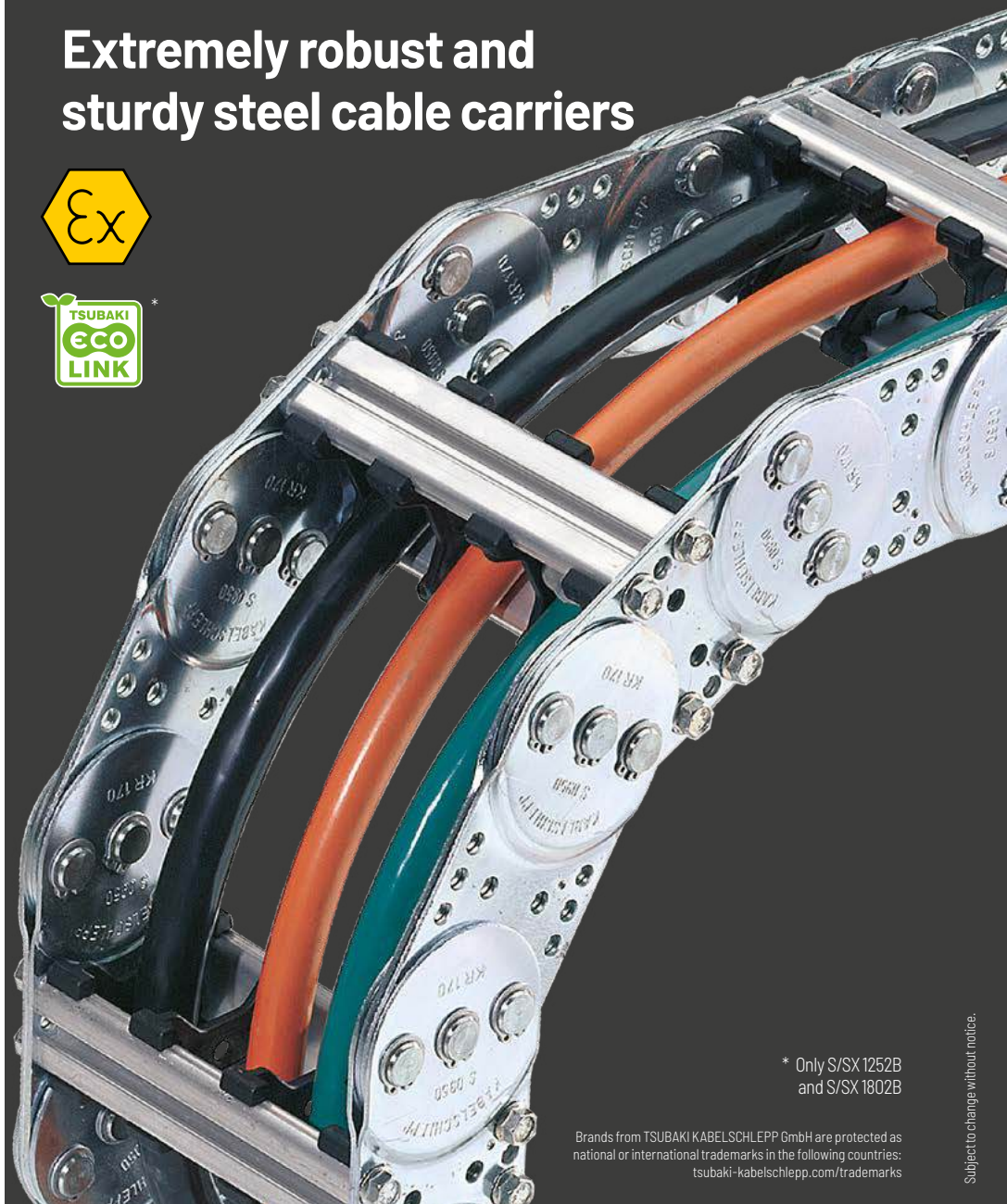


S/SX series

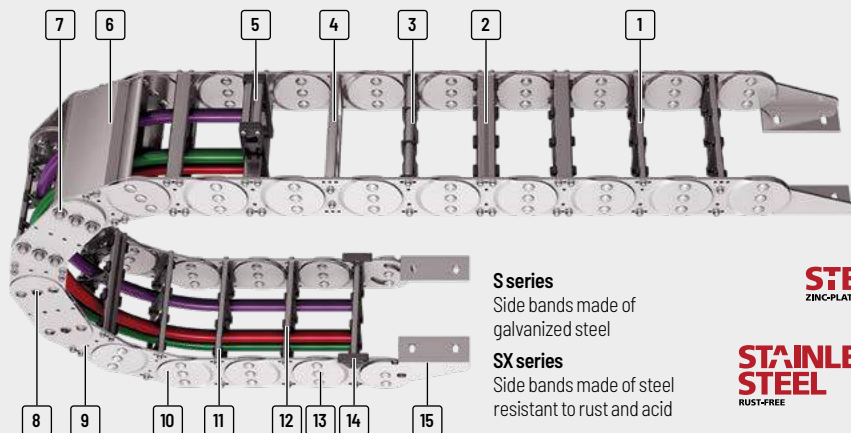
Extremely robust and
sturdy steel cable carriers



* Only S/SX 1252B
and S/SX 1802B

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Subject to change without notice.

**S series**

Side bands made of
galvanized steel

STEEL
ZINC-PLATED**SX series**

Side bands made of steel
resistant to rust and acid

**STAINLESS
STEEL**
RUST-FREE

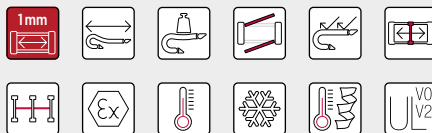
- 1 All stays available in **1 mm width sections**
- 2 Aluminum stays with 4 screw-fixing points for extreme loads
- 3 Roller stays
- 4 Aluminum hole stays
- 5 Mounting frame stays
- 6 Aluminum cover available in **1 mm width sections**
- 7 Joint design with hardened bolts for long service life
- 8 Bolted and riveted joint connections possible
- 9 Straight link plate design (S/SX1252/1252B and S/SX1802/1802B)
- 10 Cranked link plate design
- 11 Different separation options for the cables
- 12 Opening inside and outside
- 13 Extremely robust side bands
- 14 Replaceable glide shoes
- 15 End connectors for different connection variants

Features

- » Extremely robust, sturdy steel cable carriers for heavy mechanical loads and rough environmental conditions
- » Side bands made of galvanized steel (S series) or corrosion-resistant and acid-resistant steel (SX series) in three qualities: ER 1 / ER 1S and ER 2
- » Very sturdy link plates, each consisting of two individual plates
- » Very extensive unsupported lengths even with large additional loads
- » Bolted stay systems, solid end connectors
- » Joint design with multi stroke system and hardened bolt
- » Explosion protection with classification EX II 2 GD as per ATEX RL

The design

Proven steel cable carriers with extremely sturdy link plates and dedicated joint design with multi stroke system and hardened bolt. The extremely sturdy design allows extensive unsupported lengths and high possible additional loads.



Sandwich design:
Link plates consist of two
plates



Glide shoes available for gliding applications



Stroke system with hardened bolt and circlips



Also available as covered variants with cover system or steel band cover, p. 824 and p. 938

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]
S/SX0650											
		RS 1	31	50	65 – 265	100 – 300	1	65	75 – 400	30	24
		RS 2	31	50	69 – 369	100 – 400	1	65	75 – 400	30	24
		RR	26	50	69 – 369	100 – 400	1	65	75 – 400	30	20
		LG	34	50	35 – 465	70 – 500	1	65	75 – 400	30	26
		RMA	31 (200)	50 (224)	155 – 355	200 – 400	1	65	75 – 400	30	-
S/SX0950											
		RS 1	46	68	107 – 257	150 – 300	1	95	125 – 600	45	36
		RS 2	46	68	113 – 363	150 – 400	1	95	125 – 600	45	36
		RM	43	68	88 – 563	125 – 600	1	95	125 – 600	45	34
		RR	42	68	115 – 465	150 – 500	1	95	125 – 600	45	33
		LG	50	68	82 – 557	125 – 600	1	95	125 – 600	45	38
		RMR	40	68	108 – 558	150 – 600	1	95	125 – 600	45	32
S/SX1250											
		RS 1	72	94	152 – 352	200 – 400	1	125	145 – 1000	50	57
		RS 2	72	94	156 – 456	200 – 500	1	125	145 – 1000	50	57
		RV	72	94	154 – 554	200 – 600	1	125	145 – 1000	50	57
		RM	69	94	151 – 751	200 – 800	1	125	145 – 1000	50	55
		RR	66	94	160 – 560	200 – 600	1	125	145 – 1000	50	52
		LG	76	94	82 – 752	130 – 800	1	125	145 – 1000	50	59
		RMA	72 (200)	94 (226)	154 – 554	200 – 600	1	125	145 – 1000	50	-
		RMR	66	94	153 – 753	200 – 800	1	125	145 – 1000	50	52

* More information can be found in our technical manual.
 ** Depending on the specific application, additional gliding elements or rollers are required.
 *** Application-specific, values on request.

Unsupported arrangement			Gliding arrangement			Inner Distribution				Movement			Page
Travel length ≤ [m]	vmax ≤ [m/s]	amax ≤ [m/s²]	Travel length ≤ [m]	vmax ≤ [m/s]	amax ≤ [m/s²]	TS0	TS1	TS2	TS3	vertical hanging or standing	lying on the side**	rotating arrangement***	
													
5.8	2.5	5	***	1	2	•	•	***	–	•	•	•	750
5.8	2.5	5	***	1	2	•	•	***	–	•	•	•	752
5.8	2.5	5	***	1	2	•	•	–	–	•	•	•	754
5.8	2.5	5	***	1	2	–	–	–	–	•	•	•	756
5.8	2.5	5	***	1	2	•	–	–	–	•	•	–	*
8.8	2.5	5	***	1	2	•	•	***	–	•	•	•	760
8.8	2.5	5	***	1	2	•	•	***	–	•	•	•	762
8.8	2.5	5	***	1	2	•	•	–	–	•	•	•	764
8.8	2.5	5	***	1	2	•	•	–	–	•	•	•	766
8.8	2.5	5	***	1	2	–	–	–	–	•	•	•	768
8.8	2.5	5	***	1	2	•	–	–	–	•	•	•	*
13.5	2.5	5	***	1	2	•	•	–	•	•	•	•	774
13.5	2.5	5	***	1	2	•	•	–	•	•	•	•	778
13.5	2.5	5	***	1	2	•	•	•	•	•	•	•	782
13.5	2.5	5	***	1	2	•	•	•	–	•	•	•	786
13.5	2.5	5	***	1	2	•	•	–	–	•	•	•	788
13.5	2.5	5	***	1	2	–	–	–	–	•	•	•	790
13.5	2.5	5	***	1	2	•	–	–	–	•	•	–	*
13.5	2.5	5	***	1	2	•	–	–	–	•	•	•	*

Subject to change without notice.

MT
series

XLT
series

ROBOTRAX®
System

FLATVEVOR®

CLEANVEVOR®

LS/SX
series

S/SX
series

S/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]

S/SX1800											
		RM	108	140	188 - 938	250 - 1000	1	180	265 - 1300	60	86
		RR	104	140	201 - 751	250 - 800	1	180	265 - 1300	60	83
		LG	110	140	121 - 941	180 - 1000	1	180	265 - 1300	60	88

S/SX2500											
		RM	183	220	175 - 1125	250 - 1200	1	250	365 - 1395	100	146
		LG	180	220	174 - 1124	250 - 1200	1	250	365 - 1395	100	144

S/SX3200											
		LG	220	300	181 - 1416	250 - 1500	1	320	470 - 1785	150	176

S/SX5000											
		***	150	200	133 - 1083	250 - 1200	1	200	500 - 1200	100	-

S/SX6000											
		***	240	300	177 - 1377	300 - 1500	1	320	700 - 1500	150	-

* More information can be found in our technical manual.
** Depending on the specific application, additional gliding elements or rollers are required.
*** Application-specific.

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

17.8	2	3	***	0.8	2	•	•	-	•	•	•	•	796
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17.8	2	3	***	0.8	2	•	•	-	-	•	•	•	798
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17.8	2	3	***	0.8	2	-	-	-	-	•	•	•	800
------	---	---	-----	-----	---	---	---	---	---	---	---	---	-----

23.7	1	3	-	-	-	•	•	•	-	•	•	•	804
------	---	---	---	---	---	---	---	---	---	---	---	---	-----

23.7	1	3	-	-	-	-	-	-	-	•	•	•	808
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24	1	2.5	-	-	-	-	-	-	-	•	•	•	812
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11	2	3	-	-	-	-	•	-	-	•	•	•	816
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16.7	1.5	2	-	-	-	-	•	-	-	•	•	•	817
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MT
series

XLT
series

ROBOTRAX®
System

FLATVEYOR®

CLEANVEYOR®

LS/LSX
series

S/SX
series

S/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]

S/SX7000											
		***	370	450	200 - 1650	350 - 1800	1	450	900 - 2400	600	-

S/SX8000											
		***	578	600	200 - 1650	350 - 1800	1	550	900 - 2400	800	-

S/SX9000			
		***	Custom sizes from a cable carrier width of 350 mm

** Depending on the specific application, additional gliding elements or rollers are required.
*** Application-specific.



S/SX tubes

Also available as covered variants with cover system or steel band cover.
More information can be found in chapter "S/SX tubes" from p. 824.

Unsupported arrangement			Gliding arrangement			Inner Distribution				Movement			Page
Travel length ≤ [m]	v_{max} ≤ [m/s]	a_{max} ≤ [m/s ²]	Travel length ≤ [m]	v_{max} ≤ [m/s]	a_{max} ≤ [m/s ²]	TS0	TS1	TS2	TS3	vertical hanging or standing	lying on the side**	rotating arrangement***	
										vertical hanging or standing	lying on the side**	rotating arrangement***	
24.9	0.5	0.3	-	-	-	-	•	-	-	•	•	•	818
24.9	0.5	0.3	-	-	-	-	•	-	-	•	•	•	819
													822

MT
series

XLT
series

ROBOTRAX®
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series

S/SX
series

S/SX-Tubes
series

Accessories

TRAXLINE®

S/SX0650



Pitch
65 mm



Inner height
26 – 34 mm



Chain widths
70 – 500 mm



Bending radii
75 – 400 mm

Stay variants



Aluminum stay RS 1 page 750

Frame stay narrow "The standard"

- » Aluminum profile bars for light to medium loads.
- » **Outside:** release by turning by 90°.
- » **Inside:** Threaded joints easy to release.



Aluminum stay RS 2 page 752

Frame stay narrow, bolted

- » Aluminum profile bars for light to medium loads. Simple threaded joint.
- » **Outside/inside:** Threaded joints easy to release.



Aluminum stay RR page 754

Frame stay, tube version

- » Steel rolling stays with gentle cable support and steel dividers. Ideal for using media hoses with soft sheathing.
- » **Inside/outside:** Screw connection detachable.



Aluminum stay LG page 756

Frame stay, split

- » Optimum cable routing in the neutral bending line. Split version for easy cable routing. Stays also available unsplit.
- » **Inside/outside:** Threaded joint easy to release.

Additional stay variants on request



Aluminum stay RMA

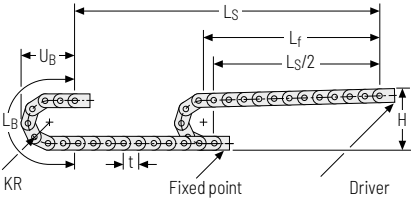
For guiding very large cable diameters



S/SX tubes

Also available as covered variants with cover system or steel band cover. More information can be found in chapter "S/SX tubes" from p. 824.

Unsupported arrangement



KR [mm]	H [mm]	L _B [mm]	U _B [mm]
75	225	496	230
95	265	558	250
115	305	621	270
125	325	653	280
135	345	684	290
145	365	716	300
155	385	747	310
175	425	810	330
200	475	888	355
250	575	1045	405
300	675	1202	455
400	875	1516	555

Installation height H_z

$H_z = H + 10 \text{ mm/m}$

Load diagram for unsupported length depending on the additional load.

Intrinsic cable carrier weight $q_k = 4.5 \text{ kg/m}$. For other inner widths, the maximum additional load changes.



Speed
up to 2.5 m/s



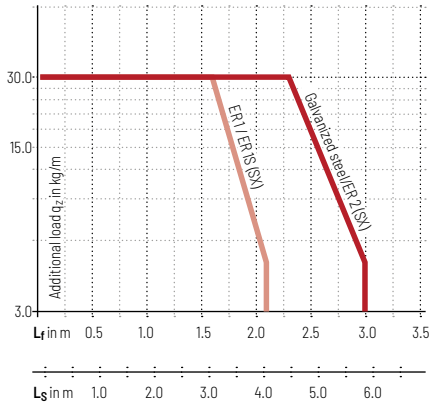
Acceleration
up to 5 m/s²



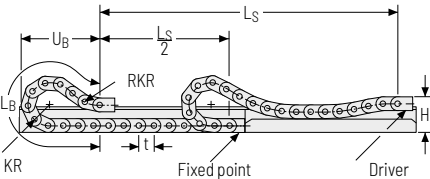
Travel length
up to 5.8 m



Additional load
up to 30 kg/m



Gliding arrangement



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

Glide shoes have to be used for gliding applications.



Speed
up to 1 m/s



Acceleration
up to 2 m/s²



Travel length
on request



Additional load
up to 30 kg/m

Aluminum stay RS1 –
frame stay narrow

- » Extremely quick to open and close
- » Aluminum profile bars for light to medium loads.
- » Available customized in **1 mm width sections**.
- » **Outside:** release by rotating 90°.
- » **Inside:** Threaded joint easy to release.



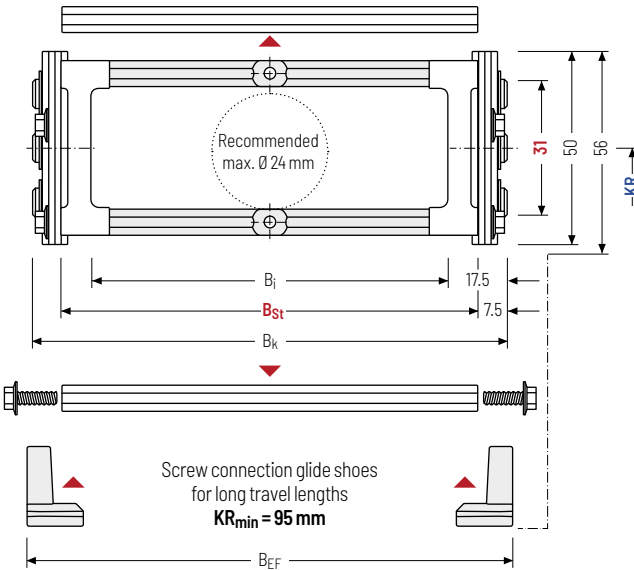
Stay arrangement on every
2nd chain link standard
(HS: half-stayed)



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



1mm B_k from 100 – 300 mm
in **1 mm width sections**



i 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 _{St} [mm]*	B _k [mm]	B _{EF} [mm]	KR [mm]						q _k [kg/m]
31	50	56	65 265	85 285	B _{St} + 15	B _{St} + 20	75 155	95 175	115 200	125 250	135 300	145 400	3.95 4.82

* in 1 mm width sections

Order example

 **SX0650** · **180** · **RS1** · **135** · **St** · **1430** · **HS**
Type B_{St} [mm] Stay variant KR [mm] Material 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).

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

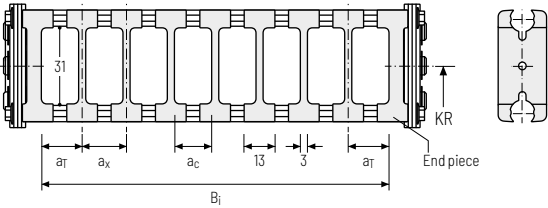
For applications with lateral acceleration and rotated by 90°, the dividers can be attached by simply clipping onto a socket (available as an accessory).

The socket additionally acts as a spacer between the dividers and is available in 1 mm increments between 3 – 50 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	11.5	13	10	–

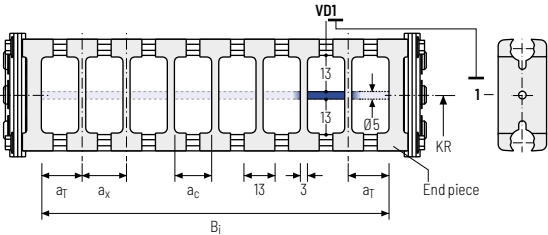
The dividers can be moved in the cross section.



Divider system TS1 with continuous height separation

Vers.	a _T min [mm]	a _x min [mm]	a _c min [mm]	n _T min
A	11.5	13	10	2

The dividers can be moved in the cross section.



Order example



TS1	.	A	.	3	-	VD0	:	VD1
Divider system		Version		n _T		Height separation		

Please state the designation of the divider system (**TS0, TS1...**), version and number of dividers per cross section [*n_T*].

If using divider systems with height separation (**TS1**) please also state the positions [e.g. VD1] viewed from the left driver belt. You are welcome to add a sketch to your order.

The end pieces are part of the divider system and don't have to be ordered separately.

MT series
XLT series
ROBOTRAX® System
FLATVEVOR®
CLEANVEVOR®
LS/LSX series
S/SX series
S/SX-Tubes series
Accessories
TRAXLINE®

Aluminum stay RS 2 – frame stay narrow, threaded joint

- » Quick to open and close
- » Aluminum profile bars for light to medium loads. Simple threaded joint
- » Available customized in **1 mm width sections**.
- » **Outside/inside:** Threaded joint easy to release.



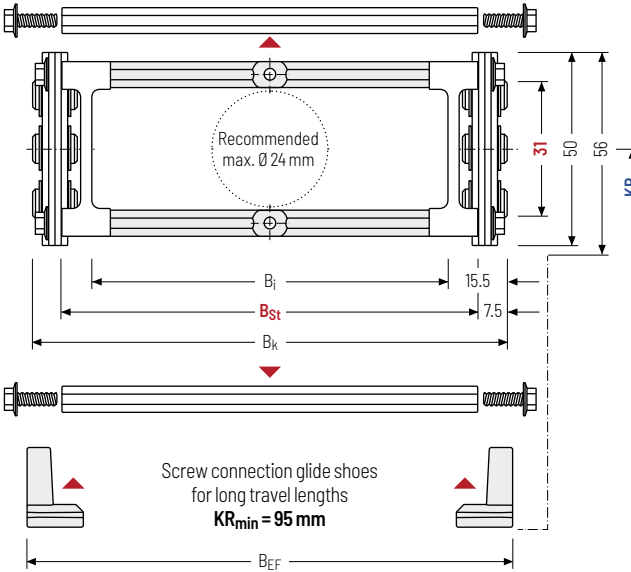
Stay arrangement on every
2nd chain link standard
(HS: half-stayed)



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



1mm B_k from 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]	h _{G'} [mm]	B _i [mm]	B _{St} [mm]*	B _k [mm]	B _{EF} [mm]	KR [mm]						q _k [kg/m]
31	50	56	69	85	B _{St} + 15	B _{St} + 20	75	95	115	125	135	145	3.95
			369	385			155	175	200	250	300	400	5.25

* in 1 mm width sections

Order example

S0650
Type

180
B_{St} [mm]

RS 2
Stay variant

135
KR [mm]

St
Material

1430
L_k [mm]

HS
Stay arrangement

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**).

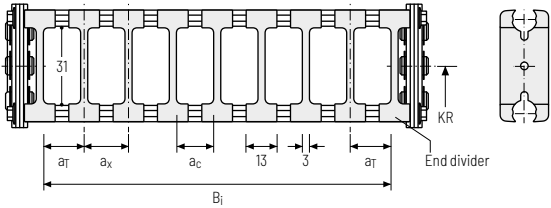
For applications with lateral acceleration and rotated by 90°, the dividers can be attached by simply clipping onto a socket (available as an accessory).

The socket additionally acts as a spacer between the dividers and is available in 1 mm increments between 3 – 50 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	11.5	13	10	–

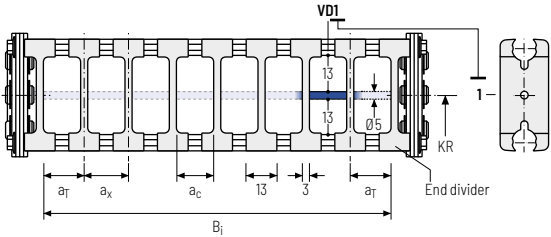
The dividers can be moved in the cross section.



Divider system TS1 with continuous height separation

Vers.	a _T min [mm]	a _x min [mm]	a _c min [mm]	n _T min
A	11.5	13	10	2

The dividers can be moved in the cross section.



Order example



TS1 . A . 3 - VD0

:

- VD1

Divider system Version n_T Height separation

Please state the designation of the divider system (**TS0, TS1...**), version and number of dividers per cross section [n_T].

If using divider systems with height separation (**TS1**) please also state the positions [e.g. VD1] viewed from the left driver belt. You are welcome to add a sketch to your order.

The end dividers are part of the divider system and don't have to be ordered separately.

MT
series

XLT
series

ROBOTRAX®
System

FLATVEVOR®

CLEANVEVOR®

LS/LSX
series

S/SX
series

S/SX-Tubes
series

Accessories

TRAXLINE®

Tube stay RR – frame stay, tube version

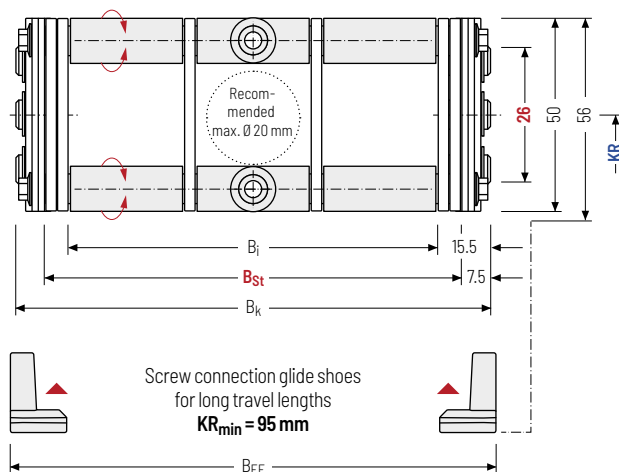
- » Steel rolling stays with gentle cable support and plastic dividers. Ideal for using media hoses with soft sheathing. Easy screw connection.
- » Available customized in **1 mm width sections**.
- » **Inside/outside:** Screw connection detachable
- » **Option:** Divider systems made from steel and stainless steel ER 1, ER 1S.



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

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

 **1mm** B_k from 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]	h_G' [mm]	B_i [mm]	B_{St} [mm]*	B_k [mm]	B_{EF} [mm]	KR [mm]						q_k [kg/m]
26	50	56	69	85	$B_{St} + 15$	$B_{St} + 20$	75	95	115	125	135	145	4.77
			369	385			155	175	200	250	300	400	8.67

* in 1 mm width sections

Order example


S0650 · 180 · RR · 135 · St · 1430 · HS
 Type B_{St} [mm] Stay variant KR [mm] Material L_k [mm] Stay arrangement

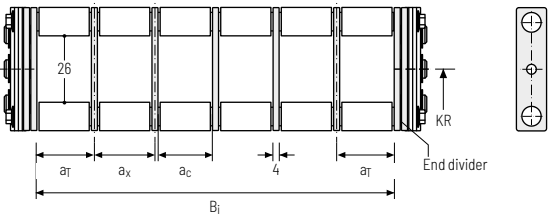
Divider systems

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

The dividers are fixed through the tubes.
The tube additionally serves as a spacer between the dividers (**version B**).

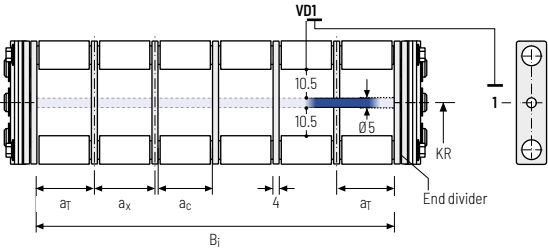
Divider system TSO without height separation

Vers.	a _T min [mm]	a _x min [mm]	a _c min [mm]	n _T min
B	20	25	21	-



Divider system TS1 with continuous height separation

Vers.	a _T min [mm]	a _x min [mm]	a _c min [mm]	n _T min
B	20	25	21	2



Order example



TS1	B	3	K1	34	V00
			⋮	⋮	⋮
			K4	38	V00
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).

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

MT
series

XLT
series

ROBOTRAX®
System

FLATVEVOR®

CLEANVEVOR®

LS/LSX
series

S/SX
series

S/SX-Tubes
series

Accessories

TRAXLINE®

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 grid**.
- » **Inside/outside:** Threaded joint easy to release.

HEAVY DUTY
TSUBAKI KABELSCHLEPP



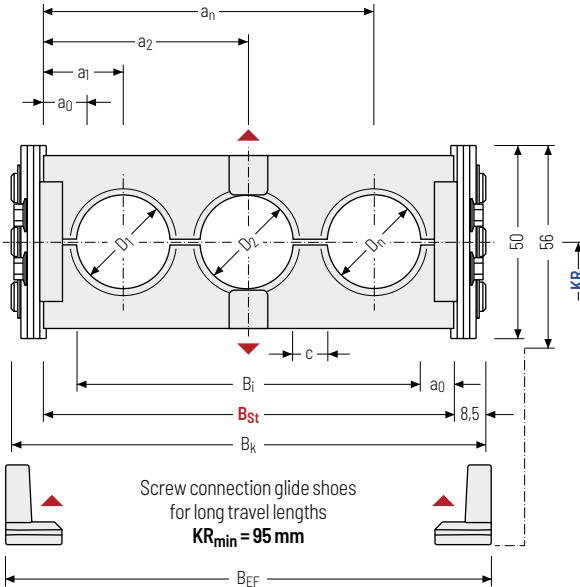
Stay arrangement on every
2nd chain link standard
(HS: half-stayed)



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

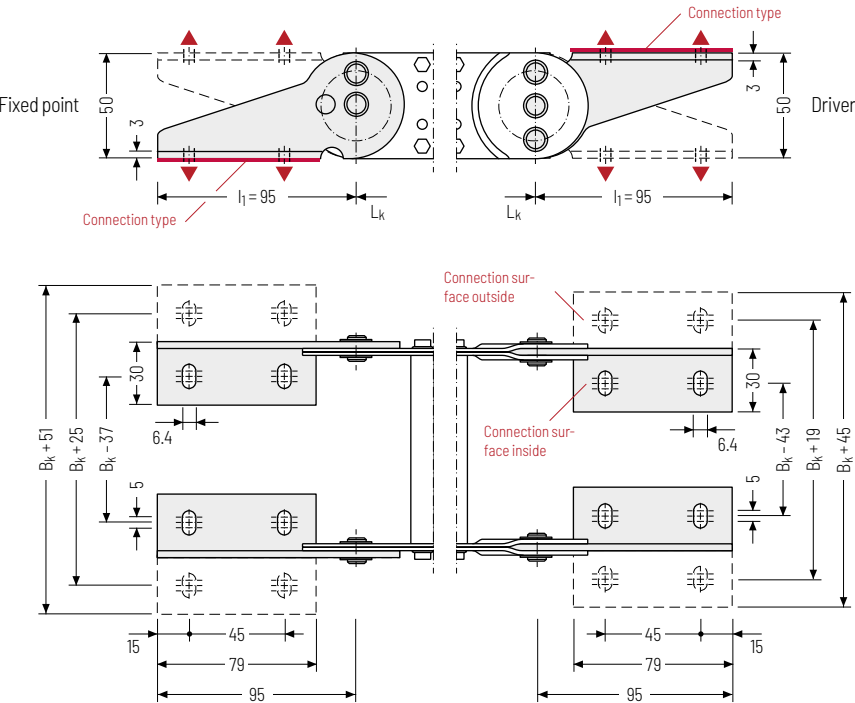


1 mm B_i 70 – 500 mm
in 1 mm width sections

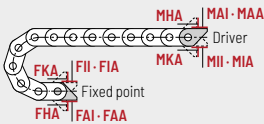


End connectors – steel

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

Connection type
A – threaded joint to outside (standard)
I – threaded joint to inside
H – threaded joint, rotated 90° to the outside
K – threaded joint, rotated 90° to the inside

Connection surface
I – connection surface inside (standard)
A – connection surface outside

Caution: The standard connection variant FAI/MAI is only possible from B_k of 70 mm.

Order example

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

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

MT series

XLT series

ROBOTRAX® System

FLATVEYOR®

CLEANVEYOR®

LS/LSX series

S/SX series

S/SX-Tubes series

Accessories

TRAXLINE®

S/SX0950



Pitch
95 mm



Inner heights
42 – 50 mm



Chain widths
125 – 600 mm



Bending radii
125 – 600 mm

Stay variants



Aluminum stay RS 1 page 760

Frame stay narrow "The standard"

- » Aluminum profile bars for light to medium loads.
- » **Outside:** release by turning by 90°.
- » **Inside:** Threaded joints easy to release.



Aluminum stay RS 2 page 762

Frame stay narrow, bolted

- » Aluminum profile bars for light to medium loads. Simple threaded joint.
- » **Outside/inside:** Threaded joints easy to release.



Aluminum stay RM page 764

Frame stay, solid

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



Tube stay RR page 766

Frame stay, tube version

- » Steel rolling stays with gentle cable support and steel dividers. Ideal for using media hoses with soft sheathing.
- » **Inside/outside:** Screw connection detachable.



Aluminum stay LG page 768

Frame stay, split

- » Optimum cable routing in the neutral bending line. Split version for easy cable routing. Stays also available unsplit.
- » **Inside/outside:** Threaded joint easy to release.

Additional stay variants on request

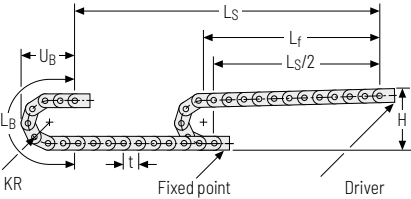
Aluminum stay RMR

Gentle cable guiding with rollers.

S/SX tubes

Also available as covered variants with cover system or steel band cover. More information can be found in chapter "S/SX tubes" from p. 824.

Unsupported arrangement



KR [mm]	H [mm]	LB [mm]	UB [mm]
125	352	773	350
140	382	820	365
170	442	914	395
200	502	1008	425
260	622	1197	485
290	682	1291	515
320	742	1385	545
350	802	1480	575
410	922	1668	635
600	1302	2264	825

Installation height H_z

$H_z = H + 10 \text{ mm/m}$

Load diagram for unsupported length depending on the additional load.

Intrinsic cable carrier weight $q_k = 7.6 \text{ kg/m}$. For other inner widths, the maximum additional load changes.



Speed
up to 2.5 m/s



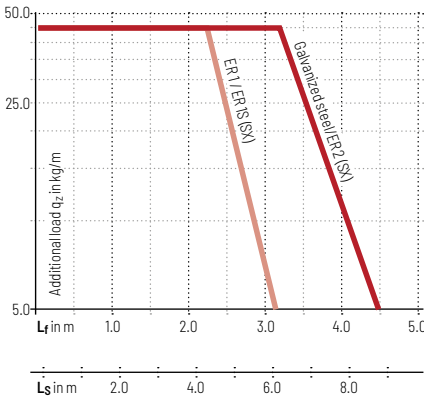
Acceleration
up to 5 m/s²



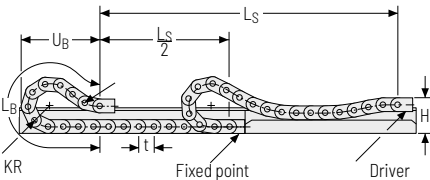
Travel length
up to 8.8 m



Additional load
up to 45 kg/m



Gliding arrangement



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

Glide shoes have to be used for gliding applications.



Speed
up to 1 m/s



Acceleration
up to 2 m/s²



Travel length
on request



Additional load
up to 45 kg/m

Aluminum stay RS 1 – frame stay narrow

- » Extremely quick to open and close
- » Aluminum profile bars for light to medium loads.
- » Available customized in **1 mm width sections**.
- » **Outside:** release by rotating 90°.
- » **Inside:** Threaded joint easy to release



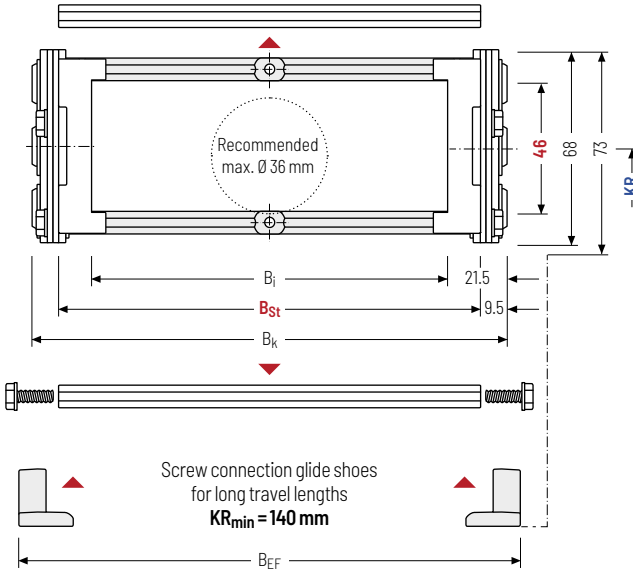
Stay arrangement on every
2nd chain link, standard
(HS: half-stayed)



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



1 mm B_k from 150 – 300 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 _{St} [mm]*	B _k [mm]	B _{EF} [mm]	KR [mm]					q _k [kg/m]
46	68	73	107	131	B _{St} + 19	B _{St} + 28	125	140	170	200	260	7.55
			257	281			290	320	350	400	600	7.95

* in 1 mm width sections

Order example



S0950 Type · **150** B_{St} [mm] · **RS 1** Stay variant · **200** KR [mm] · **St** Material · **2375** L_k [mm] · **HS** Stay arrangement

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**).

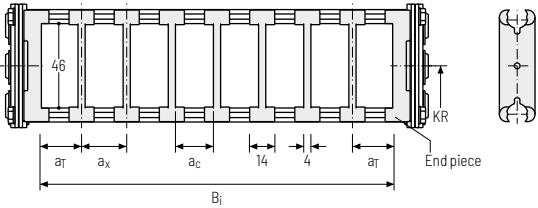
For applications with lateral acceleration and rotated by 90°, the dividers can be attached by simply clipping onto a socket (available as an accessory).

This socket additionally acts as a spacer between the dividers and is available in a 1 mm grid between 3 – 50 mm, as well as 16.5 and 21.5 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	12	14	10	–

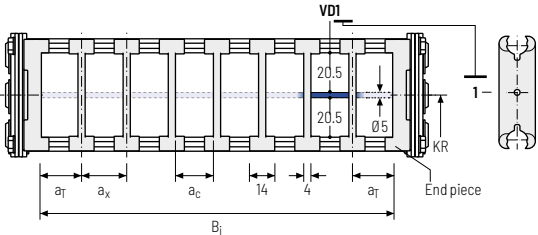
The dividers can be moved in the cross section.



Divider system TS1 with continuous height separation

Vers.	a _T min [mm]	a _x min [mm]	a _c min [mm]	n _T min
A	12	14	10	2

The dividers can be moved in the cross section.



Order example



TS1 . A . 3 - VD0
:
- VD1

Divider system Version n_T Height separation

Please state the designation of the divider system (**TS0, TS1...**), version and number of dividers per cross section [n_T].

If using divider systems with height separation (**TS1**) please also state the positions [e.g. VD1] viewed from the left driver belt. You are welcome to add a sketch to your order.

The end pieces are part of the divider system and don't have to be ordered separately.

MT
series

XLT
series

ROBOTRAX®
System

FLATVEVOR®

CLEANVEVOR®

LS/LSX
series

S/SX
series

S/SX-Tubes
series

Accessories

TRAXLINE®

Aluminum stay RS 2 -
frame stay narrow, threaded joint

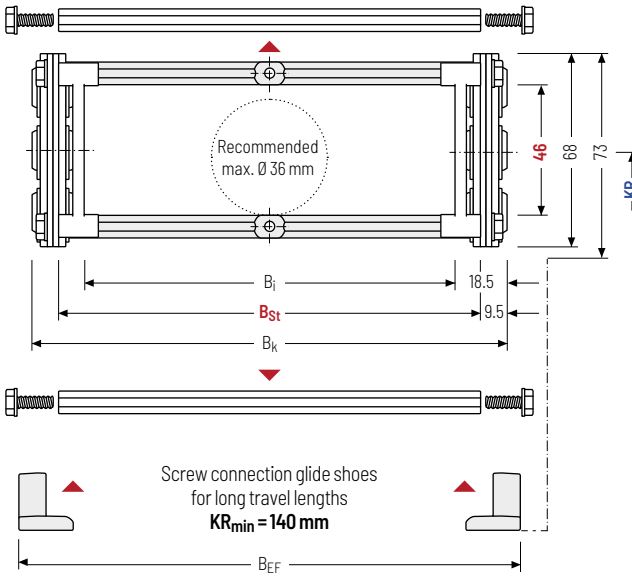
- » Quick to open and close
- » Aluminum profile bars for light to medium loads.
Simple threaded joint
- » Available customized in **1 mm width sections**.
- » **Outside/inside:** Threaded joint easy to release.



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

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

 **1 mm** B_k from 150 – 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 _{St} [mm]*	B _k [mm]	B _{EF} [mm]	KR [mm]					q _k [kg/m]
46	68	73	113	131	B _{St} + 19	B _{St} + 28	125	140	170	200	260	7.55
			363	381			290	320	350	400	600	8.21

* in 1 mm width sections

Order example

 **S0950** · **150** · **RS 2** · **200** · **St** · **2375** · **HS**
Type B_{St} [mm] Stay variant KR [mm] Material 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).

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

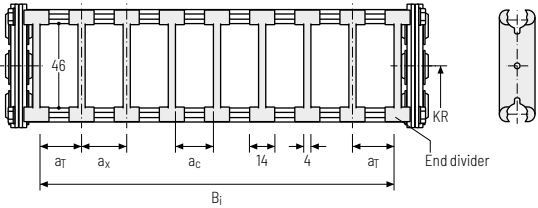
For applications with lateral acceleration and rotated by 90°, the dividers can be attached by simply clipping onto a socket (available as an accessory).

This socket additionally acts as a spacer between the dividers and is available in a 1 mm grid between 3 – 50 mm, as well as 16.5 and 21.5 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	12	14	10	–

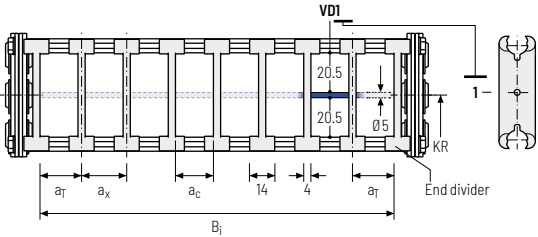
The dividers can be moved in the cross section.



Divider system TS1 with continuous height separation

Vers.	a _T min [mm]	a _x min [mm]	a _c min [mm]	n _T min
A	12	14	10	2

The dividers can be moved in the cross section.



Order example



TS1	.	A	.	3	-	VD0
⋮						
	-					VD1
Divider system		Version		n _T		Height separation

Please state the designation of the divider system (**TS0, TS1...**), version and number of dividers per cross section [n_T].

If using divider systems with height separation (**TS1**) please also state the positions [e.g. VD1] viewed from the left driver belt. You are welcome to add a sketch to your order.

The end dividers are part of the divider system and don't have to be ordered separately.

MT
series

XLT
series

ROBOTRAX®
System

FLATVEVOR®

CLEANVEVOR®

LS/LSX
series

S/SX
series

S/SX-Tubes
series

Accessories

TRAXLINE®

Aluminum stay RM –
frame stay, solid

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

HEAVY DUTY
TSUBAKI KABELSCHLEPP



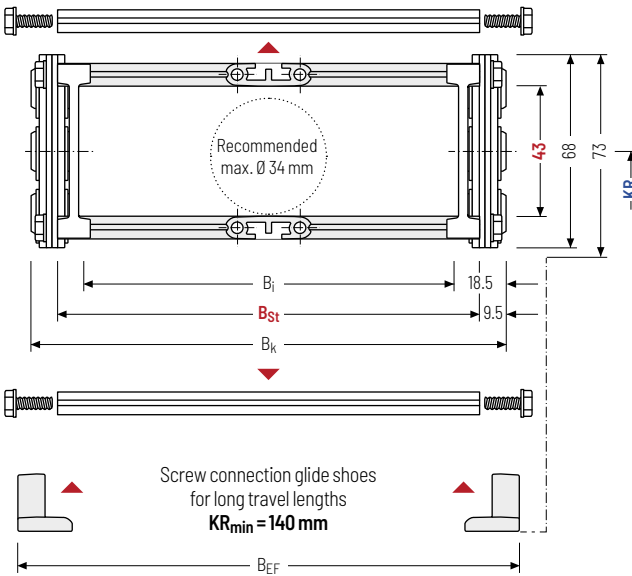
Stay arrangement on every
2nd chain link, standard
(HS: half-stayed)



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



1 mm B_k from 125 – 600 mm
in 1 mm width sections



i 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 _{St} [mm]*	B _k [mm]	B _{EF} [mm]	KR [mm]					q _k [kg/m]
43	68	73	88	106	B _{St} + 19	B _{St} + 28	125	140	170	200	260	7.78
			563	581			290	320	350	400	600	10.68

* in 1 mm width sections

Order example

 **S0950** Type · **150** B_{St} [mm] · **RM** Stay variant · **200** KR [mm] · **St** Material · **2375** L_k [mm] · **HS** Stay arrangement

Divider systems

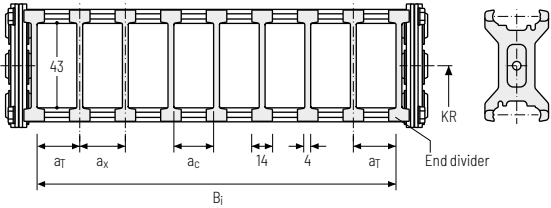
The divider system is mounted on each crossbar as a standard – on every 2nd chain link for stay mounting (HS).

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

Divider system TSO without height separation

Vers.	a _T min [mm]	a _x min [mm]	a _c min [mm]	n _T min
A	10	14	10	–

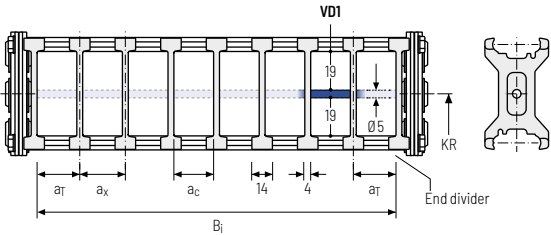
The dividers can be moved in the cross section.



Divider system TS1 with continuous height separation

Vers.	a _T min [mm]	a _x min [mm]	a _c min [mm]	n _T min
A	10	14	10	2

The dividers can be moved in the cross section.



Order example



TS1	.	A	.	3	-	VD0
						:
					-	VD1
Divider system		Version		n _T		Height separation

Please state the designation of the divider system (**TS0, TS1...**), version and number of dividers per cross section [n_T].

If using divider systems with height separation (**TS1**) please also state the positions [e.g. VD1] viewed from the left driver belt. You are welcome to add a sketch to your order.

The end dividers are part of the divider system and don't have to be ordered separately.

MT
series

XLT
series

ROBOTRAX®
System

FLATVEYOR®

CLEANVEYOR®

LS/LSX
series

S/SX
series

S/SX-Tubes
series

Accessories

TRAXLINE®

Tube stay RR – frame stay, tube version

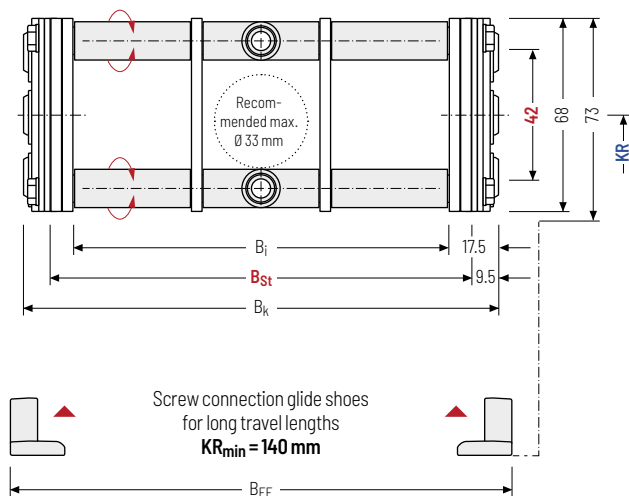
- » Steel rolling stays with gentle cable support and plastic dividers. Ideal for using media hoses with soft sheathing. Easy screw connection.
- » Available customized in **1 mm width sections**.
- » **Inside/outside:** Screw connection detachable
- » **Option:** Divider systems made from steel and stainless steel ER 1, ER 1S.



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

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

 **1 mm** B_i 150 – 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]	h _{G'} [mm]	B _i [mm]	B _{St} [mm]*	B _k [mm]	B _{EF} [mm]	KR [mm]					q _k [kg/m]
42	68	73	115 465	131 481	B _{St} + 19	B _{St} + 28	125	140	170	200	260	8.42
							290	320	350	410	600	11.75

* in 1 mm width sections

Order example

	S0950	150	RR	200	St	2375	HS
Type	B _{St} [mm]	Stay variant	KR [mm]	Material	L _k [mm]	Stay arrangement	

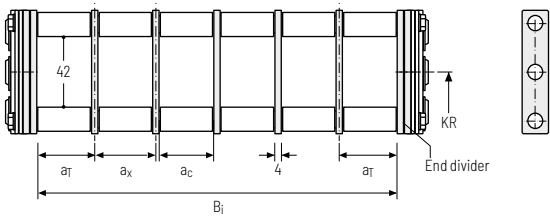
Divider systems

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

The dividers are fixed through the tubes.
The tube additionally serves as a spacer between the dividers (**version B**).

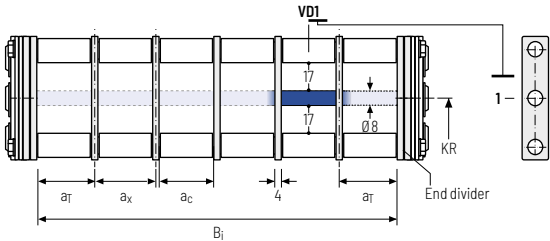
Divider system TSO without height separation

Vers.	a _T min [mm]	a _x min [mm]	a _c min [mm]	n _T min
B	20	20	16	-



Divider system TS1 with continuous height separation

Vers.	a _T min [mm]	a _x min [mm]	a _c min [mm]	n _T min
B	20	20	16	2



Order example



TS1	B	3	K1	34	V00
			⋮	⋮	⋮
			K4	38	V00
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).

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

MT
series

XLT
series

ROBOTRAX®
System

FLATVEVOR®

CLEANVEVOR®

LS/LSX
series

S/SX
series

S/SX-Tubes
series

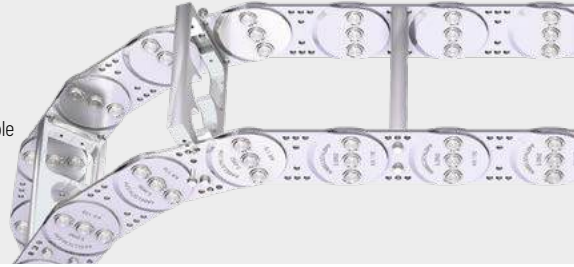
Accessories

TRAXLINE®

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 grid**.
- » **Inside/outside:** Threaded joint easy to release.

HEAVY DUTY
TSUBAKI KABELSCHLEPP



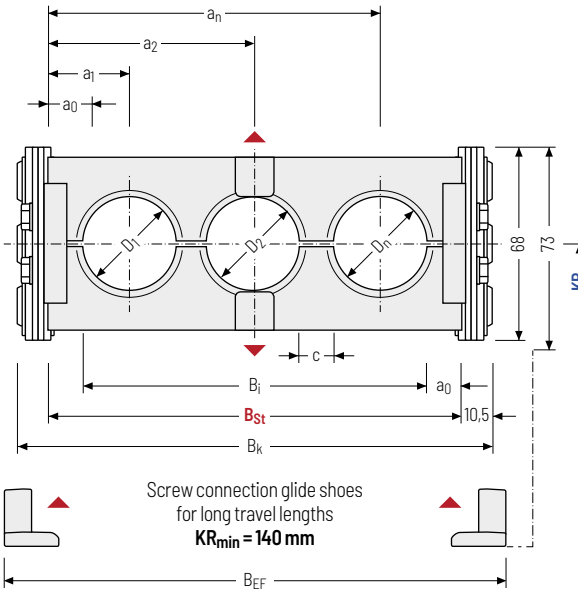
Stay arrangement on every
2nd chain link standard
(HS: half-stayed)



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



1 mm B_i 125 – 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

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]	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	12	68	73	82 - 557	104 - 579	B _{St} + 21	B _{St} + 30	4	11	125 260 410	140 290 600	170 320	200 350	7.97 - 11.82

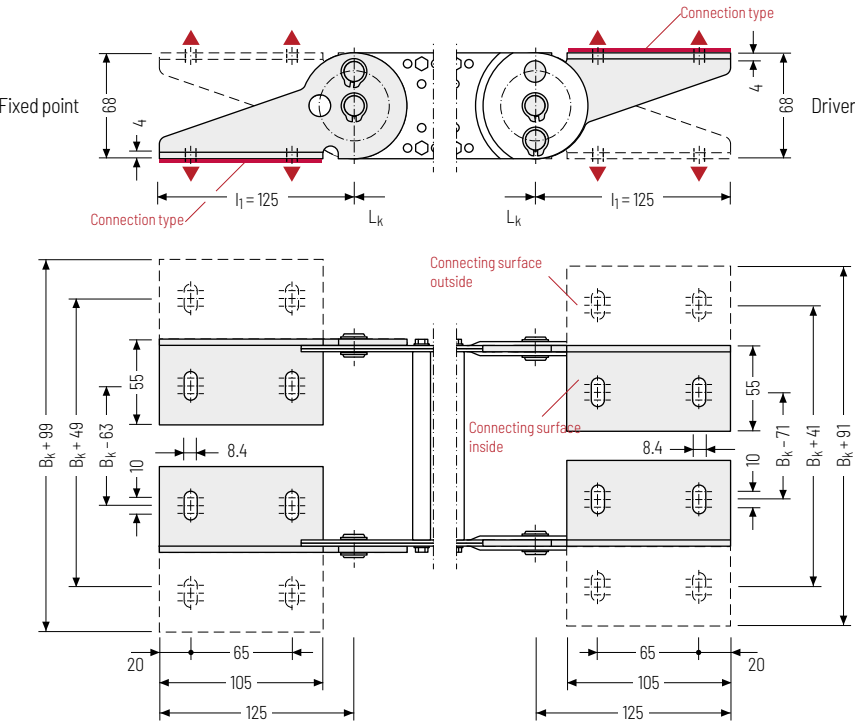
* in 1 mm width sections ** Hole ratio of the hole stay approx. 50 %

Order example

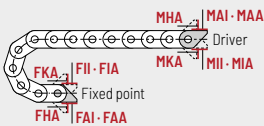
S0950 Type **150** B_{St} [mm] **LG** Stay variant **200** KR [mm] **St** Material **2375** L_k [mm] **HS** Stay arrangement

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

Connection type

- A – threaded joint to outside (standard)
- I – threaded joint to inside
- H – threaded joint, rotated 90° to the outside
- K – threaded joint, rotated 90° to the inside

Connection surface

- I – connection surface inside (standard)
- A – connection surface outside

Caution: The standard connection variant FAI/MAI is only possible from B_k of 122 mm.

Order example

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

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

MT series

XLT series

ROBOTRAX® System

FLATVEYOR®

CLEANVEYOR®

LS/LSX series

S/SX series

S/SX-Tubes series

Accessories

TRAXLINE®

S/SX1250



Stay variants



Aluminum stay RS 1 page 774

Frame stay narrow "The standard"

- » Aluminum profile bars for light to medium loads.
- » **Outside:** release by turning by 90°.
- » **Inside:** Threaded joints easy to release.



Aluminum stay RS 2 page 778

Frame stay narrow, bolted

- » Aluminum profile bars for light to medium loads. Simple threaded joint.
- » **Outside/inside:** Threaded joints easy to release.



Aluminum stay RV page 782

Frame stay, reinforced

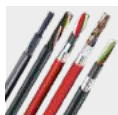
- » Aluminum profile bars for medium to heavy loads and large cable carrier widths. Double threaded joint on both sides.
- » **Inside/outside:** Threaded joints easy to release.



Aluminum stay RM page 786

Frame stay, solid

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



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.



Aluminum stay RR page 788

Frame stay, tube version

- » Steel rolling stays with gentle cable support and steel dividers. Ideal for using media hoses with soft sheathing.
- » **Inside/outside:** Screw connection detachable.



Aluminum stay LG page 790

Frame stay, split

- » Optimum cable routing in the neutral bending line. Split version for easy cable routing. Stays also available unsplit.
- » **Inside/outside:** Threaded joint easy to release.

S/SX tubes

Also available as covered variants with cover system or steel band cover. More information can be found in chapter "S/SX tubes" from p. 824.



Additional stay variants on request



Aluminum stay RMA

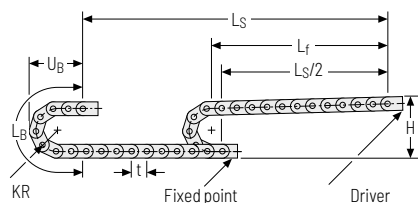
For guiding very large cable diameters



Aluminum stay RMR

Gentle cable guiding with rollers.

Unsupported arrangement



Installation height H_z

$$H_z = H + 10 \text{ mm/m}$$

Load diagram for unsupported length depending on the additional load.

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



Speed
up to 2.5 m/s



Acceleration
up to 5 m/s²

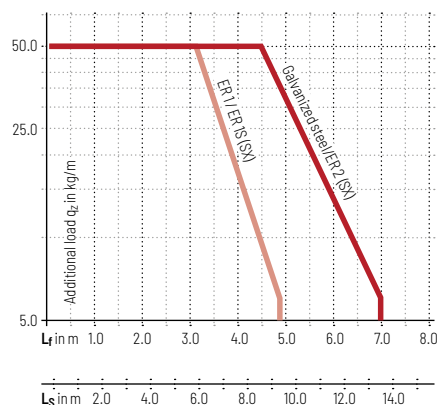


Travel length
up to 13.5 m

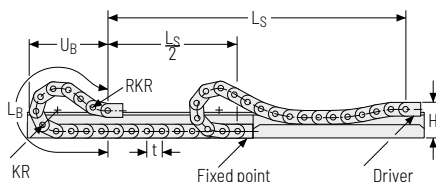


Additional load
up to 50 kg/m

KR [mm]	H [mm]	L _B [mm]	U _B [mm]
145	431	955	442
200	541	1128	497
220	581	1191	517
260	661	1317	557
300	741	1442	597
340	821	1568	637
380	901	1694	677
420	981	1820	717
460	1061	1945	757
500	1141	2071	797
540	1221	2196	837
600	1341	2385	897
1000	2141	3640	1297



Gliding arrangement



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

Gliding shoes have to be used for gliding applications.



Speed
up to 1 m/s



Acceleration
up to 2 m/s²



Travel length
on request



Additional load
up to 50 kg/m

MT
seriesXLT
seriesROBOTRAX®
System

FLATVEYOR®

CLEANVEYOR®

LS/LSX
seriesSYSX
seriesSYSX-Tubes
series

Accessories

TRAXLINE®

Aluminum stay RS 1 – frame stay narrow

- » Extremely quick to open and close
- » Aluminum profile bars for light to medium loads.
- » Available customized in **1 mm width sections**.
- » **Outside:** release by rotating 90°.
- » **Inside:** Threaded joint easy to release.



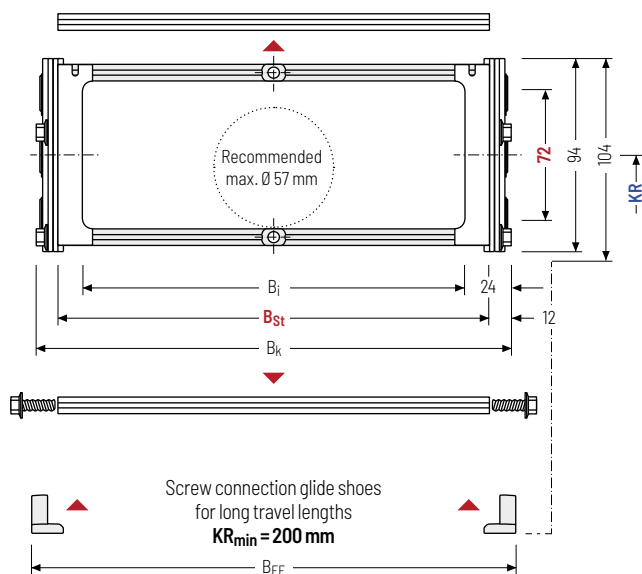
Stay arrangement on every
2nd chain link, standard
(HS: half-stayed)



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



1 mm B_k from 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

h _i [mm]	h _G [mm]	h _{G'} [mm]	B _i [mm]	B _{St} [mm]*	B _k [mm]	B _{EF} [mm]	KR [mm]						q _k [kg/m]	
72	94	104	152 352	176 376	B _{St} + 24	B _{St} + 30	145	200	220	260	300	340	380	12.88
							420	460	500	540	600	1000		13.43

* in 1 mm width sections

Order example



S1250

Type

400

B_{St} [mm]

RS 1

Stay variant

200

KR [mm]

St

Material

4750

L_k [mm]

HS

Stay arrangement

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**).

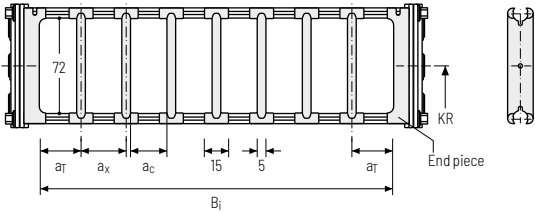
For applications with lateral acceleration and rotated by 90°, the dividers can be attached by simply clipping onto a socket (available as an accessory).

The socket additionally acts as a spacer between the dividers and is available in 1 mm increments between 3 – 50 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	12.5	15	10	–

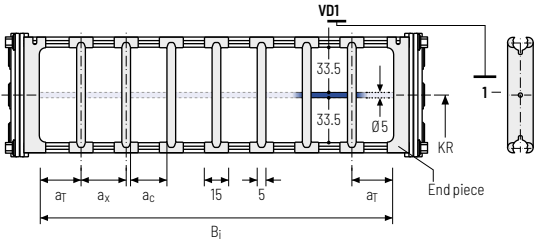
The dividers can be moved in the cross section.



Divider system TS1 with continuous height separation

Vers.	a _T min [mm]	a _x min [mm]	a _c min [mm]	n _T min
A	12.5	15	10	2

The dividers can be moved in the cross section.



Order example



TS1	.	A	.	3	-	VD0
⋮						
	-					VD1
Divider system		Version		n _T		Height separation

Please state the designation of the divider system (**TS0, TS1...**), version and number of dividers per cross section [n_T].

If using divider systems with height separation (**TS1**) please also state the positions [e.g. VD1] viewed from the left driver belt. You are welcome to add a sketch to your order.

The end pieces are part of the divider system and don't have to be ordered separately.

MT
series

XLT
series

ROBOTRAX®
System

FLATVEVOR®

CLEANVEVOR®

LS/LSX
series

S/SX
series

S/SX-Tubes
series

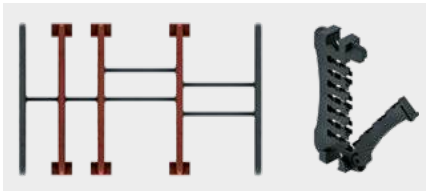
Accessories

TRAXLINE®

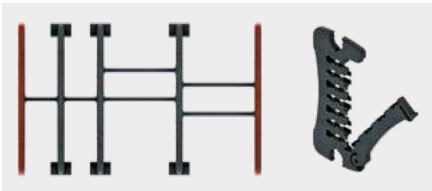
Divider system TS3 with height separation consisting of plastic partitions

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



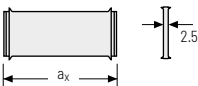
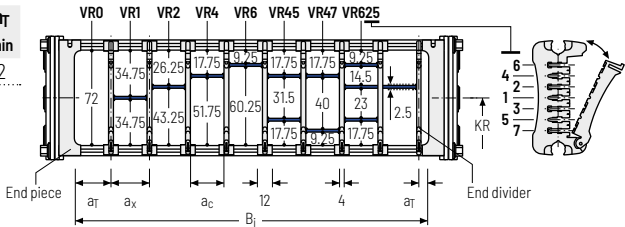
End divider



Vers.	a _T min [mm]	a _x min [mm]	a _c min [mm]	n _T min
A	7*/11	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	58	59	64	68	69	74	78	79	80	84	88	89	94	96	99
112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112

When using partitions with a_x > 49 mm we recommend an additional preferential central support.

Order example



TS3

A

3

K1

34

VR1

⋮

⋮

⋮

K4

38

VR3

Divider systemVersionn_TChambera_xHeight 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.



Subject to change without notice.

TRAXLINE®

Accessories

S/SX-Tubes
series

**S/SX
series**

LS/LSX
series

CLEANVEYOR®

FLATVEYOR®

ROBOTRAX®
System

XLT
series

MT
series

Aluminum stay RS 2 – frame stay narrow, threaded joint

- » Quick to open and close
- » Aluminum profile bars for light to medium loads.
Simple threaded joint
- » Available customized in **1 mm width sections**.
- » **Outside/inside:** Threaded joint easy to release.



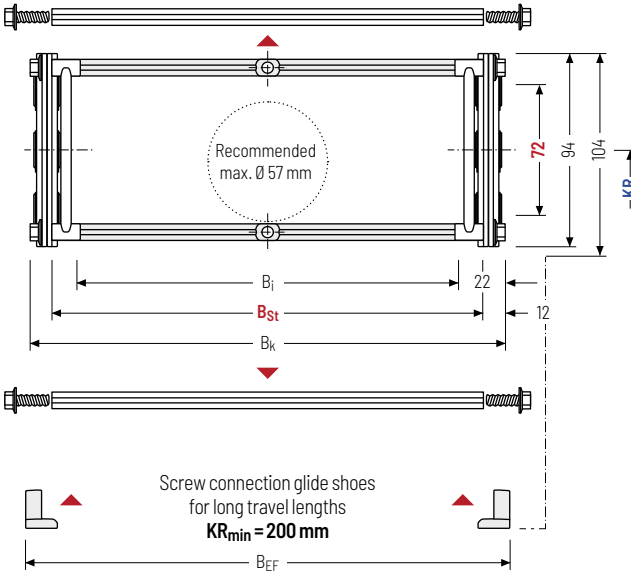
Stay arrangement on every
2nd chain link, standard
(HS: half-stayed)



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



1 mm B_k from 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

h _i [mm]	h _G [mm]	h _{G'} [mm]	B _i [mm]	B _{St} [mm]*	B _k [mm]	B _{EF} [mm]	KR [mm]						q _k [kg/m]	
72	94	104	156 456	176 476	B _{St} + 24	B _{St} + 30	145	200	220	260	300	340	380	12.88
							420	460	500	540	600	1000		13.71

* in 1 mm width sections

Order example

S1250
Type

400
B_{St} [mm]

RS 2
Stay variant

200
KR [mm]

St
Material

4750
L_k [mm]

HS
Stay arrangement

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**).

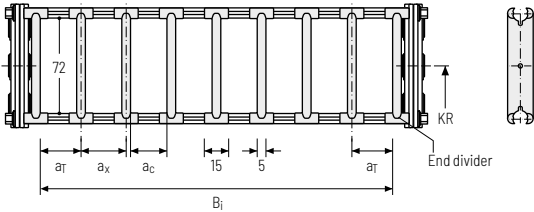
For applications with lateral acceleration and rotated by 90°, the dividers can be attached by simply clipping onto a socket (available as an accessory).

The socket additionally acts as a spacer between the dividers and is available in 1 mm increments between 3 – 50 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	12.5	15	10	–

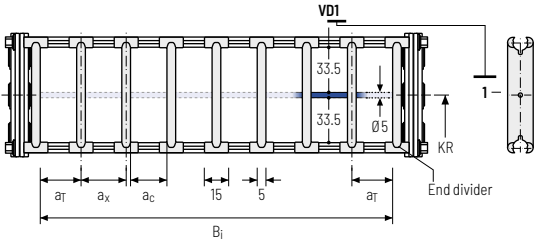
The dividers can be moved in the cross section.



Divider system TS1 with continuous height separation

Vers.	a _T min [mm]	a _x min [mm]	a _c min [mm]	n _T min
A	12.5	15	10	2

The dividers can be moved in the cross section.



Order example



TS1 . A . 3 - VD0

⋮

- VD1

Divider system Version n_T Height separation

Please state the designation of the divider system (**TS0, TS1...**), version and number of dividers per cross section [n_T].

If using divider systems with height separation (**TS1**) please also state the positions [e.g. VD1] viewed from the left driver belt. You are welcome to add a sketch to your order.

The end dividers are part of the divider system and don't have to be ordered separately.

MT
series

XLT
series

ROBOTRAX®
System

FLATVEYOR®

CLEANVEYOR®

LS/LSX
series

S/SX
series

S/SX-Tubes
series

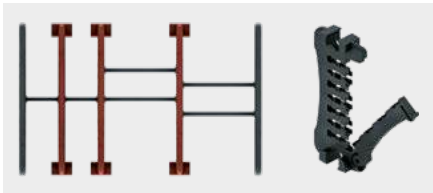
Accessories

TRAXLINE®

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.

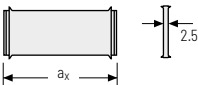
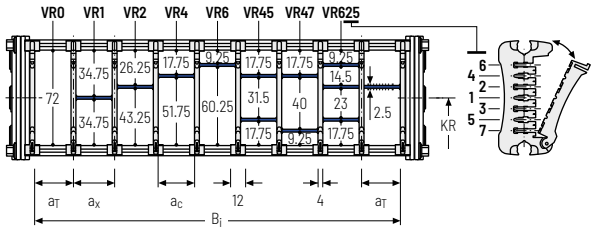
Divider version A



Vers.	a _T min [mm]	a _x min [mm]	a _c min [mm]	n _T min
A	10*/12	14	10	2

* For VR0

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	55	60	64	65	70	74	75	76	80	84	85	90	92	95	108

When using partitions with a_x > 49 mm we recommend an additional preferential central support.

Order example



TS3

A

3

K1

34

VR1

⋮

⋮

⋮

Divider system

Version

n_T

Chamber

a_x

Height separation

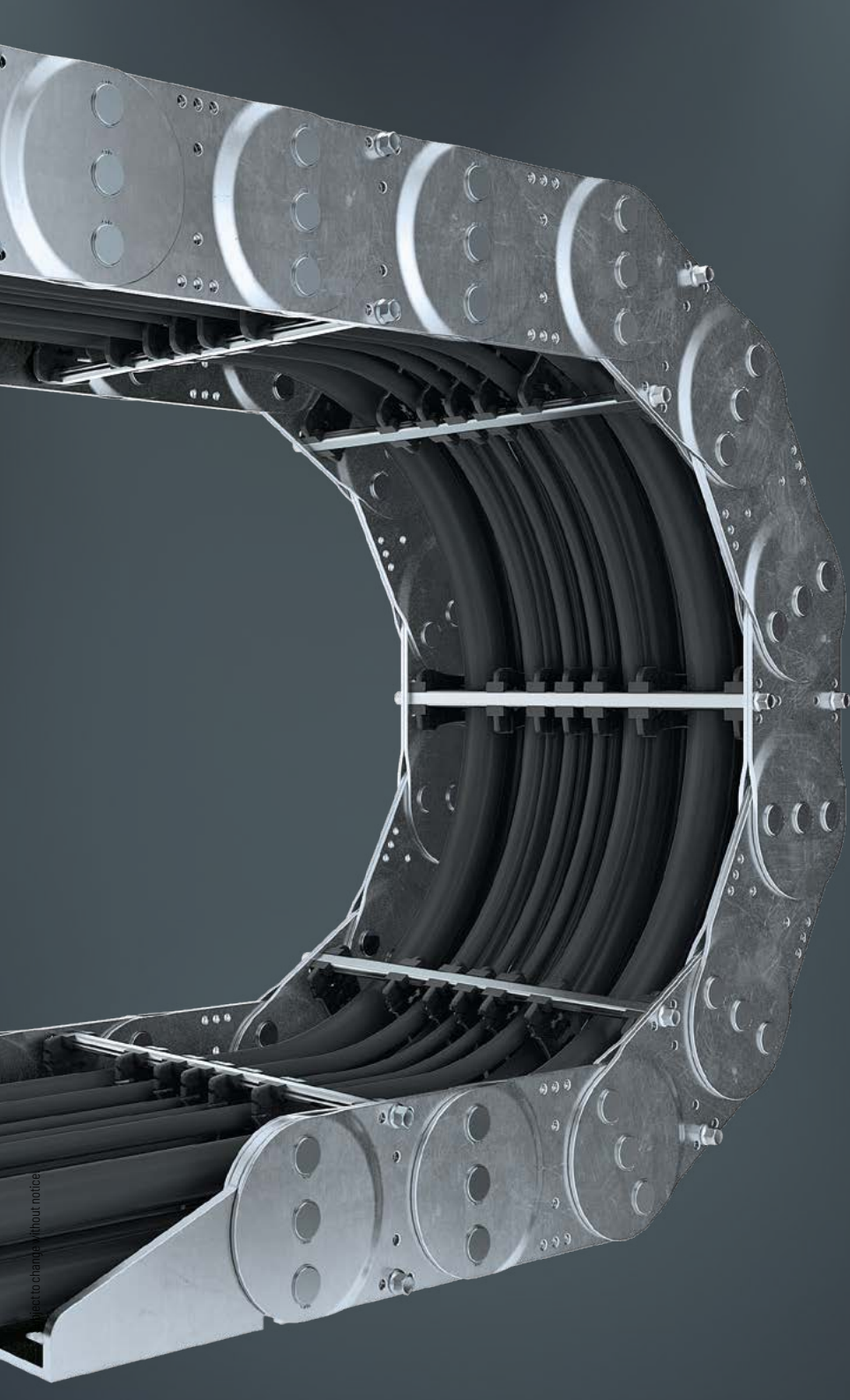
K4

38

VR3

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.



Subject to change without notice

TRAXLINE®

Accessories

S/SX-Tubes
series

S/SX
series

LS/LSX
series

CLEANVEYOR®

FLATVEYOR®

ROBOTRAX®
System

XLT
series

MT
series

Aluminum stay RV – reinforced frame stay

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



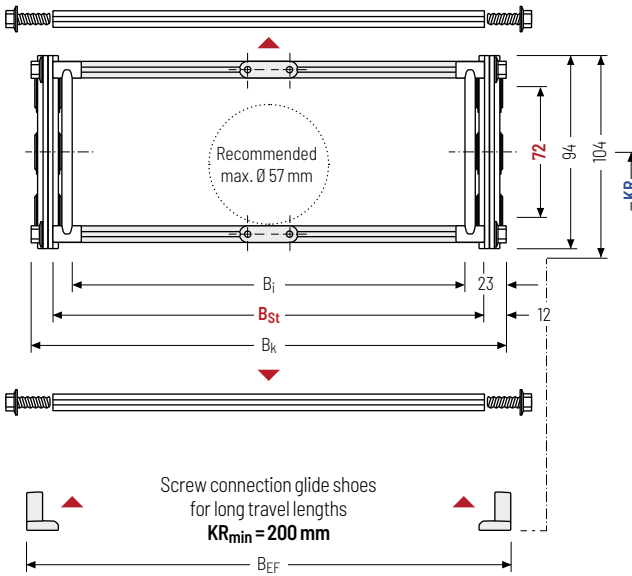
Stay arrangement on every 2nd chain link, standard (HS: half-stayed)



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



1 mm B_k from 200 – 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]	h _g ' [mm]	B _i [mm]	B _{St} [mm]*	B _k [mm]	B _{EF} [mm]	KR [mm]							q _k [kg/m]
72	94	104	154	176	B _{St} + 24	B _{St} + 30	145	200	220	260	300	340	380	13.83
			554	576			420	460	500	540	600	1000		17.11

* in 1 mm width sections

Order example

S1250
Type

400
B_{St} [mm]

RV
Stay variant

200
KR [mm]

St
Material

4750
L_k [mm]

HS
Stay arrangement

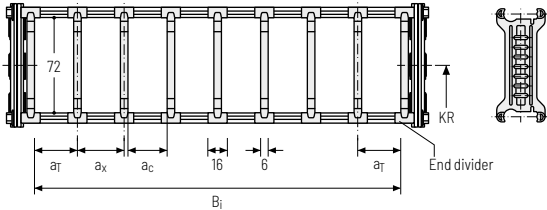
Divider systems

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	13	16	10	–

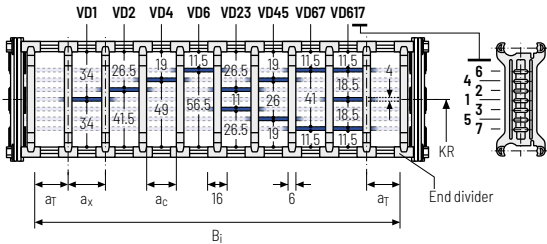
The dividers can be moved in the cross section.



Divider system TS1 with continuous height separation

Vers.	a _T min [mm]	a _x min [mm]	a _c min [mm]	n _T min
A	13	16	10	2

The dividers can be moved in the cross section.

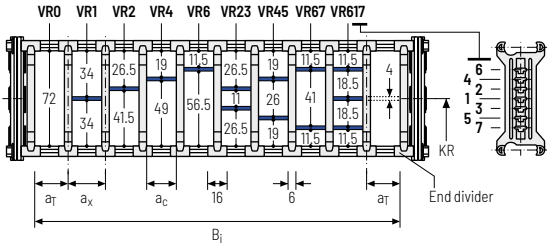


Divider system TS2 with partial height separation

Vers.	a _T min [mm]	a _x min [mm]	a _c min [mm]	n _T min
A	13	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 = 6 mm).



More product information online



Assembly instructions etc.:
Additional info via your
smartphone or check online at
[tsubaki-kabelschlepp.com/
downloads](http://tsubaki-kabelschlepp.com/downloads)



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

MT
series

XLT
series

ROBOTRAX®
System

FLATVEOR®

CLEANVEOR®

LS/LSX
series

S/SX
series

S/SX-Tubes
series

Accessories

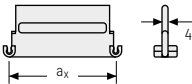
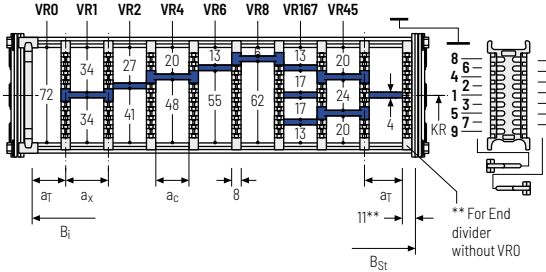
TRAXLINE®

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 width increments with
 $a_x > 42$ mm are also avail-
able.

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 sup-
port 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

:

:

:

Divider system

Version

n_T

Chamber

a_x

Height separation

K4

38

VR3

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].

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

The end dividers are part of the divider system and don't have to be ordered separately.

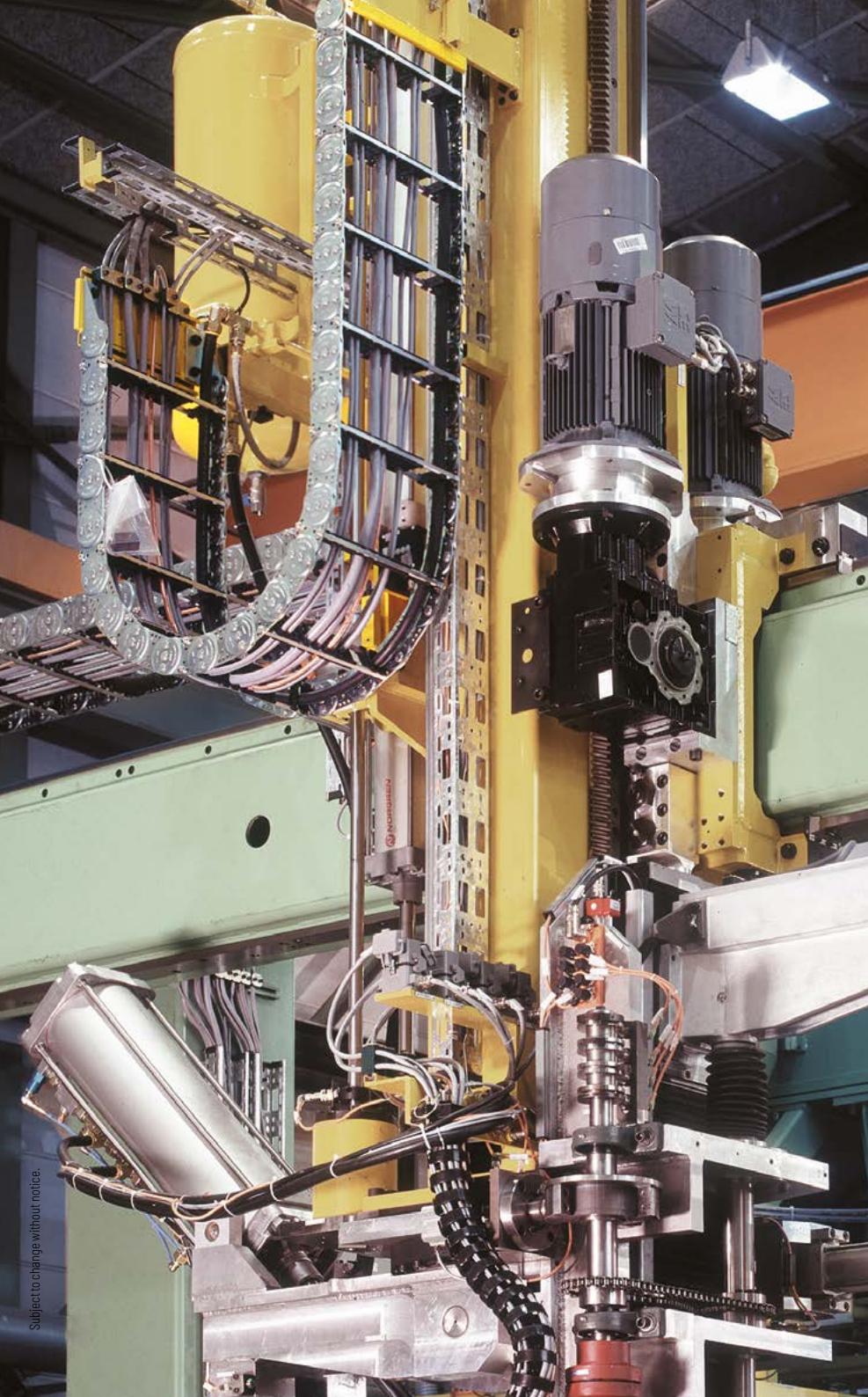
More product information online



Assembly instructions etc.:
Additional info via your
smartphone or check online at
[tsubaki-kabelschlepp.com/
downloads](https://www.tsubaki-kabelschlepp.com/downloads)



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



Subject to change without notice.

TRAXLINE®

Accessories

S/SX-Tubes
series

S/SX
series

LS/LSX
series

CLEANVEYOR®

FLATVEYOR®

ROBOTRAX®
System

XLT
series

MT
series

Aluminum stay RM -

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

HEAVY DUTY
TSUBAKI KABELSCHLEPP



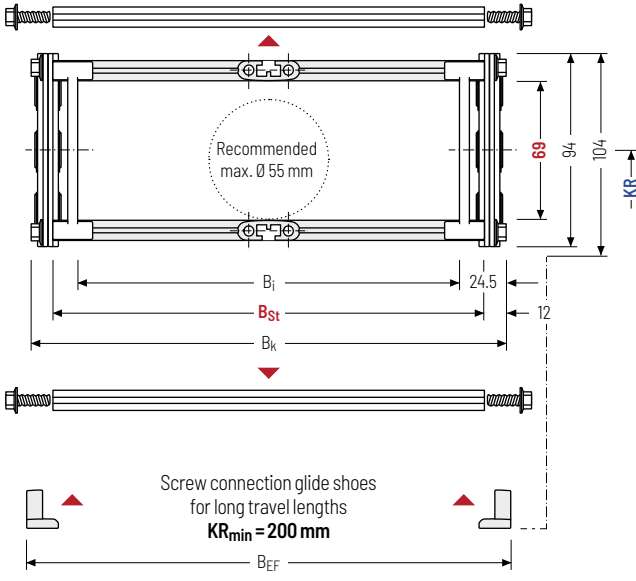
Stay arrangement on every 2nd chain link, standard (HS: half-stayed)



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



B_k from 200 - 800 mm in 1 mm width sections



i 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 _{St} [mm]*	B _k [mm]	B _{EF} [mm]	KR [mm]							q _k [kg/m]
69	94	104	151 751	176 776	B _{St} + 24	B _{St} + 30	145	200	220	260	300	340	380	13.42
							420	460	500	540	600	1000		17.01

* in 1 mm width sections

Order example

S1250 Type · **400** B_{St} [mm] · **RM** Stay variant · **200** KR [mm] · **St** Material · **4750** L_k [mm] · **HS** Stay arrangement

Divider systems

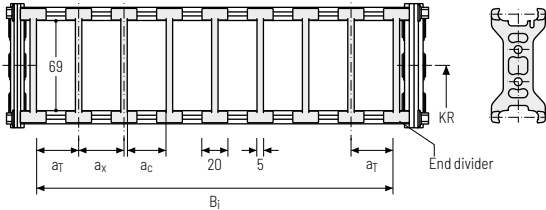
The divider system is mounted on each crossbar as a standard – on every 2nd chain link for stay mounting (HS).

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	17.5	20	15	-

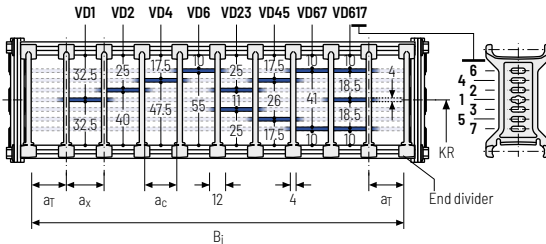
The dividers can be moved in the cross section.



Divider system TS1 with continuous height separation

Vers.	a _T min [mm]	a _x min [mm]	a _c min [mm]	n _T min
A	10	12	8	2

The dividers can be moved in the cross section.

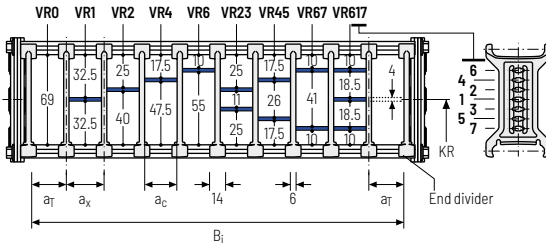


Divider system TS2 with partial height separation

Vers.	a _T min [mm]	a _x min [mm]	a _c min [mm]	n _T min
A	17	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).



Order example



TS2

A

3

K1

34

VR1

⋮

⋮

⋮

K4

38

VR3

Divider system

Version

n_T

Chamber

a_x

Height separation

MT
series

XLT
series

ROBOTRAX®
System

FLATVEVOR®

CLEANVEVOR®

LS/LSX
series

S/SX
series

S/SX-Tubes
series

Accessories

TRAXLINE®

Tube stay RR – frame stay, tube version

- » Steel rolling stays with gentle cable support and plastic dividers. Ideal for using media hoses with soft sheathing. Easy screw connection.
- » Available customized in **1 mm width sections**.
- » **Inside/outside:** Screw connection detachable
- » **Option:** Divider systems made from steel and stainless steel ER 1, ER 1S.



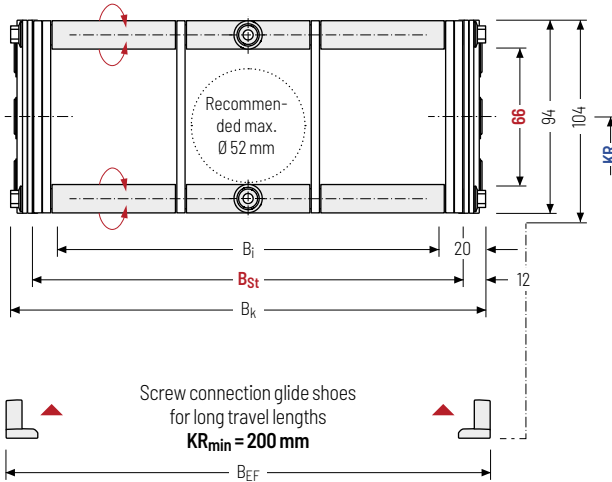
Stay arrangement on every
2nd chain link, standard
(HS: half-stayed)



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



1 mm B_k from 200 – 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]	$h_{G'}$ [mm]	B_i [mm]	B_{St} [mm]*	B_k [mm]	B_{EF} [mm]	KR [mm]							q_k [kg/m]
66	94	104	$\frac{160}{560}$	$\frac{176}{576}$	$B_{St} + 24$	$B_{St} + 30$	145	200	220	260	300	340	380	13.82
							420	460	500	540	600	1000		17.30

* in 1 mm width sections

Order example

S1250 · 400 · RR · 200 · St · 4750 · HS

Type B_{St} [mm] Stay variant KR [mm] Material L_k [mm] Stay arrangement

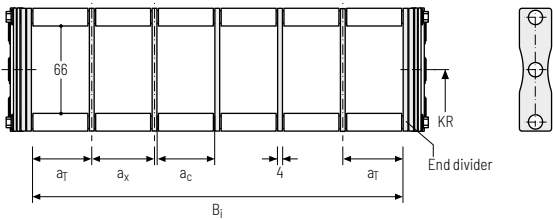
Divider systems

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

The dividers are fixed through the tubes.
The tube additionally serves as a spacer between the dividers (**version B**).

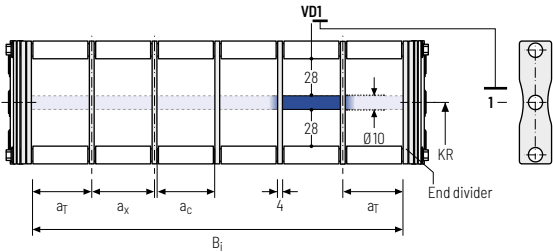
Divider system TS0 without height separation

Vers.	a _T min [mm]	a _x min [mm]	a _c min [mm]	n _T min
B	30	30	26	–



Divider system TS1 with continuous height separation

Vers.	a _T min [mm]	a _x min [mm]	a _c min [mm]	n _T min
B	30	30	26	2



Order example



TS1	B	3	K1	34	V00
			⋮	⋮	⋮
			K4	38	V00
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).

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

MT
series

XLT
series

ROBOTRAX®
System

FLATVEYOR®

CLEANVEYOR®

LS/LSX
series

S/SX
series

S/SX-Tubes
series

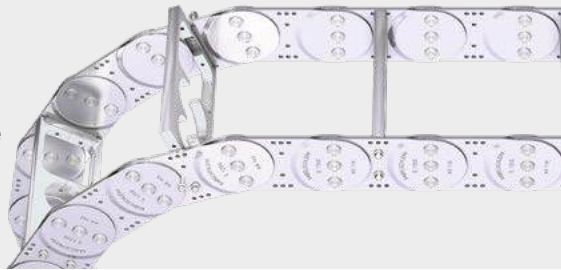
Accessories

TRAXLINE®

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 grid**.
- » **Inside/outside:** Threaded joint easy to release.

HEAVY DUTY
TSUBAKI KABELSCHLEPP



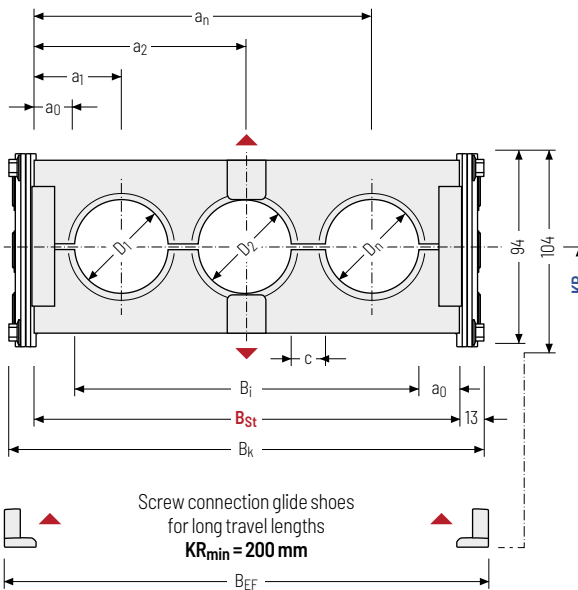
Stay arrangement on every
2nd chain link standard
(HS: half-stayed)



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



1 mm B_i 130 – 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

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]	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]
76	12	94	104	82	104	B _{St} +	B _{St} +	4	11	145	200	220	260	300	13.10
				752	774	26	32			340	380	420	460	500	-
										540	600	1000			18.22

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

Order example

S1250 Type · **400** B_{St} [mm] · **LG** Stay variant · **200** KR [mm] · **St** Material · **4750** L_k [mm] · **HS** Stay arrangement

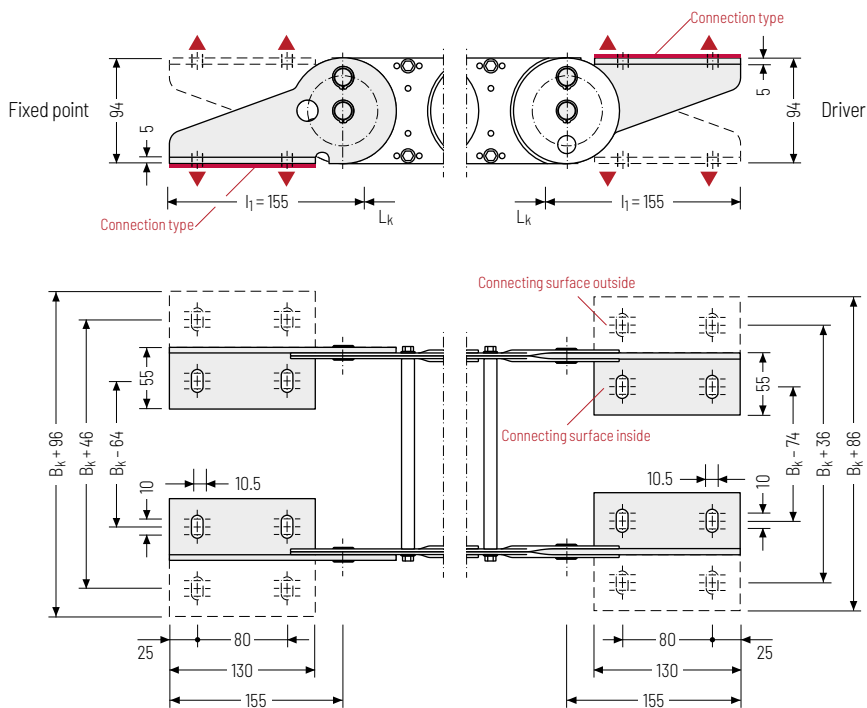


Subject to change without notice.

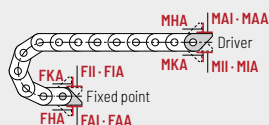
791						
S/SX series	Accessories					TRAXLINE®
	S/SX-Tubes series					
	LS/SX series	CLEANVEVOR®	FLATVEVOR®	ROBOTRAX® System	XLT series	MT series

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

Connection type

A - threaded joint to outside (standard)
I - threaded joint to inside
H - threaded joint, rotated 90° to the outside
K - threaded joint, rotated 90° to the inside

Connection surface

I - connection surface inside (standard)
A - connection surface outside



Caution: The standard connection variant FAI/MAI is only possible from B_k of 125 mm.

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 at the driver and fixed point. See from p. 926.

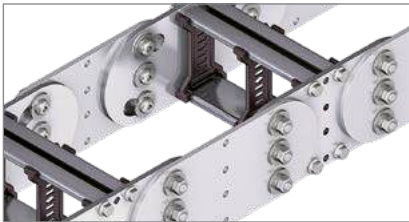
Special designs

S/SX1252 – with closed stroke system and straight link plates



- » Closed stroke system protected between link plates mounted on both sides.
- » Symmetrical side band design.
- » Long service life even under the toughest conditions, e.g. large amounts of foundry sand, emery or scale thanks to optimized cable carrier geometry.

S/SX1252 B – with internal stroke system and straight link plates



- » Open stroke system.
- » Link plates of the side bands are mounted offset.
- » Long service life even under the toughest conditions, e.g. large amounts of foundry sand, emery or scale thanks to optimized cable carrier geometry.
- » The optimized, “self-cleaning” geometry prevents blocking of the stops through dirt.
- » Version with bolted side bands.

MT series

XLT series

ROBOTRAX® System

FLATVEYOR®

CLEANVEYOR®

LS/LSX series

S/SX series

S/SX-Tubes series

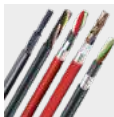
Accessories

TRAXLINE®



TOTALTRAX® complete systems

Benefit from the advantages of a 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

S/SX1800



Pitch
180 mm



Inner height
104 - 110 mm



Chain widths
180 - 1000 mm



Bending radii
265 - 1300 mm

Stay variants



Aluminum stay RM..... page **796**

Frame stay, solid

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



Aluminum stay RR..... page **798**

Frame stay, tube version

- » Steel rolling stays with gentle cable support and steel dividers. Ideal for using media hoses with soft sheathing.
- » **Inside/outside:** Screw connection detachable.



Aluminum stay LG..... page **800**

Frame stay, split

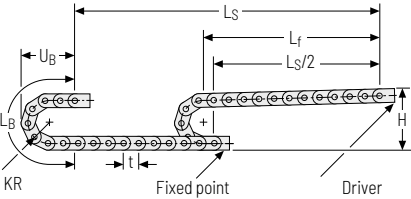
- » Optimum cable routing in the neutral bending line. Split version for easy cable routing. Stays also available unsplit.
- » **Inside/outside:** Threaded joint easy to release.



S/SX tubes

Also available as covered variants with cover system or steel band cover. More information can be found in chapter "S/SX tubes" from p. 824.

Unsupported arrangement



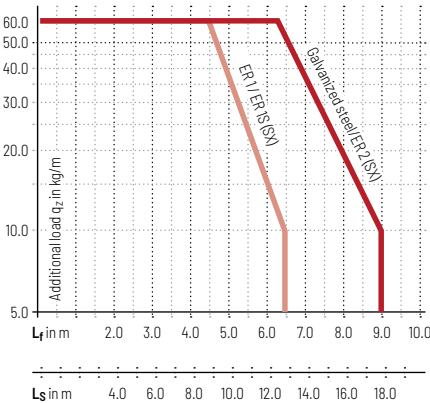
KR [mm]	H [mm]	L _B [mm]	U _B [mm]
265	740	1552	695
320	850	1725	750
375	960	1898	805
435	1080	2087	865
490	1190	2259	920
605	1420	2620	1035
720	1650	2982	1150
890	1990	3516	1320
1175	2560	4411	1605
1300	2810	4804	1730

Installation height H_z

$H_z = H + 10 \text{ mm/m}$

Load diagram for unsupported length depending on the additional load.

Intrinsic cable carrier weight $q_k = 26 \text{ kg/m}$. For other inner widths, the maximum additional load changes.



Speed
up to 2 m/s



Acceleration
up to 3 m/s²

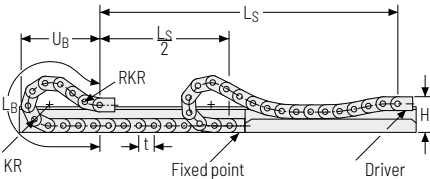


Travel length
up to 17.8 m



Additional load
up to 60 kg/m

Gliding arrangement



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

Glide shoes have to be used for gliding applications.



Speed
up to 0.8 m/s



Acceleration
up to 2 m/s²



Travel length
on request



Additional load
up to 60 kg/m

Aluminum stay RM – frame stay, solid

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

HEAVY DUTY
TSUBAKI KABELSCHLEPP



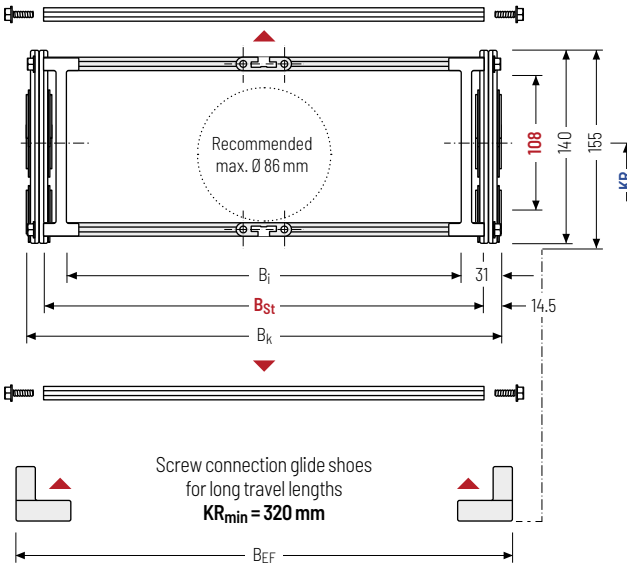
Stay arrangement on every
2nd chain link, standard
(HS: half-stayed)



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



1 mm B_k from 250 – 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 _{St} [mm]*	B _k [mm]	B _{EF} [mm]	KR [mm]					q _k [kg/m]
108	140	155	188 938	221 971	B _{St} + 29	B _{St} + 40	265 605	320 720	375 890	435 1175	490 1300	24.08 28.46

* in 1 mm width sections

Order example

SX1800 · 417 · RM · 375 · St · 5940 · HS
 Type B_{St} [mm] Stay variant KR [mm] Material L_k [mm] Stay arrangement

Divider systems

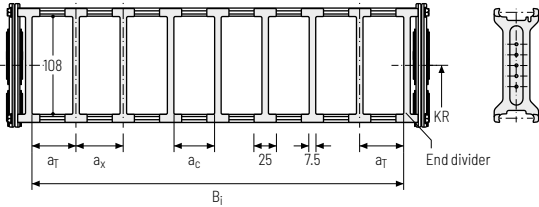
The divider system is mounted on each crossbar as a standard – on every 2nd chain link for stay mounting (HS).

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	21.5	25	17.5	–

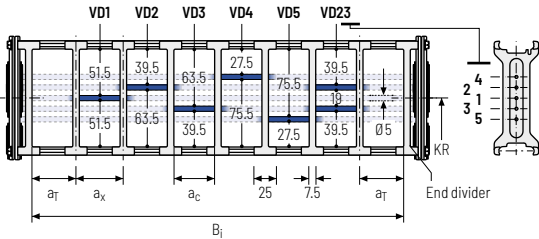
The dividers can be moved in the cross section.



Divider system TS1 with continuous height separation

Vers.	a _T min [mm]	a _x min [mm]	a _c min [mm]	n _T min
A	21.5	25	17.5	2

The dividers can be moved in the cross section.

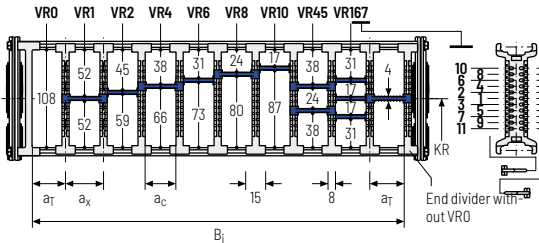


Divider system TS3 with height separation consisting of plastic partitions

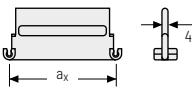
Vers.	a _T min [mm]	a _x min [mm]	a _c min [mm]	n _T min
A	11.5	16 / 42*	8	2

* 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 width 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.

MT series

XLT series

ROBOTRAX® System

FLATVEOR®

CLEANVEOR®

LS/LSX series

S/SX series

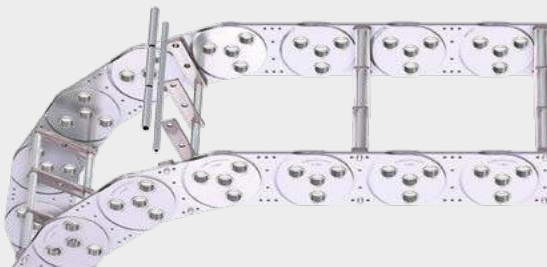
S/SX-Tubes series

Accessories

TRAXLINE®

Tube stay RR – frame stay, tube version

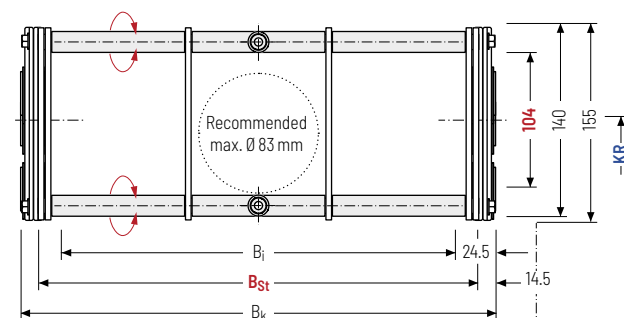
- » Steel rolling stays with gentle cable support and steel dividers. Ideal for using media hoses with soft sheathing. Easy screw connection.
- » Available customized in **1 mm width sections**.
- » **Inside/outside:** Screw connection detachable
- » **Option:** Divider systems made from stainless steel ER 1, ER 1S.



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

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

1 mm B_k from 250 – 800 mm
in **1 mm width sections**



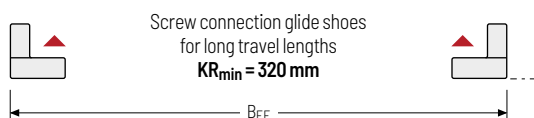
The maximum cable diameter strongly depends on the bending radius and the desired cable type. Please contact us.

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]	h _{G'} [mm]	B _i [mm]	B _{St} [mm]*	B _k [mm]	B _{EF} [mm]	KR [mm]					q _k [kg/m]
104	140	155	201 751	221 771	B _{St} + 29	B _{St} + 40	265 605	320 720	375 890	435 1175	490 1300	26.57 36.05

* in 1 mm width sections

Order example

	S1800	417	RR	375	St	5940	HS
	Type	B _{St} [mm]	Stay variant	KR [mm]	Material	L _k [mm]	Stay arrangement

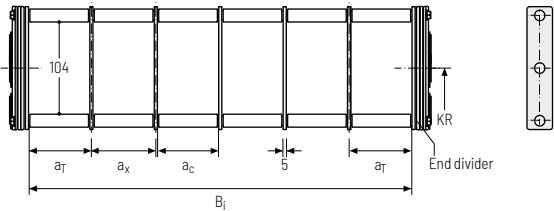
Divider systems

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

The dividers are fixed through the tubes.
The tube additionally serves as a spacer between the dividers (**version B**).

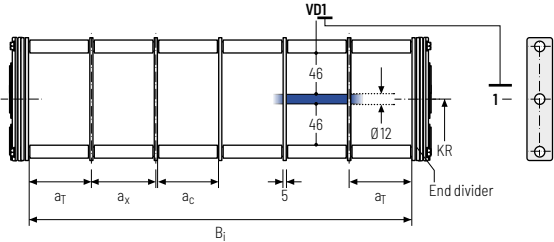
Divider system TS0 without height separation

Vers.	a _T min [mm]	a _x min [mm]	a _c min [mm]	n _T min
B	45	45	40	–



Divider system TS1 with continuous height separation

Vers.	a _T min [mm]	a _x min [mm]	a _c min [mm]	n _T min
B	45	45	40	2



Order example



TS1	B	3	K1	34	V00
			⋮	⋮	⋮
			K4	38	V00
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).

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

MT
series

XLT
series

ROBOTRAX®
System

FLATVEYOR®

CLEANVEYOR®

LS/LSX
series

S/SX
series

S/SX-Tubes
series

Accessories

TRAXLINE®

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 grid**.
- » **Inside/outside:** Threaded joint easy to release.

HEAVY DUTY
TSUBAKI KABELSCHLEPP



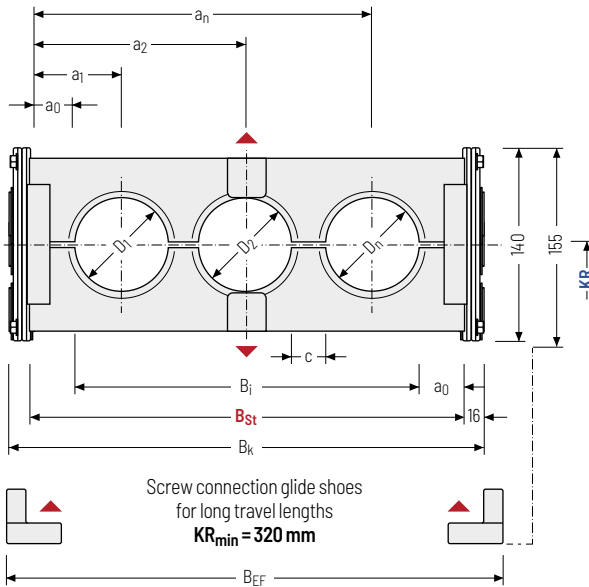
Stay arrangement on every
2nd chain link standard
(HS: half-stayed)



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



1 mm B_i 180 – 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

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]	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]
110	12	140	155	121	148	B _{St} +	B _{St} +	4	13.5	265	320	375	435	24.38
				-	-					490	605	720	890	-
				941	968	32	43			1175	1300			35.08

* in 1 mm width sections

** Hole ratio of the hole stay approx. 50 %

Order example

 **S1800** Type · **417** B_{St} [mm] · **LG** Stay variant · **375** KR [mm] · **St** Material · **5940** L_k [mm] · **HS** Stay arrangement



Subject to change without notice.

TRAXLINE®

Accessories

S/SX-Tubes
series

S/SX
series

LS/SX
series

CLEANEVOR®

FLATVEVOR®

ROBOTRAX®
System

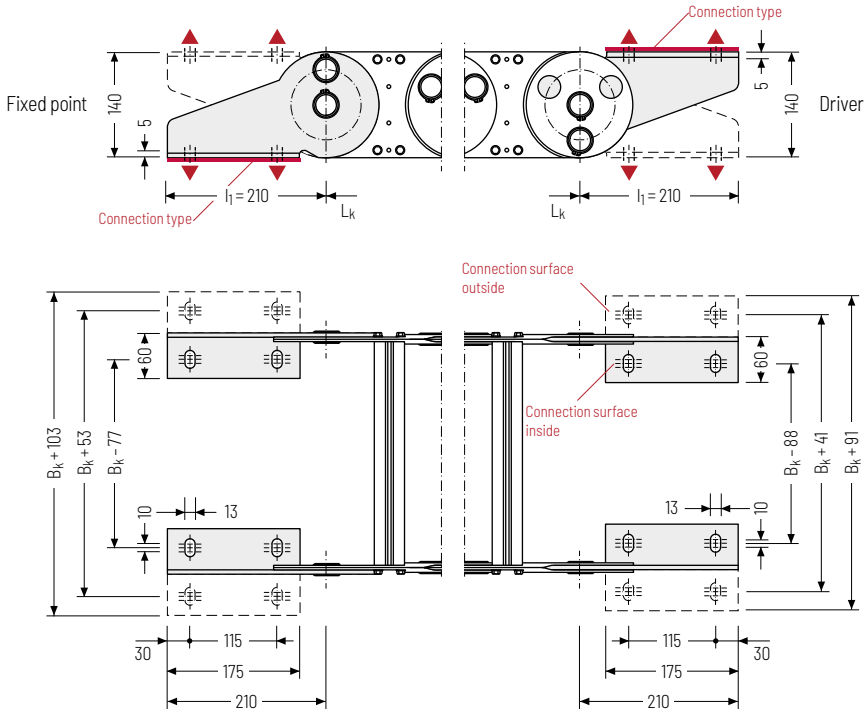
XLT
series

MT
series

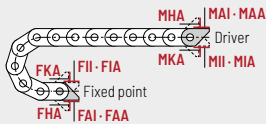
801

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

Connection type

A – threaded joint to outside (standard)
I – threaded joint to inside
H – threaded joint, rotated 90° to the outside
K – threaded joint, rotated 90° to the inside

Connection surface

I – connection surface inside (standard)
A – connection surface outside

Caution: The standard connection variant FAI/MAI is only possible from B_k of 139 mm.

Order example

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

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

Special designs

S/SX1802 – with closed stroke system and straight link plates



- » Closed stroke system protected between link plates mounted on both sides.
- » Symmetrical side band design.
- » Long service life even under the toughest conditions, e.g. large amounts of foundry sand, emery or scale thanks to optimized cable carrier geometry.

S/SX1802 B – with internal stroke system and straight link plates



- » Open stroke system.
- » Link plates of the side bands are mounted offset.
- » Long service life even under the toughest conditions, e.g. large amounts of foundry sand, emery or scale thanks to optimized cable carrier geometry.
- » The optimized, “self-cleaning” geometry prevents blocking of the stops through dirt.
- » Version with bolted side bands.

MT series
XLT series
ROBOTRAX® System
FLATVEYOR®
CLEANVEYOR®
LS/LSX series
S/SX series
S/SX-Tubes series
Accessories
TRAXLINE®



TOTALTRAX® complete systems

Benefit from the advantages of a 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

S/SX2500



Pitch
250 mm



Inner height
180 – 183 mm



Chain widths
250 – 1200 mm



Bending radii
365 – 1395 mm

Stay variants



Aluminum stay RM page 806

Frame stay, solid

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



Aluminum stay LG page 808

Frame stay, split

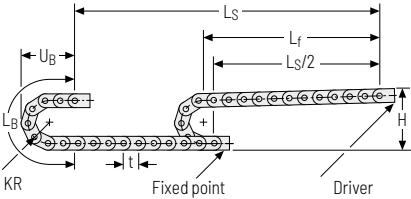
- » Optimum cable routing in the neutral bending line. Split version for easy cable routing.
- » **Inside/outside:** Threaded joint easy to release.



Steel band cover

Also available as covered variants with steel band cover. More information can be found in chapter "steel band cover" from p. 938.

Unsupported arrangement



KR [mm]	H [mm]	LB [mm]	UB [mm]
365	1060	2147	975
445	1220	2398	1055
600	1530	2885	1210
760	1850	3388	1370
920	2170	3890	1530
1075	2480	4377	1685
1235	2800	4880	1845
1395	3120	5383	2005

Installation height H_z

$H_z = H + 10 \text{ mm/m}$

Load diagram for unsupported length depending on the additional load.

Intrinsic cable carrier weight $q_k = 41 \text{ kg/m}$. For other inner widths, the maximum additional load changes.



Speed
up to 1 m/s



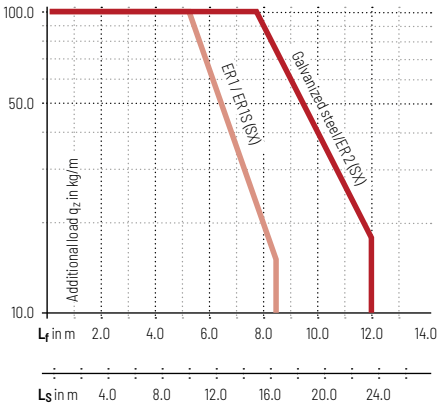
Acceleration
up to 3 m/s²



Travel length
up to 23.7 m



Additional load
up to 100 kg/m



MT series									
XLT series									
ROBOTRAX® System									
FLATVEYOR®									
CLEANVEYOR®									
LS/SX series									
S/SX series									
S/SX-Tubes series									
Accessories									
TRAXLINE®									

Aluminum stay RM –
frame stay, solid

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

HEAVY DUTY
TSUBAKI KABELSCHLEPP



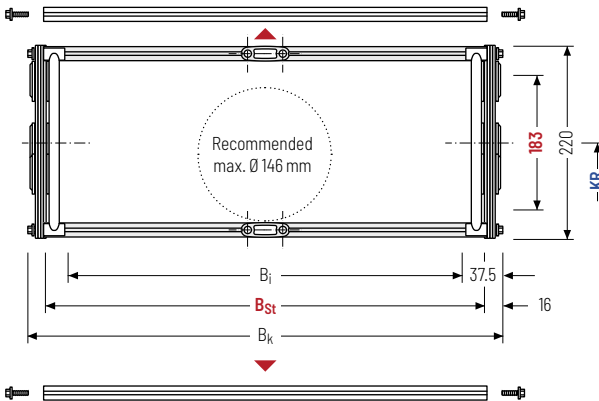
Stay arrangement on every
2nd chain link, standard
(HS: half-stayed)



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



B_i 250 – 1200 mm
in 1 mm width sections



The maximum cable dia-
meter 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]	B _i [mm]	B _{St} [mm]*	B _k [mm]	KR [mm]				q _k [kg/m]
183	220	175 1125	218 1168	B _{St} + 32	365 920	445 1075	600 1235	760 1395	38.68 44.58

* in 1 mm width sections

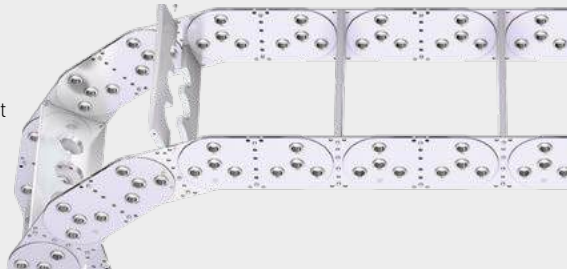
Order example

S2500 · **806** · **RM** · **760** · **St** · **9250** · **HS**
Type B_{St} [mm] Stay variant KR [mm] Material L_k [mm] Stay arrangement

Aluminum stay LG –
hole stay, split version

- » Optimum cable routing in the neutral bending line. Split version for easy cable routing.
- » Available customized in **1 mm grid**.
- » **Inside/outside:** Threaded joint easy to release.

HEAVY DUTY
TSUBAKI KABELSCHLEPP



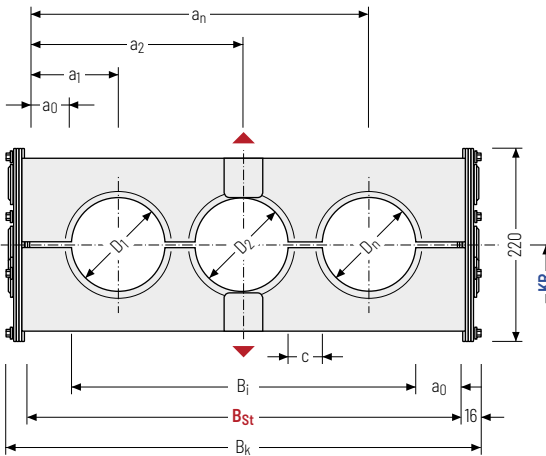
Stay arrangement on every
2nd chain link standard
(HS: half-stayed)



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



1mm B_i 250 – 1200 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

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]	c _{min} [mm]	a _{0 min} [mm]	KR [mm]				q _k 50 %** [kg/m]
180	12	220	174 1124	218 1168	B _{St} + 32	4	22	365 920	445 1075	600 1235	760 1395	36.66 48.36

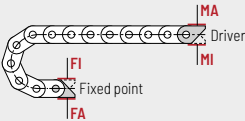
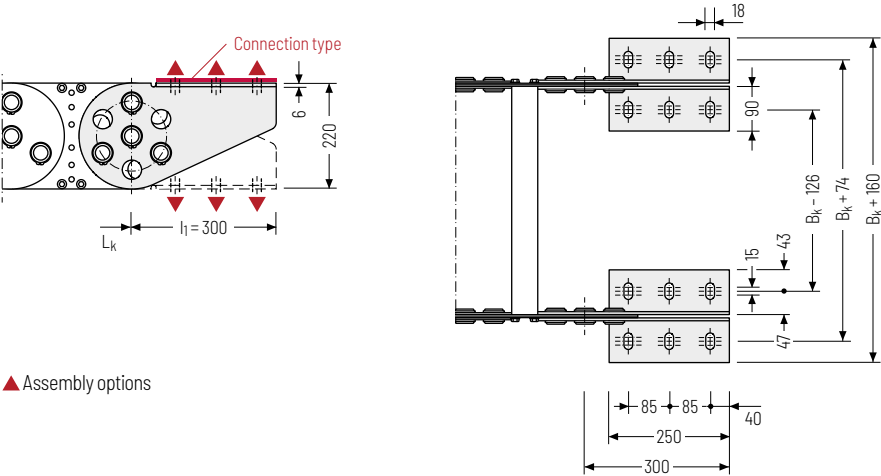
* in 1 mm width sections ** Hole ratio of the hole stay approx. 50 %

Order example

	SX2500 Type	806 B _{St} [mm]	LG Stay variant	760 KR [mm]	St Material	9250 L _k [mm]	HS Stay arrangement
--	-----------------------	------------------------------------	---------------------------	-----------------------	-----------------------	------------------------------------	-------------------------------

End connectors – steel

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



- Connection point**

F – fixed point

M – driver
- Connection type**

A – threaded joint outside (standard)

I – threaded joint inside

Order example



Steel	F	A
Steel	M	A
End connector	Connection point	Connection type

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

More product information online



Assembly instructions etc.:
Additional info via your
smartphone or check online at
[tsubaki-kabelschlepp.com/
downloads](https://tsubaki-kabelschlepp.com/downloads)



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

MT
series

XLT
series

ROBOTRAX®
System

FLATVEYOR®

CLEANVEYOR®

LS/LSX
series

S/SX
series

S/SX-Tubes
series

Accessories

TRAXLINE®

S/SX3200



Pitch
320 mm



Inner height
220 mm



Chain widths
250 - 1500 mm



Bending radii
470 - 1785 mm

Stay variants



Aluminum stay LG page 812

Frame stay, split

- » Optimum cable routing in the neutral bending line. Split version for easy cable routing.
- » **Inside/outside:** Threaded joint easy to release.

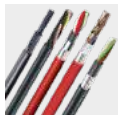


Stay variant RR available as a customized design.
Please contact us.



TOTALTRAX® complete systems

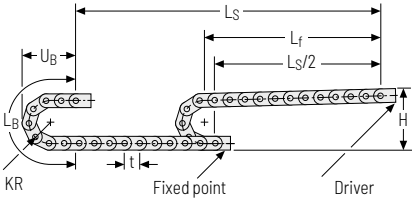
Benefit from the advantages of the TOTALTRAX® complete system.
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TRAXLINE® cables for cable carriers

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

Unsupported arrangement



Installation height H_z

$H_z = H + 10 \text{ mm/m}$

Load diagram for unsupported length depending on the additional load.

Intrinsic cable carrier weight $q_k = 41 \text{ kg/m}$. For other inner widths, the maximum additional load changes.



Speed
up to 1 m/s



Acceleration
up to 2.5 m/s²

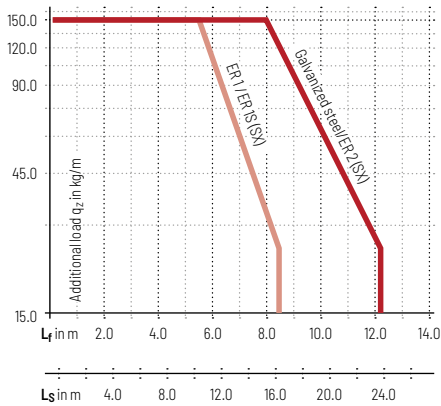


Travel length
up to 24 m



Additional load
up to 150 kg/m

KR [mm]	H [mm]	L _B [mm]	U _B [mm]
470	1390	2757	1260
670	1790	3385	1460
870	2190	4013	1660
1075	2600	4657	1865
1275	3000	5286	2065
1480	3410	5930	2270
1785	4020	6888	2575



MT series									
XLT series									
ROBOTRAX® System									
FLATVEYOR®									
CLEANVEYOR®									
LS/SX series									
S/SX series									
S/SX-Tubes series									
Accessories									
TRAXLINE®									

More product information online



Assembly instructions etc.:
Additional info via your
smartphone or check online at
[tsubaki-kabelschlepp.com/
downloads](https://tsubaki-kabelschlepp.com/downloads)

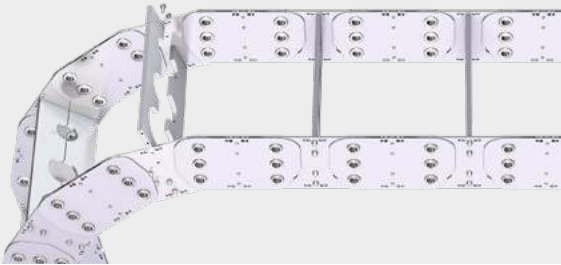


Configure your custom
cable carrier here:
online-engineer.de

Aluminum stay LG -
hole stay, split version

- » Optimum cable routing in the neutral bending line. Split version for easy cable routing.
- » Available customized in **1 mm grid**.
- » **Inside/outside:** Threaded joint easy to release.

HEAVY DUTY
TSUBAKI KABELSCHLEPP



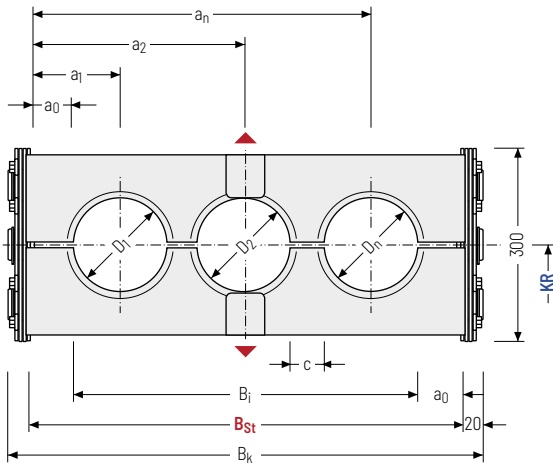
Stay arrangement on every 2nd chain link, standard (HS: half-stayed)



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



1 mm B_i 250 - 1500 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

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]	c _{min} [mm]	a ₀ min [mm]	KR [mm]				q _k 50 %** [kg/m]
220	12	300	181 1416	225 1460	B _{St} + 40	4	22	470 1275	670 1480	870 1785	1075	57.48 72.66

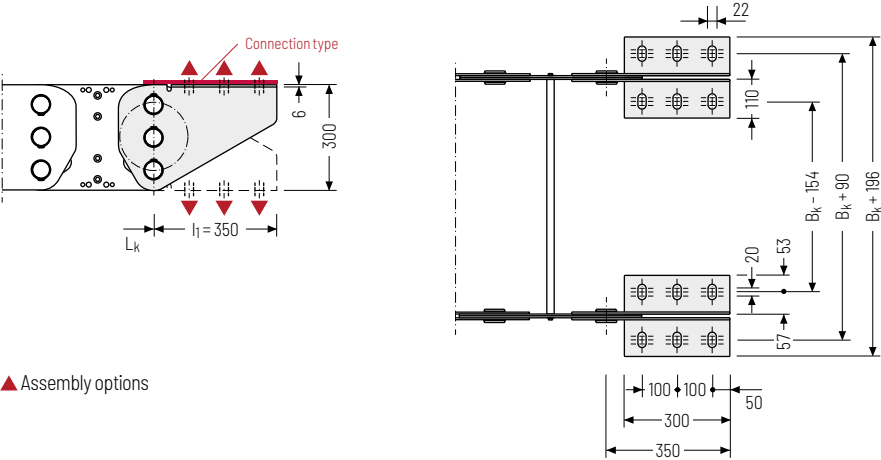
* in 1 mm width sections ** Hole ratio of the hole stay approx. 50 %

Order example

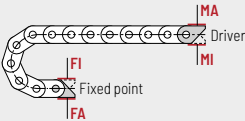
	SX3200 Type	776 B _{St} [mm]	LG Stay variant	1075 KR [mm]	ER 1 Material	9280 L _k [mm]	HS Stay arrangement
--	-----------------------	------------------------------------	---------------------------	------------------------	-------------------------	------------------------------------	-------------------------------

End connectors – steel

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



▲ Assembly options



Connection point

- F – fixed point
- M – driver

Connection type

- A – threaded joint outside (standard)
- I – threaded joint inside

Order example



Steel	F	A
Steel	M	A
End connector	Connection point	Connection type



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

More product information online



Assembly instructions etc.:
Additional info via your
smartphone or check online at
[tsubaki-kabelschlepp.com/
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online-engineer.de

MT series
XLT series
ROBOTRAX® System
FLATVEYOR®
CLEANVEYOR®
LS/SX series
S/SX series
S/SX-Tubes series
Accessories
TRAXLINE®

S/SX

5000 – 8000



Pitch
200 – 550 mm



Inner heights
150 – 578 mm



Chain widths
250 – 1800 mm



Bending radii
min. 500 mm

Stay variants



Steel stay special design..... from page 816

Steel frame stay, bolted

- » Steel profile bars for extremely high additional loads and very large cable carrier widths. Double threaded joint on both sides.
- » **Inside/outside:** Threaded joint can be released.

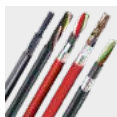


Cable carriers of types 5000 – 8000 are **customized products** for special applications, e.g. offshore use.



TOTALTRAX® complete systems

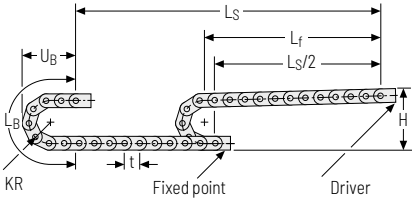
Benefit from the advantages of the TOTALTRAX® complete system. A complete delivery from one source – with a warranty certificate on request! Learn more at tsubaki-kabelschlepp.com/totaltrax



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

Unsupported arrangement



Installation height H_z

$H_z = H + 10 \text{ mm/m}$

Load diagram for unsupported length depending on the additional load.

Intrinsic cable carrier weight q_k

50 kg/m for S/SX5000

75 kg/m for S/SX6000

150 kg/m for S/SX7000

230 kg/m for S/SX8000

For other inner widths, the maximum additional load changes.



Speed

S/SX5000 up to 2.0 m/s
S/SX6000 up to 1.5 m/s
S/SX7000 up to 0.5 m/s
S/SX8000 up to 0.5 m/s



Acceleration

S/SX5000 up to 3.0 m/s²
S/SX6000 up to 2.0 m/s²
S/SX7000 up to 0.3 m/s²
S/SX8000 up to 0.3 m/s²



Travel length

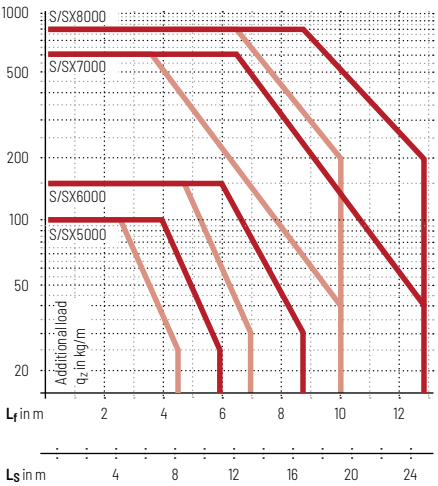
S/SX5000 up to 11.0 m
S/SX6000 up to 16.7 m
S/SX7000 up to 24.9 m
S/SX8000 up to 24.9 m



Additional load

S/SX5000 up to 100 kg/m
S/SX6000 up to 150 kg/m
S/SX7000 up to 600 kg/m
S/SX8000 up to 800 kg/m

Type	KR [mm]	H [mm]	L _B [mm]	U _B [mm]
S/SX5000	min. 500	1200	1970	800
	max. 1200	2600	4170	1500
S/SX6000	min. 700	1700	2840	1170
	max. 1500	3300	5350	1970
S/SX7000	min. 900	2250	3725	1575
	max. 2400	5250	8435	3075
S/SX8000	min. 900	2400	3925	1750
	max. 2400	5400	8635	3250



— S5000/6.../7.../8... galvanized steel
— SX5000/6.../7.../8... ER2
— SX5000/6.../7.../8... ER1/ER1S

MT series	ROBOTRAX® System	FLATVEYOR®	CLEANVEYOR®	LS/SX series	S/SX series	S/SX-Tubes series	Accessories	TRAXLINE®
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More product information online



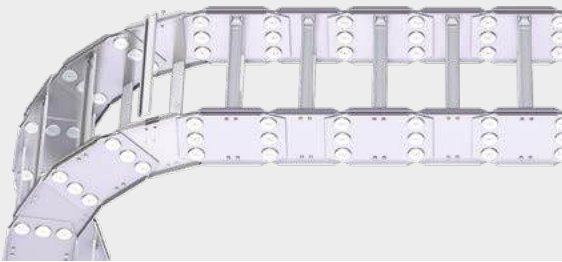
Assembly instructions etc.:
Additional info via your
smartphone or check online at
[tsubaki-kabelschlepp.com/
downloads](https://tsubaki-kabelschlepp.com/downloads)



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

Steel stay -
steel frame stay, bolted

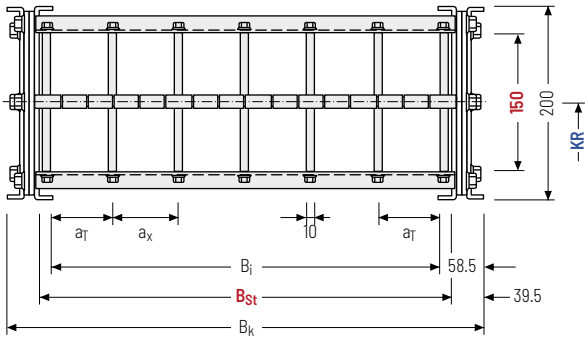
- » Steel profile bars for extremely high additional loads and very large cable carrier widths.
- » Double threaded joint on both sides.
- » Available customized in **1 mm grid**.
- » **Inside/outside:** Threaded joint can be released.



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



1 mm B_i 250 - 1200 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

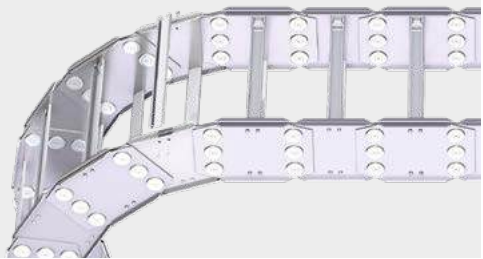
h_i [mm]	h_G [mm]	B_i [mm]	B_{St} [mm]*	B_k [mm]	$a_{T \max}$ [mm]	$a_{x \max}$ [mm]	$n_T \min$	KR [mm]**	q_k [kg/m]
150	200	133 + 1083	171 + 1121	$B_{St} + 79$	150	150	2	500 + 1200	42.5 + 52.0

* in 1 mm width sections

** individual intermediate sizes available

Steel stay –
steel frame stay, bolted

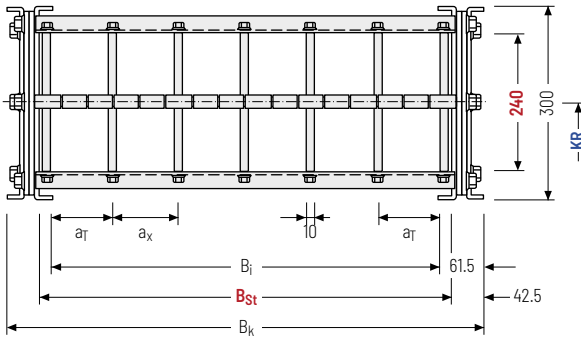
- » Steel profile bars for extremely high additional loads and very large cable carrier widths.
Double threaded joint on both sides.
- » Available customized in **1 mm grid**.
- » **Inside/outside:** Threaded joint can be released.



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



B_i 300 – 1500 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]	B_i [mm]	B_{St} [mm]*	B_k [mm]	$a_T \max$ [mm]	$a_x \max$ [mm]	$nT \min$	KR [mm]**	q_k [kg/m]
240	300	177 1377	215 1415	$B_{St} + 85$	200	200	2	700 1500	55 79

* in 1 mm width sections

** individual intermediate sizes available

MT
series

XLT
series

ROBOTRAX®
System

FLATVEYOR®

CLEANVEYOR®

LS/LSX
series

S/SX
series

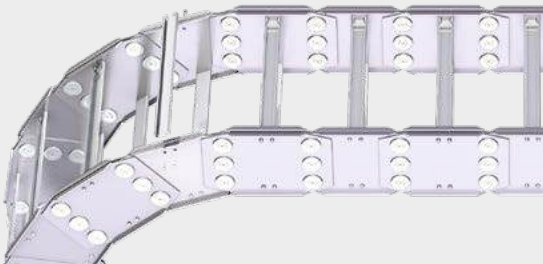
S/SX-Tubes
series

Accessories

TRAXLINE®

Steel stay -
steel frame stay, bolted

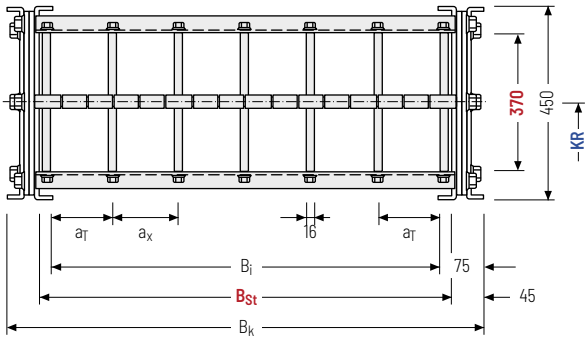
- » Steel profile bars for extremely high additional loads and very large cable carrier widths.
- » Double threaded joint on both sides.
- » Available customized in **1 mm grid**.
- » **Inside/outside:** Threaded joint can be released.



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



1 mm B_k from 350 – 1800 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

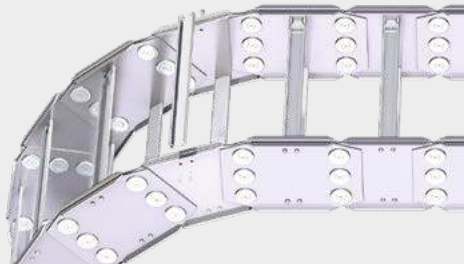
h _i [mm]	h _G [mm]	B _i [mm]	B _{St} [mm]*	B _k [mm]	a _T max [mm]	a _x max [mm]	n _T min	KR [mm]**	q _k [kg/m]
370	450	200 - 1650	260 - 1710	B _{St} + 90	250	250	2	900 - 2400	135 - 164

* in 1 mm width sections

** individual intermediate sizes available

Steel stay –
steel frame stay, bolted

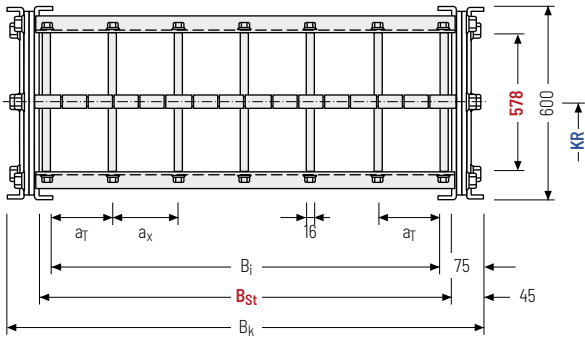
- » Steel profile bars for extremely high additional loads and very large cable carrier widths.
- » Double threaded joint on both sides.
- » Available customized in **1 mm grid**.
- » **Inside/outside:** Threaded joint can be released.



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



1mm B_t 350 - 1800 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

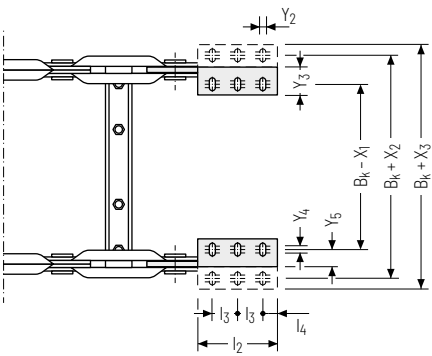
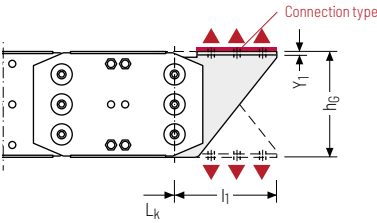
h_i [mm]	h_G [mm]	B_t [mm]	B_{St} [mm]*	B_k [mm]	$a_T \max$ [mm]	$a_x \max$ [mm]	$nT \min$	KR [mm]**	q_k [kg/m]
578	600	200 - 1650	260 - 1710	$B_{St} + 90$	300	300	2	900 - 2400	198 - 255

* in 1 mm width sections
** individual intermediate sizes available

MT series
XLT series
ROBOTRAX® System
FLATVEYOR®
CLEANVEYOR®
LS/LSX series
S/SX series
S/SX-Tubes series
Accessories
TRAXLINE®

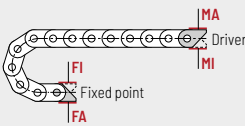
End connectors – steel

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



▲ Assembly options

Type	l ₁ [mm]	l ₂ [mm]	l ₃ [mm]	l ₄ [mm]	X ₁ [mm]	X ₂ [mm]	X ₃ [mm]	Y ₁ [mm]	Y ₂ [mm]	Y ₃ [mm]	Y ₄ [mm]	Y ₅ [mm]
S/SX5000	300	200	75	25	130	210	290	12	18	90	15	50
S/SX6000	400	300	100	50	130	210	290	12	18	90	15	50
S/SX7000	400	300	100	50	140	220	300	12	22	90	15	50
S/SX8000	400	300	100	50	140	220	300	12	22	90	15	50



Connection point
F – fixed point
M – driver

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

More product information online



Assembly instructions etc.:
Additional info via your
smartphone or check online at
[tsubaki-kabelschlepp.com/
downloads](https://www.tsubaki-kabelschlepp.com/downloads)



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



Subject to change without notice.

821

MT
series

XLT
series

ROBOTRAX®
System

FLATVEYOR®

CLEANVEYOR®

LS/LSX
series

SYSX
series

SYS-Tubes
series

Accessories

TRAXLINE®

S/SX9000

Custom sizes



**Cable carrier
width**
from 350 mm

For over 65 years, TSUBAKI KABELSCHLEPP has been developing and manufacturing steel cable carriers which are used in a great variety of applications, from steel works and shipbuilding to offshore oil rigs. We comply with the required quality and industry standards and are happy to develop customized solutions for your individual projects. We can manufacture special sizes in different materials as per your requirements.

- » Individual problem solutions from an experienced engineering team
- » Maintenance-free systems with a high level of reliability and availability
- » Different materials adapted to the area of application
- » Resistant to temperature, corrosion, chemicals and UV
- » Suitable for use with salt water
- » Explosion protection with classification EX II 2 GD as per ATEX RL
- » Linear and rotating travel paths possible
- » Easy and flexible assembly with modular design
- » Cable weights of over 1000 kg/m possible
- » Long service life



TSUBAKI KABELSCHLEPP technical support

If you have any questions about the configuration of cable carriers or other technical details please contact our technical support at technik@kabelschlepp.de. We will be happy to help you.





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