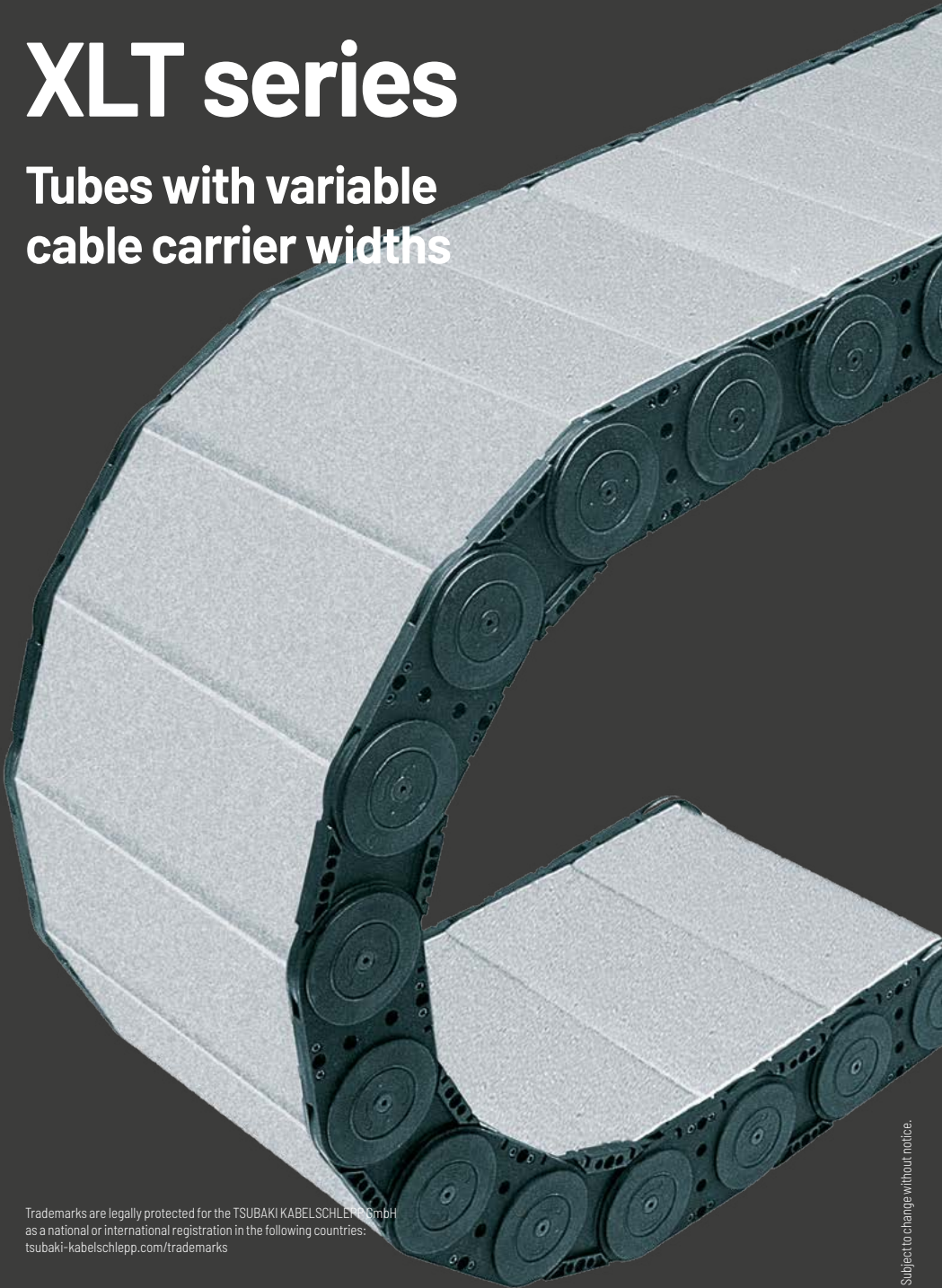


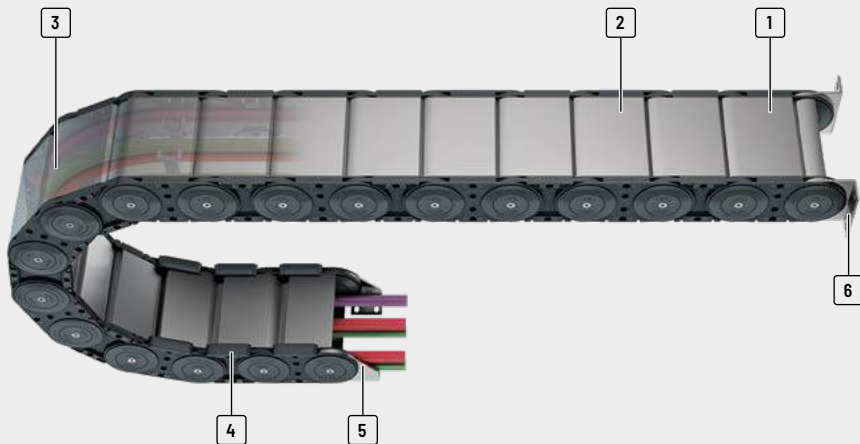
# XLT series

**Tubes with variable  
cable carrier widths**



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- 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**

MT  
seriesXLT  
seriesROBOTRAX®  
System

FLATVEYOR®

CLEANVEYOR®

LS/LSX  
seriesS/SX  
seriesS/SX-Tubes  
series

Accessories

TRAXLINE®

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]
<b>XLT1650</b>											
		RMD	105	140	200 - 1000	268 - 1068	1	165	300 - 550	65	84

# XLT series | Overview

Unsupported arrangement			Gliding arrangement			Inner Distribution				Movement			Page
Travel length ≤ [m]	$v_{max}$ ≤ [m/s]	$a_{max}$ ≤ [m/s <sup>2</sup> ]	Travel length ≤ [m]	$v_{max}$ ≤ [m/s]	$a_{max}$ ≤ [m/s <sup>2</sup> ]	TS0	TS1	TS2	TS3	vertical hanging or standing	lying on the side	rotating arrangement	

11.75	4	25	350	2	2-3	•	-	-	•	•	•	-	636
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# XLT1650



**Pitch**  
165 mm



**Inner heights**  
105 mm



**Inner widths**  
200 - 1000 mm



**Bending radii**  
300 - 550 mm

## Stay variants

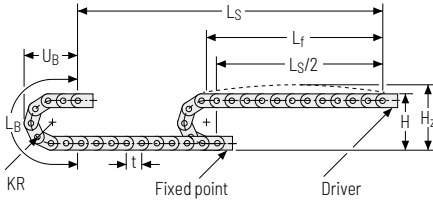


**Aluminum stay RMD** ..... page **636**

### Aluminum cover system

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

Unsupported arrangement

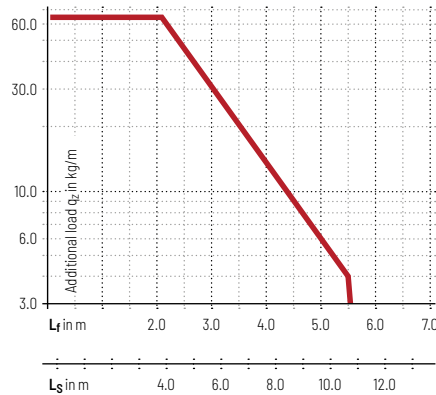






KR [mm]	H [mm]	H <sub>z</sub> [mm]	L <sub>B</sub> [mm]	U <sub>B</sub> [mm]
300	740	840	1272	535
350	840	940	1430	585
400	940	1040	1587	635
450	1040	1140	1744	685
500	1140	1240	1901	735
550	1240	1340	2058	785

**Load diagram for unsupported length** depending on the additional load.

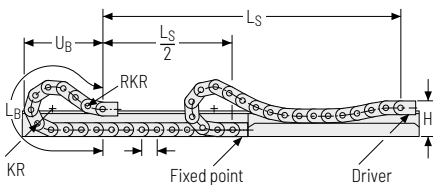
Sagging of the cable carrier is technically permitted for extended travel lengths, depending on the specific application.





Intrinsic cable carrier weight  $q_k = 13 \text{ kg/m}$ . For other inner widths, the maximum additional load changes.




-  **Speed**  
up to 4 m/s
-  **Acceleration**  
up to 25 m/s<sup>2</sup>
-  **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/s<sup>2</sup>
-  **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. 844.

We recommend the use of glide shoes for gliding applications.

## Aluminum stay RMD – aluminum cover system

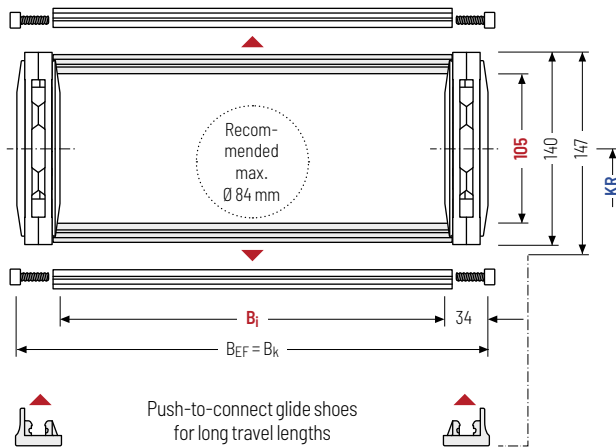
- » Bolted aluminum covers for maximum stability
- » For applications generating swarf or coarse contamination
- » Available customized in **1 mm grid**.
- » **Inside/outside:** Threaded joint easy to release.



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



**1 mm** B<sub>i</sub>: 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  $t$

$h_j$ [mm]	$h_g$ [mm]	$h_g'$ [mm]	B <sub>i</sub> [mm]*	B <sub>k</sub> [mm]	B <sub>E</sub> F [mm]	KR [mm]		q <sub>k</sub> [kg/m]
105	140	147	200 – 1000	B <sub>i</sub> + 68	B <sub>i</sub> + 68	300	350 400 450 500 550	10.5 – 15.3

\* in 1 mm width sections

### Order example



XLT1650

Type

420

B<sub>i</sub> [mm]

RMD

Stay variant

350

KR [mm]

2850

L<sub>k</sub> [mm]

VS

Stay arrangement

**Divider systems**

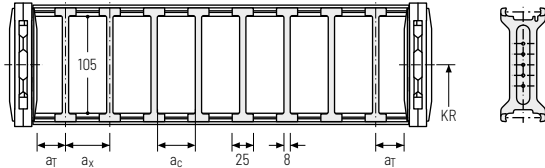
The divider system is mounted on each crossbar as a standard – on every 2<sup>nd</sup> chain link for stay mounting (HS).

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

**Divider system TSO without height separation**

Vers.	a <sub>T</sub> min [mm]	a <sub>x</sub> min [mm]	a <sub>c</sub> min [mm]	n <sub>T</sub> min
A	6	25	17	-

The dividers can be moved in the cross section.

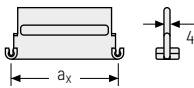
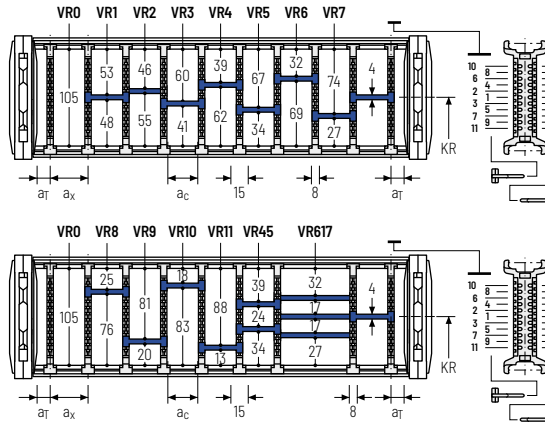


**Divider system TS3 with height separation consisting of plastic partitions**

Vers.	a <sub>T</sub> min [mm]	a <sub>x</sub> min [mm]	a <sub>c</sub> min [mm]	n <sub>T</sub> 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 1mm increments with a<sub>x</sub> > 42mm are also available.

a <sub>x</sub> (center distance of dividers) [mm]											
a <sub>c</sub> (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<sub>x</sub> > 112 mm, we recommend an additional center support with a twin divider (S<sub>T</sub> = 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<sub>T</sub>

Chamber

a<sub>x</sub>

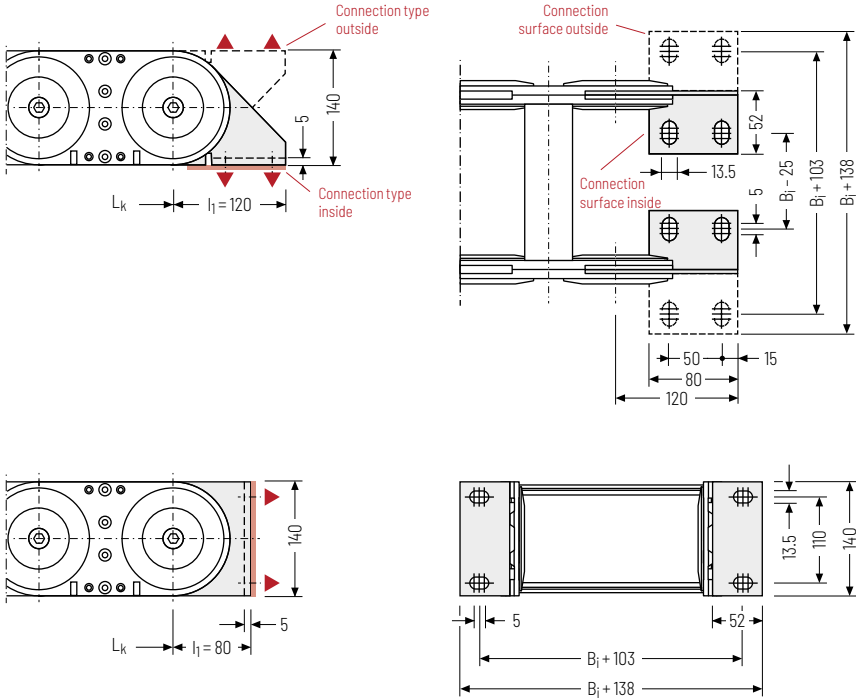
Height separation

Please state the designation of the divider system (**TS0, TS3**), the version, and the number of dividers per cross section [n<sub>T</sub>]. In addition, please also enter the chambers [K] from left to right, as well as the assembly distances [a<sub>T</sub>/a<sub>x</sub>].

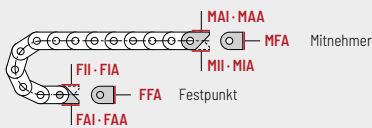


## End connectors - steel

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



### ▲ Assembly options



### Connection point

- F** - fixed point
- M** - driver

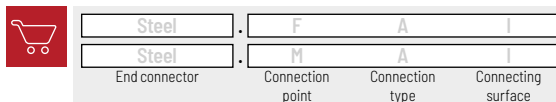
### Connecting surface

- A** - connecting surface outside
- I** - connecting surface inside

### Connection type

- A** - threaded joint outside (standard)
- I** - threaded joint inside
- F** - flange connection

### Order example



We recommend the use of strain reliefs at the driver and fixed point. See from p. 904.

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series

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XLT  
series

MT  
series