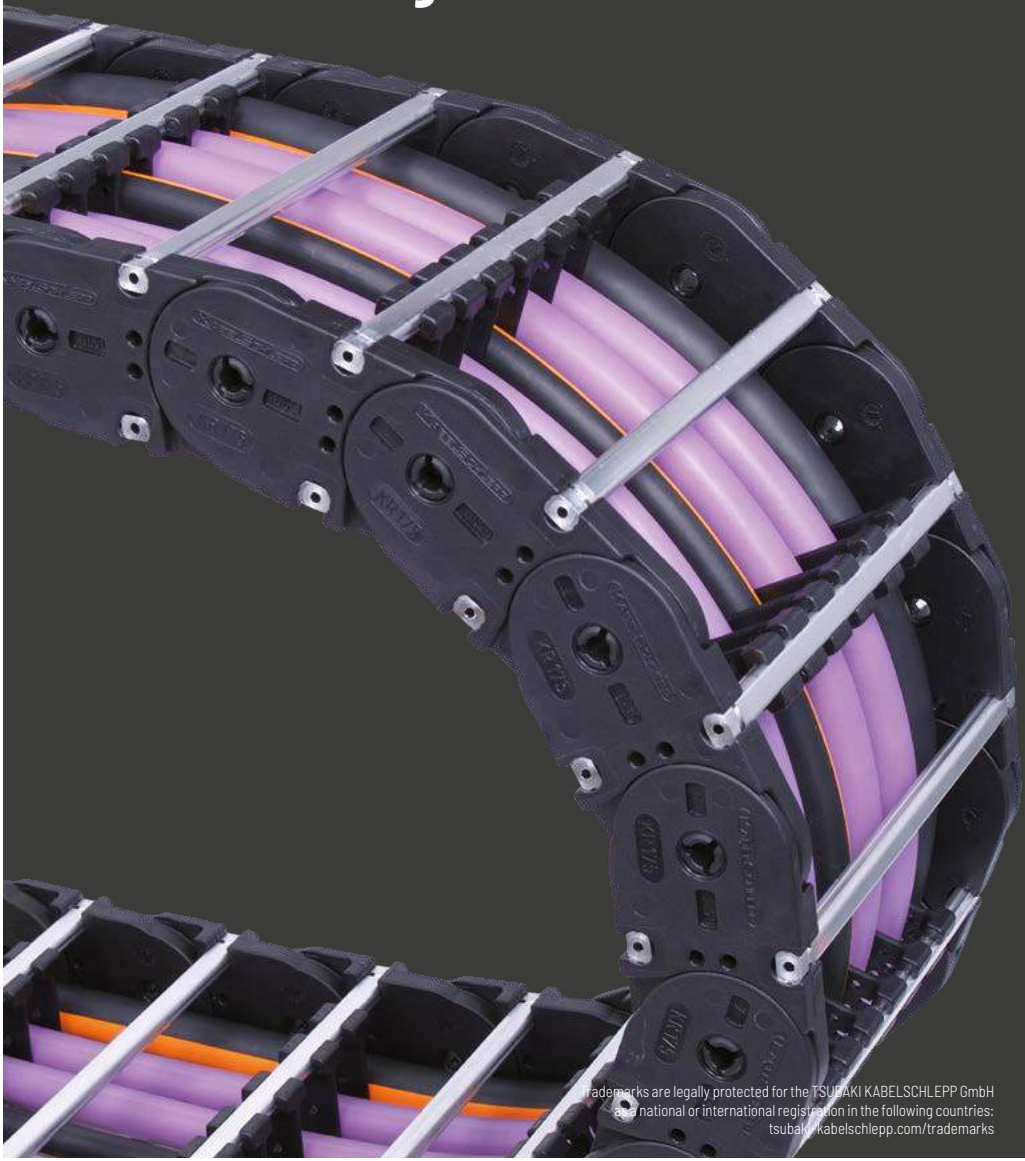
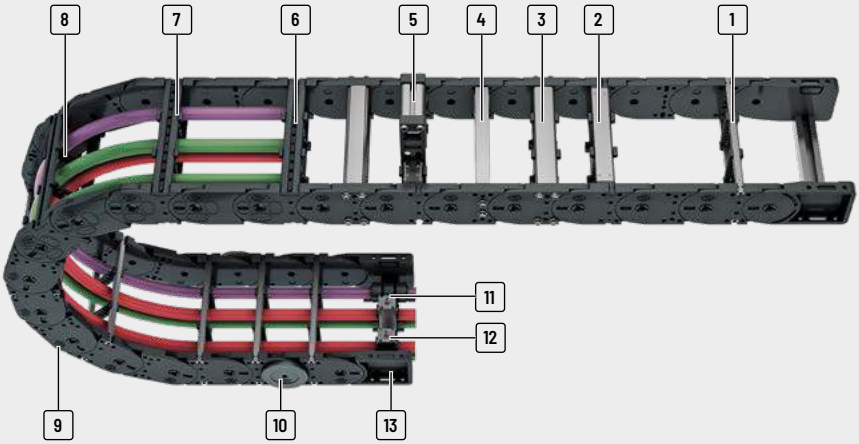
K series

Cost-effective, robust cable carrier – suitable for large additional loads





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

2 Aluminum stays in reinforced version

3 Aluminum stays with 4 screw-fixing points for extreme loads

4 Aluminum hole stays

5 Mounting frame stays

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

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

8 Fixable dividers

9 Molded slide runners

10 Slide discs

11 C-rail for strain relief elements

12 Strain relief elements

13 Universal end connectors (UMB)

Features

» Stable sidebands through robust link plate design

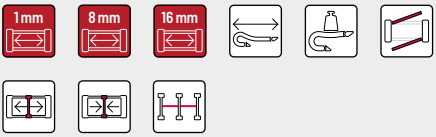
» Encapsulated, dirt-resistant stroke system

» Long service due to minimized hinge wear owing to the "life extending 2 disc principle"

» Versions with aluminum stays available in 1 mm width sections up to 700 mm inner width

» Versions with plastic stays available in 8 or 16 mm width sections

» Large selection of vertical and horizontal stay separation options for your cables



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

Slide discs for long service life for applications where the carrier is rotated through 90°

Molded slide runners for long service life in sliding arrangement

Many separation options for the cables

K series | Overview

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]
K0650											
		RS	38	57.5	75 – 400	103 – 428	1	65	75 – 300	20	30
		LG	36	57.5	75 – 600	103 – 628	1	65	75 – 300	20	32
		RMAI	38 (200)	57.5 (224)	200 – 400	234 – 428	1	65	175 – 300	20	160
		RMAO	38 (200)	57.5 (224)	200 – 400	234 – 428	1	65	75 – 300	20	160
		RE	42	57.5	68 – 268	96 – 296	8	65	75 – 300	20	33
K0900											
		RS	58	78.5	100 – 400	131 – 431	1	90	130 – 385	30	46
		RV	58	78.5	100 – 500	131 – 531	1	90	130 – 385	30	46
		RM	54	78.5	100 – 600	131 – 631	1	90	130 – 385	30	43
		LG	50	78.5	100 – 700	131 – 731	1	90	130 – 385	30	42
		RMAI	58 (200)	78.5 (224)	200 – 500	231 – 531	1	90	150 – 385	30	160
		RMAO	58 (200)	78.5 (224)	200 – 500	231 – 531	1	90	130 – 385	30	160
		RMR	51	78.5	100 – 600	131 – 631	1	90	130 – 385	30	41
		RE	58	78.5	81 – 561	112 – 592	16	90	130 – 385	30	46

* Further information on request.

Unsupported arrangement			Gliding arrangement			Inner Distribution				Movement			Page
Travel length ≤ [m]	v_{max} ≤ [m/s]	a_{max} ≤ [m/s²]	**Travel length** ≤ [m]	v_{max} ≤ [m/s]	a_{max} ≤ [m/s²]	**TS0**	**TS1**	**TS2**	**TS3**	**vertical hanging or standing**	**lying on the side**	**rotating arrangement**	
4.8	8	40	220	2	3	•	•	•	•	•	•	•	308
4.8	8	40	220	2	3	–	–	–	–	•	•	•	312
4.8	8	40	220	2	3	•	–	–	–	•	•	–	314
4.8	8	40	220	2	3	•	–	–	–	•	•	–	316
4.8	8	40	220	2	3	•	•	–	•	•	•	•	318
8.4	6	30	260	2	3	•	•	•	•	•	•	•	326
8.4	6	30	260	2	3	•	•	•	•	•	•	•	330
8.4	6	30	260	2	3	•	•	–	–	•	•	•	*
8.4	6	30	260	2	3	–	–	–	–	•	•	•	334
8.4	6	30	260	2	3	•	–	–	–	•	•	–	336
8.4	6	30	260	2	3	•	–	–	–	•	•	–	338
8.4	6	30	260	2	3	•	–	–	–	•	•	•	*
8.4	6	30	260	2	3	•	•	•	•	•	•	•	340

K0650

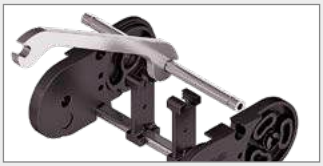
Pitch
65 mm

Inner heights
36 – 42 mm

Inner widths
68 – 600 mm

Bending radii
75 – 300 mm

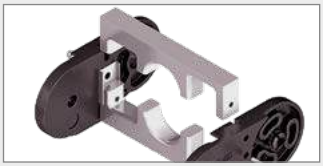
Stay variants



Aluminum stay RS page **308**

Frame stay, narrow "The standard"

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



Aluminum stay LG page **312**

Hole stay, split version

» Optimum cable routing in the neutral bending line. Split version for easy cable routing. Stays also available unsplit.
» **Outside/inside:** Screw-fixing easy to release.

Aluminum stay RMAI page **314**

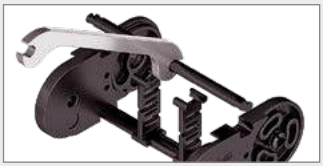
Mounting frame stay

» Aluminum profile bars with plastic mounting frame stays for guiding very large cable diameters.
» **Inside:** Screw-fixing easy to release.

Aluminum stay RMAO page **316**

Mounting frame stay

» Aluminum profile bars with plastic mounting frame stays for guiding very large cable diameters.
» **Outside:** Screw-fixing easy to release.

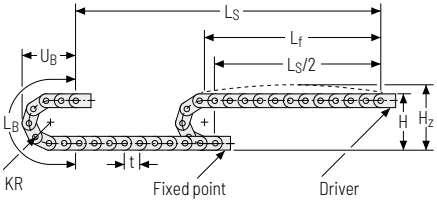


Plastic stay RE page **318**

Frame screw-in stay

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

Unsupported arrangement

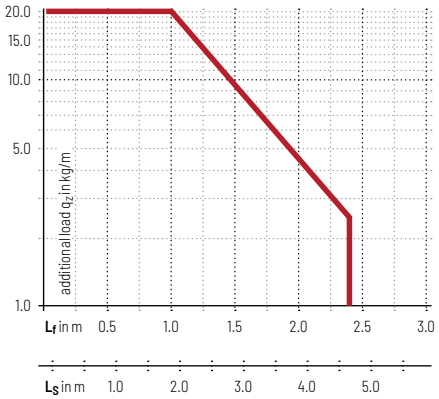


KR [mm]	H [mm]	H_z [mm]	L_B [mm]	U_B [mm]
75	205	245	366	168
115	285	325	492	208
145	345	385	586	238
175	405	445	680	268
220	495	535	822	313
300	655	695	1073	393

Load diagram for unsupported length depending on 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 = 2.5 kg/m. For other inner widths, the maximum additional load changes.



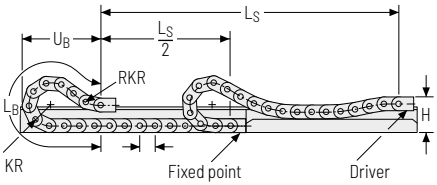
Speed
up to 8 m/s

Acceleration
up to 40 m/s²

Travel length
up to 4.8 m

Additional load
up to 20 kg/m

Gliding arrangement



Speed
up to 2 m/s

Acceleration
up to 3 m/s²

Travel length
up to 220 m

Additional load
up to 20 kg/m

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

If the cable carrier is positioned so it is rotated by 90° (gliding on the outside of the side band), slide discs snapped onto the side optimize the friction and wear situation.

KC0650 RS | Dimensions · Technical Data

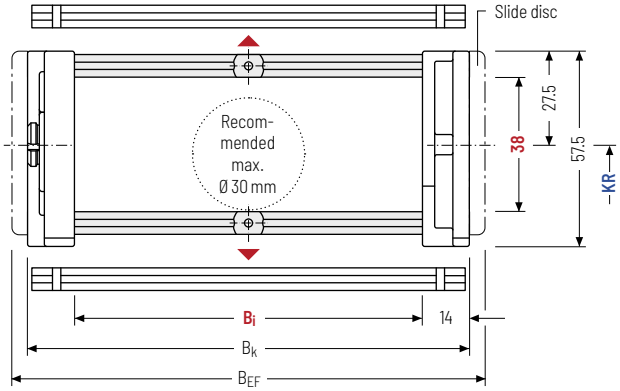
Aluminum stay RS – frame stay narrow

- Extremely quick to open and close
- Aluminum profile bars for light to medium loads. Assembly without screws.
- Available customized in **1 mm width sections**.
- **Outside/inside:** to open by rotating 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**



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]	B_{EF} [mm]	KR [mm]						q_k [kg/m]
38	57,5	**75 – 400**	B_i + 28	B_i + 36	**75**	**115**	**145**	**175**	**220**	**300**	1.87 – 3.60

* in 1 mm width sections

Order example

KC0650	.	176	.	RS	.	115	-	1430	HS
Type		B_i [mm]		Stay variant		KR [mm]		L_k [mm]	Stay arrangement

Divider systems

The divider system is mounted on each crossbar as a standard – on every 2nd chain link for stay mounting (HS – half-stayed).

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

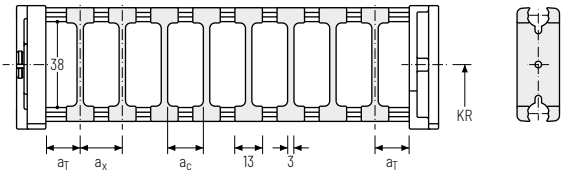
For applications with lateral acceleration and rotated by 90°, the dividers can be attached by simply clipping on a socket (available as an accessory).

This socket additionally acts as a spacer between the dividers and is available in a 1 mm grid between 3 – 50 mm. The inner height is reduced to 32 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	2

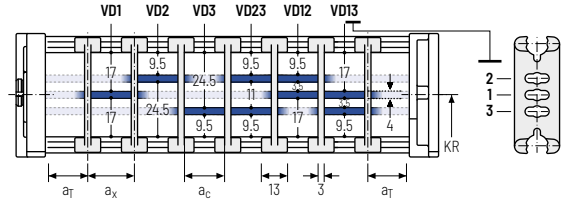
The dividers can be moved in the cross section.



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	6.5	25	13	10	2

The dividers can be moved in the cross section.

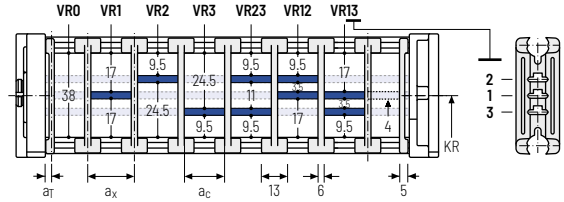


Divider system TS2 with partial height separation

Vers.	$a_{T\,min}$ [mm]	$a_{x\,min}$ [mm]	$a_{c\,min}$ [mm]	$n_{T\,min}$
A	3.5	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).



Additional product information online

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

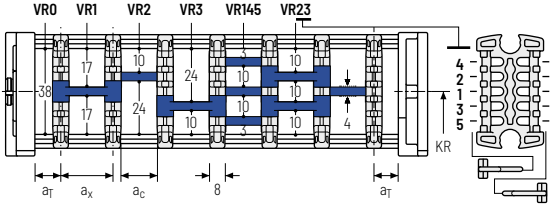
Configure your cable carrier here:
online-engineer.de

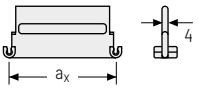
Divider system TS3 with height separation consisting of plastic partitions

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,...)**, the version, and the 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].

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.

KC0650 LG | Dimensions · Technical Data

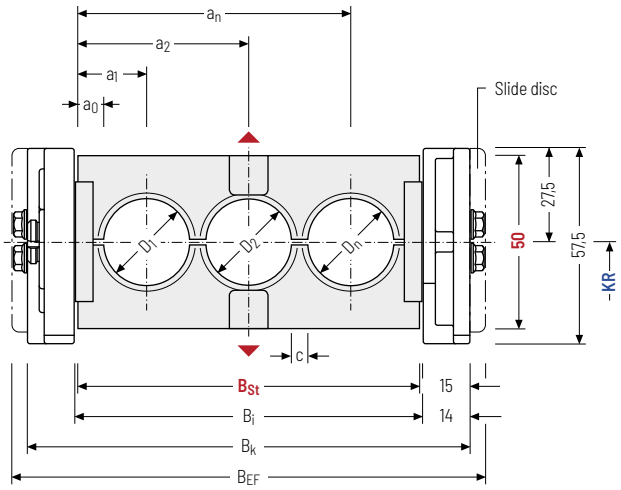
Aluminum stay LG –
Hole stay, split version

» Optimum cable routing in the neutral bending line. Split version for easy cable routing. Stays also available unsplit.
» Available customized in **1 mm width sections**.
» **Outside/inside:** Screw-fixing 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 75 – 600 mm in **1 mm width sections**



The outer width of the cable carrier corresponds to dimension B_{EF} for stay variant LG.

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

Calculating the stay width

Stay width B_{St}

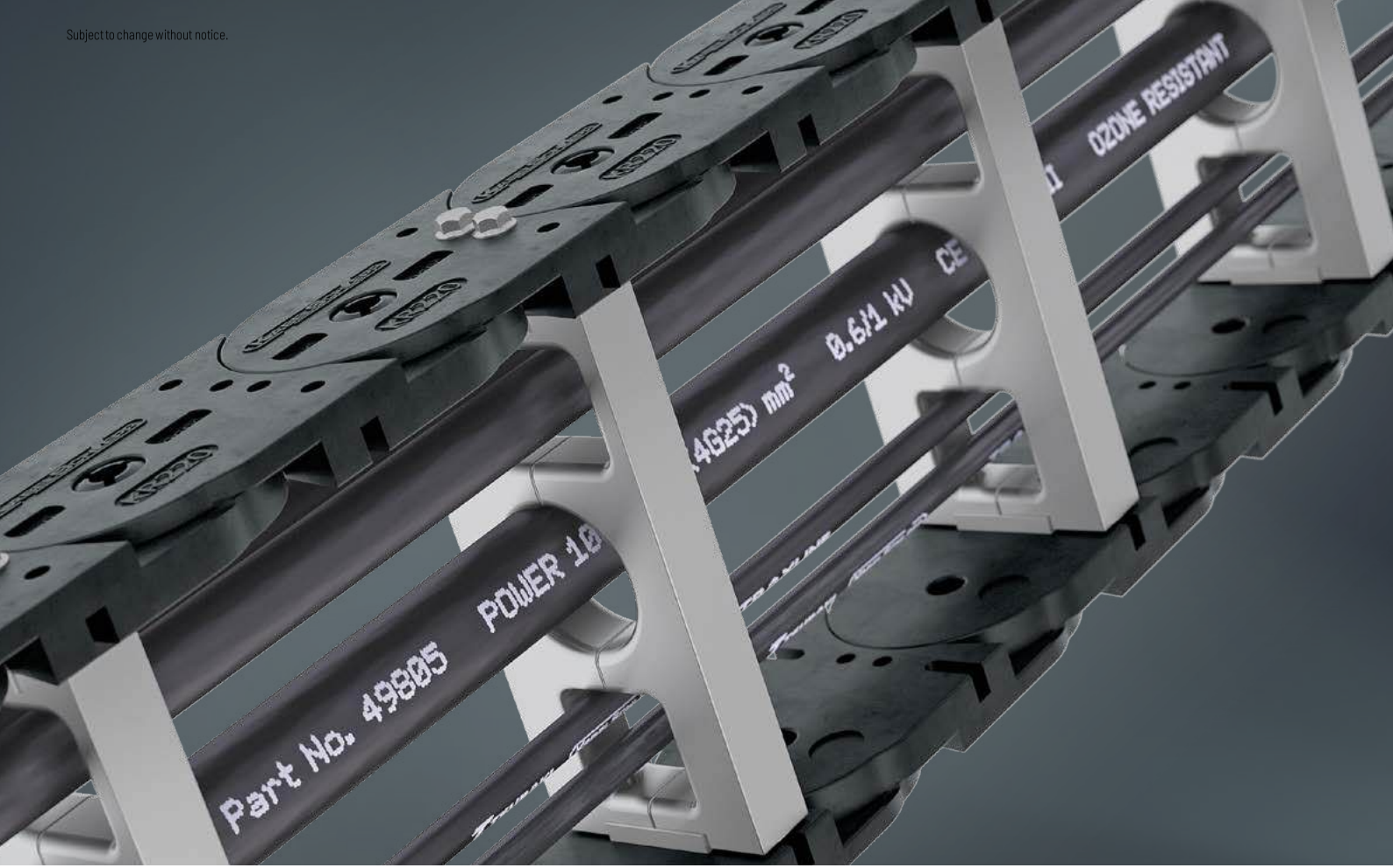
$$B_{St} = \sum D + \sum c + 2\,a_0$$

D_{max} [mm]	D_{min} [mm]	h_G [mm]	B_i [mm]	B_{St} [mm]*	B_k [mm]	B_{EF} [mm]	c_{min} [mm]	$a_{0\,min}$ [mm]	KR [mm]			q_k 50 %** [kg/m]
36	9	57.5	75 – 600	73 – 598	B_{St} + 30	B_{St} + 38	4	9	75 175	115 220	145 300	2.20 – 5.15

* in 1 mm width sections ** Hole ratio of the hole stay approx. 50 %

Order example

KC0650	.	176	.	LG	.	115	-	1430	HS
Type		B_i [mm]		Stay variant		KR [mm]		L_k [mm]	Stay arrangement


Part No. 49805
POWER 10
(4625) mm²
0.6/1 kV
OZONE RESISTANT

KC0650 RMAI | Dimensions · Technical data

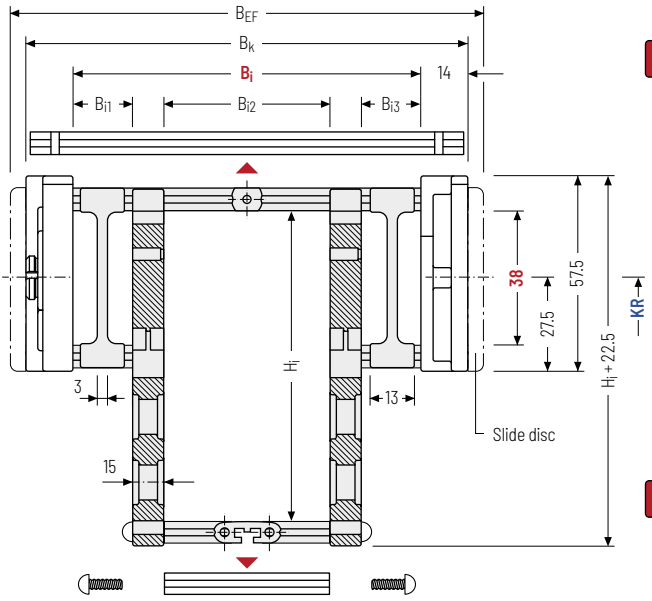
Aluminum stay RMAI – mounting frame stay

- Aluminum profile bars with plastic mounting frame stays for guiding very large cable diameters.
- The mounting frame stay is mounted on the inside in the bending radius.
- Available customized in **1 mm width sections**.
- **Inside:** Screw-fixing 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 200 – 400 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

Intrinsic cable carrier weight

Determining the intrinsic cable carrier weight strongly depends on the selected stay arrangement. Please contact us.

h_i [mm]	H_i [mm]		h_G [mm]	B_i [mm]	$B_{i1\,min}$ [mm]	$B_{i3\,min}$ [mm]	B_k [mm]	B_{EF} [mm]	KR [mm]		
38	130	160	57.5	200 – 400	18	18	B_i + 28	B_i + 36	175	220	300
	200										

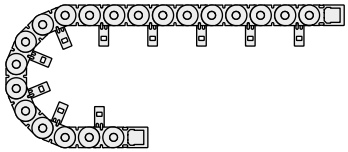
Order example

KC0650	.	276	.	RMAI	.	145	-	1430	HS
Type		B_i [mm]		Stay variant		KR [mm]		L_k [mm]	Stay arrangement

KC0650 RMAI | Dimensions · Technical data

RMAI – assembly to the inside:
Gliding application is not possible when using assembly version RMAI.

Observe minimum KR:
H_i = 130 mm: KR_{min} = 175 mm
H_i = 160 mm: KR_{min} = 220 mm
H_i = 200 mm: KR_{min} = 300 mm



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TRAXLINE® cables for cable carriers

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

KC0650 RMAO | Dimensions · Technical data

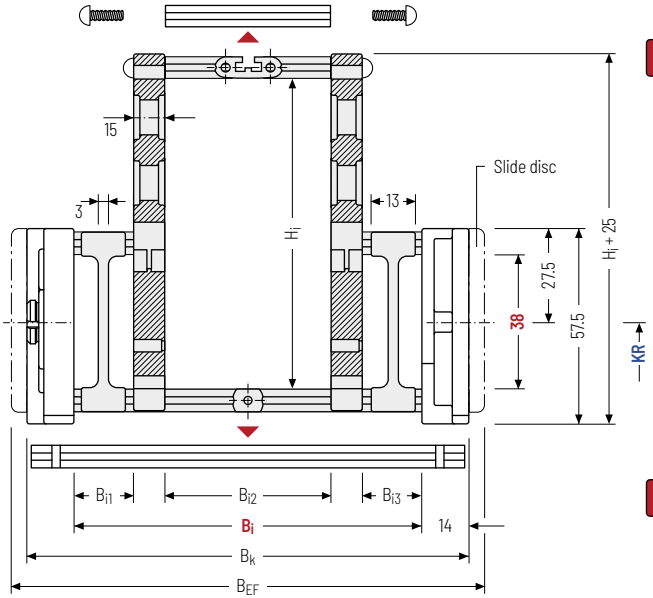
Aluminum stay RMAO – mounting frame stay

- Aluminum profile bars with plastic mounting frame stays for guiding very large cable diameters.
- The mounting frame stay is mounted on the outside in the bending radius.
- Available customized in **1 mm width sections**.
- **Outside:** Screw-fixing 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 200 – 400 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

Intrinsic cable carrier weight

Determining the intrinsic cable carrier weight strongly depends on the selected stay arrangement. Please contact us.

h_i [mm]	H_i [mm]		h_G [mm]	B_i [mm]	$B_{i1\,min}$ [mm]	$B_{i3\,min}$ [mm]	B_k [mm]	B_{EF} [mm]	KR [mm]		
38	130	160	57.5	200 – 400	18	18	B_i + 28	B_i + 36	75	115	145
	200								175	220	300

Order example

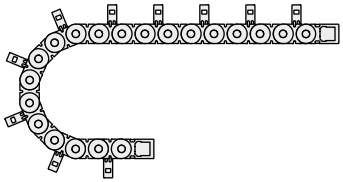
KC0650	.	276	.	RMAO	.	145	-	1430	HS
Type		B_i [mm]		Stay variant		KR [mm]		L_k [mm]	Stay arrangement

KC0650 RMA0 | Dimensions · Technical data

RMA0 – assembly to the outside:
The cable carrier has to rest on the side bands and not on the stays.

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

Please note the operating and installation height.



KE0650 RE | Dimensions · Technical Data

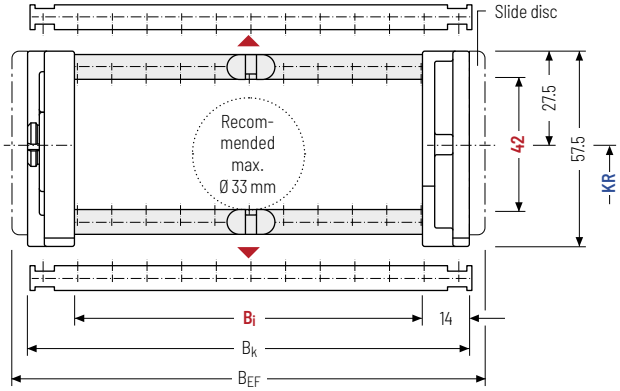
Plastic stay RE –
screw-in frame stay

» Plastic profile bars for light and medium loads. Assembly without screws.
» Available customized in **8 mm grid**.
» **Outside/inside:** to open by rotating 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 68 – 260 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]	B_{EF} [mm]	KR [mm]		q_k [kg/m]
		68	76	84	92	100	108	116	124	132			75	115	1.75
42	57.5	140	148	156	164	172	180	188	196	204	$B_i + 28$	$B_i + 36$	145	175	–
		212	220	228	236	244	252	260					220	300	2.71

Order example

KE0650	.	140	.	RE	.	115	-	2600		HS
Type		B_i [mm]		Stay variant		KR [mm]		L_k [mm]		Stay arrangement

Divider systems

The divider system is mounted on each crossbar as a standard – on every 2nd chain link for stay mounting (HS – half-stayed).

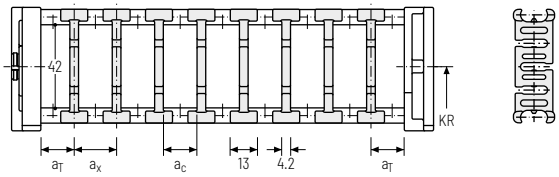
As a standard, dividers or the complete divider system (dividers with height separations) are movable in the cross section **(version A)**.

For applications with lateral accelerations and applications with the cable carrier rotated by 90°, the dividers can easily be fixed by turning the frame stay by 180°. The arresting cams click into place in the locking grids in the crossbar **(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	6.5	13	8.8	–	2
B	13	16	11.8	8	2

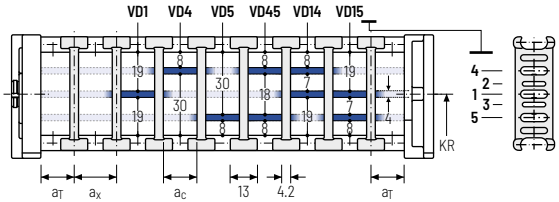
The dividers can be moved in the cross section.



Divider system TS1 with continuous height separation

Vers.	$a_{T\,min}$ [mm]	$a_{x\,min}$ [mm]	$a_{c\,min}$ [mm]	$a_{x\,grid}$ [mm]	$n_{T\,min}$
A	6.5	13	8.8	–	2

The dividers can be moved in the cross section.



Additional product information online

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

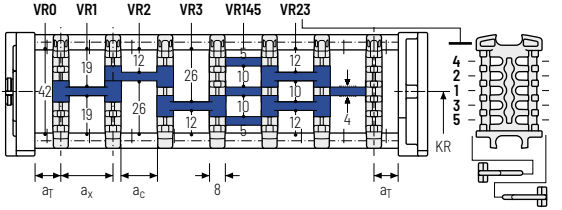
Configure your cable carrier here: **online-engineer.de**

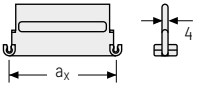
Divider system TS3 with height separation consisting of plastic partitions

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 with the partitions. The entire divider system 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 = 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,...)**, the version, and the 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].

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.

TOTALTRAX® complete systems

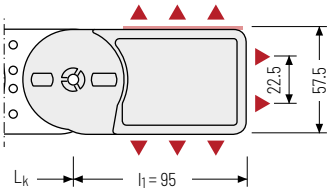
Benefit from the advantages of the TOTALTRAX® complete system. A complete delivery from one source – with a warranty certificate on request!
Learn more at **tsubaki-kabelschlepp.com/totaltrax**

TRAXLINE® cables for cable carriers

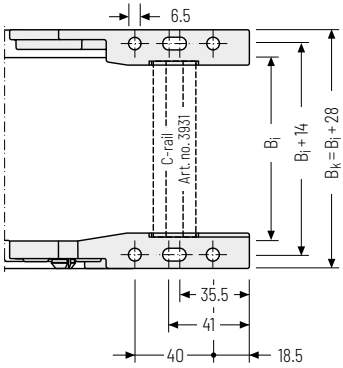
Hi-flex electric cables which were especially developed, optimized and tested for use in cable carriers can be found at **tsubaki-kabelschlepp.com/traxline**

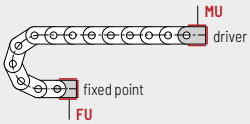
Universal end connectors UMB – plastic (standard)

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



▲ Assembly options





Connection point
F – fixed point
M – driver

Connection type
U – Universal mounting bracket

Order example

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

We recommend the use of strain reliefs at the driver and fixed point. See from p. 926.

Additional product information online

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

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

K0900

Pitch
90 mm

Inner heights
50 – 58 mm

Inner widths
81 – 700 mm

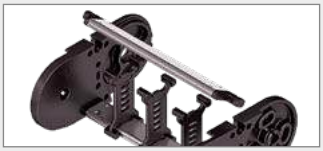
Bending radii
130 – 385 mm

Stay variants

Aluminum stay RS page **326**

Frame stay, narrow "The standard"

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



Aluminum stay RV page **330**

Frame stay, reinforced

» Aluminum profile bars plastic adapter for medium to high loads and large cable carrier widths. Assembly without screws.
» **Outside/inside:** to open by rotating 90°.

Aluminum stay LG page **334**

Hole stay, split version

» Optimum cable routing in the neutral bending line. Split version for easy cable routing. Stays also available unsplit.
» **Outside/inside:** Screw-fixing easy to release.

Aluminum stay RMAI page **336**

Mounting frame stay

» Aluminum profile bars with plastic mounting frame stays for guiding very large cable diameters.
» **Inside:** Screw-fixing easy to release.

Aluminum stay RMAO page **338**

Mounting frame stay

» Aluminum profile bars with plastic mounting frame stays for guiding very large cable diameters.
» **Outside:** Screw-fixing easy to release.

Stay variants

Plastic stay RE page **340**

Frame screw-in stay

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

Additional stay variants on request

Aluminum stay RM
Aluminum profile bars for high loads.

Aluminum stay RMR
Gentle cable guiding with rollers.

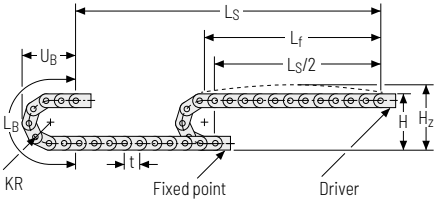
TOTALTRAX® complete systems

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

TRAXLINE® cables for cable carriers

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

Unsupported arrangement

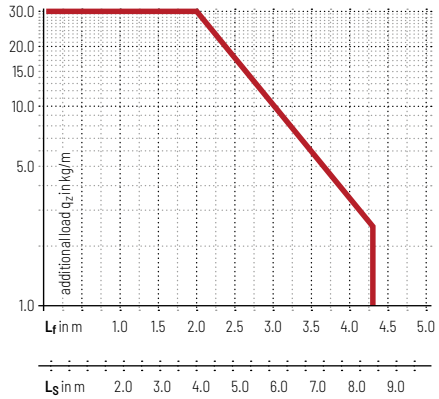


KR [mm]	H [mm]	H_z [mm]	L_B [mm]	U_B [mm]
130	336	386	589	258
150	376	426	652	278
190	456	506	777	318
245	566	616	950	373
300	676	726	1123	428
385	846	896	1390	513

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 = 4.05 kg/m. For other inner widths, the maximum additional load changes.



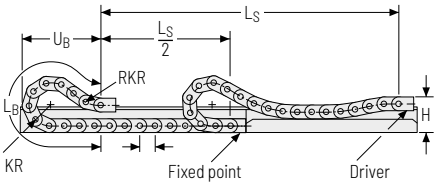
Speed
up to 6 m/s

Acceleration
up to 30 m/s²

Travel length
up to 8.4 m

Additional load
up to 30 kg/m

Gliding arrangement



Speed
up to 2 m/s

Acceleration
up to 3 m/s²

Travel length
up to 260 m

Additional load
up to 30 kg/m

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

If the cable carrier is positioned so it is rotated by 90° (gliding on the outside of the side band), slide discs snapped onto the side optimize the friction and wear situation.

KC0900 RS | Dimensions · Technical Data

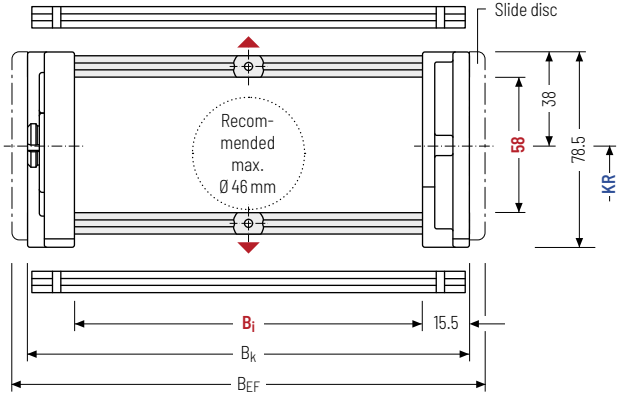
Aluminum stay RS – frame stay narrow

» Extremely quick to open and close
» Aluminum profile bars for light to medium loads. Assembly without screws.
» Available customized in **1 mm width sections**.
» **Outside/inside:** to open by rotating 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 – 400 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]	B_i [mm]*	B_k [mm]	B_{EF} [mm]	KR [mm]						q_k [kg/m]
58	78.5	100 – 400	B_i + 31	B_i + 45	130	150	190	245	300	385	2.8 – 5.8

* in 1 mm width sections

Order example

KC0900	.	300	.	RS	.	150	-	1890	HS
Type		B_i [mm]		Stay variant		KR [mm]		L_k [mm]	Stay arrangement

Divider systems

The divider system is mounted on each crossbar as a standard – on every 2nd chain link for stay mounting (HS – half-stayed).

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

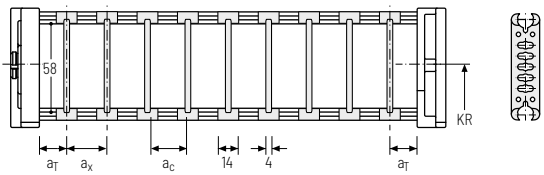
For applications with lateral acceleration and rotated by 90°, the dividers can be attached by simply clipping on a socket (available as an accessory).

The socket additionally serves as a spacer between the dividers and is available in 1 mm sections between 3 – 50 mm. The inner height is reduced to 54 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	14	10	2

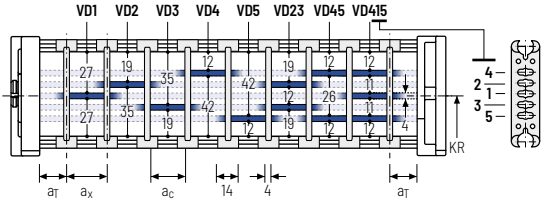
The dividers can be moved in the cross section.



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	7	25	14	10	2

The dividers can be moved in the cross section.

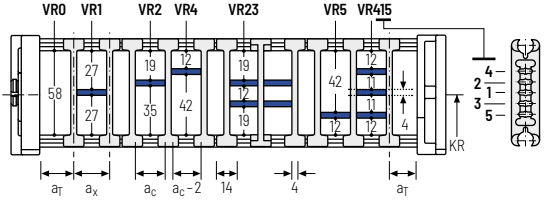


Divider system TS2 with partial height separation

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

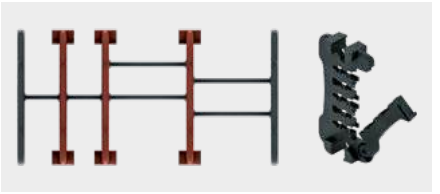
Order example

TS2	.	A	.	3	.	K1	.	34	-	VD1
						⋮		⋮		⋮
					.	K4	.	38	-	VR3
Divider system		Version		n_T		Chamber		a_x		Height separation

Divider system TS3 with height separation consisting of plastic partitions

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

Divider version A

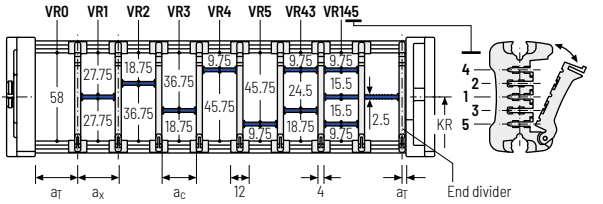


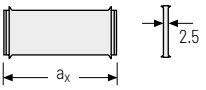
End divider

Vers.	a_T min [mm]	a_x min [mm]	a_C min [mm]	n_T min
A	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.





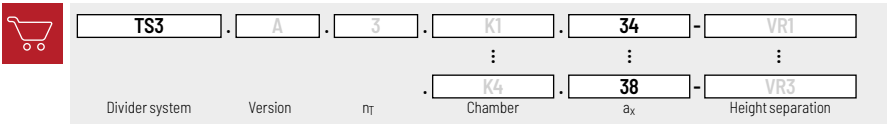
a_x (center distance of dividers) [mm]

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



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.

KC0900 RV | Dimensions · Technical Data

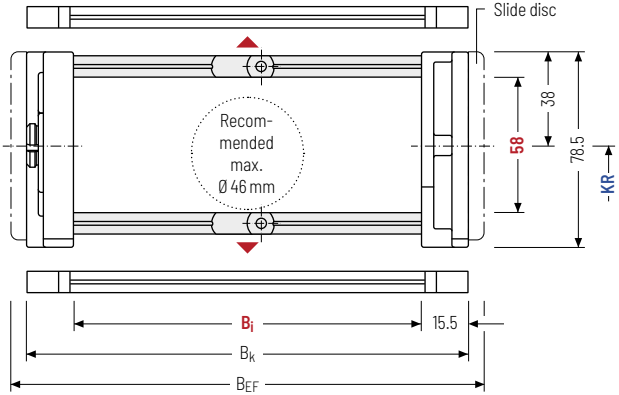
Aluminum stay RV – frame stay reinforced

» Aluminum profile bars plastic adapter for medium to high loads and large cable carrier widths. Assembly without screws.
» Available customized in **1 mm grid**.
» **Outside/inside:** to open by rotating 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 – 500 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]	B_i [mm]*	B_k [mm]	B_{EF} [mm]	KR [mm]						q_k [kg/m]
58	78.5	100 – 500	B_i + 31	B_i + 45	130	150	190	245	300	385	3.2 – 7.0

* in 1 mm width sections

Order example

KC0900	.	400	.	RV	.	150	-	1890	HS
Type		B_i [mm]		Stay variant		KR [mm]		L_k [mm]	Stay arrangement

Divider systems

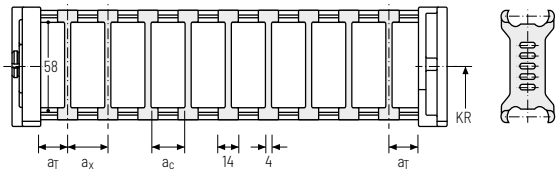
The divider system is mounted on each crossbar as a standard – on every 2nd chain link for stay mounting (HS – half-stayed).

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

Divider system TS0 without height separation

Vers.	$a_{T\,min}$ [mm]	$a_{x\,min}$ [mm]	$a_{c\,min}$ [mm]	$n_{T\,min}$
A	7	14	10	–

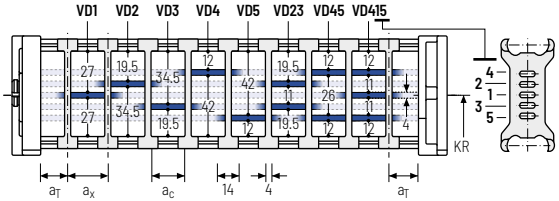
The dividers can be moved in the cross section.



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	7	25	14	10	2

The dividers can be moved in the cross section.

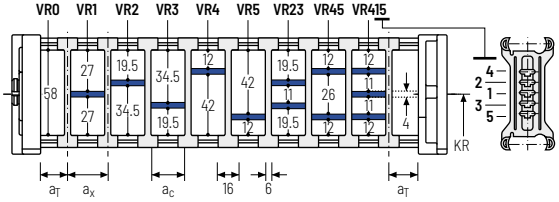


Divider system TS2 with partial height separation

Vers.	$a_{T\,min}$ [mm]	$a_{x\,min}$ [mm]	$a_{c\,min}$ [mm]	$n_{T\,min}$
A	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 = 4 mm).



Additional product information online

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

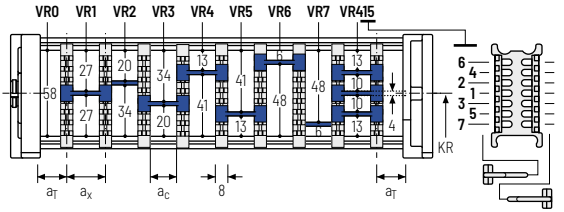
Configure your cable carrier here: **online-engineer.de**

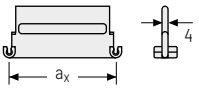
Divider system TS3 with height separation consisting of plastic partitions

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,...)**, the version, and the 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].

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.

Additional product information online

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

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

KC0900 LG | Dimensions · Technical Data

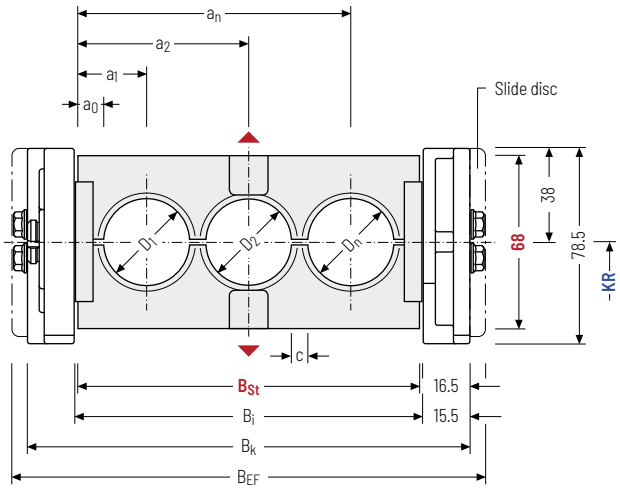
Aluminum stay LG –
Hole stay, split version

» Optimum cable routing in the neutral bending line. Split version for easy cable routing. Stays also available unsplit.
» Available customized in **1 mm width sections**.
» **Outside/inside:** Screw-fixing 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 – 700 mm in **1 mm width sections**



The outer width of the cable carrier corresponds to dimension B_{EF} for stay variant LG.

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

Calculating the stay width

Stay width B_{St}

$$B_{St} = \sum D + \sum c + 2\,a_0$$

D_{max} [mm]	D_{min} [mm]	h_G [mm]	B_i [mm]	B_{St} [mm]*	B_k [mm]	B_{EF} [mm]	c_{min} [mm]	$a_{0\,min}$ [mm]	KR [mm]			q_k 50 %** [kg/m]
50	10	78.5	100 – 700	**98 – 698**	B_{St} + 33	B_{St} + 45	4	11	**130**	**150**	**190**	4.79 – 9.83
									245	**300**	**385**	

* in 1 mm width sections ** Hole ratio of the hole stay approx. 50 %

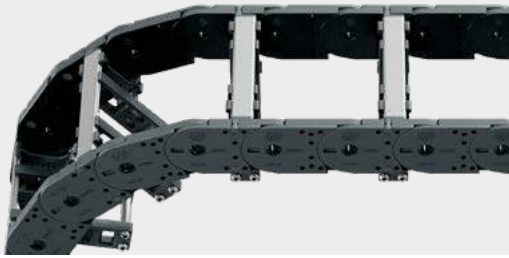
Order example

KC0900	.	400	.	LG	.	150	-	1890	HS
Type		B_i [mm]		Stay variant		KR [mm]		L_k [mm]	Stay arrangement

KC0900 RMAI | Dimensions · Technical Data

Aluminum stay RMAI – mounting frame stay

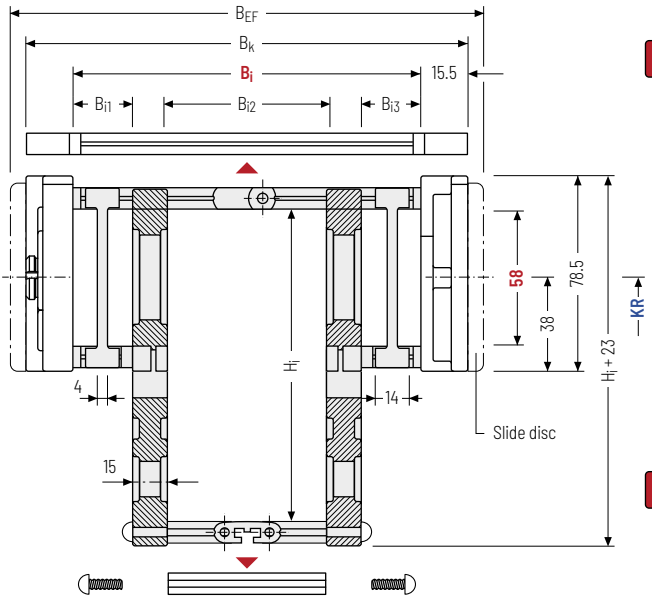
- Aluminum profile bars with plastic mounting frame stays for guiding very large cable diameters.
- The mounting frame stay is mounted on the inside in the bending radius.
- Available customized in **1 mm width sections**.
- **Inside:** Screw-fixing easy to release.



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

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

1 mm
B_i 200 – 500 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

Intrinsic cable carrier weight
Determining the intrinsic cable carrier weight strongly depends on the selected stay arrangement. Please contact us.

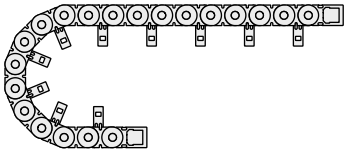
h_i [mm]	H_i [mm]		h_G [mm]	B_i [mm]	$B_{i1\,min}$ [mm]	$B_{i3\,min}$ [mm]	B_k [mm]	B_{EF} [mm]	KR [mm]		
58	130	160	78.5	200 – 500	40	40	B_i + 31	B_i + 45	150	190	245
	200								300	385	

Order example

KC0900	.	400	.	RMAI	.	150	-	1890	HS
Type		B_i [mm]		Stay variant		KR [mm]		L_k [mm]	Stay arrangement

RMAI – assembly to the inside:
Gliding application is not possible when using assembly version RMAI.

Observe minimum KR:
H_i = 130 mm: KR_{min} = 150 mm
H_i = 160 mm: KR_{min} = 190 mm
H_i = 200 mm: KR_{min} = 245 mm



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TRAXLINE® cables for cable carriers

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

KC0900 RMAO | Dimensions · Technical Data

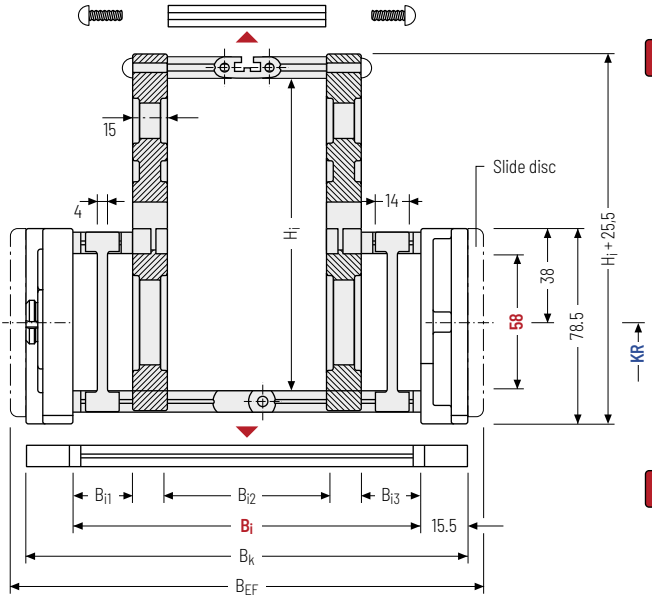
Aluminum stay RMAO – mounting frame stay

- Aluminum profile bars with plastic mounting frame stays for guiding very large cable diameters.
- The mounting frame stay is mounted on the outside in the bending radius.
- Available customized in **1 mm width sections**.
- **Outside:** Screw-fixing 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 200 – 500 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

Intrinsic cable carrier weight

Determining the intrinsic cable carrier weight strongly depends on the selected stay arrangement. Please contact us.

h_i [mm]	H_i [mm]		h_G [mm]	B_i [mm]	$B_{i1\,min}$ [mm]	$B_{i3\,min}$ [mm]	B_k [mm]	B_{EF} [mm]	KR [mm]		
58	130	160	78.5	200 – 500	40	40	B_i + 31	B_i + 45	130	150	190
	200								245	300	385

Order example

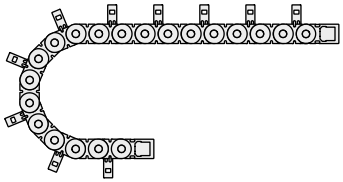
KC0900	.	400	.	RMAO	.	150	-	1890	HS
Type		B_i [mm]		Stay variant		KR [mm]		L_k [mm]	Stay arrangement

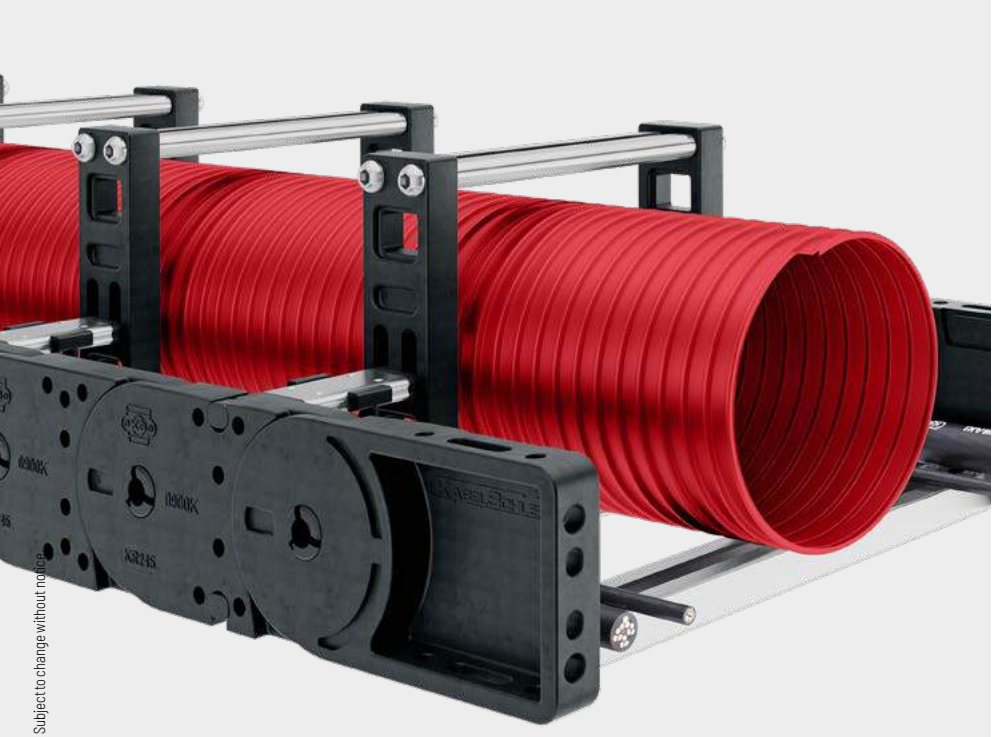
KC0900 RMA0 | Dimensions · Technical Data

RMA0 – assembly to the outside:
The cable carrier has to rest on the side bands and not on the stays.

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

Please note the operating and installation height.





KE0900 RE | Dimensions · Technical Data

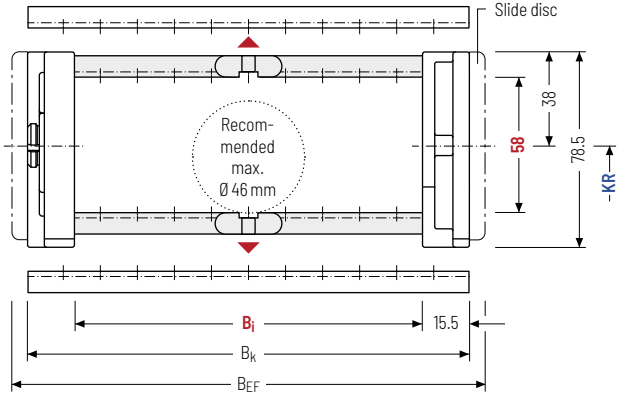
Plastic stay RE –
frame screw-in stay

- Plastic profile bars for light to medium loads. Assembly without screws.
- Available customized in **16 mm grid**.
- **Outside/inside:** to open by rotating 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 81 – 561 mm in **16 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]	B_{EF} [mm]	KR [mm]		q_k [kg/m]
58	78.5	81	97	113	129	145	161	177	193	209	225	B_i + 31	B_i + 45	130	150	2.95 – 5.95
		241	257	273	289	305	321	337	353	369	385			190	245	
		401	417	433	449	465	481	497	513	545	561			300	385	

Order example

KE0900	.	209	.	RE	.	150	-	1890	HS
Type		B_i [mm]		Stay variant		KR [mm]		L_k [mm]	Stay arrangement

Divider systems

The divider system is mounted on each crossbar as a standard – on every 2nd chain link for stay mounting (HS – half-stayed).

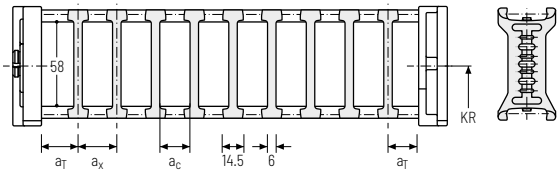
As a standard, dividers or the complete divider system (dividers with height separations) are movable in the cross section **(version A)**.

For applications with lateral accelerations and applications with the cable carrier rotated by 90°, the dividers can easily be fixed by turning the frame stay by 180°. The arresting cams click into place in the locking grids in the crossbar **(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	7.5	14.5	8.5	–	–
B	8.5	16	10	16	–

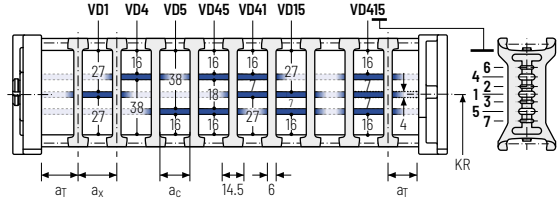
The dividers can be moved within the cross section (version A) or fixed (version B).



Divider system TS1 with continuous height separation

Vers.	a_T min [mm]	a_X min [mm]	a_C min [mm]	a_X grid [mm]	n_T min
A	7.5	14.5	8.5	–	2
B	8.5	16	10	16	2

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

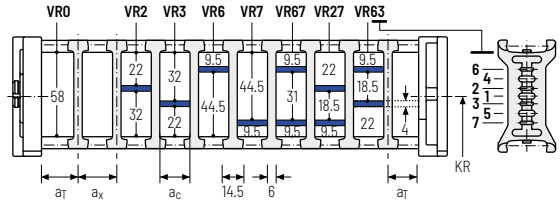


Divider system TS2 with partial height separation

Vers.	a_T min [mm]	a_X min [mm]	a_C min [mm]	a_X grid [mm]	n_T min
A	7.5	14.5*/21	8.5*/15	–	2
B	8.5	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).



Additional product information online

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

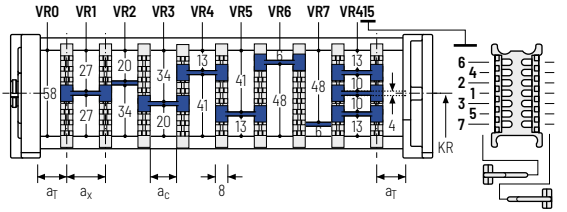
Configure your cable carrier here:
online-engineer.de

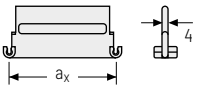
Divider system TS3 with height separation consisting of plastic partitions

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,...)**, the version, and the 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].

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.

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TRAXLINE® cables for cable carriers

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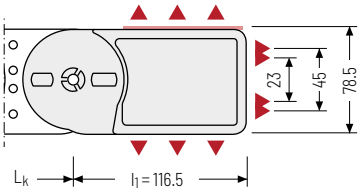
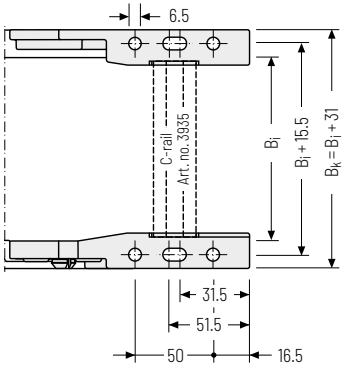
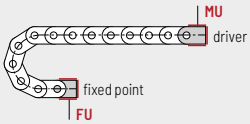
Universal end connectors UMB – plastic (standard)

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



Connection point
F – fixed point
M – driver

Connection type
U – Universal mounting bracket

Order example

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

We recommend the use of strain reliefs at the driver and fixed point. See from p. 926.

Additional product information online

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

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