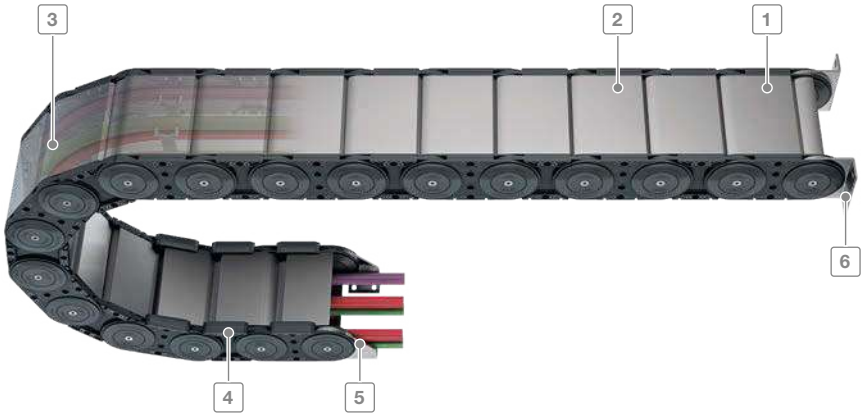
XLT series

Tubes with variable cable carrier widths

XLT series | Overview



1 Aluminum covers available in **1 mm width sections**
2 4 screw-fixing points for extreme loads
3 Can be opened on the inside and the outside for installation of cables and hoses
4 Replaceable glide shoes
5 Sturdy end connectors made of steel
6 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 separating options for cables and hoses
- Optionally with strain relief

Bolted covers systems 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

Inner heights
105

Inner widths
200 – 1000

tsubaki-kabelschlepp.com/xlt

XLT 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]
XLT1650											
		RMD	105	140	200 – 1000	B_i + 68	1	165	300 – 550	65	84

Key for abbreviations on page 16

Design guidelines from page 62

Technical support:
technik@kabelschlepp.de

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	
11.75	4	25	350	2	2 – 3	●	–	–	●	●	●	–	570

XLT1650

Pitch
165 mm

Inner heights
105 mm

Inner widths
200 – 1000 mm

Bending radii
300 – 550 mm

Stay variants

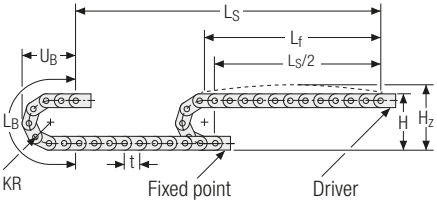
Aluminum stay RMD page 570

Aluminum cover system

- Bolted aluminum covers for maximum stability
- For applications generating swarf or coarse contamination
- **Inside/outside:** Threaded joint easy to release.

XLT1650 | Installation dim. | Unsupported · Gliding

Unsupported arrangement

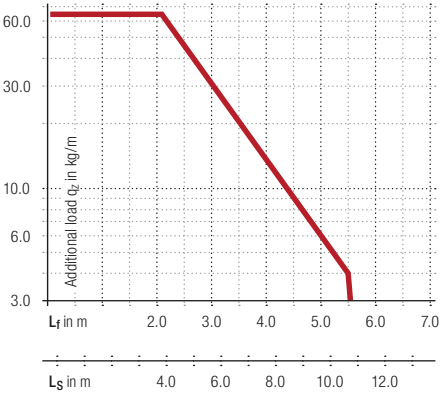


KR [mm]	H [mm]	H_z [mm]	L_B [mm]	U_B [mm]
300	740	840	1107	453
350	840	940	1264	503
400	940	1040	1421	553
450	1040	1140	1578	603
500	1140	1240	1735	653
550	1240	1340	1892	703

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.



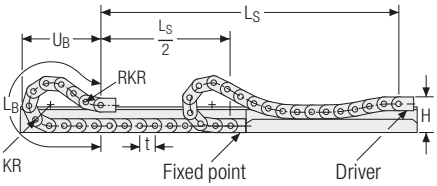
Speed
up to 4 m/s

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. 732.

We recommend the use of glide shoes for gliding applications.

Key for abbreviations on page 16

Design guidelines from page 62

Technical support:
technik@kabelschlepp.de

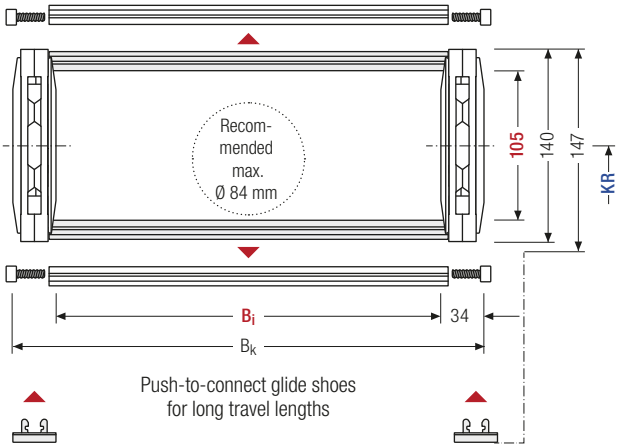
XLT1650 RMD | Dimensions · Technical data

Aluminum stay RMD –
aluminum cover system

- Bolted aluminum covers for maximum stability
- For applications generating swarf or coarse contamination
- Available customized in **1 mm grid**.
- **Inside/outside:** Threaded joint easy to release.

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 for odd number of chain links

h_i [mm]	h_G [mm]	$h_{G'}$ [mm]	B_i [mm]*	B_k [mm]	KR [mm]						q_k [kg/m]
105	140	147	**200 – 1000**	B_i + 68	**300**	**350**	**400**	**450**	**500**	**550**	10.5 – 15.3

* in 1 mm width sections

Order example

XLT1650	.	420	.	RMD	.	350	-	2850		VS
Type		B_i [mm]		Stay variant		KR [mm]		L_k [mm]		Stay arrangement

XLT1650 RMD | Inner distribution | TS0 · TS3

Divider systems

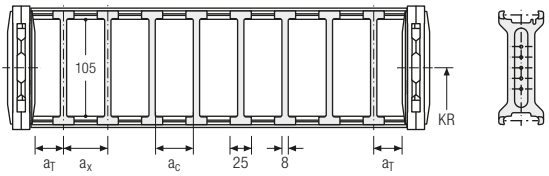
The divider system is mounted on each crossbar as a standard – on every 2nd chain link for stay mounting (HS).

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.

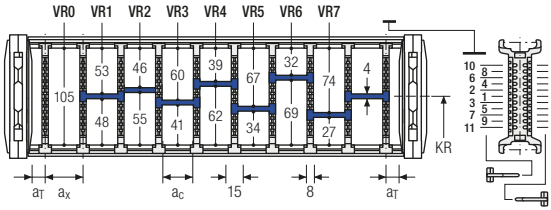


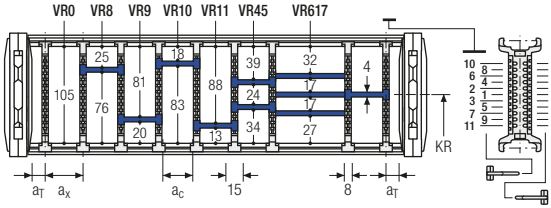
Divider system TS3 with height separation consisting of plastic partitions

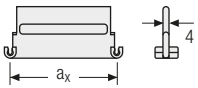
Vers.	a_T min [mm]	a_x min [mm]	a_C min [mm]	n_T min
A	1	16 / 42*	8	2

* 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].

XLT1650 | End connectors

Key for abbreviations on page 16

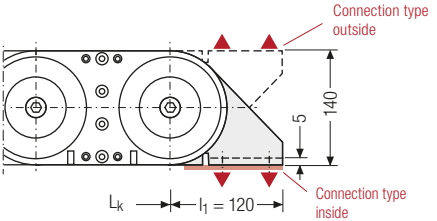
Design guidelines from page 62

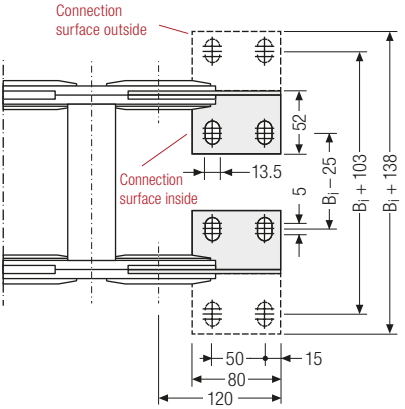
Technical support:
technik@kabelschlepp.de

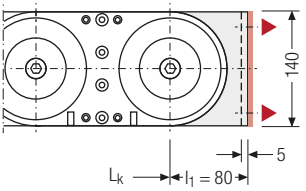
online-engineer.de
Cable Carrier Configurator

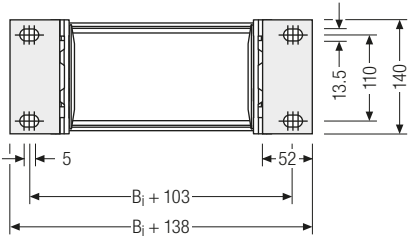
End connectors – steel

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.

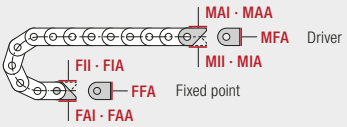








▲ Assembly options



Connection point
F – fixed point
M – driver

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

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

Order example

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

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

Subject to change.