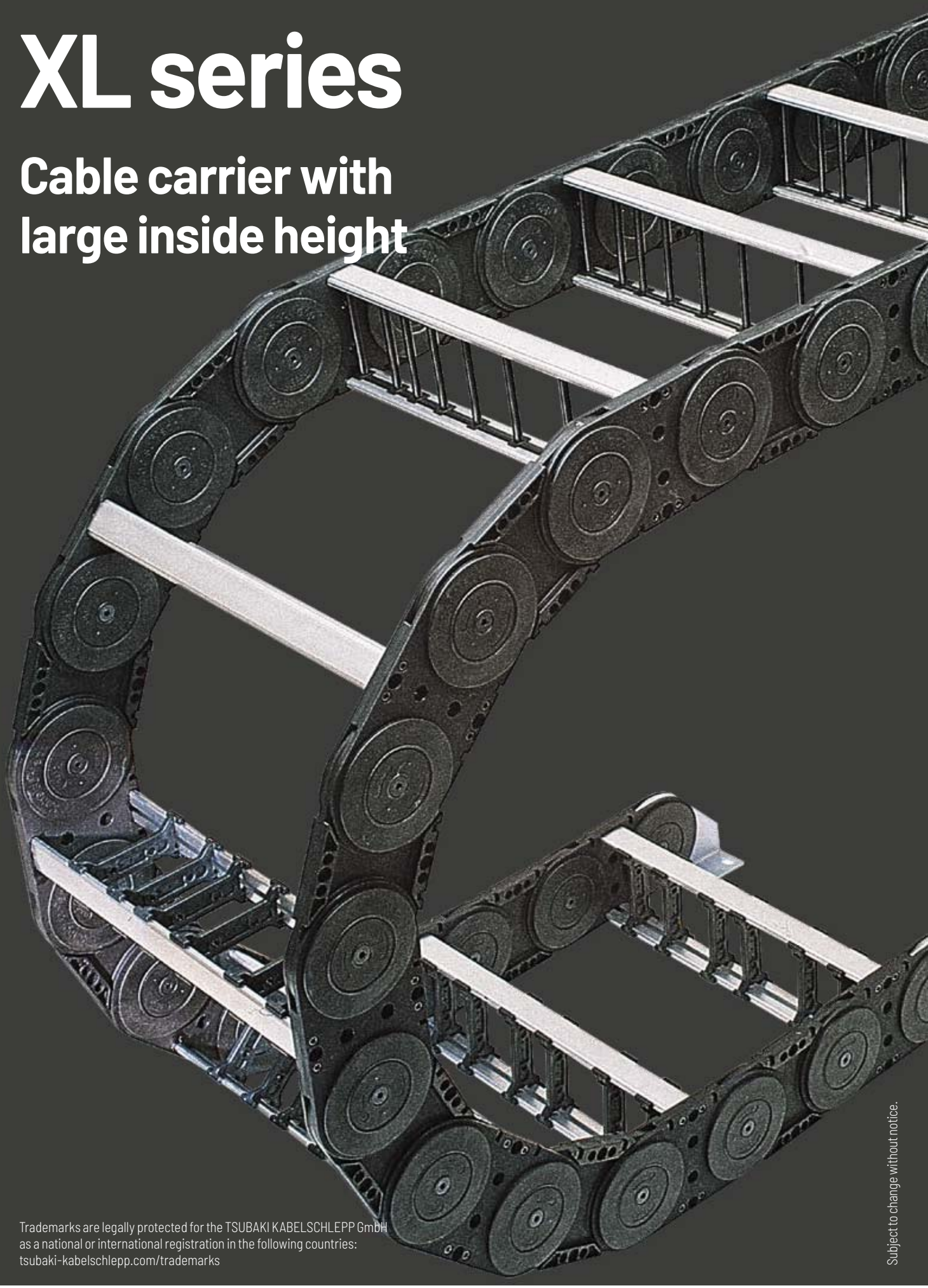
XL series

Cable carrier with large inside height



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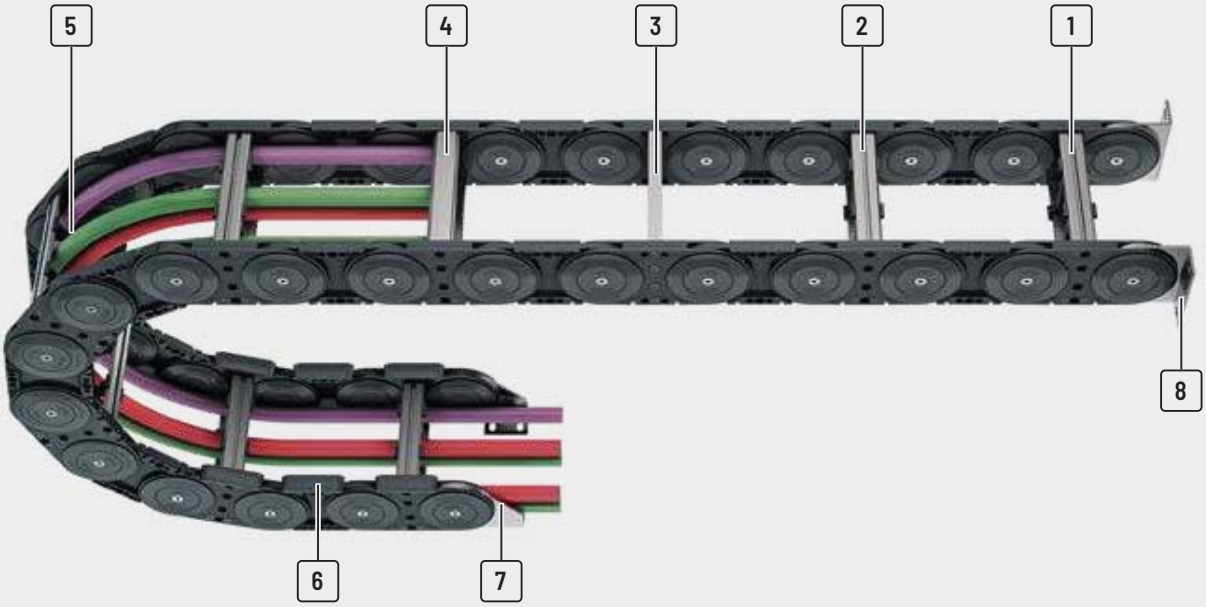
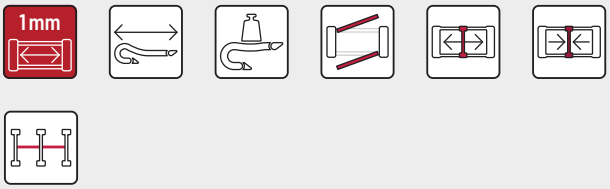


1 Aluminum stays available in **1 mm width sections**
2 Aluminum stays with 4 screw-fixing points for extreme loads
3 Aluminum hole stays
4 Plastic rolling stays
5 Can be opened on the inside and the outside for installation of cables and hoses
6 Replaceable glide shoes
7 Sturdy end connectors made of steel
8 Flange connection

Features

» Sizes/dimensions
» Low intrinsic weight
» Optimum force transmission via the large-surface stroke system (2 disc principle)
» Plastic side bands in combination with aluminum stays
» Versions with aluminum stays available in 1 mm width sections up to 1000 mm inner width
» Can be opened on both sides
» Large selection of stay systems and separating options for cables
» Optionally with strain relief



Bolted stays for maximum stability even for large cable carrier widths

Replaceable glide shoes for long service life for gliding applications

Sturdy end connectors made of steel (different connection variants)

Many separation options for the cables

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XL series | Overview

Type	Opening variant	Stay variant	h_i [mm]	h_G [mm]	B_i [mm]	B_k [mm]	B_i-grid [mm]	t [mm]	KR [mm]	Additional load ≤ [kg/m]	Cable-d_{max} [mm]
XLC 1650											
		RM	108	140	200 – 1000	268 – 1068	1	165	250 – 550	65	86
		LG	110	140	200 – 1000	268 – 1068	1	165	250 – 550	65	88
		RMR	108	140	200 – 1000	268 – 1068	1	165	250 – 550	65	84

* Further information on request.

XLT series

Also available as covered versions with covers system. More information can be found in chapter "XLT series" from page 664.

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XL series | Overview

Unsupported arrangement			Gliding arrangement			Inner Distribution				Movement			Page
Travel length ≤ [m]	v_{max} ≤ [m/s]	a_{max} ≤ [m/s²]	Travel length ≤ [m]	v_{max} ≤ [m/s]	a_{max} ≤ [m/s²]	TS0	TS1	TS2	TS3	vertical hanging or standing	lying on the side	rotating arrangement	
11.75	4	25	350	2	2 – 3	•	–	–	•	•	•	•	488
11.75	4	25	350	2	2 – 3	–	–	–	–	•	•	•	*
11.75	4	25	350	2	2 – 3	•	–	–	–	•	•	•	*

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XL1650

Pitch
165 mm

Inner height
108 mm

Inner widths
200 – 1000 mm

Bending radii
250 – 550 mm

Stay variants

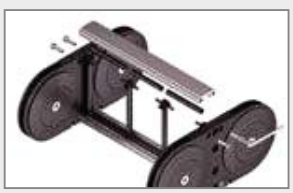
Aluminum stay RM ..... page **488**

Frame stay, solid

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

Additional stay variants on request

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



Aluminum stay RMR
Gentle cable guiding with rollers.

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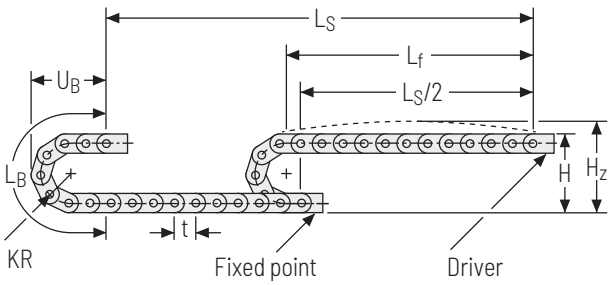
XL1650 | Installation dim. | Unsupported · Gliding

Unsupported arrangement

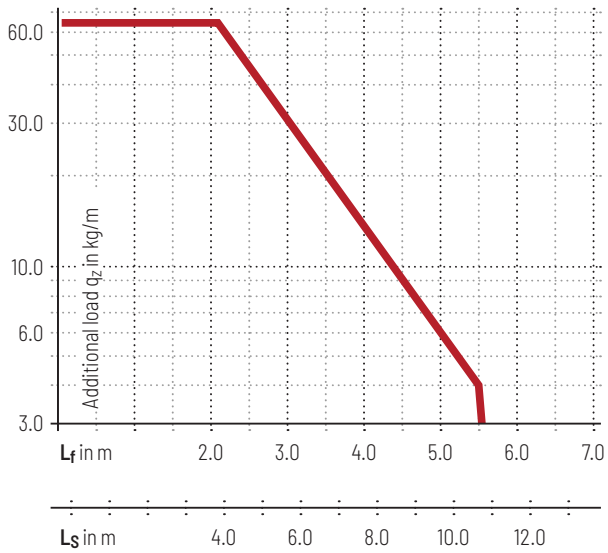


KR [mm]	H [mm]	Hz [mm]	LB [mm]	UB [mm]
250	640	740	1115	485
300	740	840	1272	535
350	840	940	1430	585
400	940	1040	1587	635
450	1040	1140	1744	685
500	1140	1240	1901	735
550	1240	1340	2058	785

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 = 13 kg/m. For other inner widths, the maximum additional load changes.



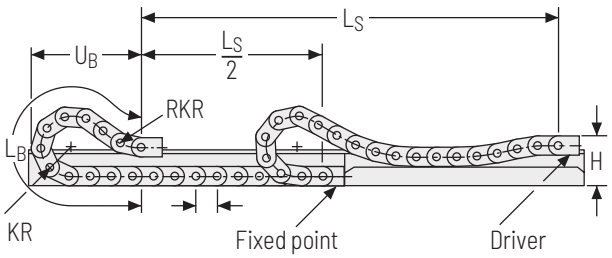
Speed
up to 4 m/s

Acceleration
up to 25 m/s²

Travel length
up to 11.75 m

Additional load
up to 65 kg/m

Gliding arrangement



Speed
up to 2 m/s

Acceleration
up to 2 – 3 m/s²

Travel length
up to 350 m

Additional load
up to 65 kg/m

The gliding cable carrier must be guided in a channel. See p. 850.

We recommend the use of glide shoes for gliding applications.

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

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XLC1650 RM | Dimensions · Technical data

Aluminum stay RM –
Frame stay, solid

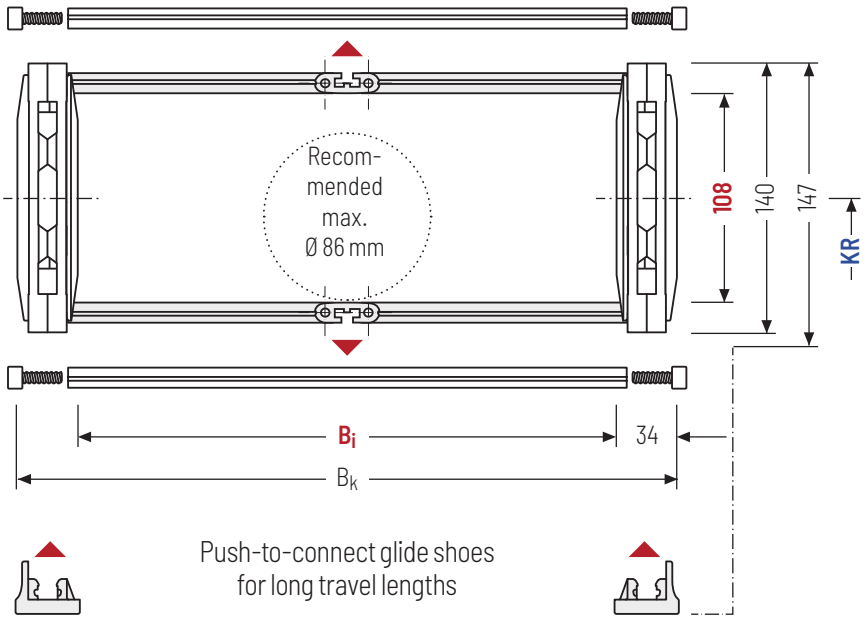
» Aluminum profile bars for heavy loads and maximum cable carrier widths. Double threaded joints on both sides **"Heavy Duty"**.
» Available customized in **1 mm grid**.
» **Inside/outside:** Threaded joints easy to release.

HEAVY DUTY
TSUBAKI KABELSCHLEPP

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

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

1 mm
B_i 200 – 1000 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]
108	140	147	200 – 1000	B_i + 68	250	300	350	400	450	500	550	10.5 – 15.3

* in 1 mm width sections

Order example

XLC1650	.	600	.	RM	.	350	-	4125		HS
Type		B_i [mm]		Stay variant		KR [mm]		L_k [mm]		Stay arrangement

Subject to change without notice.

Divider systems

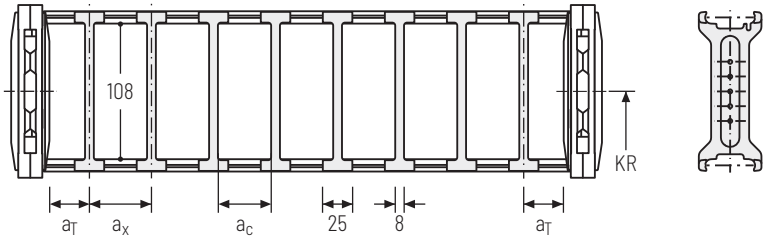
The divider system is mounted on each crossbar as a standard – on every 2nd chain link for stay mounting (HS).

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	6	25	17	–

The dividers can be moved in the cross section.

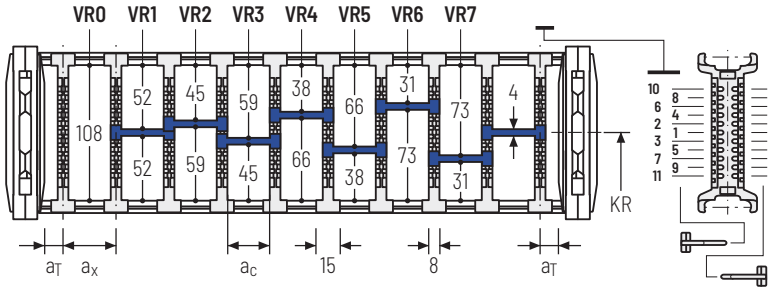


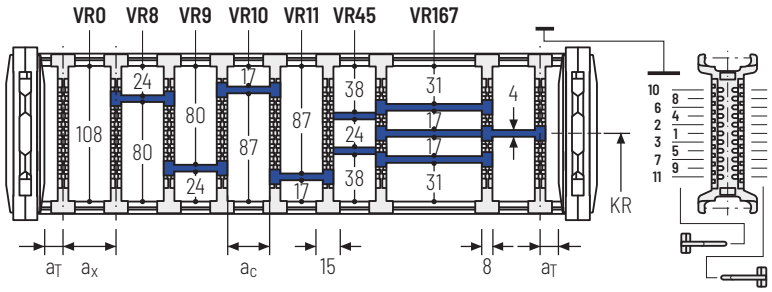
Divider system TS3 with height separation consisting of plastic partitions

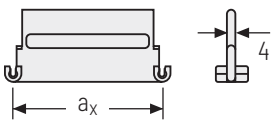
Vers.	a_T min [mm]	a_x min [mm]	a_c min [mm]	n_T min
A	1	16 / 42*	8	2

* 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 = 5 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, TS3)**, 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].

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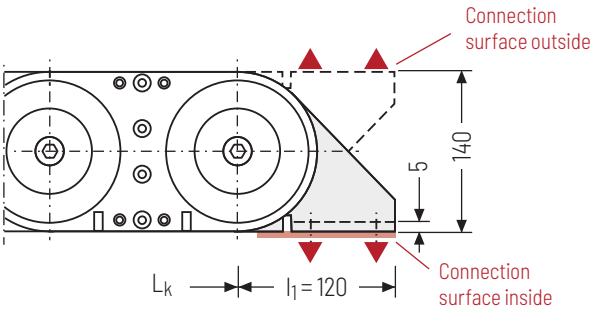
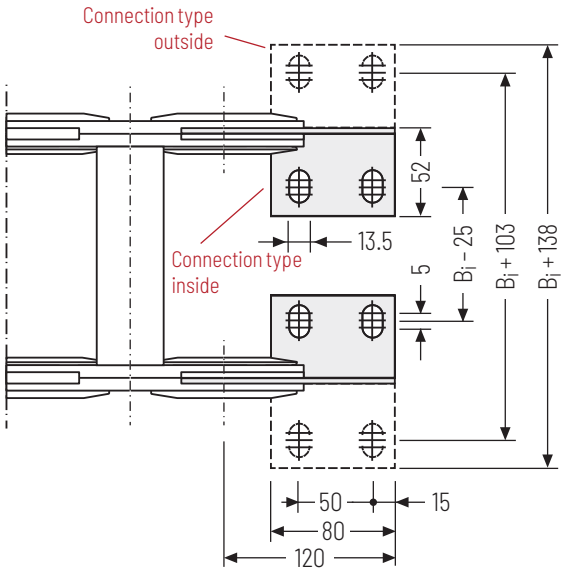
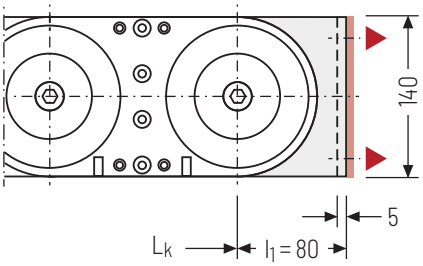
XL1650 | End connectors

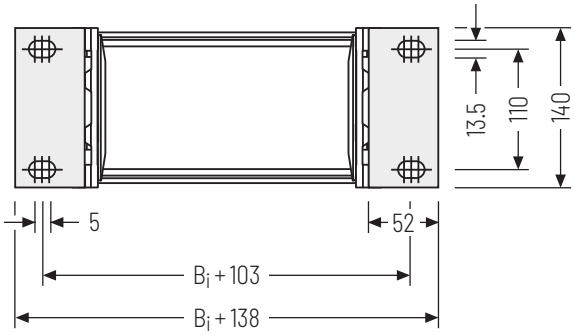
End connectors – steel

End connectors made of steel. The connection variants on the fixed point and on the driver an be combined and changed later on, if necessary.

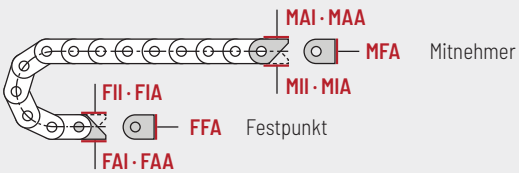








▲ Assembly options



Connection point
F – fixed point
M – driver

Connecting surface
A – connecting surface outside
I – connecting surface inside

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

Order example

Steel	.	F	A	I
Steel	.	M	A	I
End connector		Connection point	Connection type	Connecting surface

We recommend the use of strain reliefs at the driver and fixed point. See from p. 908.

Subject to change without notice.

Subject to change without notice.