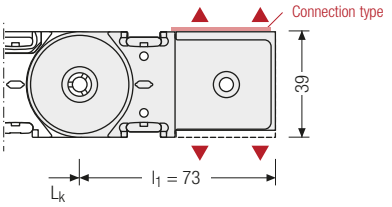
Plastic/steel	.	F	A	I
Plastic/steel	.	M	A	I
End connector		Connection point	Connection type	Connection surface

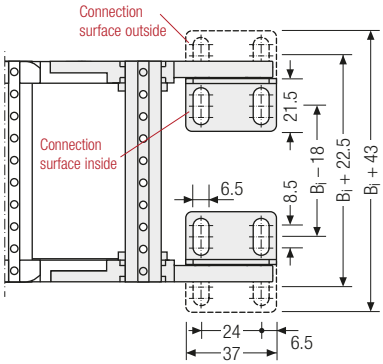
Key for abbreviations on page 16
Design guidelines from page 62

M0475 | End connectors | Plastic/Steel

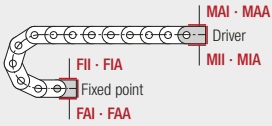
End connectors – plastic/steel

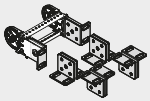
Plastic link end connector, steel end connector. The connection variants on the fixed point and on the driver can be combined and, if required, changed afterwards.





▲ Assembly options





Connection point
F – fixed point
M – driver

Connection surface
I – connection surface inside
A – connection surface outside

Connection type
A – threaded joint outside (standard)
I – threaded joint inside
F – flange connection

Order example

Plastic/steel	.	F	A	A
Plastic/steel	.	M	U	
End connector		Connection point	Connection type	Connection surface

We recommend the use of strain reliefs before driver and fixed point. See from p. 794.

M0650

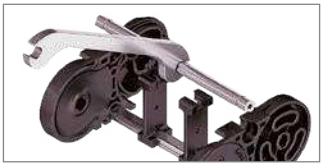
Pitch
65 mm

Inner heights
38 – 42 mm

Inner widths
50 – 400 mm

Bending radii
75 – 350 mm

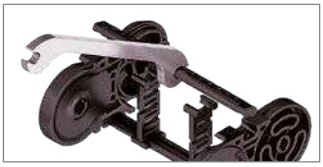
Stay variants



Aluminum stay RS page 334

Frame stay, narrow "The standard"

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

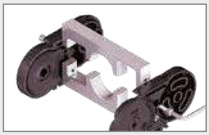


Plastic stay RE page 338

Frame screw-in stay

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

Additional stay variants on request



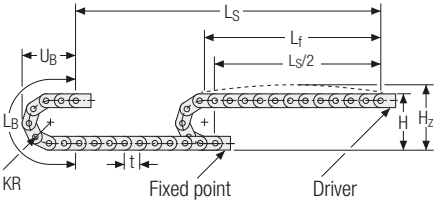
Aluminum stay LG
Optimum cable routing in the neutral bending line.

Aluminum stay RMA
For guiding very large cable diameters.

Plastic stay RD
Plastic profile bars with hinge.

M0650 | Installation dim. | Unsupported · Gliding

Unsupported arrangement

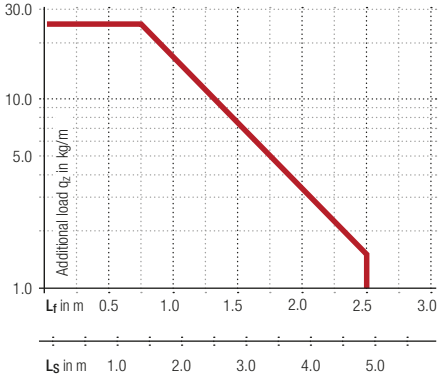


KR [mm]	H [mm]	H_Z [mm]	L_B [mm]	U_B [mm]
75	207	242	366	169
95	247	282	429	189
115	287	322	492	209
145	347	382	586	239
175	407	442	680	269
220	497	532	822	314
260	577	612	948	354
275	607	642	994	369
300	657	692	1073	394
350	757	792	1230	444

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 = 2.4 kg/m. For other inner widths, the maximum additional load changes.



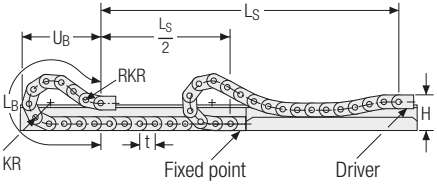
Speed
up to 10 m/s

Acceleration
up to 40 m/s²

Travel length
up to 4.8 m

Additional load
up to 25 kg/m

Gliding arrangement | GO module with chain links optimized for gliding



KR [mm]	H [mm]	n_{RKR}	L_B [mm]	U_B [mm]
145	171	5	1625	691
175	171	5	1690	718
220	171	5	1950	810
260	171	5	2275	926
275	171	5	2405	973
300	171	5	2535	1014
350	171	5	2925	1152

Speed
up to 8 m/s

Acceleration
up to 20 m/s²

Travel length
up to 220 m

Additional load
up to 25 kg/m

The gliding cable carrier must be guided in a channel. See p. 732.

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

Glide shoes have to be used for gliding applications.

Our technical support can provide help for gliding arrangements:
technik@kabelschlepp.de

Key for abbreviations on page 16

Design guidelines from page 62

Technical support:
technik@kabelschlepp.de

MC0650 RS | Dimensions · Technical data

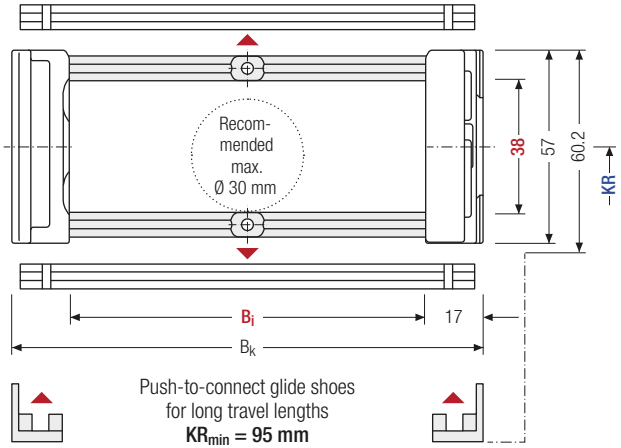
Aluminum stay RS –
frame stay narrow

- Extremely quick to open and close
- Aluminum profile bars for light to medium loads. Assembly without screws.
- Available customized in **1 mm grid**.
- **Outside/inside:** release by turning by 90°.

Stay arrangement on every 2nd chain link, **standard (HS: half-stayed)**

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

1 mm
B_i 75 – 400 mm in **1 mm width sections**



Push-to-connect glide shoes for long travel lengths
KR_{min} = 95 mm

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

For rough environmental conditions, we recommend the use of OFFROAD glide shoes with 80 % higher wear volume.

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]	$h_{G'}$ Offroad [mm]	B_i [mm]*	B_k [mm]	KR [mm]					q_k [kg/m]
38	57	60.2	62.2	75 – 400	B_i + 34	75	95	115	145	175	1.98 – 3.85
						220	260	275	300	350	

* in 1 mm width sections

Order example

MC0650	.	300	.	RS	.	175	-	1430		HS
Type		B_i [mm]		Stay variant		KR [mm]		L_k [mm]		Stay arrangement

MC0650 RS | Inner distribution | TS0 · TS1 · TS2

Divider systems

As a standard, the divider system is mounted on each crossbar – for stay mounting on every 2nd chain link (HS).

As a standard, dividers and the complete divider system (dividers with height separations) can be moved in the cross section **(version A).**

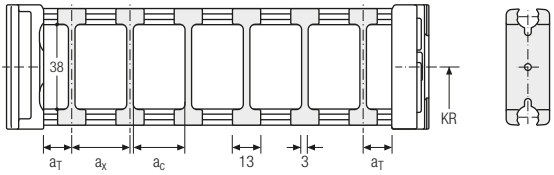
For applications with lateral acceleration and rotated by 90°, the dividers can be attached by simply clipping on a socket (available as an accessory).

The bushing additionally serves as a spacer between the dividers and is available in 1 mm sections between 3 – 50 mm **(version B)**.

Divider system TS0 without height separation

Vers.	$a_{T\ min}$ [mm]	$a_{x\ min}$ [mm]	$a_{C\ min}$ [mm]	$n_{T\ min}$
A	6.5	13	10	–

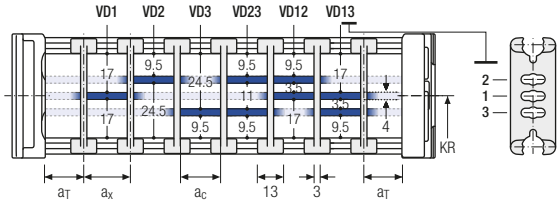
The dividers can be moved in the cross section.



Divider system TS1 with continuous height separation

Vers.	$a_{T\ min}$ [mm]	$a_{T\ max}$ [mm]	$a_{x\ min}$ [mm]	$a_{C\ min}$ [mm]	n_T min
A	6.5	25	13	10	2

The dividers can be moved in the cross section.

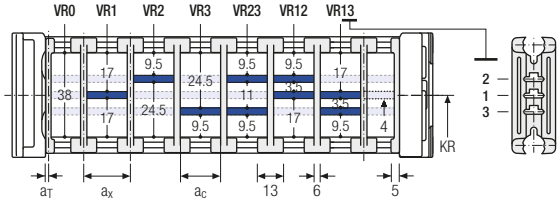


Divider system TS2 with partial height separation

Vers.	$a_{T\ min}$ [mm]	$a_{x\ min}$ [mm]	$a_{C\ min}$ [mm]	$n_{T\ min}$
A	1,5	21	15	2

With grid distribution **(1 mm grid)**. The dividers are attached by the height separation, the grid can be moved in the cross section.

Sliding dividers are optionally available (thickness of divider = 3 mm).



TRAXLINE® cables for cable carriers

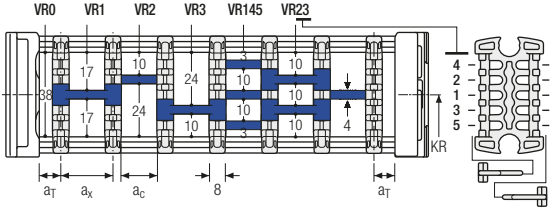
Hi-flex electric cables which were especially developed, optimized and tested for use in cable carriers can be found at **traxline.de**

MC0650 RS | Inner distribution | TS3

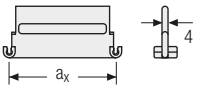
Divider system TS3 with height separation made of plastic partitions

Vers.	a_T min [mm]	a_x min [mm]	a_c min [mm]	n_T min
A	4	16 / 42*	8	2

* For aluminum partitions



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



Aluminum partitions in 1 mm increments with **a_x > 42 mm** are also available.

a_x (center distance of dividers) [mm]											
a_c (nominal 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 **plastic partitions with a_x > 112 mm**, we recommend an additional center support with a **twin divider** (S_T = 4 mm). Twin dividers are also suitable for retrofitting in the partition system.

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.

More product information online

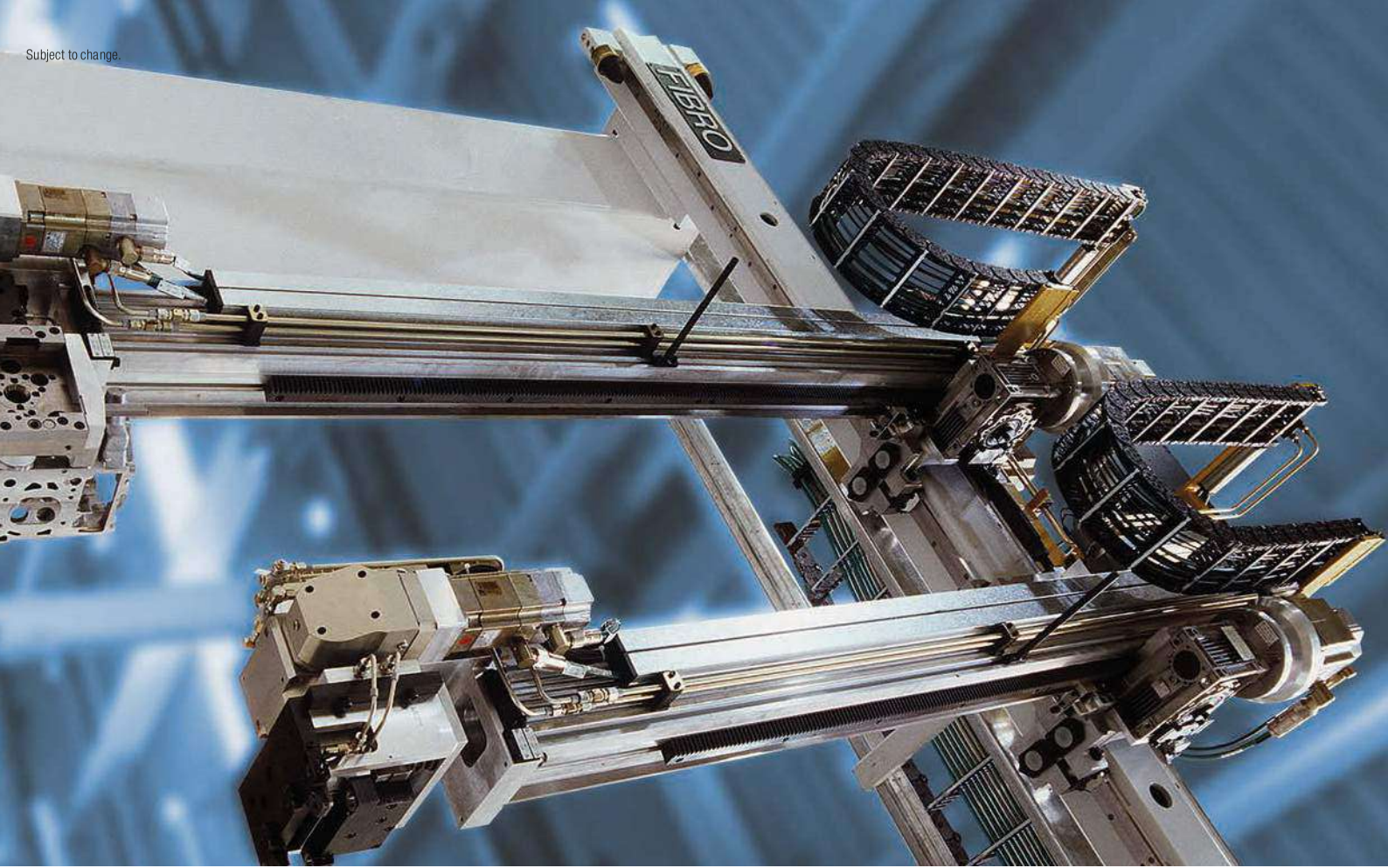
Assembly instructions etc.: Additional info via your smartphone or check online at **tsubaki-kabelschlepp.com/support**

Configure your custom cable carrier here: **onlineengineer.de**

Key for abbreviations on page 16
Design guidelines from page 62

Technical support: **technik@kabelschlepp.de**

Subject to change.



Key for abbreviations on page 16

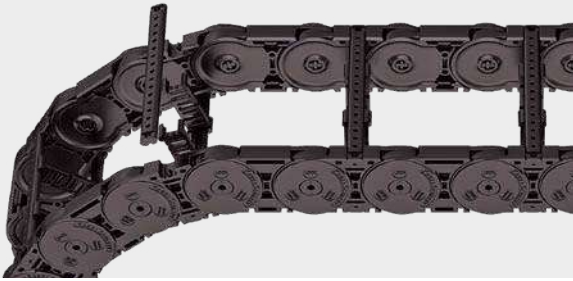
Design guidelines from page 62

Technical support:
technik@kabelschlepp.de

ME0650 RE | Dimensions · Technical data

Plastic stay RE – screw-in frame stay

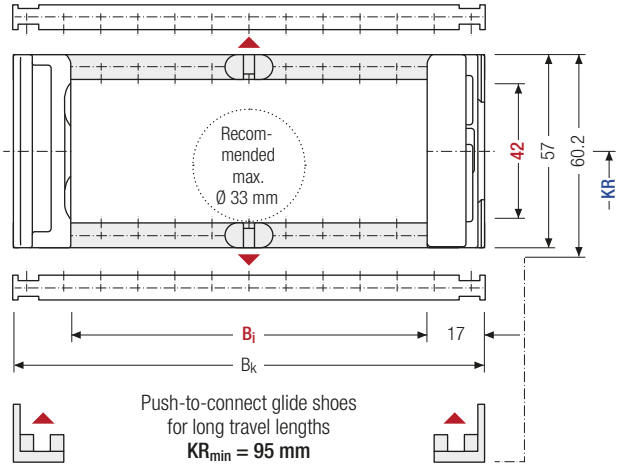
- Plastic profile bars for light to medium loads. Assembly without screws.
- Available customized in **8 mm grid**.
- **Outside/inside:** release by turning by 90°.



Stay arrangement on every 2nd chain link, **standard (HS: half-stayed)**

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

8 mm
B_i 50 – 266 mm in **8 mm width sections**



Push-to-connect glide shoes for long travel lengths
KR_{min} = 95 mm

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

For rough environmental conditions, we recommend the use of OFFROAD glide shoes with 80 % higher wear volume.

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]	$h_{G'}$ Offroad [mm]	B_i [mm]							B_k [mm]	KR [mm]			q_k [kg/m]
42	57	60.2	62.2	50	58	66	74	82	90	98	B_i + 34	75	95	115	2.00 – 2.84
				106	114	122	130	138	146	154		145	175	220	
				162	170	178	186	194	202	210		260	275	300	
				218	226	234	242	250	258	266		350			

Order example

ME0650	.	210	.	RE	.	175	-	1430	HS
Type		B_i [mm]		Stay variant		KR [mm]		L_k [mm]	Stay arrangement

ME0650 RE | Inner distribution | TS0 · TS1

Divider systems

As a standard, the divider system is mounted on each crossbar – for stay mounting on every 2nd chain link (HS).

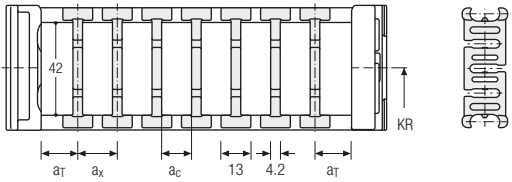
As a standard, dividers and the complete divider system (dividers with height separations) can be moved in the cross section **(version A).**

The dividers are easily attached to the stay for applications with lateral acceleration and for applications laying on their side by simply turning the frame stay by 180°. The arresting cams click into place in the locking grids in the crossbars **(version B)**.
The groove in the frame stay faces outwards.

Divider system TS0 without height separation

Vers.	$a_{T\,min}$ [mm]	$a_{x\,min}$ [mm]	$a_{C\,min}$ [mm]	$a_{x\,Raster}$ [mm]	$n_{T\,min}$
A	6.5	13	8.8	–	–
B	13	16	11.8	8	–

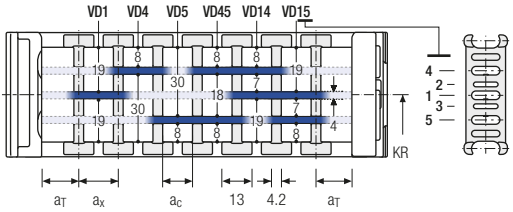
The dividers can be moved within the cross section (version A) or fixed (version B).



Divider system TS1 with continuous height separation

Vers.	$a_{T\,min}$ [mm]	$a_{T\,max}$ [mm]	$a_{x\,min}$ [mm]	$a_{C\,min}$ [mm]	$a_{x\,Raster}$ [mm]	$n_{T\,min}$
A	6.5	25	13	8.8	–	2
B	13	29	16	11.8	8	2

The dividers can be moved within the cross section.



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

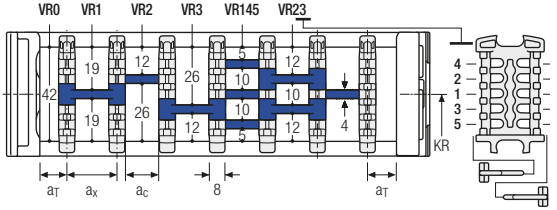
Hi-flex electric cables which were especially developed, optimized and tested for use in cable carriers can be found at **traxline.de**

ME0650 RE | Inner distribution | TS3

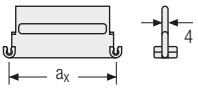
Divider system TS3 with height separation made of plastic partitions

Vers.	a_T min [mm]	a_x min [mm]	a_c min [mm]	n_T min
A	4	16 / 42*	8	2

* For aluminum partitions



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



Aluminum partitions in 1 mm increments with **a_x > 42 mm** are also available.

a_x (center distance of dividers) [mm]											
a_c (nominal 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 **plastic partitions with a_x > 112 mm**, we recommend an additional center support with a **twin divider** (S_T = 3 mm). Twin dividers are also suitable for retrofitting in the partition system.

Order example

TS3	.	A	.	2	.	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.

More product information online

Assembly instructions etc.: Additional info via your smartphone or check online at **tsubaki-kabelschlepp.com/support**

Configure your custom cable carrier: here **onlineengineer.de**

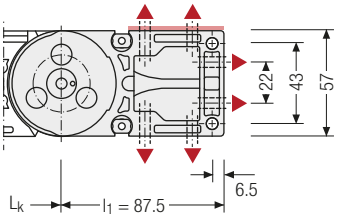
Key for abbreviations on page 16
Design guidelines from page 62

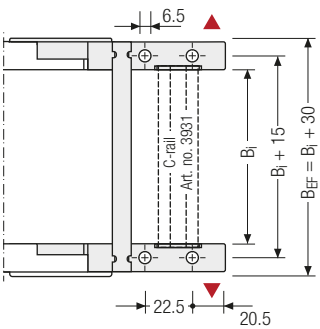
Technical support: **technik@kabelschlepp.de**

M0650 | End connectors

Universal end connectors UMB – plastic (standard)

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

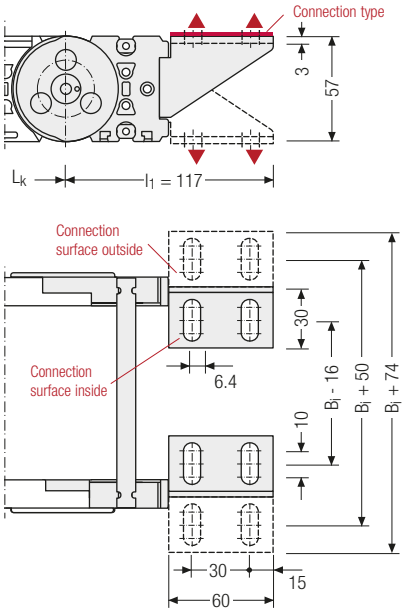




Recommended tightening torque: 11 Nm for cheese-head screws ISO 4762 - M6 - 8.8

End connectors – plastic/steel

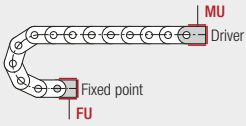
Plastic link end connector, steel end connector. The connection variants on the fixed point and on the driver can be combined and, if required, changed afterwards.



▲ Assembly options

Connection point
F – fixed point
M – driver

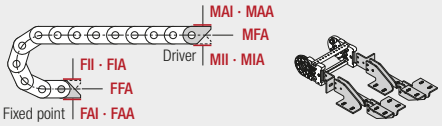
Connection type
U – universal mounting bracket



Connection point
F – fixed point
M – driver

Connection surface
I – connection surface inside
A – connection surface outside

Connection type
A – threaded joint outside (standard)
I – threaded joint inside
F – flange connection



Order example

Plastic/steel	.	F	A	A
UMB	.	M	U	
End connector		Connection point	Connection type	Connection surface

We recommend the use of strain reliefs before driver and fixed point. See from p. 794.

M0950

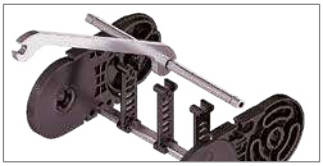
Pitch
95 mm

Inner heights
54 – 58 mm

Inner widths
45 – 600 mm

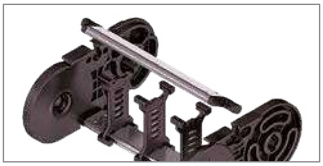
Bending radii
140 – 380 mm

Stay variants



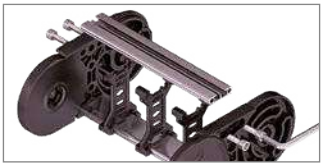
Aluminum stay RS ..... page 344

Frame stay, narrow "The standard"
- Aluminum profile bars for light to medium loads. Assembly without screws.
- **Outside/inside:** release by turning by 90°.



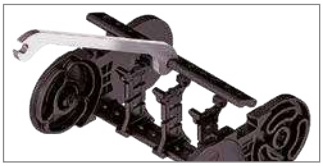
Aluminum stay RV ..... page 348

Frame stay, reinforced
- Aluminum profile bars with plastic adapter for medium to high loads and large cable carrier widths. Assembly without screws.
- **Outside/inside:** release by turning by 90°.



Aluminum stay RM ..... page 352

Frame stay, solid
- Aluminum profile bars for heavy loads and maximum cable carrier widths. Double threaded joints on both sides **"Heavy Duty"**.
- **Inside/outside:** Threaded joint easy to release.

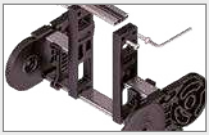


Plastic stay RE ..... page 354

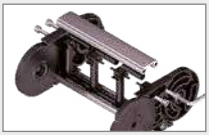
Frame screw-in stay
- Plastic profile bars for light to medium loads. Assembly without screws.
- **Outside/inside:** release by turning by 90°.

Additional stay variants on request

Aluminum stay LG
Optimum cable routing in the neutral bending line.



Aluminum stay RMA
For guiding very large cable diameters.



Aluminum stay RMR
Gentle cable guiding with rollers.

Plastic stay RD
Plastic profile bars with hinge.

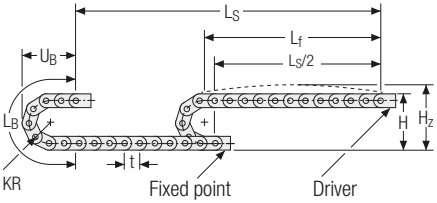
Key for abbreviations on page 16

Design guidelines from page 62

Technical support:
technik@kabelschlepp.de

M0950 | Installation dim. | Unsupported · Gliding

Unsupported arrangement

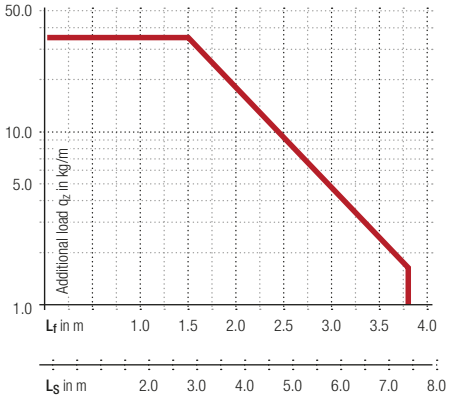


KR [mm]	H [mm]	H_Z [mm]	L_B [mm]	U_B [mm]
140	360	405	630	275
170	420	465	725	305
200	480	525	819	335
260	600	645	1007	395
290	660	705	1102	425
320	720	765	1196	445
380	840	885	1384	515

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 = 4.5 kg/m. For other inner widths, the maximum additional load changes.



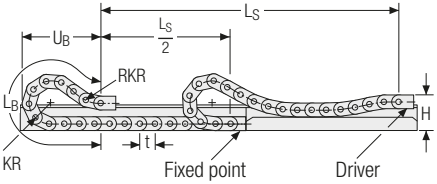
Speed
up to 10 m/s

Acceleration
up to 30 m/s²

Travel length
up to 7.4 m

Additional load
up to 35 kg/m

Gliding arrangement | GO module with chain links optimized for gliding



KR [mm]	H [mm]	n_{RKR}	L_B [mm]	U_B [mm]
170	240	4	1710	773
200	240	4	1995	888
260	240	4	2565	1114
290	240	4	2755	1183
320	240	4	3040	1296
380	240	4	3610	1523

Speed
up to 8 m/s

Acceleration
up to 20 m/s²

Travel length
up to 260 m

Additional load
up to 35 kg/m

The gliding cable carrier must be guided in a channel. See p. 732.

The GO module mounted on the driver is a defined sequence of 4 adapted KR/RKR link plates.

Glide shoes have to be used for gliding applications.

Our technical support can provide help for gliding arrangements:
technik@kabelschlepp.de

Key for abbreviations on page 16

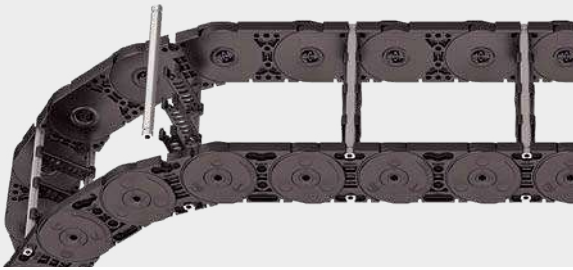
Design guidelines from page 62

Technical support:
technik@kabelschlepp.de

MC0950 RS | Dimensions · Technical data

Aluminum stay RS –
frame stay narrow

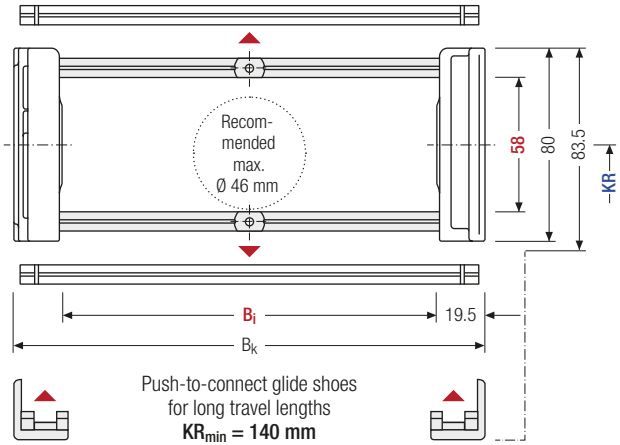
- Extremely quick to open and close
- Aluminum profile bars for light to medium loads. Assembly without screws.
- Available customized in **1 mm grid**.
- **Outside/inside:** release by turning by 90°.



Stay arrangement on every 2nd chain link, **standard (HS: half-stayed)**

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

1 mm
B_i 75 – 400 mm in **1 mm width sections**



Push-to-connect glide shoes for long travel lengths
KR_{min} = 140 mm

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

For rough environmental conditions, we recommend the use of OFFROAD glide shoes with 80 % higher wear volume.

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]	$h_{G'}$ Offroad [mm]	B_i [mm]*	B_k [mm]	KR [mm]						q$_k$ [kg/m]
58	80	83.5	86	75 – 400	B_i + 39	140	170	200	260	290	320	380	2.93 – 4.71

* in 1 mm width sections

Order example

MC0950	.	400	.	RS	.	200	-	2850	HS
Type		B_i [mm]		Stay variant		KR [mm]		L_k [mm]	Stay arrangement

MC0950 RS | Inner distribution | TS0 · TS1 · TS2

Divider systems

As a standard, the divider system is mounted on each crossbar – for stay mounting on every 2nd chain link (HS).

As a standard, dividers and the complete divider system (dividers with height separations) can be moved in the cross section **(version A).**

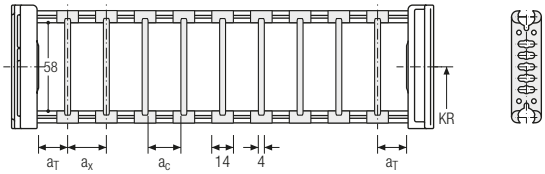
For applications with lateral acceleration and rotated by 90°, the dividers can be attached by simply clipping on a socket (available as an accessory).

The socket additionally serves as a spacer between the dividers and is available in 1 mm sections between 3 – 50 mm as well as 16.5 and 21.5 mm **(version B)**

Divider system TS0 without height separation

Vers.	$a_{T\,min}$ [mm]	$a_{x\,min}$ [mm]	$a_{C\,min}$ [mm]	$n_{T\,min}$
A	4.5	14	10	–

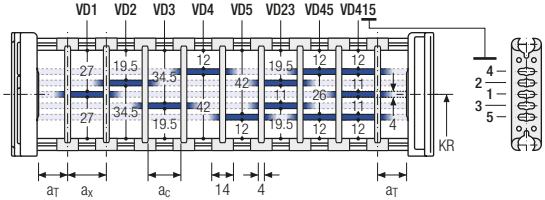
The dividers can be moved in the cross section.



Divider system TS1 with continuous height separation

Vers.	$a_{T\,min}$ [mm]	$a_{T\,max}$ [mm]	$a_{x\,min}$ [mm]	$a_{C\,min}$ [mm]	$n_{T\,min}$
A	4.5	25	14	10	2

The dividers can be moved in the cross section.

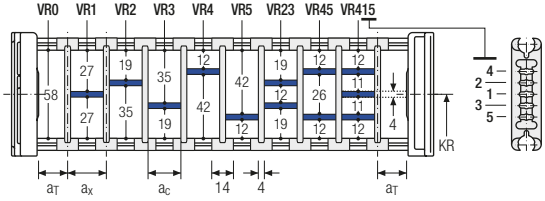


Divider system TS2 with partial height separation

Vers.	$a_{T\,min}$ [mm]	$a_{x\,min}$ [mm]	$a_{C\,min}$ [mm]	$n_{T\,min}$
A	4.5	23	19	2

With grid distribution **(1 mm grid)**. The dividers are attached by the height separation, the grid can be moved in the cross section.

Sliding dividers are optionally available (thickness of divider = 4 mm).



Please note that the real dimensions may deviate slightly from the values indicated here.

Order example

TS2	A	3	K1	34	VR1
			⋮	⋮	⋮
			K4	38	VR3
Divider system	Version	n_T	Chamber	a_x	Height separation

MC0950 RS | Inner distribution | TS3

Divider system TS3 with height separation consisting of plastic partitions

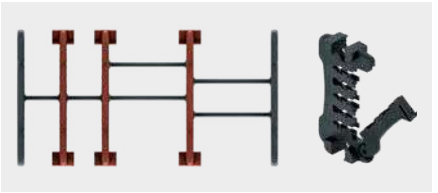
As a standard, the divider **version A** is used for vertical partitioning within the cable carrier. The complete divider system can be moved within the cross section.

Key for abbreviations on page 16

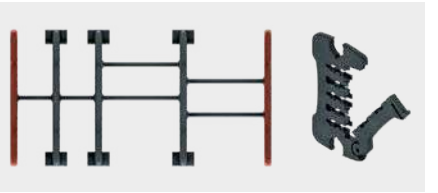
Design guidelines from page 62

Technical support: technik@kabelschlepp.de

Divider version A



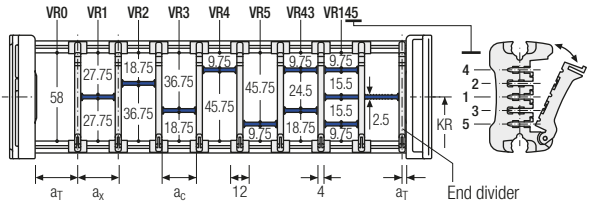
End divider

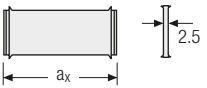


Vers.	$a_{T\ min}$ [mm]	$a_{x\ min}$ [mm]	$a_{C\ min}$ [mm]	n_T min
A	6 / 2*	14	10	2

* For End divider

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





a_x (center distance of dividers) [mm]

a_C (nominal width of inner chamber) [mm]

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

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

Order example

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

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

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

Inner heights

58

Inner widths

75 – 400

Increments

1 mm

tsubaki-kabelschlepp.com/m

Key for abbreviations on page 16

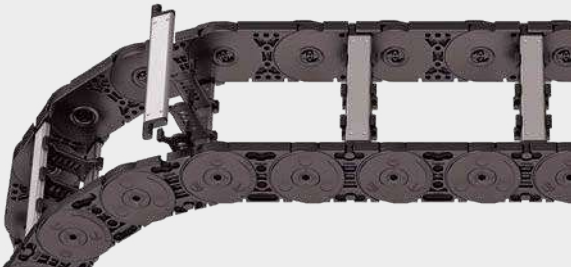
Design guidelines from page 62

Technical support:
technik@kabelschlepp.de

MC0950 RV | Dimensions · Technical data

Aluminum stay RV – frame stay reinforced

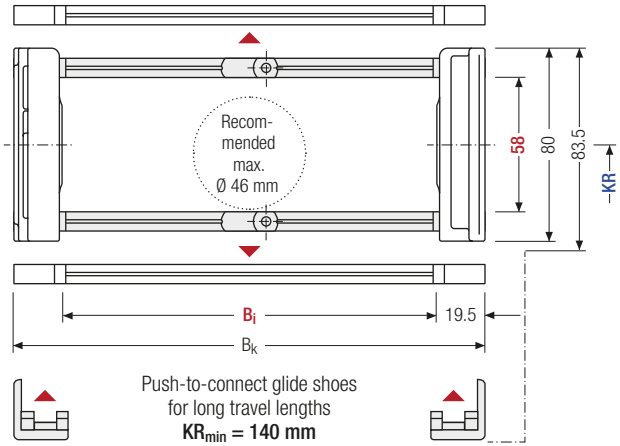
- Aluminum profile bars with plastic adapter for medium to high loads and large cable carrier widths. Assembly without screws.
- Available customized in **1 mm grid**.
- **Outside/inside:** release by turning by 90°.



Stay arrangement on every 2nd chain link, **standard (HS: half-stayed)**

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

1 mm — B_i 75 – 500 mm in **1 mm width sections**



Push-to-connect glide shoes for long travel lengths
KR_{min} = 140 mm

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

For rough environmental conditions, we recommend the use of OFFROAD glide shoes with 80 % higher wear volume.

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]	$h_{G'}$ Offroad [mm]	B_i [mm]*	B_k [mm]	KR [mm]							q_k [kg/m]
58	80	83.5	86	75 – 500	B_i + 39	140	170	200	260	290	320	380	3.32 – 6.02

* in 1 mm width sections

Order example

MC0950	.	400	.	RV	.	200	-	2850	HS
Type		B_i [mm]		Stay variant		KR [mm]		L_k [mm]	Stay arrangement

MC0950 RV | Inner distribution | TS0 · TS1 · TS2

Divider systems

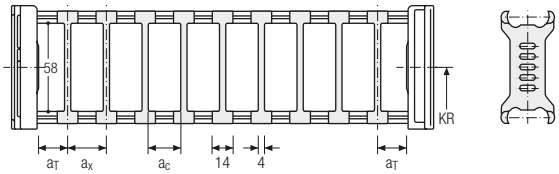
As a standard, the divider system is mounted on each crossbar – for stay mounting on every 2nd chain link (HS).

As a standard, dividers and the complete divider system (dividers with height separations) can be moved in the cross section **(version A).**

Divider system TS0 without height separation

Vers.	$a_{T\ min}$ [mm]	$a_{x\ min}$ [mm]	$a_{C\ min}$ [mm]	$n_{T\ min}$
A	4.5	14	10	2

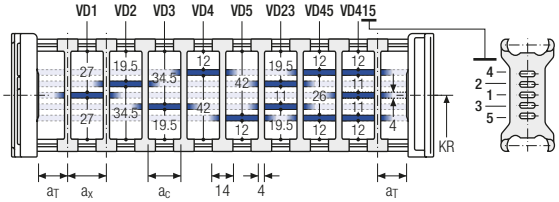
The dividers can be moved in the cross section.



Divider system TS1 with continuous height separation

Vers.	$a_{T\ min}$ [mm]	$a_{T\ max}$ [mm]	$a_{x\ min}$ [mm]	$a_{C\ min}$ [mm]	$n_{T\ min}$
A	4.5	25	14	10	2

The dividers can be moved in the cross section.

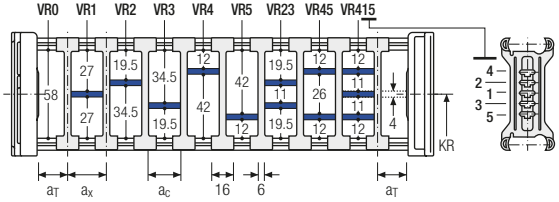


Divider system TS2 with partial height separation

Vers.	$a_{T\ min}$ [mm]	$a_{x\ min}$ [mm]	$a_{C\ min}$ [mm]	$n_{T\ min}$
A	5.5	21	15	2

With grid distribution **(1 mm grid)**.
The dividers are attached by the height separation, the grid can be moved in the cross section.

Sliding dividers are optionally available (thickness of divider = 4 mm).



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

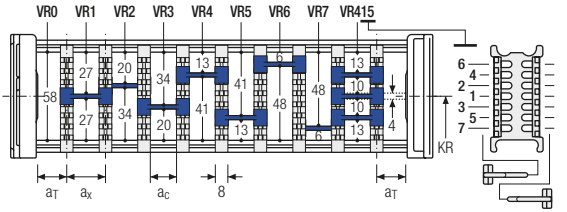
Hi-flex electric cables which were especially developed, optimized and tested for use in cable carriers can be found at **traxline.de**

MC0950 RV | Inner distribution | TS3

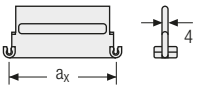
Divider system TS3 with height separation made of plastic partitions

Vers.	a_T min [mm]	a_x min [mm]	a_C min [mm]	n_T min
A	4	16 / 42*	8	2

* For aluminum partitions



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



Aluminum partitions in 1 mm increments with **a_x > 42 mm** are also available.

a_x (center distance of dividers) [mm]											
a_C (nominal 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 **plastic partitions with a_x > 112 mm**, we recommend an additional center support with a **twin divider** (S_T = 4 mm). Twin dividers are also suitable for retrofitting in the partition system.

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.

More product information online

Assembly instructions etc.: Additional info via your smartphone or check online at **tsubaki-kabelschlepp.com/support**

Configure your custom cable carrier here: **onlineengineer.de**

Key for abbreviations on page 16
Design guidelines from page 62

Technical support: **technik@kabelschlepp.de**

Key for abbreviations on page 16

Design guidelines from page 62

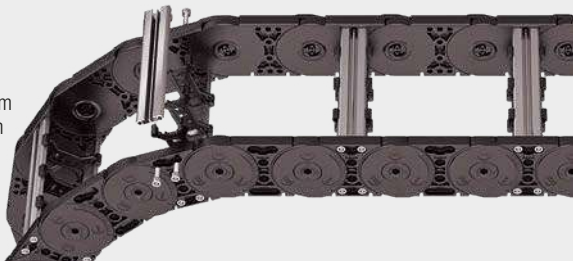
Technical support:
technik@kabelschlepp.de

MC0950 RM | Dimensions · Technical data

Aluminum stay RM –
frame stay solid

- Aluminum profile bars for heavy loads and maximum cable carrier widths. Double threaded joints on both sides **"Heavy Duty"**.
- Available customized in **1 mm grid**.
- **Inside/outside:** Threaded joint easy to release.

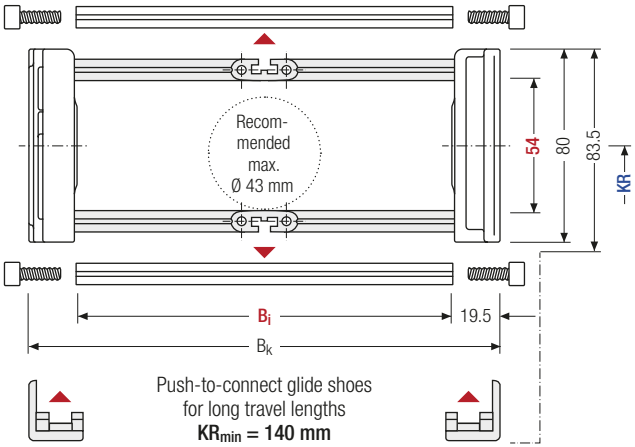
HEAVY DUTY
TSUBAKI KABELSCHLEPP



Stay arrangement on every 2nd chain link, **standard (HS: half-stayed)**

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

1 mm
B_i 75 – 600 mm in **1 mm width sections**



Push-to-connect glide shoes for long travel lengths
KR_{min} = 140 mm

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

For rough environmental conditions, we recommend the use of OFFROAD glide shoes with 80 % higher wear volume.

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]	$h_{G'}$ Offroad [mm]	B_i [mm]*	B_k [mm]	KR [mm]						q_k [kg/m]
54	80	83.5	86	75 – 600	B_i + 39	140	170	200	260	290	320	380	3.63 – 6.55

* in 1 mm width sections

Order example

MC0950	.	400	.	RM	.	200	-	2850	HS
Type		B_i [mm]		Stay variant		KR [mm]		L_k [mm]	Stay arrangement

MC0950 RM | Inner distribution | TS0 · TS1 · TS2

Divider systems

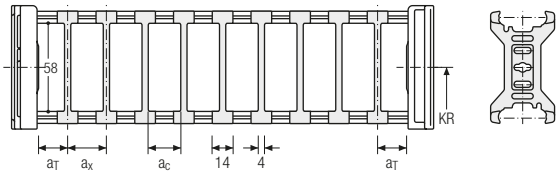
As a standard, the divider system is mounted on each crossbar – for stay mounting on every 2nd chain link (HS).

As a standard, dividers and the complete divider system (dividers with height separations) can be moved in the cross section **(version A).**

Divider system TS0 without height separation

Vers.	$a_{T\,min}$ [mm]	$a_{x\,min}$ [mm]	$a_{C\,min}$ [mm]	$n_{T\,min}$
A	4.5	14	10	–

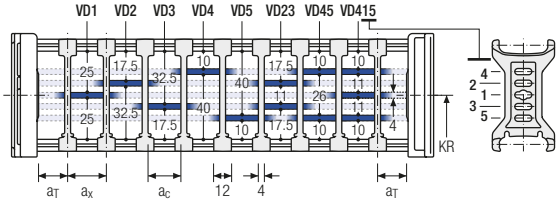
The dividers can be moved in the cross section.



Divider system TS1 with continuous height separation

Vers.	$a_{T\,min}$ [mm]	$a_{T\,max}$ [mm]	$a_{x\,min}$ [mm]	$a_{C\,min}$ [mm]	$n_{T\,min}$
A	3.5	25	12	8	2

The dividers can be moved in the cross section.

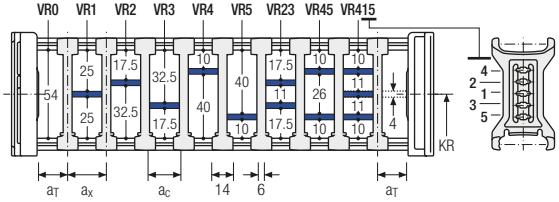


Divider system TS2 with partial height separation

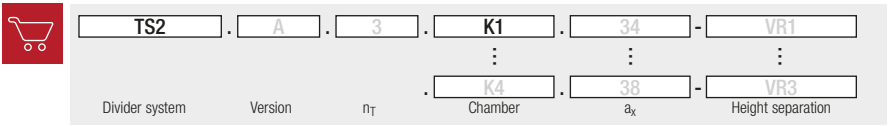
Vers.	$a_{T\,min}$ [mm]	$a_{x\,min}$ [mm]	$a_{C\,min}$ [mm]	$n_{T\,min}$
A	4.5	21	15	2

With grid distribution **(1 mm grid)**. The dividers are attached by the height separation, the grid can be moved in the cross section.

Sliding dividers are optionally available (thickness of divider = 4 mm).



Order example



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, TS2)** please also state the positions [e.g. VD23] viewed from the left driver belt. You are welcome to add a sketch to your order.

Key for abbreviations on page 16

Design guidelines from page 62

Technical support:
technik@kabelschlepp.de

ME0950 RE | Dimensions · Technical data

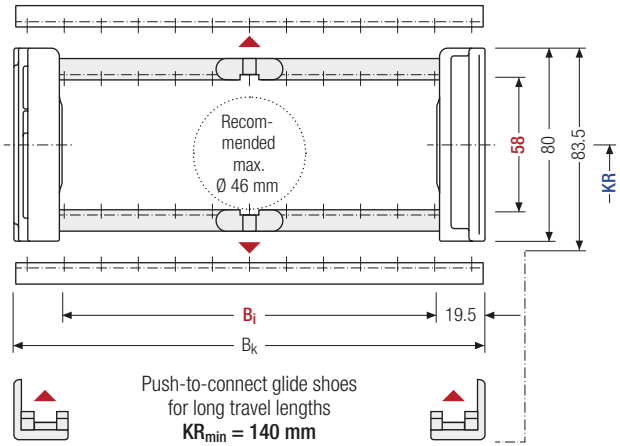
Plastic stay RE – screw-in frame stay

- Plastic profile bars for light to medium loads. Assembly without screws.
- Available customized in **16 mm grid**.
- **Outside/inside:** release by turning by 90°.

Stay arrangement on every 2nd chain link, **standard (HS: half-stayed)**

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

1 mm
B_i 45 – 557 mm in **16 mm width sections**



Push-to-connect glide shoes for long travel lengths
KR_{min} = 140 mm

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

For rough environmental conditions, we recommend the use of OFFROAD glide shoes with 80 % higher wear volume.

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]	$h_{G'}$ Offroad [mm]	B_i [mm]								B_k [mm]	KR [mm]		q_k [kg/m]
58	80	83.5	86	45	61	77	93	109	125	141	157	B_i + 39	140	170	3.0 – 6.2
				173	189	205	221	237	253	269	285		200	260	
				301	317	333	349	365	381	397	413		290	320	
				429	445	461	447	493	509	541	557		380		

Order example

ME0950	.	413	.	RE	.	200	-	2850		HS
Type		B_i [mm]		Stay variant		KR [mm]		L_k [mm]		Stay arrangement

ME0950 RE | Inner distribution | TS0 · TS1 · TS2

Divider systems

As a standard, the divider system is mounted on each crossbar – for stay mounting on every 2nd chain link (HS).

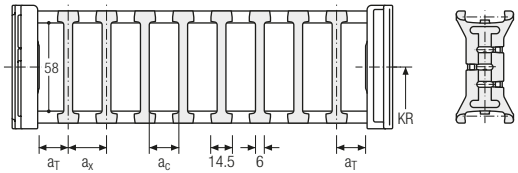
As a standard, dividers and the complete divider system (dividers with height separations) can be moved in the cross section **(version A).**

The dividers are easily attached to the stay for applications with lateral acceleration and for applications laying on their side by simply turning the frame stay by 180°. The arresting cams click into place in the locking grids in the crossbars **(version B)**.
The groove in the frame stay faces outwards.

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	5.5	14.5	8.5	–	–
B	6.5	16	10	16	–

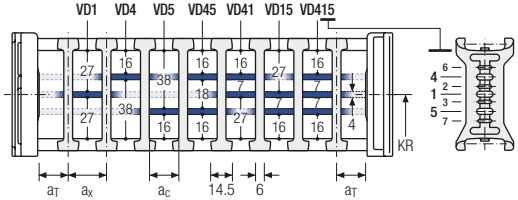
The dividers can be moved within the cross section (version A) or fixed (version B).



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	5.5	25	14.5	8.5	–	2
B	6.5	25	16	10	16	2

The dividers can be moved within the cross section (version A) or fixed (version B).

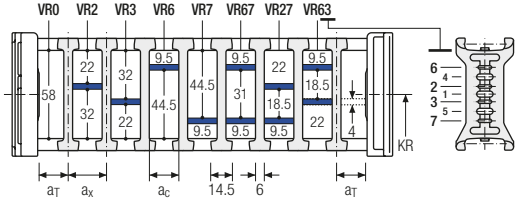


Divider system TS2 with partial height separation

Vers.	$a_{T\,min}$ [mm]	$a_{x\,min}$ [mm]	$a_{C\,min}$ [mm]	$a_{x\,grid}$ [mm]	$n_{T\,min}$
A	5.5	14.5*/21	8.5*/15	–	2
B	6.5	16*/32	10*/26	16	2

* for VR0

With grid distribution **(16 mm grid)**. The dividers are attached by the height separation, the grid can be moved in the cross section (version A) or fixed (version B).



More product information online

Assembly instructions etc.: Additional info via your smartphone or check online at **tsubaki-kabelschlepp.com/support**

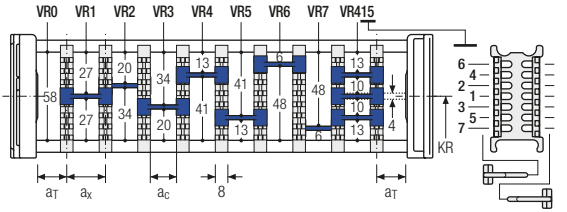
Configure your custom cable carrier here: **onlineengineer.de**

ME0950 RE | Inner distribution | TS3

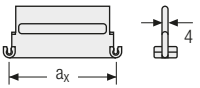
Divider system TS3 with height separation made of plastic partitions

Vers.	a_T min [mm]	a_x min [mm]	a_C min [mm]	n_T min
A	4	16 / 42*	8	2

* For aluminum partitions



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



Aluminum partitions in 1 mm increments with **a_x > 42 mm** are also available.

a_x (center distance of dividers) [mm]											
a_C (nominal 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 **plastic partitions with a_x > 112 mm**, we recommend an additional center support with a **twin divider** (S_T = 4 mm). Twin dividers are also suitable for retrofitting in the partition system.

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.

More product information online

Assembly instructions etc.: Additional info via your smartphone or check online at **tsubaki-kabelschlepp.com/support**

Configure your custom cable carrier here: **onlineengineer.de**

Key for abbreviations on page 16

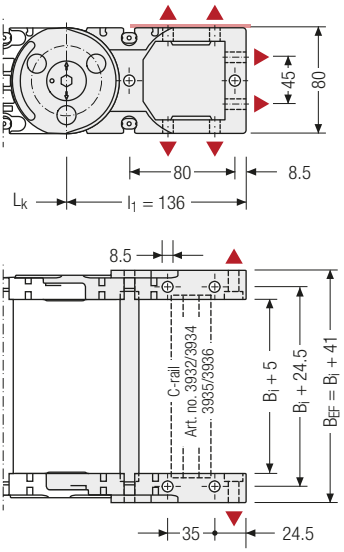
Design guidelines from page 62

Technical support: **technik@kabelschlepp.de**

M0950 | End connectors

Universal end connectors UMB – plastic (standard)

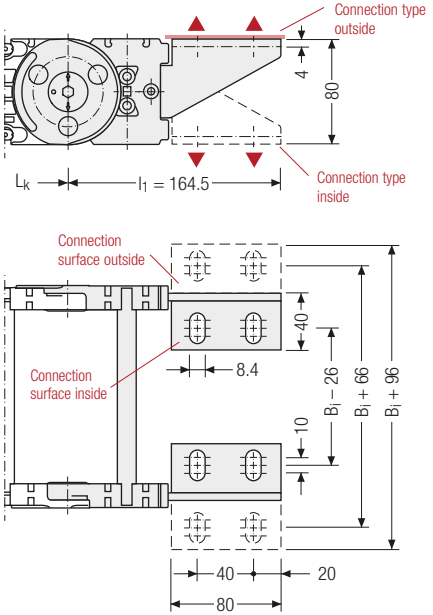
The universal mounting brackets (UMB) are made from plastic and can be mounted **from the top, from the bottom, face on or from the side.**



Recommended tightening torque: 27 Nm for cheese-head screws ISO 4762 - M8 - 8.8

End connectors – plastic/steel

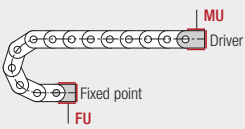
Plastic link end connector, steel end connector. The connection variants on the fixed point and on the driver can be combined and, if required, changed afterwards.



▲ Assembly options

Connection point
F – fixed point
M – driver

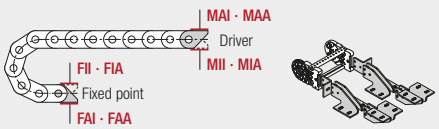
Connection type
U – universal mounting bracket



Connection point
F – fixed point
M – driver

Connection surface
I – connection surface inside
A – connection surface outside

Connection type
A – threaded joint outside (standard)
I – threaded joint inside



Order example

Plastic/steel	.	F	A	A
UMB	.	M	U	
End connector		Connection point	Connection type	Connection surface

We recommend the use of strain reliefs before driver and fixed point. See from p. 794.

M1250 | Stay variants | Overview

M1250

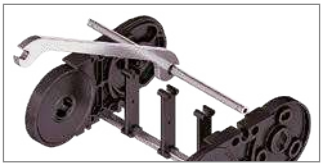
Pitch
125 mm

Inner heights
69 – 72 mm

Inner widths
71 – 800 mm

Bending radii
180 – 500 mm

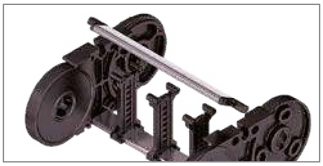
Stay variants



Aluminum stay RS ..... page 360

Frame stay, narrow "The standard"

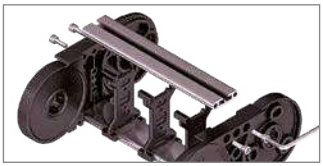
- Aluminum profile bars for light to medium loads. Assembly without screws.
- **Outside/inside:** release by turning by 90°.



Aluminum stay RV ..... page 364

Frame stay, reinforced

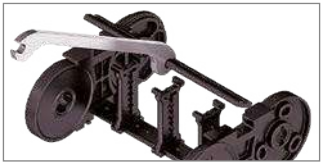
- Aluminum profile bars with plastic adapter for medium to high loads and large cable carrier widths. Assembly without screws.
- **Outside/inside:** release by turning by 90°.



Aluminum stay RM ..... page 368

Frame stay, solid

- Aluminum profile bars for heavy loads and maximum cable carrier widths. Double threaded joints on both sides **"Heavy Duty"**.
- **Inside/outside:** Threaded joint easy to release.



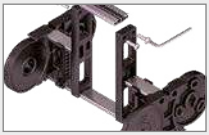
Plastic stay RE ..... page 370

Frame screw-in stay

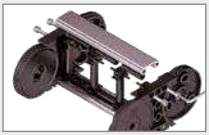
- Plastic profile bars for light to medium loads. Assembly without screws.
- **Outside/inside:** release by turning by 90°.

Additional stay variants on request

Aluminum stay LG
Optimum cable routing in the neutral bending line.



Aluminum stay RMA
For guiding very large cable diameters.

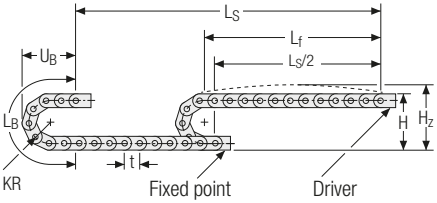


Aluminum stay RMR
Gentle cable guiding with rollers.

Plastic stay RD
Plastic profile bars with hinge.

M1250 | Installation dim. | Unsupported · Gliding

Unsupported arrangement

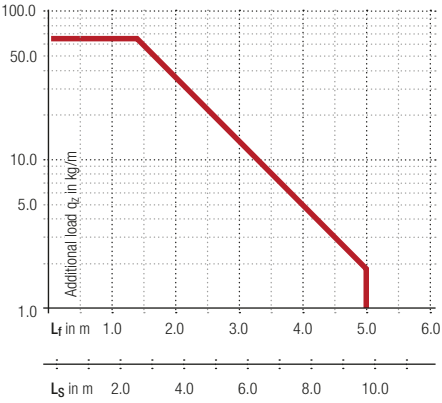


KR [mm]	H [mm]	H_Z [mm]	L_B [mm]	U_B [mm]
180	456	506	816	353
220	536	586	942	393
260	616	666	1067	433
300	696	746	1193	473
340	776	826	1319	513
380	856	906	1444	553
500	1096	1146	1821	673

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 = 4.5 kg/m. For other inner widths, the maximum additional load changes.



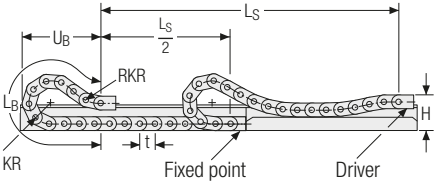
Speed
up to 10 m/s

Acceleration
up to 25 m/s²

Travel length
up to 9.7 m

Additional load
up to 65 kg/m

Gliding arrangement | GO module with chain links optimized for gliding



KR [mm]	H [mm]	n_{RKR}	L_B [mm]	U_B [mm]
220	288	4	2500	1088
260	288	4	2625	1140
300	288	4	2750	1177
340	288	4	3125	1318
380	288	4	3375	1403
500	288	4	4375	1770

Speed
up to 8 m/s

Acceleration
up to 20 m/s²

Travel length
up to 320 m

Additional load
up to 65 kg/m

The gliding cable carrier must be guided in a channel. See p. 732.

The GO module mounted on the driver is a defined sequence of 4 adapted KR/RKR link plates.

Glide shoes have to be used for gliding applications.

Our technical support can provide help for gliding arrangements:
technik@kabelschlepp.de

Key for abbreviations on page 16

Design guidelines from page 62

Technical support:
technik@kabelschlepp.de

MC1250 RS | Dimensions · Technical data

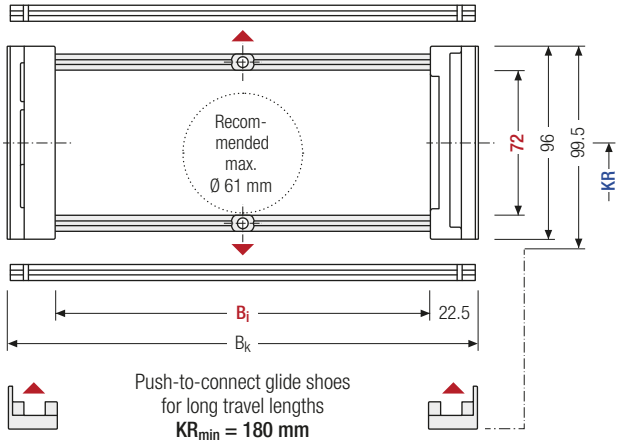
Aluminum stay RS –
frame stay narrow

- Extremely quick to open and close
- Aluminum profile bars for light to medium loads. Assembly without screws.
- Available customized in **1 mm grid**.
- **Outside/inside:** release by turning by 90°.

Stay arrangement on every 2nd chain link, **standard (HS: half-stayed)**

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

1 mm
B_i 75 – 400 mm in **1 mm width sections**



Push-to-connect glide shoes for long travel lengths
KR_{min} = 180 mm

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

For rough environmental conditions, we recommend the use of OFFROAD glide shoes with 80 % higher wear volume.

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]	$h_{G'}$ Offroad [mm]	B_i [mm]*	B_k [mm]	KR [mm]							q_k [kg/m]
72	96	99.5	103	75 – 400	B_i + 45	180	220	260	300	340	380	500	4.10 – 4.97

* in 1 mm width sections

Order example

MC1250	.	400	.	RS	.	300	-	4250	HS
Type		B_i [mm]		Stay variant		KR [mm]		L_k [mm]	Stay arrangement

Divider systems

As a standard, the divider system is mounted on each crossbar – for stay mounting on every 2nd chain link (HS).

As a standard, dividers and the complete divider system (dividers with height separations) can be moved in the cross section **(version A).**

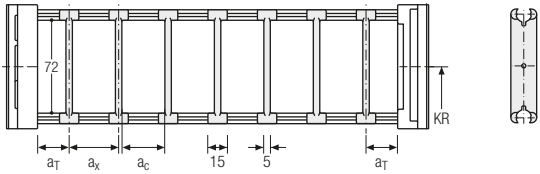
For applications with lateral acceleration and rotated by 90°, the dividers can be attached by simply clipping on a socket (available as an accessory).

The bushing additionally serves as a spacer between the dividers and is available in 1 mm sections between 3 – 50 mm **(version B)**.

Divider system TS0 without height separation

Vers.	$a_{T\ min}$ [mm]	$a_{x\ min}$ [mm]	$a_{C\ min}$ [mm]	$n_{T\ min}$
A	7.5	15	10	–

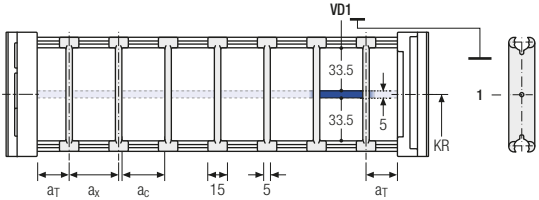
The dividers can be moved in the cross section.



Divider system TS1 with continuous height separation

Vers.	$a_{T\ min}$ [mm]	$a_{T\ max}$ [mm]	$a_{x\ min}$ [mm]	$a_{C\ min}$ [mm]	n_T min
A	7.5	25	15	10	2

The dividers can be moved in the cross section.



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 especially developed, optimized and tested for use in cable carriers can be found at **traxline.de**

MC1250 RS | Inner distribution | TS3

Divider system TS3 with height separation consisting of plastic partitions

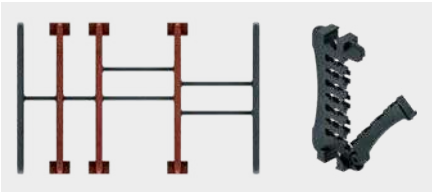
As a standard, the divider **version A** is used for vertical partitioning within the cable carrier. The complete divider system can be moved within the cross section.

Key for abbreviations on page 16

Design guidelines from page 62

Technical support: technik@kabelschlepp.de

Divider version A

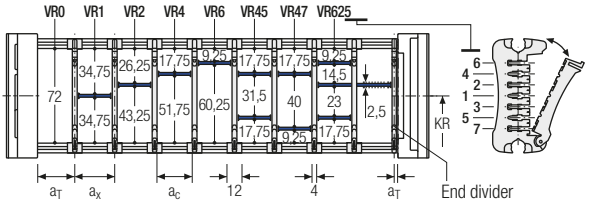


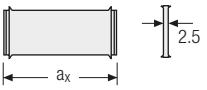
End divider

Vers.	$a_{T\ min}$ [mm]	$a_{x\ min}$ [mm]	$a_{C\ min}$ [mm]	n_T min
A	6 / 2*	14	10	2

* For End divider

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





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

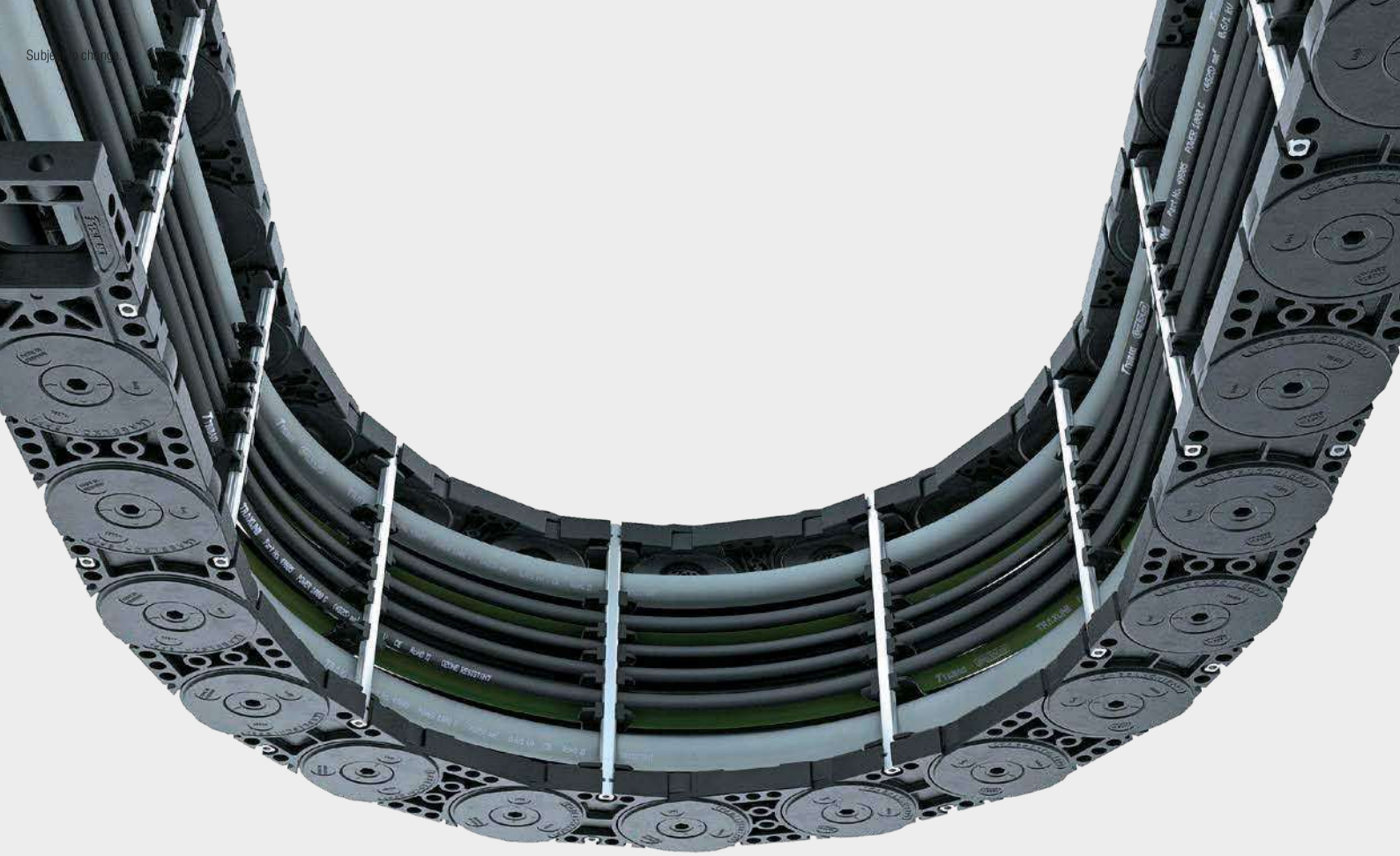
When using **partitions with a_x > 49 mm** we recommended an additional preferential central support.

Order example

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

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

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



Key for abbreviations on page 16

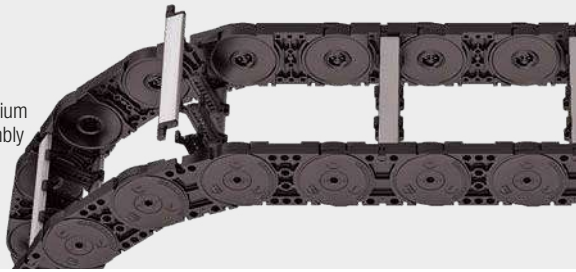
Design guidelines from page 62

Technical support:
technik@kabelschlepp.de

MC1250 RV | Dimensions · Technical data

Aluminum stay RV – frame stay reinforced

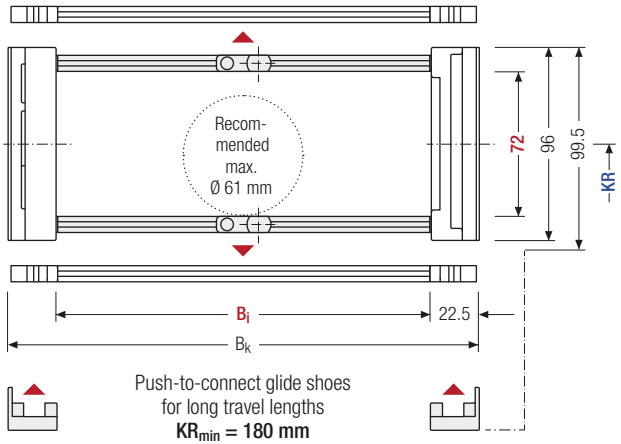
- Aluminum profile bars with plastic adapter for medium to high loads and large cable carrier widths. Assembly without screws.
- Available customized in **1 mm grid**.
- **Outside/inside:** release by turning by 90°.



Stay arrangement on every 2nd chain link, **standard (HS: half-stayed)**

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

1 mm
B_i 100 – 600 mm in **1 mm width sections**



Push-to-connect glide shoes for long travel lengths
KR_{min} = 180 mm

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

For rough environmental conditions, we recommend the use of OFFROAD glide shoes with 80 % higher wear volume.

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]	$h_{G'}$ Offroad [mm]	B_i [mm]*	B_k [mm]	KR [mm]							q_k [kg/m]
72	96	99.5	103	100 – 600	B_i + 45	180	220	260	300	340	380	500	4.40 – 6.18

* in 1 mm width sections

Order example

MC1250	.	400	.	RV	.	300	-	4250	HS
Type		B_i [mm]		Stay variant		KR [mm]		L_k [mm]	Stay arrangement

MC1250 RV | Inner distribution | TS0 · TS1 · TS2

Divider systems

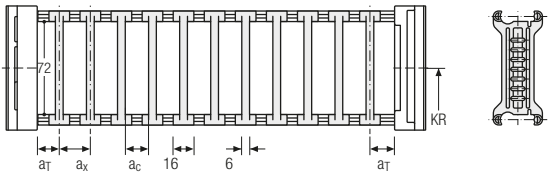
As a standard, the divider system is mounted on each crossbar – for stay mounting on every 2nd chain link (HS).

As a standard, dividers and the complete divider system (dividers with height separations) can be moved in the cross section **(version A).**

Divider system TS0 without height separation

Vers.	$a_{T\,min}$ [mm]	$a_{x\,min}$ [mm]	$a_{C\,min}$ [mm]	$n_{T\,min}$
A	8	16	10	2

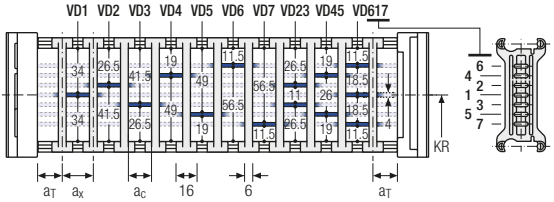
The dividers can be moved in the cross section.



Divider system TS1 with continuous height separation

Vers.	$a_{T\,min}$ [mm]	$a_{T\,max}$ [mm]	$a_{x\,min}$ [mm]	$a_{C\,min}$ [mm]	$n_{T\,min}$
A	8	25	16	10	2

The dividers can be moved in the cross section.

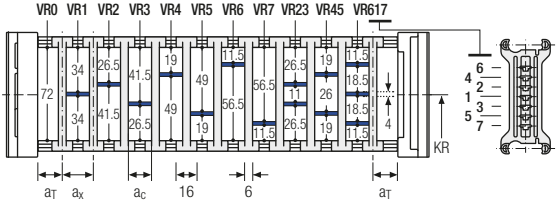


Divider system TS2 with partial height separation

Vers.	$a_{T\,min}$ [mm]	$a_{x\,min}$ [mm]	$a_{C\,min}$ [mm]	$n_{T\,min}$
A	8	21	15	2

With grid distribution **(1 mm grid)**.
The dividers are attached by the height separation, the grid can be moved in the cross section.

Sliding dividers are optionally available (thickness of divider = 6 mm).



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TRAXLINE® cables for cable carriers

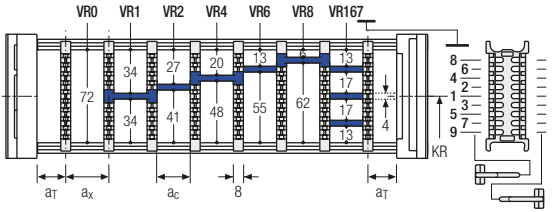
Hi-flex electric cables which were especially developed, optimized and tested for use in cable carriers can be found at **traxline.de**

MC1250 RV | Inner distribution | TS3

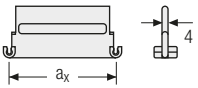
Divider system TS3 with height separation made of plastic partitions

Vers.	a_T min [mm]	a_x min [mm]	a_c min [mm]	n_T min
A	4	16/42**	8	2

* For aluminum partitions



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



Aluminum partitions in 1 mm increments with **a_x > 42 mm** are also available.

a_x (center distance of dividers) [mm]											
a_c (nominal 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 **plastic partitions with a_x > 112 mm**, we recommend an additional center support with a **twin divider** (S_T = 4 mm). Twin dividers are also suitable for retrofitting in the partition system.

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.

More product information online

Assembly instructions etc.: Additional info via your smartphone or check online at **tsubaki-kabelschlepp.com/support**

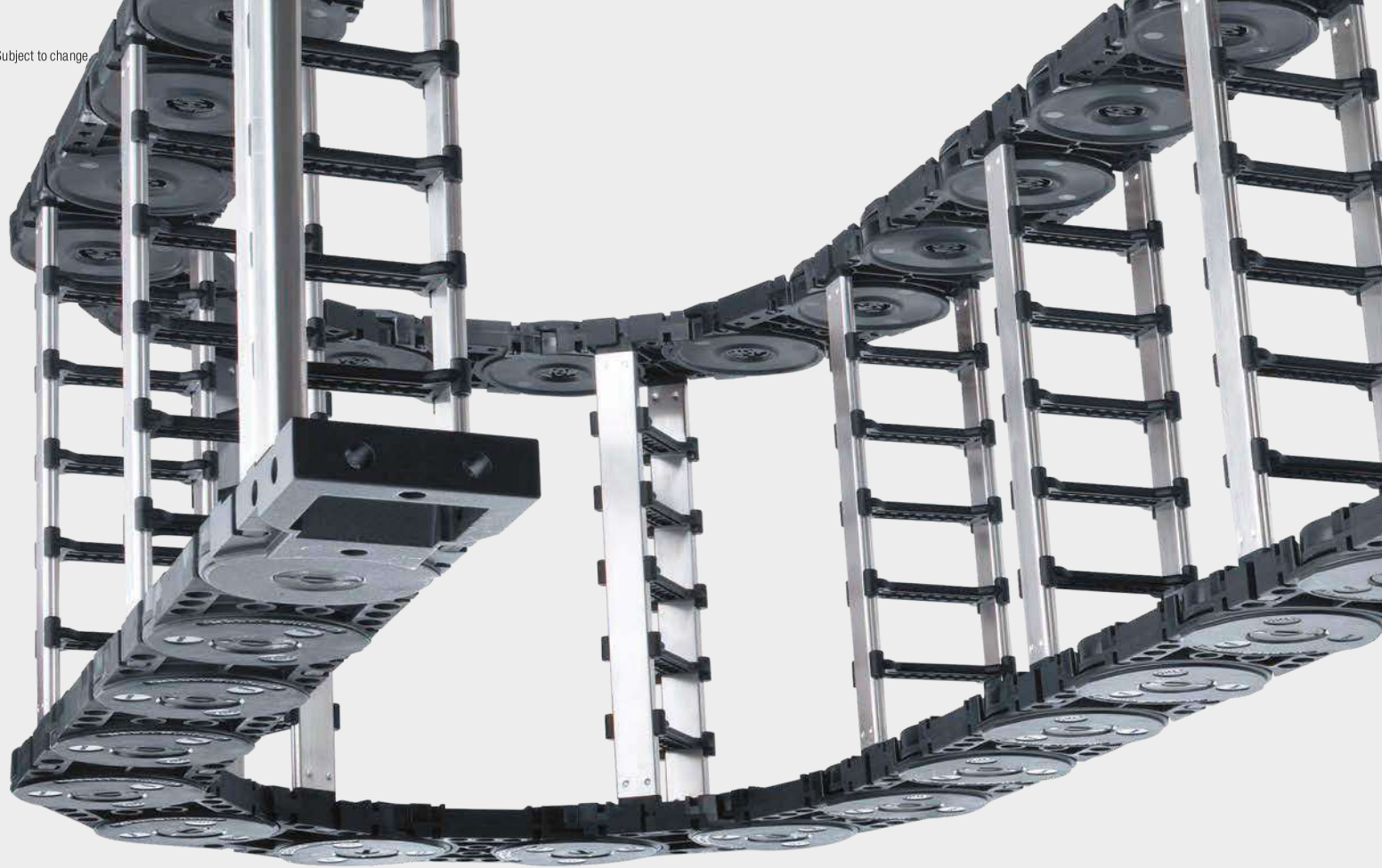
Configure your custom cable carrier here: **onlineengineer.de**

Key for abbreviations on page 16

Design guidelines from page 62

Technical support: **technik@kabelschlepp.de**

Subject to change



Key for abbreviations on page 16

Design guidelines from page 62

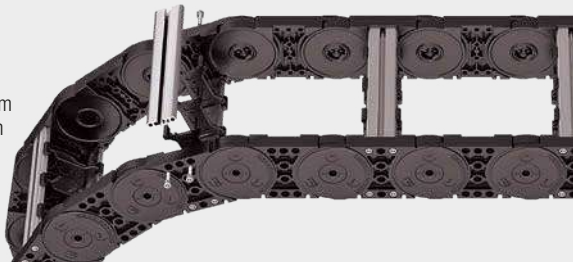
Technical support:
technik@kabelschlepp.de

MC1250 RM | Dimensions · Technical data

Aluminum stay RM –
frame stay solid

- Aluminum profile bars for heavy loads and maximum cable carrier widths. Double threaded joints on both sides **"Heavy Duty"**.
- Available customized in **1 mm grid**.
- **Inside/outside:** Threaded joint easy to release.

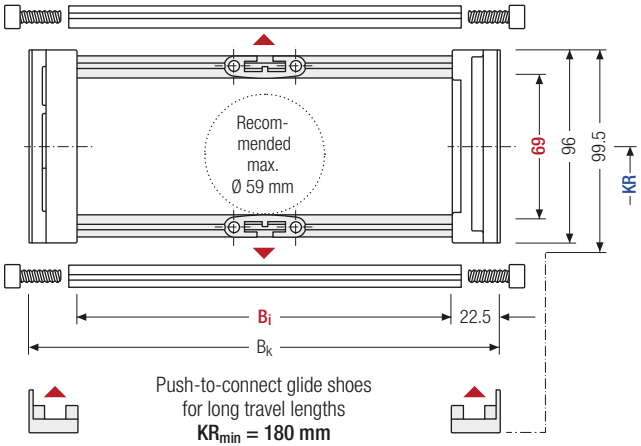
HEAVY DUTY
TSUBAKI KABELSCHLEPP



Stay arrangement on every 2nd chain link, **standard (HS: half-stayed)**

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

1 mm
B_i 100 – 800 mm in **1 mm width sections**



Push-to-connect glide shoes for long travel lengths
KR_{min} = 180 mm

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

For rough environmental conditions, we recommend the use of OFFROAD glide shoes with 80 % higher wear volume.

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]	$h_{G'}$ Offroad [mm]	B_i [mm]*	B_k [mm]	KR [mm]							q_k [kg/m]
69	96	99.5	103	100 – 800	B_i + 45	180	220	260	300	340	380	500	4.14 – 8.48

* in 1 mm width sections

Order example

MC1250	.	400	.	RM	.	300	-	4250	HS
Type		B_i [mm]		Stay variant		KR [mm]		L_k [mm]	Stay arrangement

MC1250 RM | Inner distribution | TS0 · TS1 · TS2

Divider systems

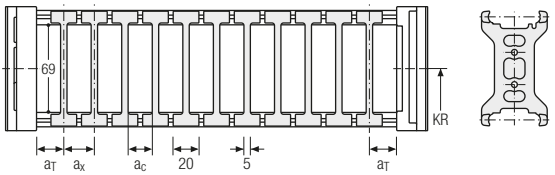
As a standard, the divider system is mounted on each crossbar – for stay mounting on every 2nd chain link (HS).

As a standard, dividers and the complete divider system (dividers with height separations) can be moved in the cross section **(version A).**

Divider system TS0 without height separation

Vers.	$a_{T\,min}$ [mm]	$a_{x\,min}$ [mm]	$a_{c\,min}$ [mm]	$n_{T\,min}$
A	10	20	15	–

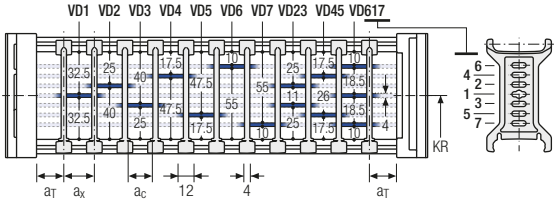
The dividers can be moved in the cross section.



Divider system TS1 with continuous height separation

Vers.	$a_{T\,min}$ [mm]	$a_{T\,max}$ [mm]	$a_{x\,min}$ [mm]	$a_{c\,min}$ [mm]	$n_{T\,min}$
A	6	25	12	8	2

The dividers can be moved in the cross section.

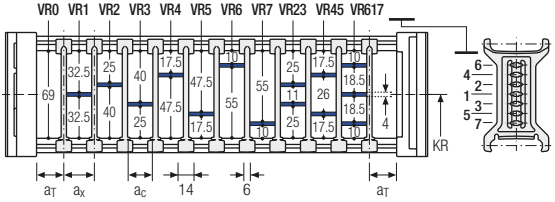


Divider system TS2 with partial height separation

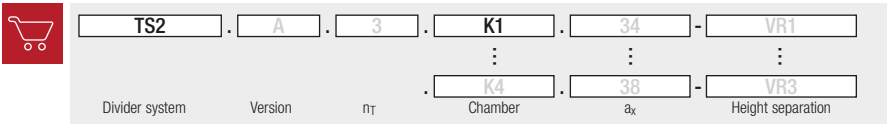
Vers.	$a_{T\,min}$ [mm]	$a_{x\,min}$ [mm]	$a_{c\,min}$ [mm]	$n_{T\,min}$
A	7	21	15	2

With grid distribution **(1 mm grid)**. The dividers are attached by the height separation, the grid can be moved in the cross section.

Sliding dividers are optionally available (thickness of divider = 4 mm).



Order example



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 – TS2)** please also state the positions [e.g. VD23] viewed from the left driver belt. You are welcome to add a sketch to your order.

Key for abbreviations on page 16

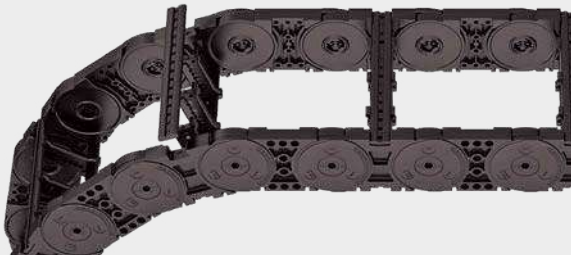
Design guidelines from page 62

Technical support:
technik@kabelschlepp.de

ME1250 RE | Dimensions · Technical data

Plastic stay RE – screw-in frame stay

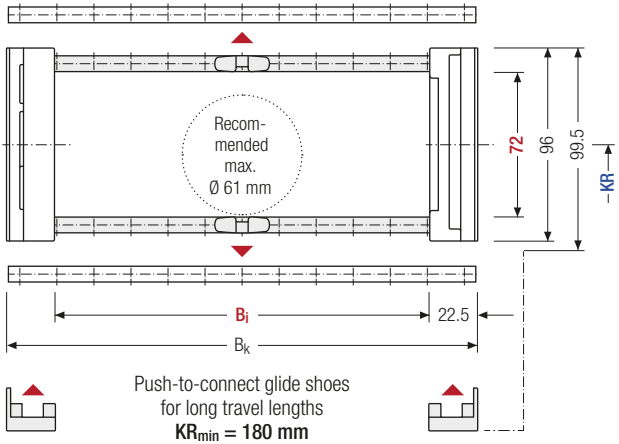
- Plastic profile bars for light to medium loads. Assembly without screws.
- Available customized in **16 mm grid**.
- **Outside/inside:** release by turning by 90°.



Stay arrangement on every 2nd chain link, **standard (HS: half-stayed)**

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

16 mm B_i 71 – 551 mm in **16 mm width sections**



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

For rough environmental conditions, we recommend the use of OFFROAD glide shoes with 80 % higher wear volume.

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]	$h_{G'}$ Offroad [mm]	B_i [mm]								B_k [mm]	KR [mm]		q_k [kg/m]
72	96	99.5	103	71	87	103	119	135	151	167	183	B_i + 45	180	220	4.30 – 5.80
				199	215	231	247	263	279	295	311		260	300	
				327	343	359	375	391	407	423	439		340	380	
				455	471	487	503	535	551				500		

Order example

ME1250	.	407	.	RE	.	300	-	4250		HS
Type		B_i [mm]		Stay variant		KR [mm]		L_k [mm]		Stay arrangement

ME1250 RE | Inner distribution | TS0 · TS1 · TS2

Divider systems

As a standard, the divider system is mounted on each crossbar – for stay mounting on every 2nd chain link (HS).

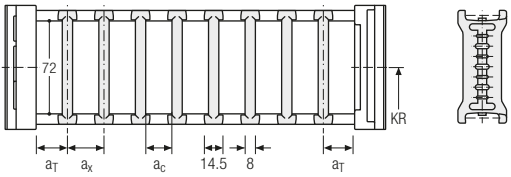
As a standard, dividers and the complete divider system (dividers with height separations) can be moved in the cross section **(version A).**

The dividers are easily attached to the stay for applications with lateral acceleration and for applications laying on their side by simply turning the frame stay by 180°. The arresting cams click into place in the locking grids in the crossbars **(version B)**.
The groove in the frame stay faces outwards.

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	14.5	6.5	–	–
B	19.5	16	8	16	–

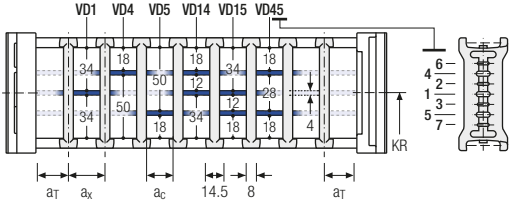
The dividers can be moved within the cross section (version A) or fixed (version B).



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	25	14.5	6.5	–	2
B	19.5	19.5	16	8	16	2

The dividers can be moved within the cross section (version A) or fixed (version B).

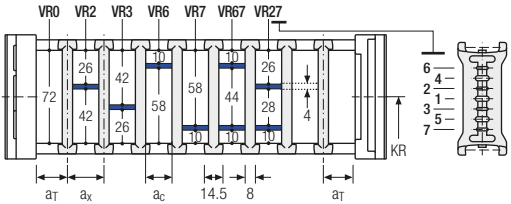


Divider system TS2 with partial height separation

Vers.	$a_{T\,min}$ [mm]	$a_{x\,min}$ [mm]	$a_{C\,min}$ [mm]	$a_{x\,grid}$ [mm]	$n_{T\,min}$
A	5	14.5*/20	6.5*/12	–	2
B	19.5	16*/32	8*/24	16	2

* for VR0

With grid distribution **(16 mm grid)**. The dividers are fixed by the height separation, the complete divider system is movable in the cross section (version A) or fixed (version B).

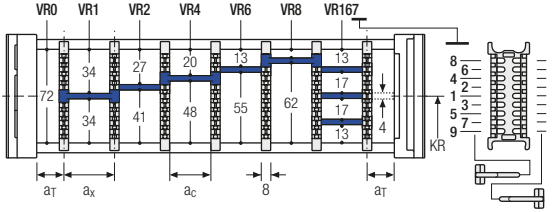


ME1250 RE | Inner distribution | TS3

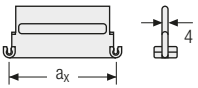
Divider system TS3 with height separation made of plastic partitions

Vers.	a_T min [mm]	a_x min [mm]	a_C min [mm]	n_T min
A	4	16 / 42*	8	2

* For aluminum partitions



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



Aluminum partitions in 1 mm increments with **a_x > 42 mm** are also available.

a_x (center distance of dividers) [mm]											
a_C (nominal 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 **plastic partitions with a_x > 112 mm**, we recommend an additional center support with a **twin divider** (S_T = 4 mm). Twin dividers are also suitable for retrofitting in the partition system.

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.

More product information online

Assembly instructions etc.: Additional info via your smartphone or check online at **tsubaki-kabelschlepp.com/support**

Configure your custom cable carrier: here **onlineengineer.de**

Key for abbreviations on page 16

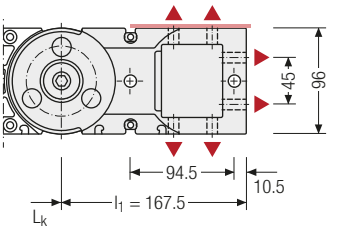
Design guidelines from page 62

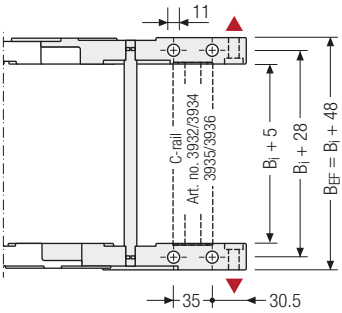
Technical support: **technik@kabelschlepp.de**

M1250 | End connectors

Universal end connectors UMB – plastic (standard)

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

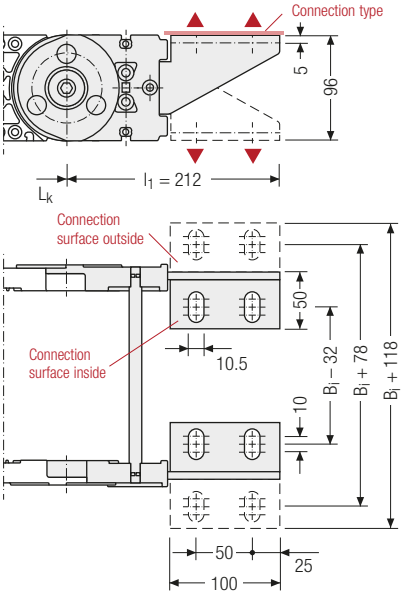




Recommended tightening torque: 54 Nm for cheese-head screws ISO 4762 - M10 - 8.8

End connectors – plastic/steel

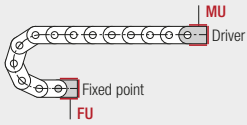
Plastic link end connector, steel end connector. The connection variants on the fixed point and on the driver can be combined and, if required, changed afterwards.



▲ Assembly options

Connection point
F – fixed point
M – driver

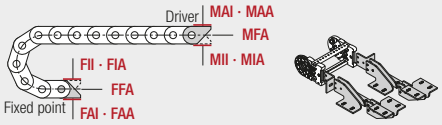
Connection type
U – universal mounting bracket



Connection point
F – fixed point
M – driver

Connection surface
I – connection surface inside
A – connection surface outside

Connection type
A – threaded joint outside (standard)
I – threaded joint inside
F – flange connection



Order example

Plastic/steel	.	F	A	A
UMB	.	M	U	
End connector		Connection point	Connection type	Connection surface

We recommend the use of strain reliefs before driver and fixed point. See from p. 794.

M1300

Pitch
130 mm

Inner height
87 mm

Inner widths
100 – 800 mm

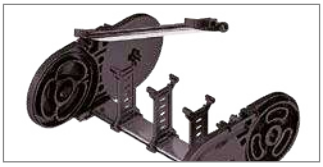
Bending radii
150 – 500 mm

Stay variants

Aluminum stay RMF page 376

Frame stay solid with optional fixing profile

- Aluminum profile bars for heavy loads and large cable carrier widths. Easy threaded connection.
- **Inside/outside:** Threaded joint easy to release.



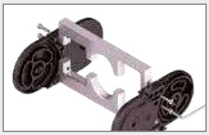
Aluminum stay RMS page 378

Frame stay solid with ball joint

- Aluminum profile bars with plastic ball joint for heavy loads and large cable carrier widths. Assembly without screws.
- **Inside/outside:** Swivable and detachable.

Additional stay variants on request

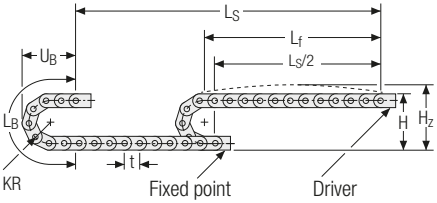
Aluminum stay RM
Aluminum profile bars for high loads.



Aluminum stay LG
Optimum cable routing in the neutral bending line.

M1300 | Installation dim. | Unsupported · Gliding

Unsupported arrangement

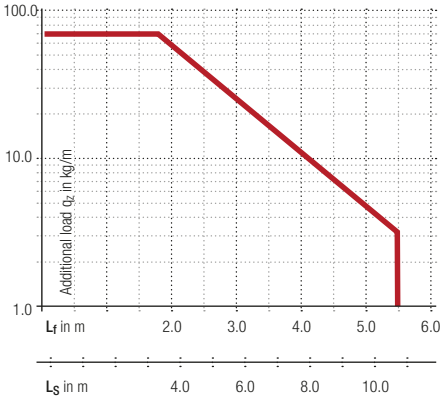


KR [mm]	H [mm]	H_Z [mm]	L_B [mm]	U_B [mm]
150	480	540	732	340
195	570	630	873	385
240	660	720	1014	430
280	740	800	1140	470
320	820	880	1266	510
360	900	960	1391	550
400	980	1040	1517	590
500	1180	1240	1831	690

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 = 8.0 kg/m. For other inner widths, the maximum additional load changes.



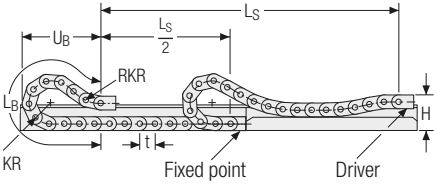
Speed
up to 10 m/s

Acceleration
up to 25 m/s²

Travel length
up to 10.8 m

Additional load
up to 70 kg/m

Gliding arrangement | GO module with chain links optimized for gliding



KR [mm]	H [mm]	n_{RKR}	L_B [mm]	U_B [mm]
240	360	4	2730	1180
320	360	4	2880	1240
360	360	4	3140	1331
500	360	4	4310	1756

Speed
up to 8 m/s

Acceleration
up to 20 m/s²

Travel length
up to 350 m

Additional load
up to 70 kg/m

The gliding cable carrier must be guided in a channel. See p. 732.

The GO module mounted on the driver is a defined sequence of 4 adapted KR/RKR link plates.

Glide shoes are required for gliding applications.

Our technical support can provide help for gliding arrangements:
technik@kabelschlepp.de

Key for abbreviations on page 16

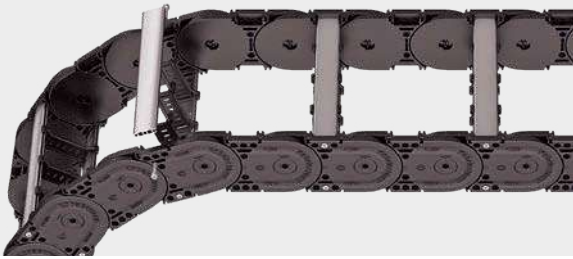
Design guidelines from page 62

Technical support:
technik@kabelschlepp.de

MC1300 RMF | Dimensions · Technical data

Aluminum stay RMF –
frame stay solid
with optional fixing profile

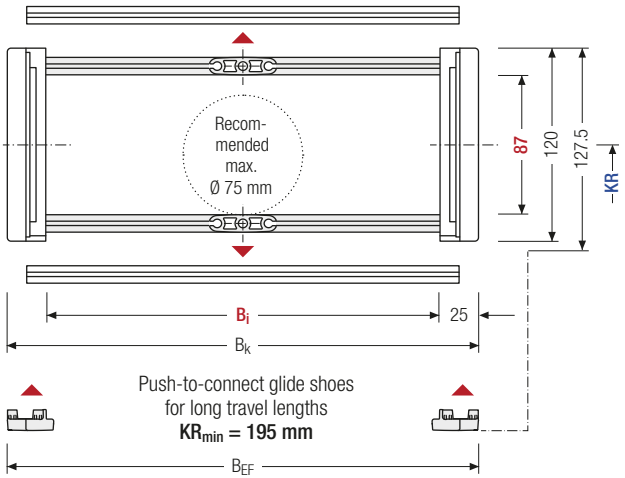
- Aluminum profile bars for heavy loads and large cable carrier widths. Easy threaded connection.
- Available customized in **1 mm grid**.
- **Inside/outside:** Threaded joint easy to release.



Stay arrangement on every 2nd chain link, **standard (HS: half-stayed)**

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

1 mm
B_i 100 – 800 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]	KR [mm]								q_k [kg/m]
87	120	127.5	100 – 800	B_i + 50	150	195	240	280	320	360	400	500	6.24 – 9.59

* in 1 mm width sections

Order example

MC1300	.	400	.	RMF	.	360	-	6500	HS
Type		B_i [mm]		Stay variant		KR [mm]		L_k [mm]	Stay arrangement

MC1300 RMF | Inner distribution | TS0 · TS1 · TS3

Divider systems

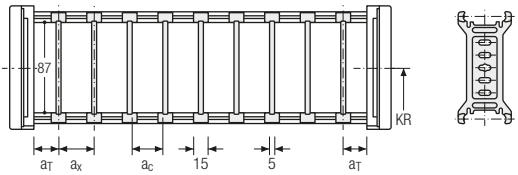
As a standard, the divider system is mounted on each crossbar – for stay mounting on every 2nd chain link (HS). As a standard, dividers and the complete divider system (dividers with height separations) can be moved in the cross section **(version A).**

For applications with lateral acceleration and lying on the side, the dividers can be attached by simple insertion of a fixing profile into the RMS stay, available as an accessory **(version B)**.

Divider system TS0 without height separation

Vers.	a_T min [mm]	a_X min [mm]	a_C min [mm]	a_X Raster [mm]	n_T min
A	7.5	15	10	–	–
B	10	15	10	5	–

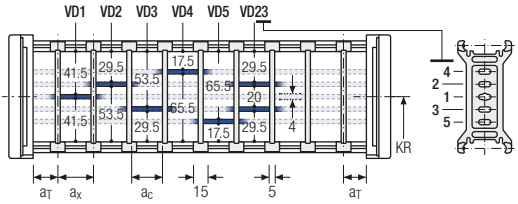
The dividers can be moved within the cross section (version A) or fixed (version B).



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 Raster [mm]	n_T min
A	7.5	25	15	10	–	2
B	10	25	15	10	5	2

The dividers can be moved within the cross section (version A) or fixed (version B).

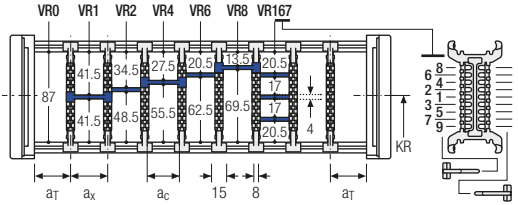


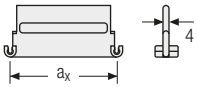
Divider system TS3 with partial height separation

Vers.	a_T min [mm]	a_X min [mm]	a_C min [mm]	n_T min
A	7.5	16/42*	8	2

* For aluminum partitions

With grid distribution **(1 mm grid)**. The dividers are attached by the height separation, the grid can be moved in the cross section.





Aluminum partitions in 1 mm increments with **a_X > 42 mm** are also available.

a_X (center distance of dividers) [mm]											
a_C (nominal 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 **plastic partitions with a_X > 112 mm**, we recommend an additional center support with a **twin divider** (S_T = 5 mm). Twin dividers are also suitable for retrofitting in the partition system. The height separations VR8 and VR9 are not possible when using twin dividers.

Key for abbreviations on page 16

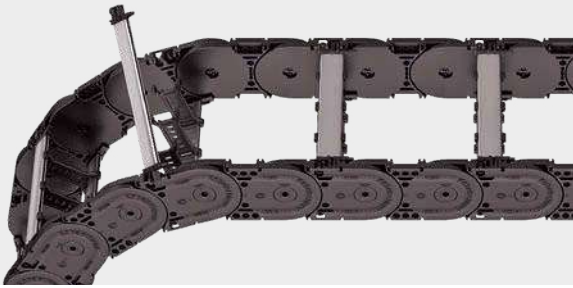
Design guidelines from page 62

Technical support:
technik@kabelschlepp.de

MC1300 RMS | Dimensions · Technical data

Aluminum stay RMS –
frame stay reinforced

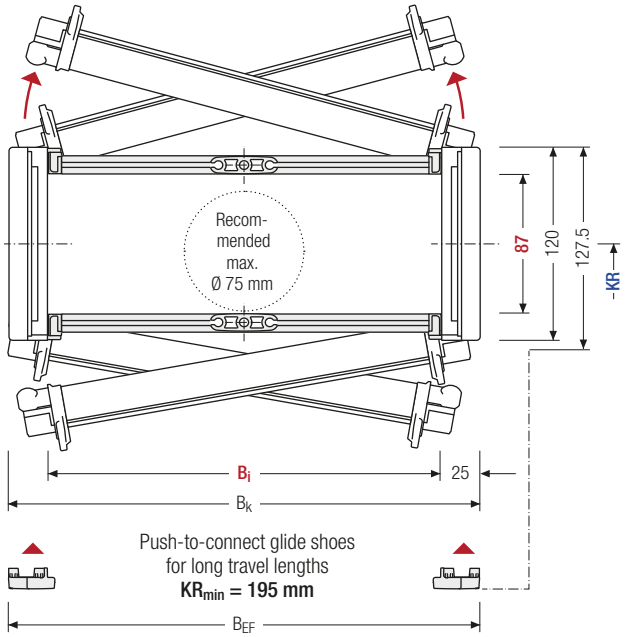
- Aluminum profile bars with plastic ball joint for heavy loads and large cable carrier widths. Assembly without screws.
- Available customized in **1 mm grid**.
- **Inside/outside:** Swivable and detachable.



Stay arrangement on every 2nd chain link, **standard (HS: half-stayed)**

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

1 mm
B_i 100 – 800 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]	KR [mm]								q_k [kg/m]
87	120	127.5	**100 – 800**	B_i + 50	**150**	**195**	**240**	**280**	**320**	**360**	**400**	**500**	6.31 – 6.65

* in 1 mm width sections

Order example

MC1300	.	400	.	RMS	.	360	-	6500		HS
Type		B_i [mm]		Stay variant		KR [mm]		L_k [mm]		Stay arrangement

MC1300 RMS | Inner distribution | TS0 · TS1 · TS3

Divider systems

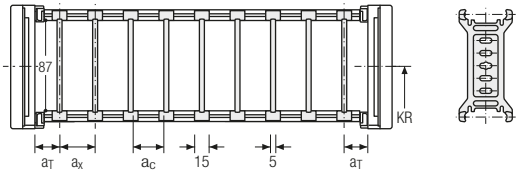
As a standard, the divider system is mounted on each crossbar – for stay mounting on every 2nd chain link (HS). As a standard, dividers and the complete divider system (dividers with height separations) can be moved in the cross section **(version A).**

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 Raster [mm]	n_T min
A	15.5	15	10	–	–
B	18.5	15	10	5	–

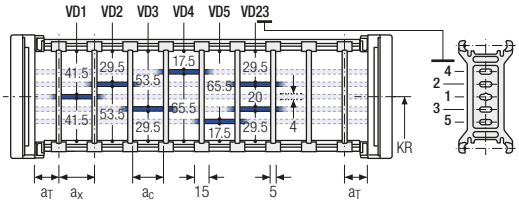
The dividers can be moved within the cross section (version A) or fixed (version B).



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 Raster [mm]	n_T min
A	15.5	25	15	10	–	2
B	18.5	25	15	10	5	2

The dividers can be moved within the cross section (version A) or fixed (version B).

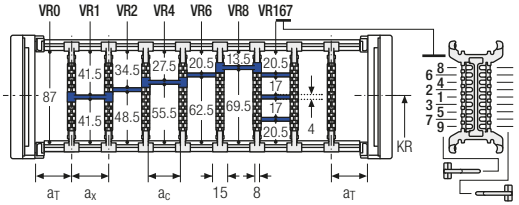


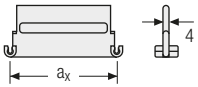
Divider system TS3 with partial height separation

Vers.	a_T min [mm]	a_X min [mm]	a_C min [mm]	n_T min
A	15.5	16/42*	8	2

* For aluminum partitions

With grid distribution **(1 mm grid)**. The dividers are attached by the height separation, the grid can be moved in the cross section.





Aluminum partitions in 1 mm increments with **a_X > 42 mm** are also available.

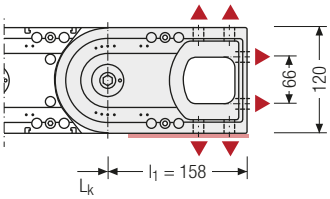
a_X (center distance of dividers) [mm]											
a_C (nominal width of inner chamber) [mm]											
16	**18**	**23**	**28**	**32**	**33**	**38**	**43**	**48**	**58**	**64**	**68**
8	10	15	20	24	25	30	35	40	50	56	60
78	**80**	**88**	**96**	**112**	**128**	**144**	**160**	**176**	**192**	**208**	
70	72	80	88	104	120	136	152	168	184	200	

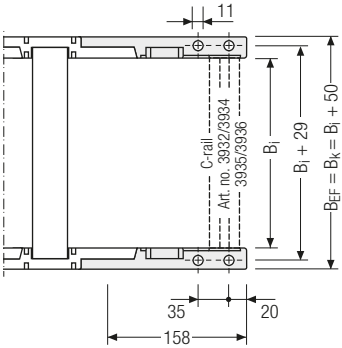
When using **plastic partitions with a_X > 112 mm**, we recommend an additional center support with a **twin divider** (S_T = 5 mm). Twin dividers are also suitable for retrofitting in the partition system. The height separations VR8 and VR9 are not possible when using twin dividers.

M1300 | End connectors

Universal end connectors UMB – plastic (standard)

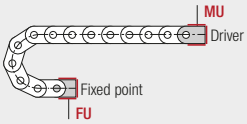
The universal mounting brackets (UMB) are made from plastic and can be mounted **from the top, from the bottom, face on or from the side.**





▲ Assembly options

Recommended tightening torque: 54 Nm
for cheese-head screws ISO 4762 - M10 - 8.8



Connection point
F – fixed point
M – driver

Connection type
U – universal mounting bracket

Order example

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

We recommend the use of strain reliefs before driver and fixed point. See from p. 794.

More product information online

Assembly instructions etc.: Additional info via your smartphone or check online at **tsubaki-kabelschlepp.com/support**

Configure your custom cable carrier here: **onlineengineer.de**

Key for abbreviations on page 16
Design guidelines from page 62

Technical support:
technik@kabelschlepp.de

Inner heights

87

Inner widths

100
800