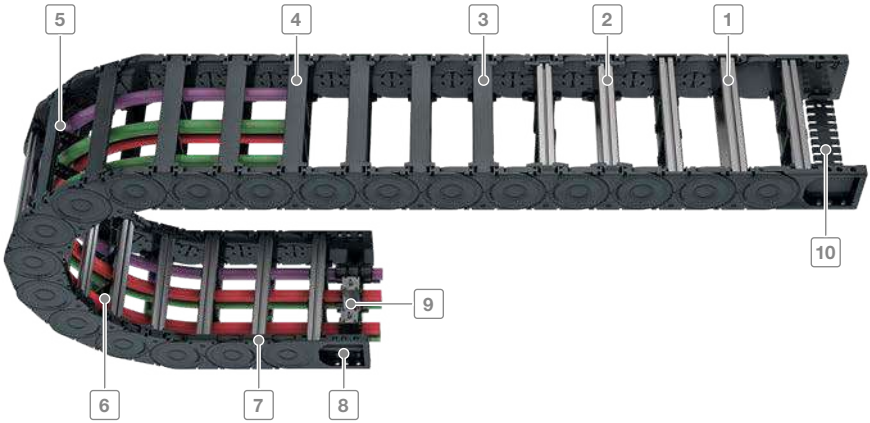
MASTER series

Quiet and weight-optimized cable carriers

MASTER series | Overview



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

2 Aluminum stays in **1 mm width sections** with plastic adapter

3 Plastic stays with integrated divider fixing

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

5 Fixable dividers

6 Many possibilities for internal subdivision

7 Replaceable glide shoes

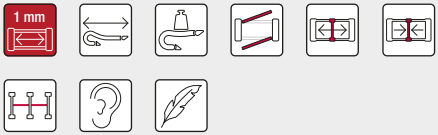
8 Closed and open universal mounting brackets (UMBs)

9 C-rail for strain relief elements

10 Integratable strain relief comb

Features

- Low intrinsic weight
- Favorable ratio of inner to outer dimensions
- Versions with aluminum stays available in 1 mm width sections up to 800 mm inner width
- Long service life due to minimized hinge wear owing to the “life extending 2 disc principle“
- Extremely quiet through internal damping system
- Variable pre-tensioning for the most varied applications is possible



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

C-rail integrated in the connector

Fixable dividers for applications laying on the side and high lateral accelerations

Many separation options for the cables

MASTER 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]
H33											
		RSH	33	51	50 – 400	$B_i + 22$	1	56	60 – 300	11	26
H46											
		RSH	46	64	50 – 400	$B_i + 26$	1	67	75 – 350	20	36
L60											
		RSH	60	88	75 – 600	$B_i + 28$	1	91	135 – 500	20	48
		RE	60	88	85 – 250	$B_i + 28$	–	91	135 – 500	20	48
L80											
		RSH	80	110	100 – 800	$B_i + 32$	1	111	150 – 500	25	64
		RE	80	110	85 – 250	$B_i + 32$	–	111	150 – 500	25	64

MASTER series | Overview

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	
3.5	10	50	60	2	2-3	●	●	–	●	●	●	–	280
6.4	8	40	80	2	2-3	●	●	–	●	●	●	–	286
7	6	30	–	–	–	●	●	–	●	●	●	–	292
7	6	30	–	–	–	●	●	–	●	●	●	–	296
7.9	5	25	–	–	–	●	●	–	●	●	●	–	302
7.9	5	25	–	–	–	●	●	–	●	●	●	–	306

H33

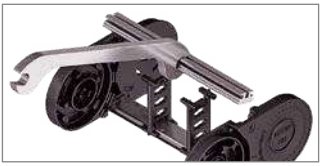
Pitch
56 mm

Inner height
33 mm

Inner widths
50 – 400 mm

Bending radii
60 – 300 mm

Stay variants



Aluminum stay RSH ..... page 280

Frame screw-in stay

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

Key for abbreviations on page 16

Design guidelines from page 62

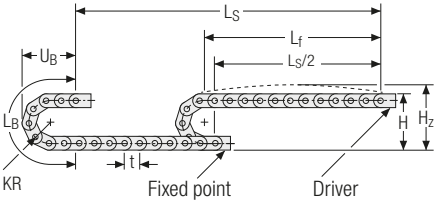
TOTALTRAX® complete systems

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**

Unsupported arrangement

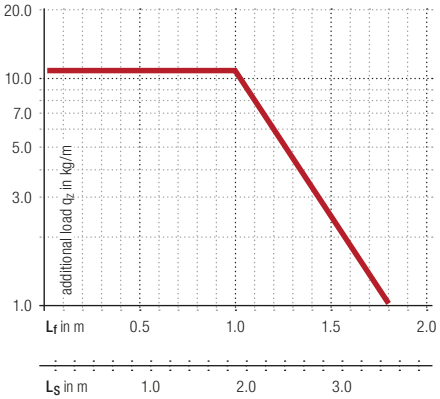


KR [mm]	H [mm]	H_z [mm]	L_B [mm]	U_B [mm]
60	171	211	301	142
75	201	241	348	157
100	251	291	427	182
125	301	341	505	207
150	351	391	584	232
175	401	441	662	257
200	451	491	741	282
220	491	531	804	302
250	551	591	898	332
300	651	691	1055	382

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 = 2.08 kg/m. For other inner widths, the maximum additional load changes.



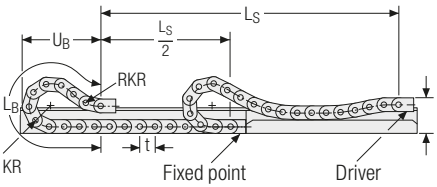
Speed
up to 10 m/s

Acceleration
up to 50 m/s²

Travel length
up to 3.5 m

Additional load
up to 11 kg/m

Gliding arrangement



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

We recommend the use of glide shoes for gliding applications.

Speed
up to 2 m/s

Acceleration
up to 2 - 3 m/s²

Travel length
up to 60 m

Additional load
up to 11 kg/m

Key for abbreviations on page 16

Design guidelines from page 62

Technical support:
technik@kabelschlepp.de

HC33 RSH | Dimensions · Technical data

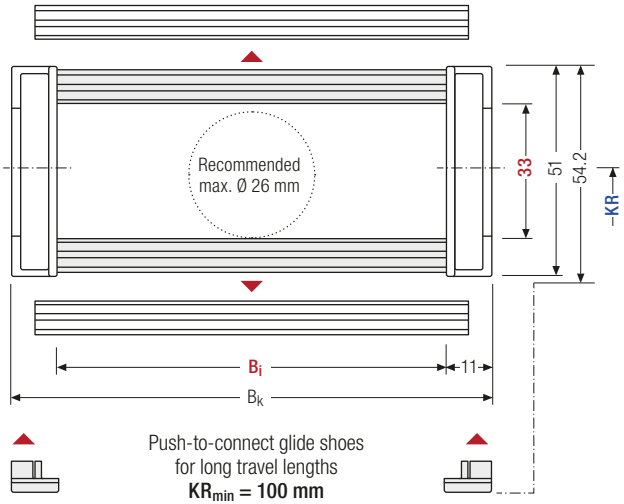
Aluminum stay RSH –
screw-in frame stay

- Aluminum profile bars for light and medium loads. Assembly without screws.
- Available customized in **1 mm grid**.
- **Outside/inside:** release by rotating.

Stays mounted on each chain link **(VS: fully-stayed)**

1 mm

B_i 50 – 400 mm in **1 mm width sections**



Push-to-connect glide shoes for long travel lengths
KR_{min} = 100 mm

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

Calculating the cable carrier length

Cable carrier length L_k

$$L_k \approx \frac{L_S}{2} + L_B$$

Cable carrier length L_k rounded to pitch t

h_i [mm]	h_G [mm]	$h_{G'}$ [mm]	B_i [mm]*	B_k [mm]	KR [mm]										q_k [kg/m]
33	51	54,2	**50 – 400**	B_i + 22	**60**	**75**	**100**	**125**	**150**	**175**	**200**	**220**	**250**	**300**	1,37 – 3,99

* in 1 mm width sections

Order example

HC 33	.	330	.	RSH	.	150	-	1960		VS
Type		B_i [mm]		Stay variant		KR [mm]		L_k [mm]		Stay arrangement

Subject to change.

Divider systems

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

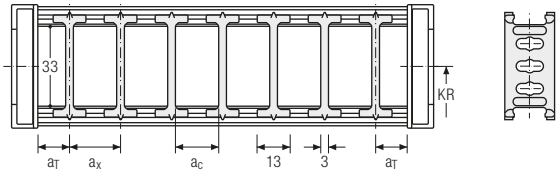
As a standard, dividers or the complete divider system (dividers with height separations) are movable in the cross section **(version A)**.

For applications with lateral acceleration and lying on the side, the dividers can be attached by simple insertion of a fixing profile into the RSH 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]	$a_{x\ grid}$ [mm]	$n_{T\ min}$
A	7	13	10	–	–
B	7	13	10	2	–

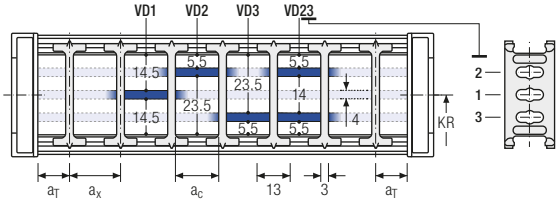
The dividers can be moved within the cross section (version A) or fixed (version B).



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	13	10	–	2
B	7	13	10	2	2

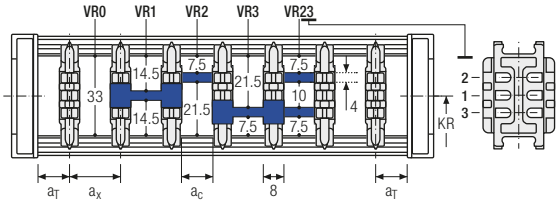
The dividers can be moved within the cross section (version A) or fixed (version B).

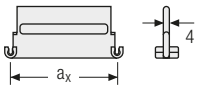


Divider system TS3 with height separation consisting of plastic partitions

Vers.	$a_{T\ min}$ [mm]	$a_{x\ min}$ [mm]	$a_{C\ min}$ [mm]	$n_{T\ min}$
A	4	16	8	2

The dividers are fixed by the height separation, 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]

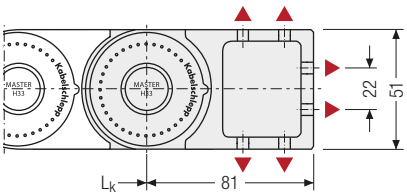
16	**18**	**23**	**28**	**32**	**33**	**38**	**43**	**48**	**58**	**64**	**68**
8	10	15	20	24	25	30	35	40	50	56	60
78	**80**	**88**	**96**	**112**	**128**	**144**	**160**	**176**	**192**	**208**	
70	72	80	88	104	120	136	152	168	184	200	

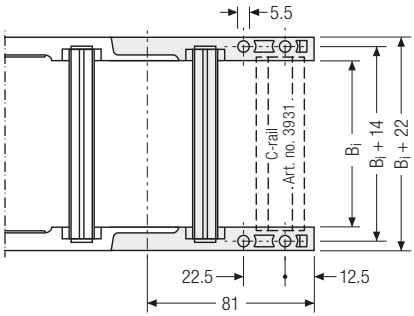
When using **plastic partitions with a_x > 112 mm**, we recommend an additional center support with a **twin divider** (S_T = 3 mm). Twin dividers are also suitable for retrofitting in the partition system.

H33 | End connectors

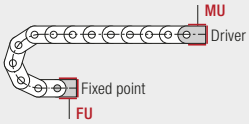
Universal end connectors UMB – plastic (standard)

The universal mounting brackets (UMB) are made from plastic and can be mounted **from the top, from the bottom 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 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 cable carrier here: **onlineengineer.de**

Key for abbreviations on page 16
Design guidelines from page 62

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

Subject to change.

H46

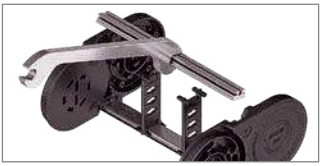
Pitch
67 mm

Inner height
46 mm

Inner widths
50 – 400 mm

Bending radii
75 – 350 mm

Stay variants



Aluminum stay RSH ..... page **286**

Frame screw-in stay

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

Key for abbreviations on page 16

Design guidelines from page 62

TOTALTRAX® complete systems

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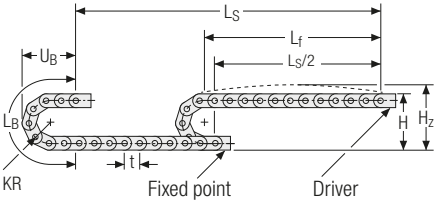
TRAXLINE® cables for cable carriers

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

H46 | Installation dim. | Unsupported

Unsupported arrangement

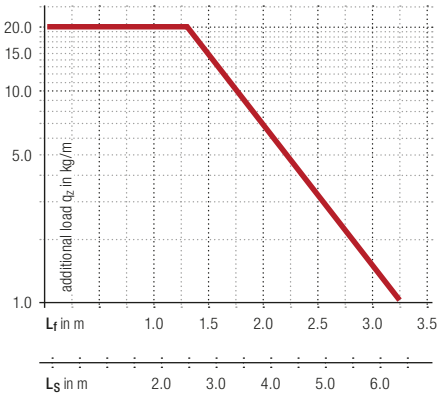


KR [mm]	H [mm]	H_z [mm]	L_B [mm]	U_B [mm]
75	214	262	370	174
100	264	312	448	199
125	314	362	527	224
150	364	412	605	249
175	414	462	684	274
200	464	512	762	299
220	504	552	825	319
250	564	612	919	349
300	664	712	1076	399
350	764	812	1234	449

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.



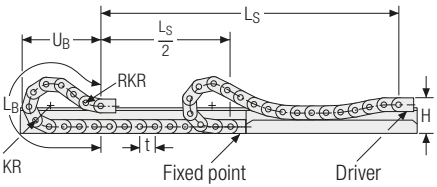
Speed
up to 8 m/s

Acceleration
up to 40 m/s²

Travel length
up to 6.4 m

Additional load
up to 20 kg/m

Gliding arrangement



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

We recommend the use of glide shoes for gliding applications.

Speed
up to 2 m/s

Acceleration
up to 2 – 3 m/s²

Travel length
up to 80 m

Additional load
up to 20 kg/m

Key for abbreviations on page 16

Design guidelines from page 62

Technical support:
technik@kabelschlepp.de

online-engineer.de
Cable Carrier Configurator

HC46 RSH | Dimensions · Technical data

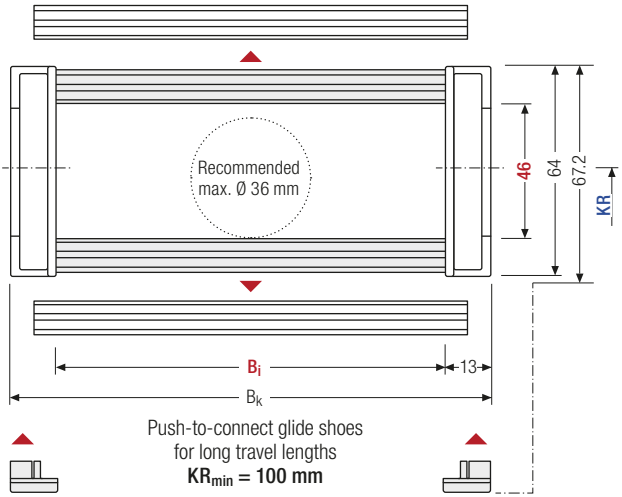
Aluminum stay RSH –
screw-in frame stay

- Aluminum profile bars for light and medium loads. Assembly without screws.
- Available customized in **1 mm grid**.
- **Outside/inside:** release by rotating.

Stays mounted on each chain link **(VS: fully-stayed)**

1 mm

B_i 50 – 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]	$h_{G'}$ [mm]	B_i [mm]*	B_k [mm]	KR [mm]										q_k [kg/m]
46	64	67,2	**50 – 400**	B_i + 26	**75**	**100**	**125**	**150**	**175**	**200**	**220**	**250**	**300**	**350**	1,83 – 4,01

* in 1 mm width sections

Order example

HC 46	.	200	.	RSH	.	170	-	2010		VS
Type		B_i [mm]		Stay variant		KR [mm]		L_k [mm]		Stay arrangement

Divider systems

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

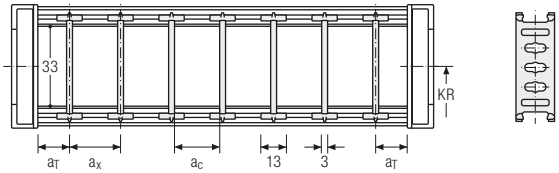
As a standard, dividers or the complete divider system (dividers with height separations) are movable in the cross section **(version A)**.

For applications with lateral acceleration and lying on the side, the dividers can be attached by simple insertion of a fixing profile into the RSH 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 grid [mm]	n_T min
A	7	13	10	–	–
B	7	13	10	2	–

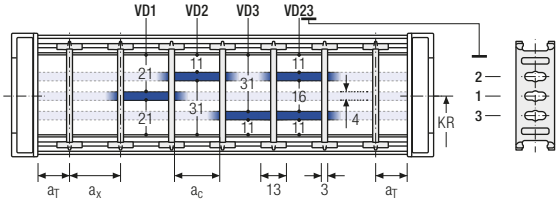
The dividers can be moved within the cross section (version A) or fixed (version B).



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	13	10	–	2
B	7	13	10	2	2

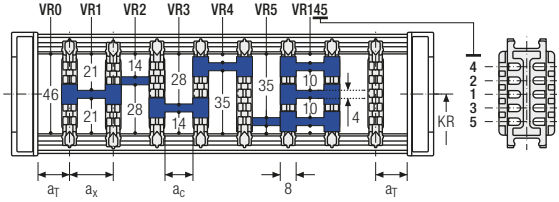
The dividers can be moved within the cross section (version A) or fixed (version B).

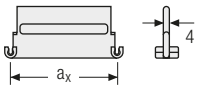


Divider system TS3 with height separation consisting of plastic partitions

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

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.

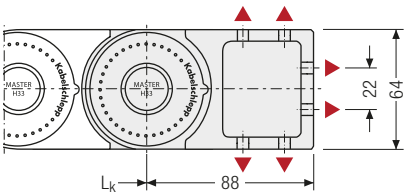
a_x (center distance of dividers) [mm]											
a_C (nominal width of inner chamber) [mm]											
16	**18**	**23**	**28**	**32**	**33**	**38**	**43**	**48**	**58**	**64**	**68**
8	10	15	20	24	25	30	35	40	50	56	60
78	**80**	**88**	**96**	**112**	**128**	**144**	**160**	**176**	**192**	**208**	
70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

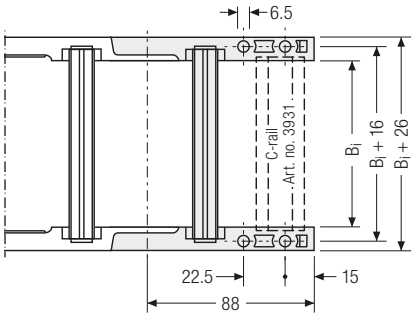
When using **plastic partitions with a_x > 112 mm**, we recommend an additional center support with a **twin divider** (S_T = 3 mm). Twin dividers are also suitable for retrofitting in the partition system.

H46 | End connectors

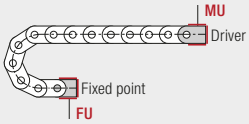
Universal end connectors UMB – plastic (standard)

The universal mounting brackets (UMB) are made from plastic and can be mounted **from the top, from the bottom 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 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 cable carrier here: **onlineengineer.de**

Key for abbreviations on page 16
Design guidelines from page 62

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

Subject to change.

L60

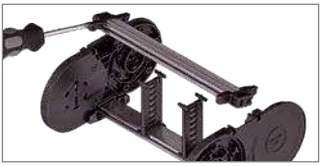

Pitch
91 mm


Inner height
60 mm


Inner widths
75 – 600 mm

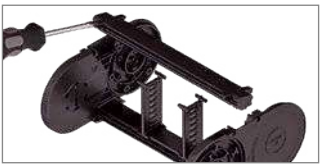

Bending radii
135 – 500 mm

Stay variants



Aluminum stay RSH ..... page 292

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



Plastic stay RE ..... page 296

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

Key for abbreviations on page 16

Design guidelines from page 62

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TRAXLINE® cables for cable carriers

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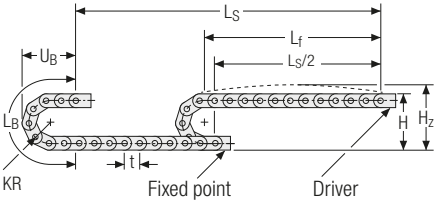
Unsupported arrangement

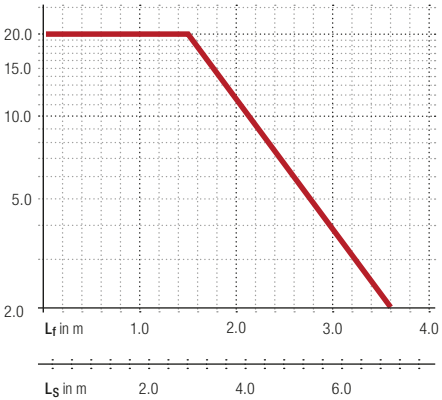


KR [mm]	H [mm]	H_Z [mm]	L_B [mm]	U_B [mm]
135	358	408	607	271
150	388	438	654	286
175	441	491	732	312
200	488	538	811	336
250	588	638	968	386
300	688	738	1125	436
350	788	838	1282	486
400	888	938	1439	536
500	1088	1138	1753	636

Load diagram for unsupported length depending on the additional load.

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

Intrinsic cable carrier weight q_k = 3.6 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 7 m

Additional load
up to 20 kg/m

More product information online

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

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

Key for abbreviations on page 16

Design guidelines from page 62

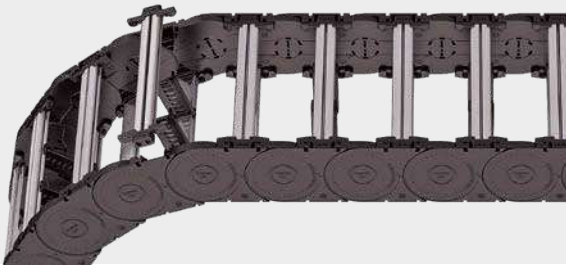
Technical support:
technik@kabelschlepp.de

online-engineer.de
Cable Carrier Configurator

LC60 RSH | Dimensions · Technical data

Plastic stay RSH –
screw-in frame stay

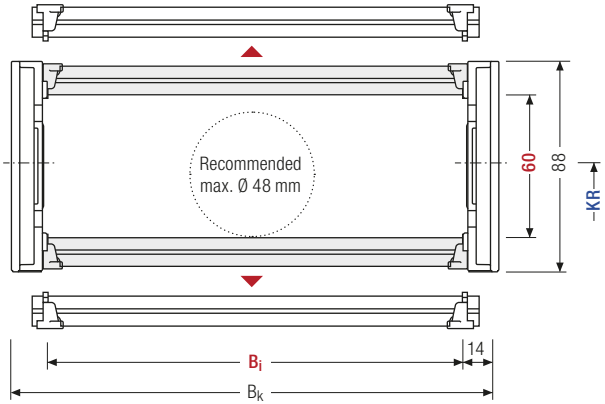
- Aluminum profile bars for light to medium loads. Assembly without screws.
- Available customized in **1 mm grid**.
- **Outside/inside:** release by rotating.



Stays mounted on each chain link **(VS: fully-stayed)**

1 mm

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



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

Calculating the cable carrier length

Cable carrier length L_k

$$L_k \approx \frac{L_S}{2} + L_B$$

Cable carrier length L_k rounded to pitch t

h_i [mm]	h_G [mm]	B_i [mm]*	B_k [mm]	KR [mm]									q_k [kg/m]
60	88	75 – 600	B_i + 28	135	150	175	200	250	300	350	400	500	2,78 – 7,10

* in 1 mm width sections

Order example

LC 60	.	400	.	RSH	.	250	-	2184	VS
Type		B_i [mm]		Stay variant		KR [mm]		L_k [mm]	Stay arrangement

Subject to change.

Divider systems

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

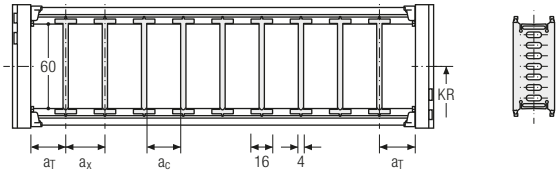
As a standard, dividers or the complete divider system (dividers with height separations) are movable in the cross section **(version A)**.

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

Divider system TS0 without height separation

Vers.	a_T min [mm]	a_x min [mm]	a_c min [mm]	a_x grid [mm]	n_T min
A	10	13	9	–	–
B	10	13	9	2	–

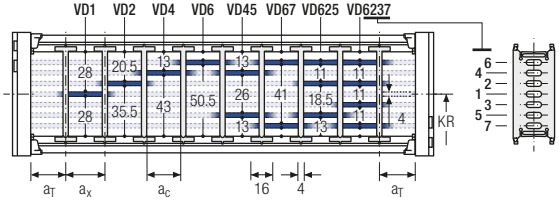
The dividers can be moved within the cross section (version A) or fixed (version B).



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	10	13	9	–	2
B	10	13	9	2	2

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



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LC60 RSH | Inner distribution | TS3

Divider system TS3 with height separation consisting of plastic partitions

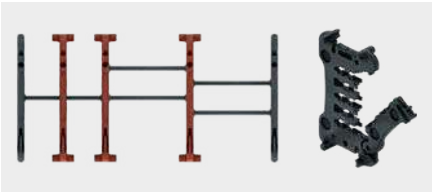
As a standard, the divider **version A** is used for vertical partitioning within the cable carrier. The complete divider system can be moved within the cross section.

Key for abbreviations on page 16

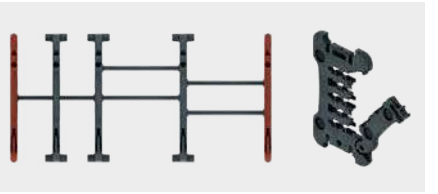
Design guidelines from page 62

Technical support: technik@kabelschlepp.de

Divider version A



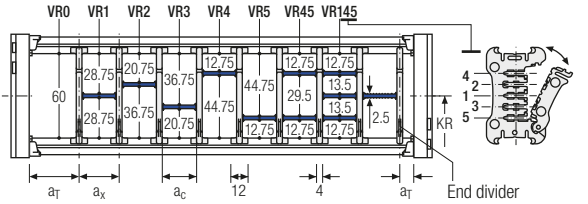
End divider

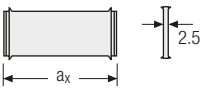


Vers.	$a_{T\ min}$ [mm]	$a_{x\ min}$ [mm]	$a_{C\ min}$ [mm]	n_T min
A	8 / 4*	14	10	2

* 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	

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

Order example

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

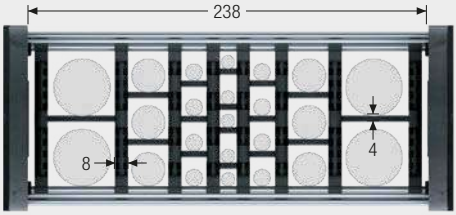
Please state the designation of the divider system **(TS0, TS1,...)**, version and number of dividers per cross section [n_T]. In addition, please also enter the chambers [K] from left to right, as well as the assembly distances [a_T/a_x] (as seen from the driver).

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

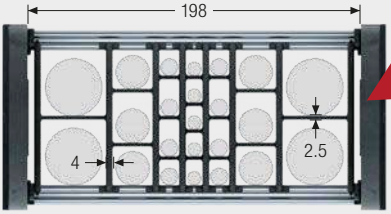
The next generation of the TS3 divider system

Width optimized for more space in the same cable carrier

Width comparison

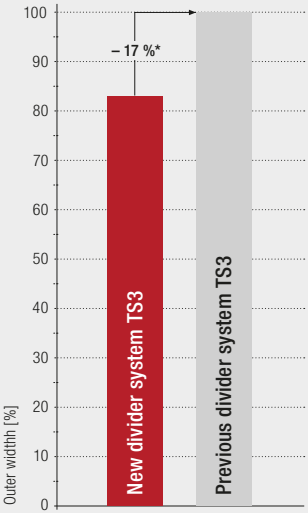


Previous divider system TS3 with stay variant RE



Significatn space saving with same filling capacity through the new divider system TS3 with stay variant RE

Width optimization through adapted dividers



*For inner width B_i = 238 mm with stay variant RE

Easy-to-assemble cable separation on the smallest footprint

1

Insert cables, open dividers and insert first height separator

2

Insert additional cables, insert height separators

3

Insert cables, complete height separators

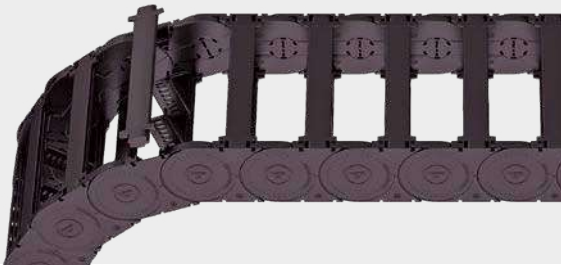
4

Close dividers

LE60 RE | Dimensions · Technical data

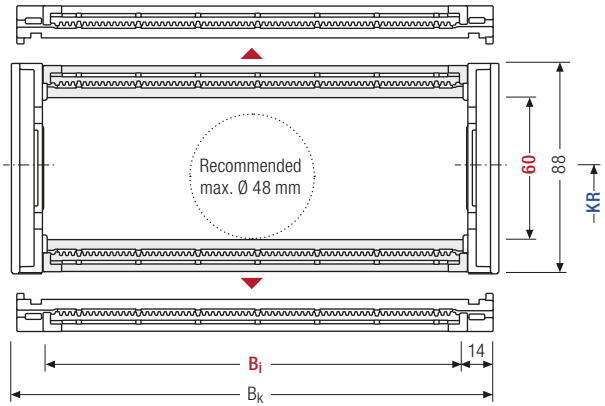
Plastic stay RE –
frame screw-in stay

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



Stays mounted on each chain link **(VS: fully-stayed)**

B_i 85 – 250 mm



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

Calculating the cable carrier length

Cable carrier length L_k

$$L_k \approx \frac{L_S}{2} + L_B$$

Cable carrier length L_k rounded to pitch t

h_i [mm]	h_G [mm]	B_i [mm]				B_k [mm]	KR [mm]					q_k [kg/m]
60	88	85	125	138	150	B_i + 28	135	150	175	200	250	3.00 – 4.20
		180	196	225	250		300	350	400	500		

Order example

LE 60	.	180	.	RE	.	250	-	2184	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

Technical support:
technik@kabelschlepp.de

Divider systems

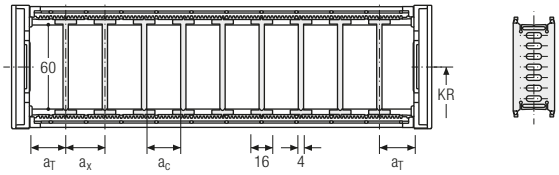
The divider system is mounted on every 2nd chain link as a standard.

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

Divider system TS0 without height separation

Vers.	$a_{T\ min}$ [mm]	$a_{x\ min}$ [mm]	$a_{C\ min}$ [mm]	$n_{T\ min}$
A	10	13	9	–

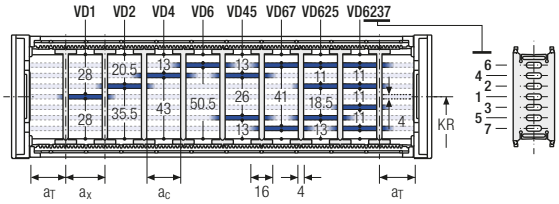
The dividers can be moved within the cross section.



Divider system TS1 with continuous height separation

Vers.	$a_{T\ min}$ [mm]	$a_{x\ min}$ [mm]	$a_{C\ min}$ [mm]	$n_{T\ min}$
A	10	13	9	2

The dividers can be moved within the cross section.



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LE60 RE | Inner distribution | TS3

Divider system TS3 with height separation consisting of plastic partitions

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

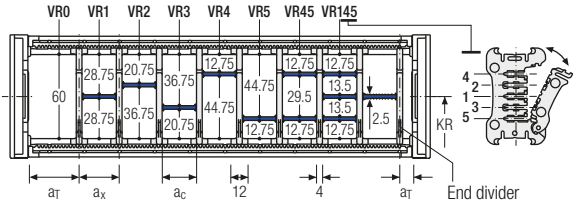
Divider version A

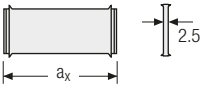
End divider

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

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

Order example

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

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

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

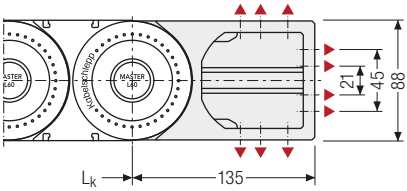
Key for abbreviations on page 16

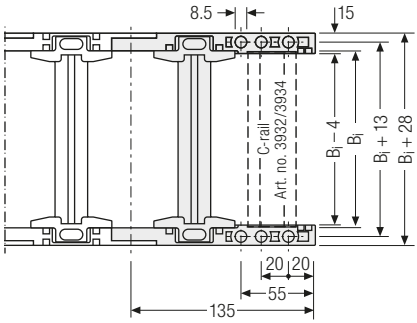
Design guidelines from page 62

Technical support:
technik@kabelschlepp.de

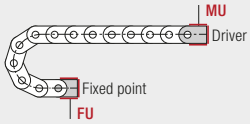
Universal end connectors UMB – plastic (standard)

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 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 cable carrier here: **onlineengineer.de**

L80

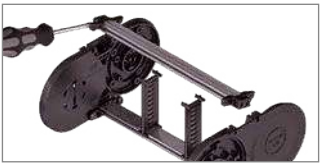
Pitch
111 mm

Inner height
80 mm

Inner widths
85 – 800 mm

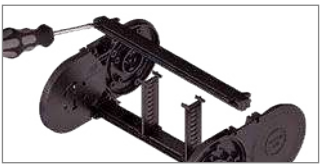
Bending radii
150 – 500 mm

Stay variants



Aluminum stay RSH ..... page 302

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



Plastic stay RE ..... page 306

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

Key for abbreviations on page 16

Design guidelines from page 62

Technical support:
technik@kabelschlepp.de

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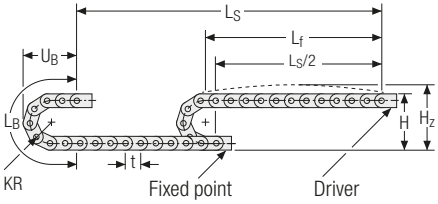
L80 | Installation dim. | Unsupported

Unsupported arrangement

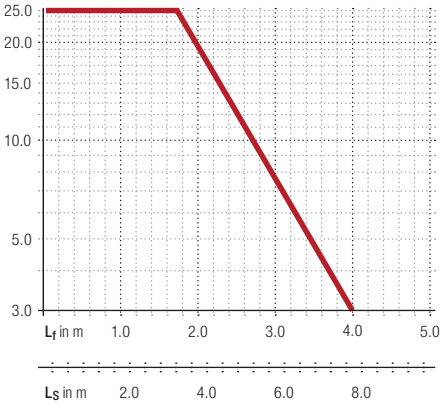


KR [mm]	H [mm]	H_Z [mm]	L_B [mm]	U_B [mm]
150	410	470	694	316
200	510	570	851	366
250	610	670	1008	416
300	710	770	1165	466
350	810	870	1322	516
400	910	970	1479	566
500	1110	1170	1793	666

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 = 5.63 kg/m. For other inner widths, the maximum additional load changes.



Speed
up to 5 m/s

Acceleration
up to 25 m/s²

Travel length
up to 7.9 m

Additional load
up to 25 kg/m

More product information online

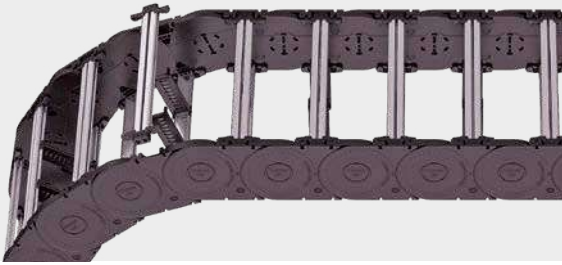
Assembly instructions etc.: Additional info via your smartphone or check online at **tsubaki-kabelschlepp.com/support**

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

LC80 RSH | Dimensions · Technical data

Plastic stay RSH –
screw-in frame stay

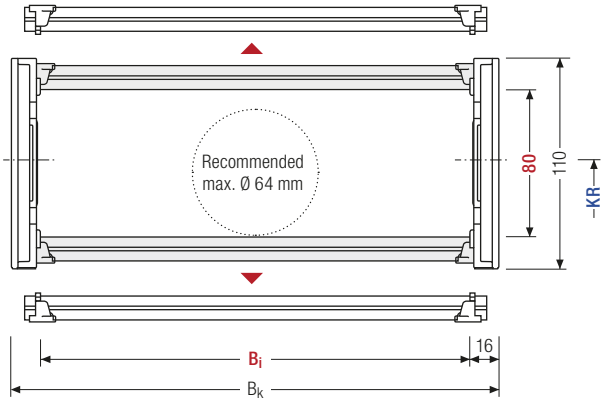
- Aluminum profile bars for light to medium loads. Assembly without screws.
- Available customized in **1 mm grid**.
- **Outside/inside:** release by rotating.



Stays mounted 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]	B_i [mm]*	B_k [mm]	KR [mm]							q_k [kg/m]
80	110	**100 – 800**	B_i + 32	**150**	**200**	**250**	**300**	**350**	**400**	**500**	3.89 – 10.01

* in 1 mm width sections

Order example

LC 80	.	500	.	RSH	.	300	-	2442	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

Technical support:
technik@kabelschlepp.de

Divider systems

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

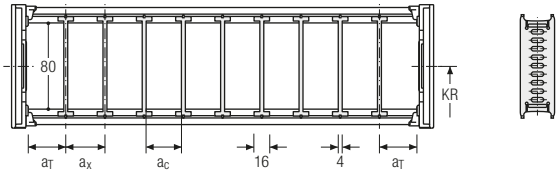
As a standard, dividers or the complete divider system (dividers with height separations) are movable in the cross section **(version A)**.

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

Divider system TS0 without height separation

Vers.	a_T min [mm]	a_x min [mm]	a_c min [mm]	a_x grid [mm]	n_T min
A	10	16	12	–	–
B	10	16	12	3	–

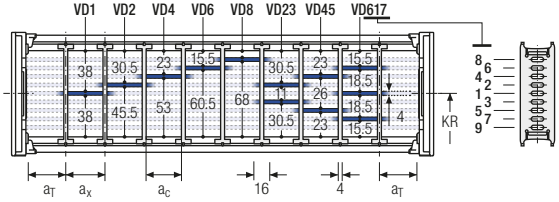
The dividers can be moved within the cross section (version A) or fixed (version B).



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	10	16	12	–	2
B	10	16	12	3	2

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



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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**

LC80 RSH | Inner distribution | TS3

Divider system TS3 with height separation consisting of plastic partitions

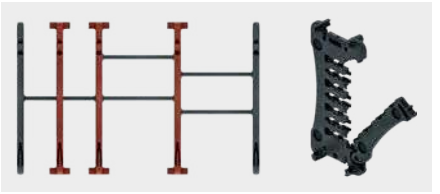
As a standard, the divider **version A** is used for vertical partitioning within the cable carrier. The complete divider system can be moved within the cross section.

Key for abbreviations on page 16

Design guidelines from page 62

Technical support: technik@kabelschlepp.de

Divider version A

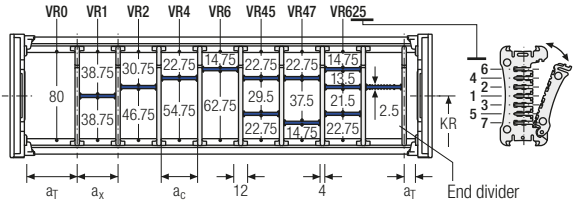


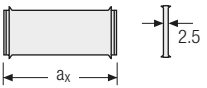
End divider

Vers.	$a_{T\ min}$ [mm]	$a_{x\ min}$ [mm]	$a_{C\ min}$ [mm]	n_T min
A	8 / 4*	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	

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

Order example

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

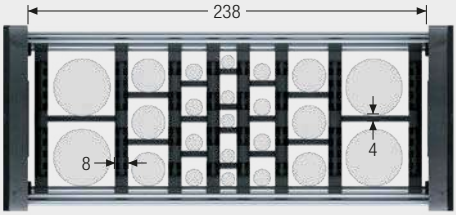
Please state the designation of the divider system **(TS0, TS1,...)**, version and number of dividers per cross section [n_T]. In addition, please also enter the chambers [K] from left to right, as well as the assembly distances [a_T/a_x] (as seen from the driver).

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

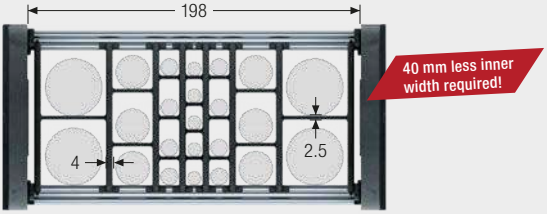
The next generation of the TS3 divider system

Width optimized for more space in the same cable carrier

Width comparison

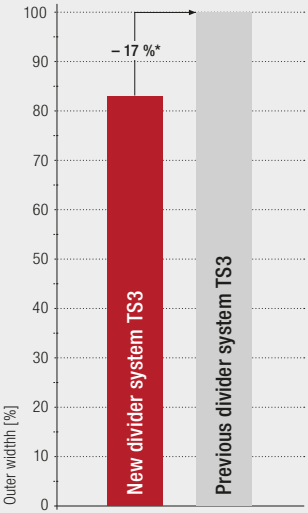


Previous divider system TS3 with stay variant RE



Significatn space saving with same filling capacity through the new divider system TS3 with stay variant RE

Width optimization through adapted dividers



*For inner width B_i = 238 mm with stay variant RE

Easy-to-assemble cable separation on the smallest footprint

1 Insert cables, open dividers and insert first height separator

2 Insert additional cables, insert height separators

3 Insert cables, complete height separators

4 Close dividers

Key for abbreviations on page 16

Design guidelines from page 62

Technical support:
technik@kabelschlepp.de

online-engineer.de
Cable Carrier Configurator

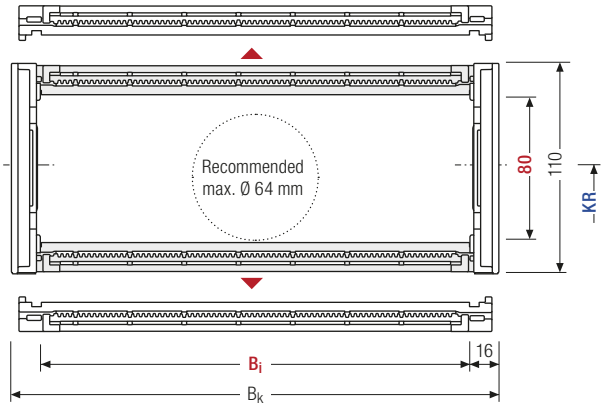
LE80 RE | Dimensions · Technical data

Plastic stay RE –
frame screw-in stay

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

Stays mounted on each chain link **(VS: fully-stayed)**

B_i 85 – 250 mm



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

Calculating the cable carrier length

Cable carrier length L_k

$$L_k \approx \frac{L_S}{2} + L_B$$

Cable carrier length L_k rounded to pitch t

h_i [mm]	h_G [mm]	B_i [mm]				B_k [mm]	KR [mm]			q_k [kg/m]
80	110	85	125	138	150	B_i + 32	150	200	300	3.84 – 4.83
		180	196	225	250		350	400	500	

Order example

LE 80	.	250	.	RE	.	300	-	2442	VS
Type		B_i [mm]		Stay variant		KR [mm]		L_k [mm]	Stay arrangement

Subject to change.

Divider systems

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

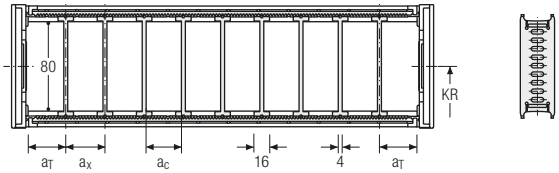
As a standard, dividers or the complete divider system (dividers with height separations) are movable in the cross section **(version A)**.

For applications with lateral acceleration and lying on the side, divider with arresting cams are available. These can be fixed in the latching profile of the stays **(version B)**.

Divider system TS0 without height separation

Vers.	a_T min [mm]	a_x min [mm]	a_c min [mm]	a_x grid [mm]	n_T min
A	10	16	12	–	–
B	10	16	12	2.5	–

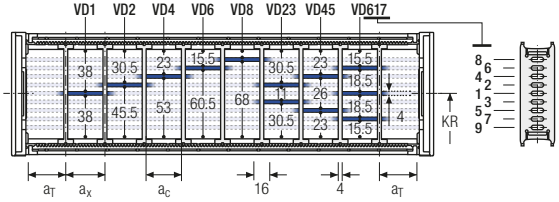
The dividers can be moved within the cross section (version A) or fixed (version B).



Divider system TS1 with continuous height separation

Vers.	a_T min [mm]	a_x min [mm]	a_c min [mm]	a_x grid [mm]	n_T min
A	10	16	12	–	2
B	10	16	12	2.5	2

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



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LE80 RE | 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

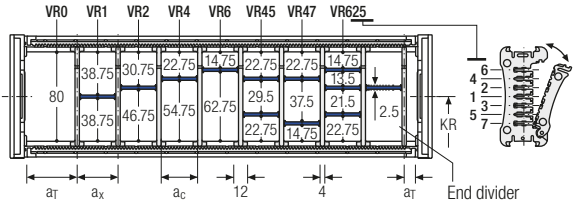
Divider version A

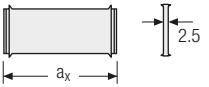
End divider

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

* For End divider

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

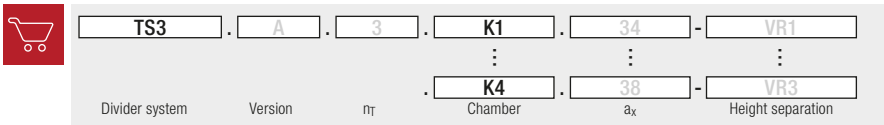




a_x (center distance of dividers) [mm]																
a_c (nominal width of inner chamber) [mm]																
14	**16**	**19**	**23**	**24**	**28**	**29**	**32**	**33**	**34**	**38**	**39**	**43**	**44**	**48**	**49**	**54**
10	12	15	19	20	24	25	28	29	30	34	35	39	40	44	45	50
58	**59**	**64**	**68**	**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	

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

Order example



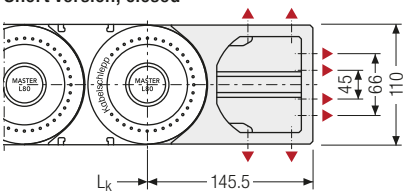
Please state the designation of the divider system **(TS0, TS1,...)**, version and number of dividers per cross section [n_T]. In addition, please also enter the chambers [K] from left to right, as well as the assembly distances [a_T/a_x] (as seen from the driver).

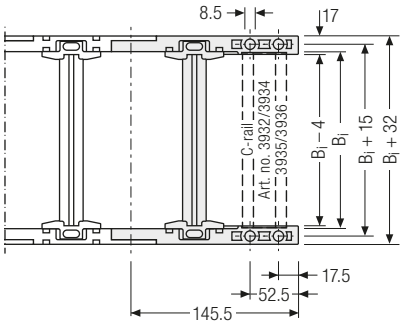
If using divider systems with height separation **(TS1, TS3)** please also state the positions [e.g. VD23] viewed from the left driver belt. You are welcome to add a sketch to your order.

Universal end connectors UMB – plastic (standard)

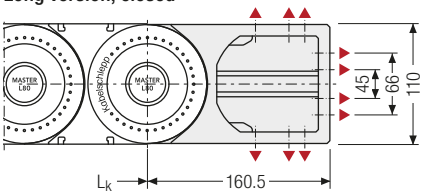
The universal mounting brackets (UMB) are made from plastic and can be mounted **from the top, from the bottom or face on**.

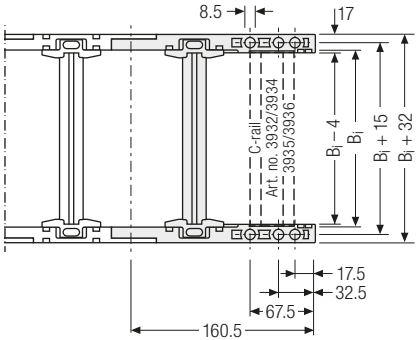
Short version, closed





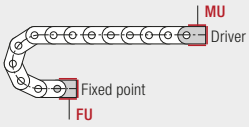
Long version, closed





Optionally, the end connectors are available in an **open** version for easy mounting. Please state when ordering.

▲ 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 before driver and fixed point. See from p. 794.