

# S/SX series

Extremely robust and sturdy steel cable carriers



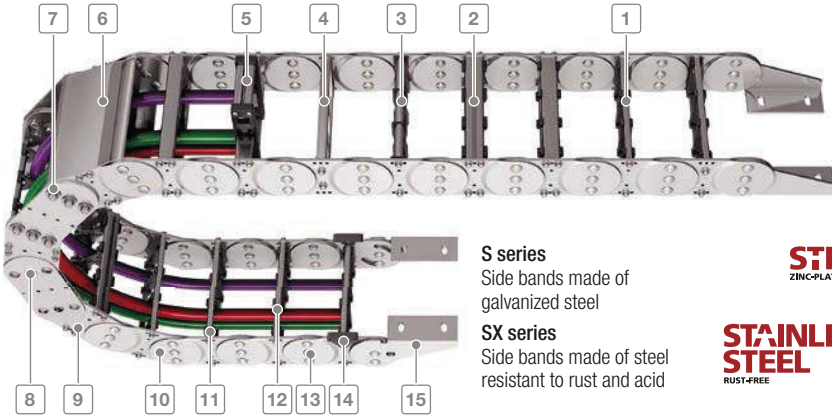
\* Only S/SX 1252B  
and S/SX 1802B

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Subject to change.

# S/SX series | Overview

S/SX series



Inner heights



Chain widths



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

**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

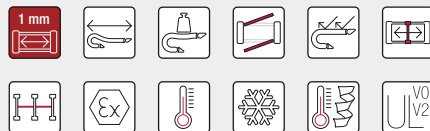
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## Features

- 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)
- 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 welded together



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

## S/SX series | Overview

Key for abbreviations  
on page 12Design guidelines  
from page 38Technical support:  
technik@kabelschlepp.deonline-engineer.de  
Cable Carrier Configurator

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]	$d_{max}$ [mm]
<b>S/SX0650</b>											
		RS 1	31	50	65 – 265	100 – 300	1	65	75 – 300	30	24
		RS 2	31	50	69 – 369	100 – 400	1	65	75 – 300	30	24
		RR	26	50	69 – 369	100 – 400	1	65	75 – 300	30	20
		LG	–	50	35 – 465	70 – 500	1	65	75 – 300	30	32
		RMA	31 (200)	50 (224)	155 – 355	200 – 400	1	65	75 – 300	30	–
<b>S/SX0950</b>											
		RS 1	46	68	107 – 257	150 – 300	1	95	125 – 410	45	36
		RS 2	46	68	113 – 363	150 – 400	1	95	125 – 410	45	36
		RM	43	68	88 – 563	125 – 600	1	95	125 – 410	45	34
		RR	42	68	115 – 465	150 – 500	1	95	125 – 410	45	33
		LG	–	68	82 – 557	125 – 600	1	95	125 – 410	45	38
		RMR	40	68	108 – 558	150 – 600	1	95	125 – 410	45	32
<b>S/SX1250</b>											
		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	–	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.

# S/SX series | Overview

Unsupported arrangement			Gliding arrangement			Inner distribution				Installation variants			Page
Travel length ≤ [m]	$v_{max} \leq [m/s]$	$a_{max} \leq [m/s^2]$	Travel length ≤ [m]	$v_{max} \leq [m/s]$	$a_{max} \leq [m/s^2]$	TS0	TS1	TS2	TS3	vertical hanging or standing	lying on the side	rotating arrangement	
5.8	2.5	5	***	1	2	●	●	–	–	●	●	●	556
5.8	2.5	5	***	1	2	●	●	–	–	●	●	●	558
5.8	2.5	5	***	1	2	●	●	–	–	●	●	●	*
5.8	2.5	5	***	1	2	–	–	–	–	●	●	●	*
5.8	2.5	5	***	1	2	●	–	–	–	●	●	–	*
8.8	2.5	5	***	1	2	●	●	–	–	●	●	●	564
8.8	2.5	5	***	1	2	●	●	–	–	●	●	●	566
8.8	2.5	5	***	1	2	●	●	–	–	●	●	●	568
8.8	2.5	5	***	1	2	●	●	–	–	●	●	●	*
8.8	2.5	5	***	1	2	–	–	–	–	●	●	●	*
8.8	2.5	5	***	1	2	●	–	–	–	●	●	●	*
13.5	2.5	5	***	1	2	●	●	–	–	●	●	●	574
13.5	2.5	5	***	1	2	●	●	–	–	●	●	●	576
13.5	2.5	5	***	1	2	●	●	●	●	●	●	●	578
13.5	2.5	5	***	1	2	●	●	●	–	●	●	●	582
13.5	2.5	5	***	1	2	●	●	–	–	●	●	●	*
13.5	2.5	5	***	1	2	–	–	–	–	●	●	●	*
13.5	2.5	5	***	1	2	●	–	–	–	●	●	–	*
13.5	2.5	5	***	1	2	●	–	–	–	●	●	●	*

Inner heights



Chain widths



## S/SX series | Overview

Key for abbreviations  
on page 12Design guidelines  
from page 38Technical support:  
technik@kabelschlepp.de

 online-engineer.de  
 Cable Carrier Configurator

Type	Opening variant	Stay variant	$h_i$ [mm]	$h_G$ [mm]	$B_i$ [mm]	$B_k$ [mm]	$B_j$ - grid [mm]	t [mm]	KR [mm]	Additional load ≤ [kg/m]	$d_{max}$ [mm]
<b>S/SX1800</b>											
		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	–	140	121 – 941	180 – 1000	1	180	265 – 1300	60	88
<b>S/SX2500</b>											
		RM	183	220	175 – 1125	250 – 1200	1	250	365 – 1395	100	146
		LG	–	220	174 – 1124	250 – 1200	1	250	365 – 1395	100	144
<b>S/SX3200</b>											
		LG	–	300	166 – 1416	250 – 1500	1	320	470 – 1785	150	176
<b>S/SX5000</b>											
		RSV	150	200	133 – 1083	250 – 1200	1	200	500 – 1200	100	–
<b>S/SX6000</b>											
		RSV	240	300	177 – 1377	300 – 1500	1	320	700 – 1500	150	–
<b>S/SX7000</b>											
		RSV	370	450	200 – 1650	350 – 1800	1	450	900 – 2400	600	–

\* More information can be found in our technical manual.

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\*\*\* Application-specific, values on request.

# S/SX series | Overview

Unsupported arrangement			Gliding arrangement			Inner distribution				Installation variants			Page
Travel length ≤ [m]	$v_{max} \leq [m/s]$	$a_{max} \leq [m/s^2]$	Travel length ≤ [m]	$v_{max} \leq [m/s]$	$a_{max} \leq [m/s^2]$	TS0	TS1	TS2	TS3	vertical hanging or standing	lying on the side	rotating arrangement	
17.8	2	3	***	0.8	2	●	●	–	●	●	●	●	588
17.8	2	3	***	0.8	2	●	●	–	–	●	●	●	*
17.8	2	3	***	0.8	2	–	–	–	–	●	●	●	*
23.7	1	3	–	–	–	●	●	●	–	●	●	●	592
23.7	1	3	–	–	–	–	–	–	–	●	●	●	*
24	1	2.5	–	–	–	–	–	–	–	●	●	●	600
12	2	3	–	–	–	–	●	–	–	●	●	●	604
16.7	1.5	2	–	–	–	–	●	–	–	●	●	●	605
24.9	0.5	0.3	–	–	–	–	●	–	–	●	●	●	606

Inner heights



Chain widths







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# S/SX series | Overview

Key for abbreviations  
on page 12

Design guidelines  
from page 38

Technical support:  
technik@kabelschlepp.de

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]	$d_{max}$ [mm]	
<b>S/SX8000</b>												
		RSV	578	600	200 – 1650	350 – 1800	1	550	900 – 2400	800	–	
<b>S/SX9000</b>												
		RSV	Custom sizes from a cable carrier width of 350 mm									

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



### 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. 614.

# S/SX series | Overview

Unsupported arrangement			Gliding arrangement			Inner distribution				Installation variants			Page
Travel length ≤ [m]	$v_{max} \leq [m/s]$	$a_{max} \leq [m/s^2]$	Travel length ≤ [m]	$v_{max} \leq [m/s]$	$a_{max} \leq [m/s^2]$	TS0	TS1	TS2	TS3	vertical hanging or standing	lying on the side	rotating arrangement	
										•	•	•	607
24.9	0.05	0.3	-	-	-	-	•	-	-	•	•	•	610

Inner heights



Chain widths



[tsubaki-kabelschlepp.com/s-sx](https://tsubaki-kabelschlepp.com/s-sx)



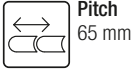
## Technical manual

Do you need additional information on the S/SX series?  
 Our technical manual at [tsubaki-kabelschlepp.com/download](https://tsubaki-kabelschlepp.com/download) contains all information for selecting your cable carrier.



# S/SX0650

Key for abbreviations  
on page 12



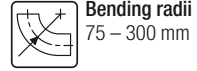
Pitch  
65 mm



Inner height  
31 mm



Chain widths  
100 – 400 mm



Bending radii  
75 – 300 mm

## Stay variants

Design guidelines  
from page 38



**Aluminum stay RS 1** ..... page 556

### Standard frame stay “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 558

### Frame stay standard, bolted

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

Technical support:  
technik@kabelschlepp.de



### 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. 614.

## Additional stay variants on request



**Tube stay RR**  
Gentle cable guiding with rollers.

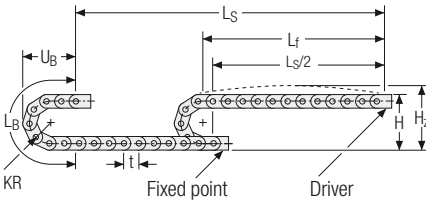


**Aluminum stay LG**  
Optimum cable routing in the neutral bending line.



**Aluminum stay RMA**  
For guiding very large cable diameters

Unsupported arrangement



KR [mm]	H [mm]	H <sub>z</sub> [mm]	L <sub>B</sub> [mm]	U <sub>B</sub> [mm]
75	225	235	496	230
95	265	275	558	250
115	305	315	621	270
125	325	335	653	280
135	345	355	684	290
145	365	375	716	300
155	385	395	747	310
175	425	435	810	330
200	475	485	888	355
250	575	585	1045	405
300	675	685	1202	455

Inner heights

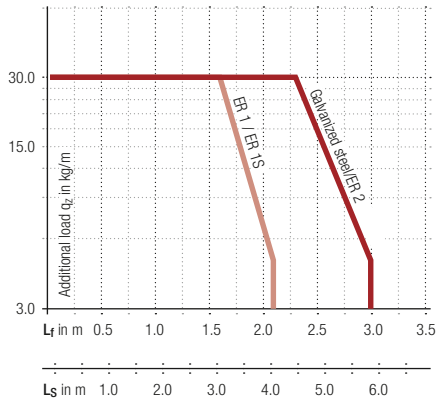


Chain widths



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.



**Velocity**  
up to 2.5 m/s

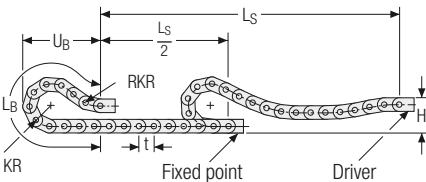
**Acceleration**  
up to 5 m/s<sup>2</sup>

**Travel length**  
up to 5.8 m

**Additional load**  
up to 30 kg/m

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Gliding arrangement



Glide shoes have to be used for gliding applications. The gliding cable carrier has to be routed in a channel. See p. 654.

**Velocity**  
up to 1 m/s

**Acceleration**  
up to 2 m/s<sup>2</sup>

**Travel length**  
on request

**Additional load**  
up to 30 kg/m

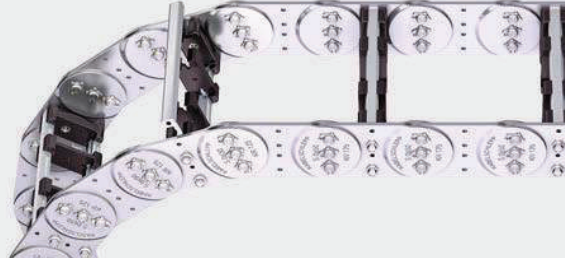
Subject to change.



Our technical support can provide help for gliding arrangements:  
[technik@kabelschlepp.de](mailto:technik@kabelschlepp.de)

## Aluminum stay RS 1 – standard frame stay

- 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.

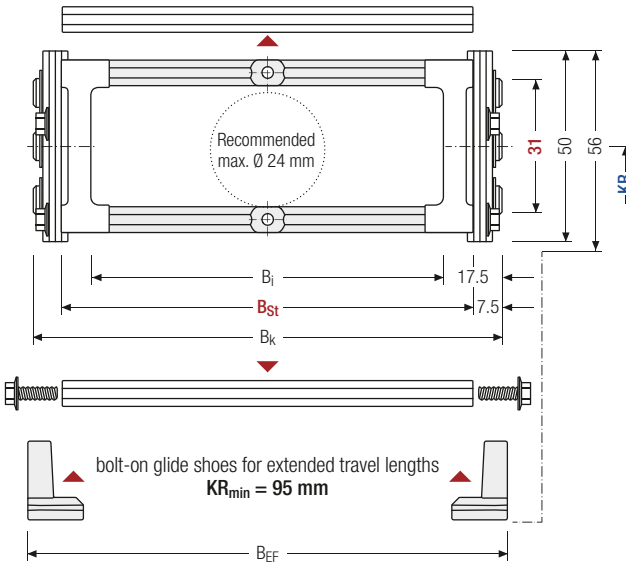
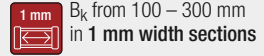


Key for abbreviations on page 12

Design guidelines from page 38

Technical support: [technik@kabelschlepp.de](mailto:technik@kabelschlepp.de)

[online-engineer.de](http://online-engineer.de)  
Cable Carrier Configurator



**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<sub>k</sub>

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

Cable carrier length L<sub>k</sub> rounded to pitch t for odd number of chain links

h <sub>i</sub> [mm]	h <sub>G</sub> [mm]	h <sub>G'</sub> [mm]	B <sub>i</sub> [mm]	B <sub>St</sub> [mm]*	B <sub>k</sub> [mm]	B <sub>EF</sub> [mm]	KR [mm]				q <sub>k</sub> [kg/m]		
31	50	56	65 265	85 285	B <sub>i</sub> + 35	B <sub>i</sub> + 40	75	95	115	125	135	145	3.95
							155	175	200	250	300		4.82

\* in 1 mm width sections

### Order example

SX0650 · 
 180 · 
 RS 1 · 
 135 · 
 St · 
 1430 · 
 HS  
 Type      B<sub>St</sub> [mm]      Stay variant      KR [mm]      Material      L<sub>k</sub> [mm]      Stay arrangement

Our technical support can provide help for gliding arrangements: [technik@kabelschlepp.de](mailto:technik@kabelschlepp.de)

## Divider systems

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

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

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**).

Inner heights



Chain widths



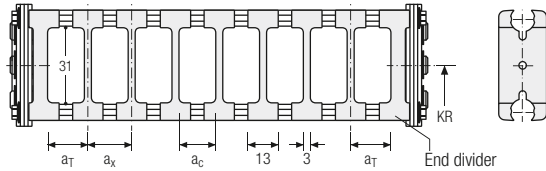
Increments



## 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	–

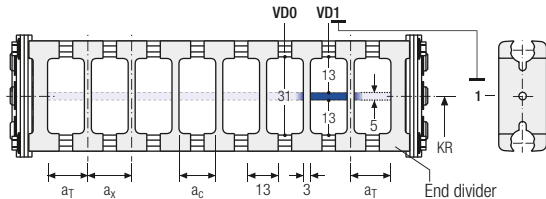
The dividers can be moved in the cross section.



## Divider system TS1 with continuous height separation

Vers.	$a_T$ min [mm]	$a_T$ max [mm]	$a_x$ min [mm]	$a_c$ min [mm]	$n_T$ min
A	11.5	40	13	10	2

The dividers can be moved in the cross section.



## Order example

TS1 · 
 A · 
 3 - 
 V D 0  
 ⋮  
 - V D 1

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.

## Aluminum stay RS 2 – frame stay standard, 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.



Key for abbreviations  
on page 12

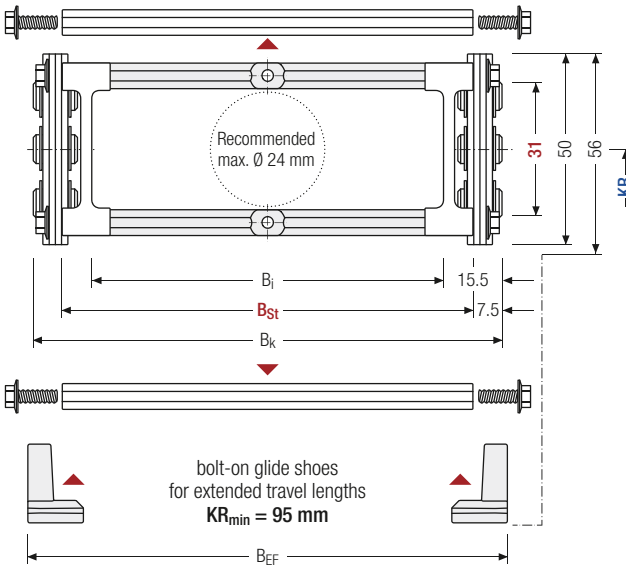
Design guidelines  
from page 38

Technical support:  
technik@kabelschlepp.de

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

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

**1 mm** B<sub>k</sub> 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<sub>k</sub>

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

Cable carrier length L<sub>k</sub> rounded to pitch t for odd number of chain links

h <sub>i</sub> [mm]	h <sub>G</sub> [mm]	h <sub>G'</sub> [mm]	B <sub>i</sub> [mm]	B <sub>St</sub> [mm]*	B <sub>k</sub> [mm]	B <sub>EF</sub> [mm]	KR [mm]						q <sub>k</sub> [kg/m]
31	50	56	69 – 369	85 – 385	B <sub>i</sub> + 31	B <sub>i</sub> + 36	75	95	115	125	135	145	3.95
							155	175	200	250	300		5.25

\* in 1 mm width sections

### Order example

SX0650 · 
 180 · 
 RS 2 · 
 135 · 
 St · 
 1430 · 
 HS

Type      B<sub>St</sub> [mm]      Stay variant      KR [mm]      Material      L<sub>k</sub> [mm]      Stay arrangement

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Divider systems

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

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

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**).

Inner heights



Chain widths



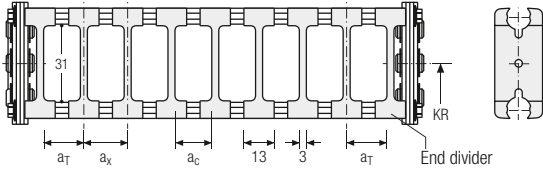
Increments



Divider system TS0 without height separation

Vers.	a <sub>T</sub> min [mm]	a <sub>x</sub> min [mm]	a <sub>c</sub> min [mm]	n <sub>T</sub> min
A	11.5	13	10	–

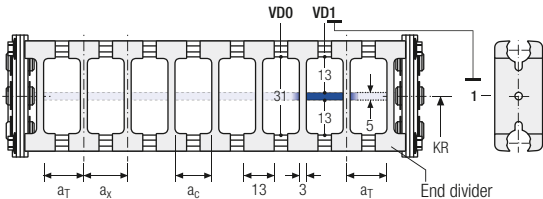
The dividers can be moved in the cross section.



Divider system TS1 with continuous height separation

Vers.	a <sub>T</sub> min [mm]	a <sub>T</sub> max [mm]	a <sub>x</sub> min [mm]	a <sub>c</sub> min [mm]	n <sub>T</sub> min
A	11.5	40	13	10	2

The dividers can be moved in the cross section.



Order example

TS1 · 
 A · 
 3 - 
 V D0  
 ⋮  
 - V D1

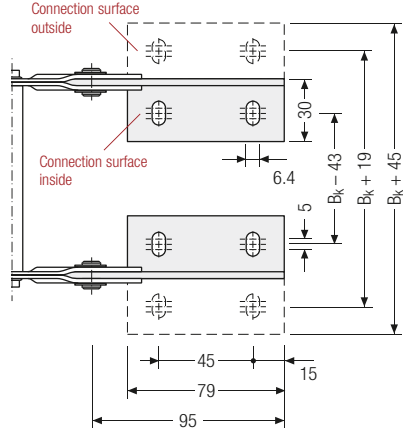
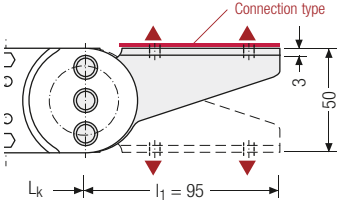
Divider system
Version
n<sub>T</sub>
Height separation

Please state the designation of the divider system (**TS0, TS1 ...**), version and number of dividers per cross section [n<sub>T</sub>].

If using divider systems with height separation (**TS1**) please also state the positions [e.g. V D1] viewed from the left driver belt. You are welcome to add a sketch to your order.

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

Key for abbreviations on page 12

Design guidelines from page 38

Technical support: technik@kabelschlepp.de

Connection point

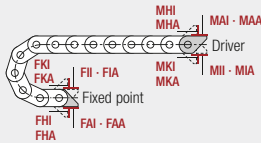
- F – fixed point
- M – driver

Connection surface

- I – connection surface inside
- A – connection surface outside

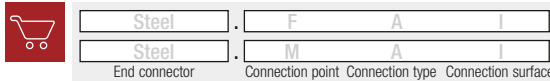
Connection type

- 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



**Caution:** The standard connection variant FAI/MAI is only possible from B<sub>k</sub> of 70 mm.

Order example



**Caution:** We recommend the use of strain reliefs before driver and fixed point. See from p. 706.

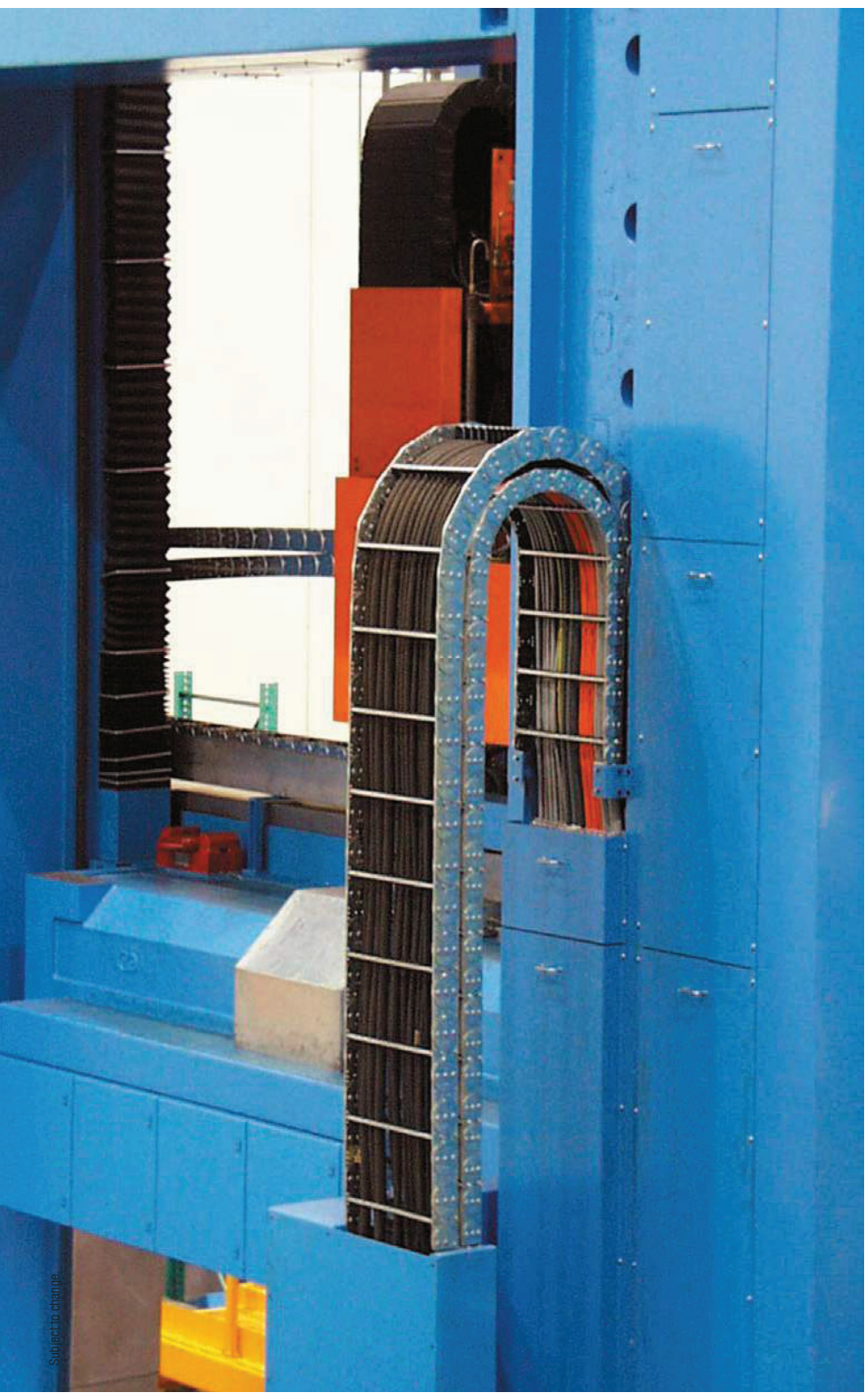
More product information online



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



Configure your custom cable carrier here: [onlineengineer.de](http://onlineengineer.de)



S/SX series

Inner heights



Chain widths

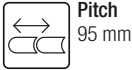


[tsubaki-kabelschlepp.com/s-sx](http://tsubaki-kabelschlepp.com/s-sx)



# S/SX0950

Key for abbreviations  
on page 12



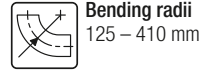
Pitch  
95 mm



Inner heights  
43 – 46 mm



Chain widths  
125 – 600 mm



Bending radii  
125 – 410 mm

Design guidelines  
from page 38



**Aluminum stay RS 1** ..... page 564

### Standard frame stay “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 566

### Frame stay standard, bolted

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



**Aluminum stay RM** ..... page 568

### 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.



### 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. 614.

Technical support:  
technik@kabelschlepp.de

## Additional stay variants on request



**Aluminum stay RR**  
Gentle cable guiding  
with rollers.

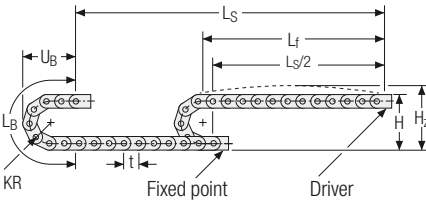


**Aluminum stay LG**  
Optimum cable routing in  
the neutral bending line.



**Aluminum stay RMR**  
Gentle cable guiding  
with rollers.

Unsupported arrangement



KR [mm]	H [mm]	H <sub>z</sub> [mm]	L <sub>B</sub> [mm]	U <sub>B</sub> [mm]
125	352	362	773	350
140	382	392	820	365
170	442	452	914	395
200	502	512	1008	425
260	622	632	1197	485
290	682	692	1291	515
320	742	752	1385	545
350	802	812	1480	575
410	922	932	1668	635

Inner heights

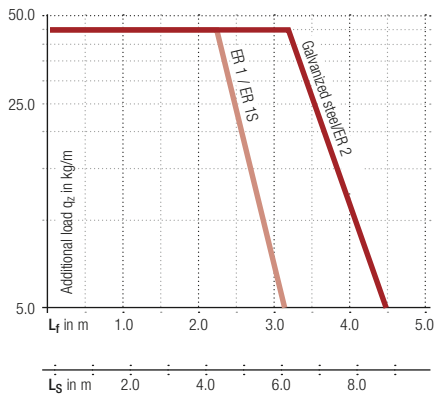


Chain widths



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.



**Velocity**  
up to 2.5 m/s

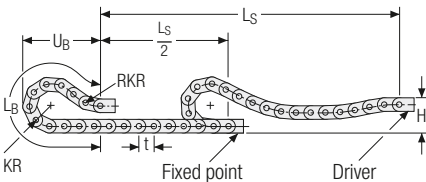
**Acceleration**  
up to 5 m/s<sup>2</sup>

**Travel length**  
up to 8.8 m

**Additional load**  
up to 45 kg/m

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Gliding arrangement



Glide shoes have to be used for gliding applications. The gliding cable carrier has to be routed in a channel. See p. 654.

**Velocity**  
up to 1 m/s

**Acceleration**  
up to 2 m/s<sup>2</sup>

**Travel length**  
on request

**Additional load**  
up to 45 kg/m

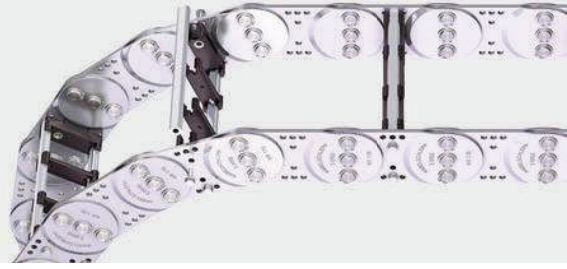
Subject to change.



Our technical support can provide help for gliding arrangements:  
[technik@kabelschlepp.de](mailto:technik@kabelschlepp.de)

## Aluminum stay RS 1 – standard frame stay

- 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



Key for abbreviations on page 12

Design guidelines from page 38

Technical support: technik@kabelschlepp.de

online-engineer.de  
Cable Carrier Configurator



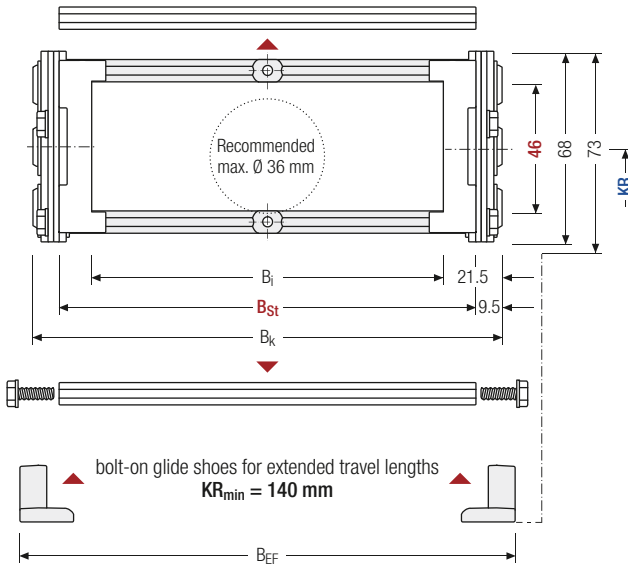
Stay arrangement on every 2<sup>nd</sup> chain link, standard (HS: half-stayed)



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



**1 mm** B<sub>k</sub> 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<sub>k</sub>

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

Cable carrier length L<sub>k</sub> rounded to pitch t for odd number of chain links

h <sub>i</sub> [mm]	h <sub>G</sub> [mm]	h <sub>G'</sub> [mm]	B <sub>i</sub> [mm]	B <sub>St</sub> [mm]*	B <sub>k</sub> [mm]	B <sub>EF</sub> [mm]	KR [mm]					q <sub>k</sub> [kg/m]
46	68	73	107 257	131 281	B <sub>i</sub> + 43	B <sub>i</sub> + 52	125	140	170	200	260	7.55
							290	320	350	410	7.95	

\* in 1 mm width sections

### Order example



SX0950 - 150 - RS 1 - 200 - St - 2375 - HS  
Type B<sub>St</sub> [mm] Stay variant KR [mm] Material L<sub>k</sub> [mm] Stay arrangement

Our technical support can provide help for gliding arrangements: [technik@kabelschlepp.de](mailto:technik@kabelschlepp.de)

Divider systems

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

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

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**).

Inner heights

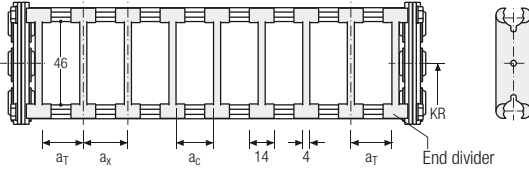
Chain widths

Increments

Divider system TS0 without height separation

Vers.	a <sub>T</sub> min [mm]	a <sub>X</sub> min [mm]	a <sub>C</sub> min [mm]	n <sub>T</sub> min
A	12	14	10	–

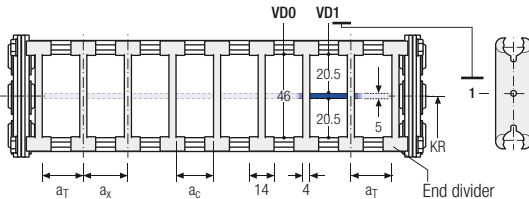
The dividers can be moved in the cross section.



Divider system TS1 with continuous height separation

Vers.	a <sub>T</sub> min [mm]	a <sub>T</sub> max [mm]	a <sub>X</sub> min [mm]	a <sub>C</sub> min [mm]	n <sub>T</sub> min
A	12	25	14	10	2

The dividers can be moved in the cross section.



Order example

TS1 . A . 3 - VDO  
VD1  
 Divider system      Version      n<sub>T</sub>      Height separation

Please state the designation of the divider system (**TS0, TS1 ...**), version and number of dividers per cross section [n<sub>T</sub>].

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.

# S/SX0950 RS 2 | Dimensions · Technical data

## Aluminum stay RS 2 – frame stay standard, 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.




Key for abbreviations  
on page 12


Design guidelines  
from page 38

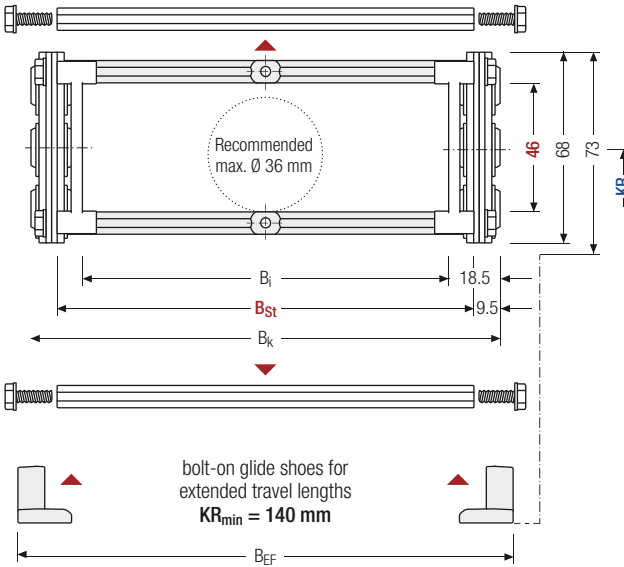
Technical support:  
technik@kabelschlepp.de


online-engineer.de  
Cable Carrier Configurator

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

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

 **1 mm** B<sub>k</sub> 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<sub>k</sub>


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

Cable carrier length L<sub>k</sub> rounded to pitch t for odd number of chain links

h <sub>i</sub> [mm]	h <sub>G</sub> [mm]	h <sub>G'</sub> [mm]	B <sub>i</sub> [mm]	B <sub>St</sub> [mm]*	B <sub>k</sub> [mm]	B <sub>EF</sub> [mm]	KR [mm]					q <sub>k</sub> [kg/m]
46	68	73	113	131	B <sub>i</sub> + 37	B <sub>i</sub> + 46	125	140	170	200	260	7.55
			363	381			290	320	350	410	8.21	

\* in 1 mm width sections

### Order example


SX0950 · 
 150 · 
 RS 2 · 
 200 · 
 St · 
 2375 · 
 HS  
 Type      B<sub>St</sub> [mm]      Stay variant      KR [mm]      Material      L<sub>k</sub> [mm]      Stay arrangement

Our technical support can provide help for gliding arrangements: [technik@kabelschlepp.de](mailto:technik@kabelschlepp.de)

Divider systems

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

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

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**).

Inner heights



Chain widths



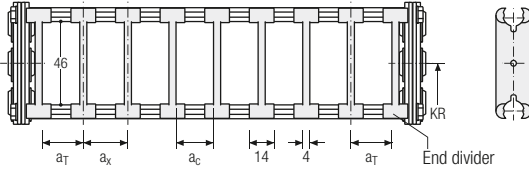
Increments



Divider system TS0 without height separation

Vers.	a <sub>T</sub> min [mm]	a <sub>x</sub> min [mm]	a <sub>c</sub> min [mm]	n <sub>T</sub> min
A	12	14	10	–

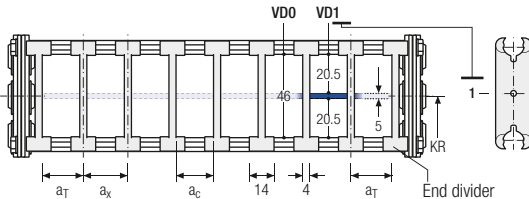
The dividers can be moved in the cross section.



Divider system TS1 with continuous height separation

Vers.	a <sub>T</sub> min [mm]	a <sub>T</sub> max [mm]	a <sub>x</sub> min [mm]	a <sub>c</sub> min [mm]	n <sub>T</sub> min
A	12	25	14	10	2

The dividers can be moved in the cross section.



Order example

TS1 · 
 A · 
 3 - 
 VDO  
 ⋮  
 - VD1

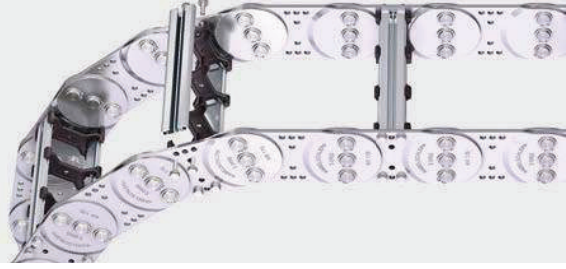
Divider system
Version
n<sub>T</sub>
Height separation

Please state the designation of the divider system (**TS0, TS1 ...**), version and number of dividers per cross section [n<sub>T</sub>].

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.

## 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.



Key for abbreviations on page 12

Design guidelines from page 38

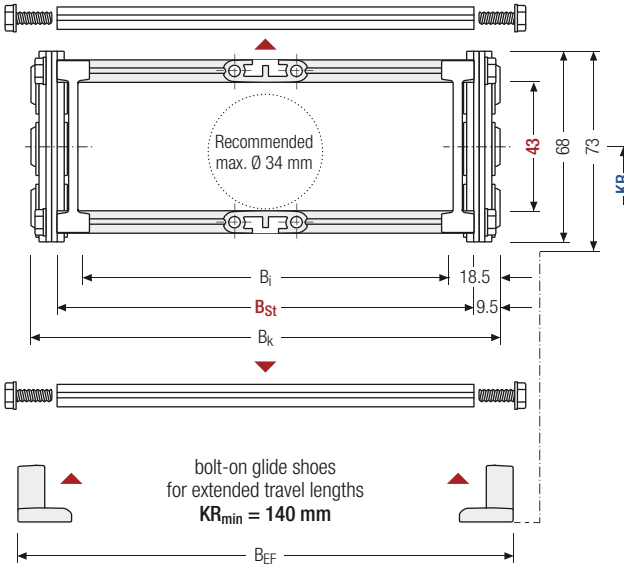
Technical support: technik@kabelschlepp.de

online-engineer.de  
Cable Carrier Configurator

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

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

1 mm B<sub>k</sub> from 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<sub>k</sub>

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

Cable carrier length L<sub>k</sub> rounded to pitch t for odd number of chain links

h <sub>i</sub> [mm]	h <sub>G</sub> [mm]	h <sub>G'</sub> [mm]	B <sub>i</sub> [mm]	B <sub>St</sub> [mm]*	B <sub>k</sub> [mm]	B <sub>EF</sub> [mm]	KR [mm]					q <sub>k</sub> [kg/m]
43	68	73	88	106	B <sub>i</sub> + 37	B <sub>i</sub> + 46	125	140	170	200	260	7.78
			563	581			290	320	350	410	10.68	

\* in 1 mm width sections

### Order example

SX0950 · 
 150 · 
 RM · 
 200 · 
 St · 
 2375 · 
 HS  
 Type      B<sub>St</sub> [mm]      Stay variant      KR [mm]      Material      L<sub>k</sub> [mm]      Stay arrangement

Our technical support can provide help for gliding arrangements: [technik@kabelschlepp.de](mailto:technik@kabelschlepp.de)

Divider systems

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

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

Inner heights



Chain widths



Increments

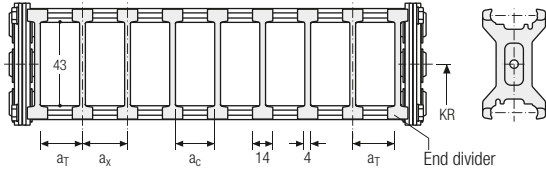


tsubaki-kabelschlepp.com/s-sx

Divider system TS0 without height separation

Vers.	a <sub>T</sub> min [mm]	a <sub>x</sub> min [mm]	a <sub>c</sub> min [mm]	n <sub>T</sub> min
A	10	14	10	–

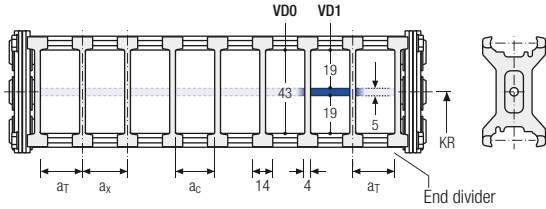
The dividers can be moved in the cross section.



Divider system TS1 with continuous height separation

Vers.	a <sub>T</sub> min [mm]	a <sub>T</sub> max [mm]	a <sub>x</sub> min [mm]	a <sub>c</sub> min [mm]	n <sub>T</sub> min
A	10	25	14	10	2

The dividers can be moved in the cross section.



Order example

TS1 · 
 A · 
 3 - 
 V0  
 ⋮  
 - V1

Divider system
Version
n<sub>T</sub>
Height separation

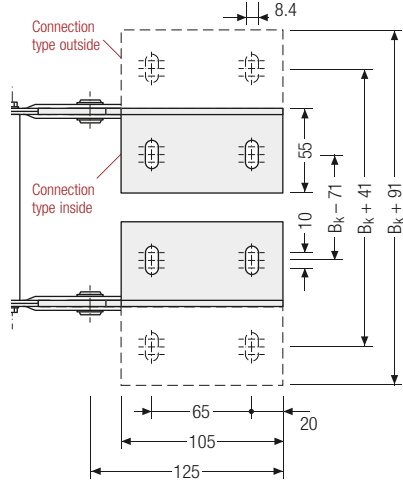
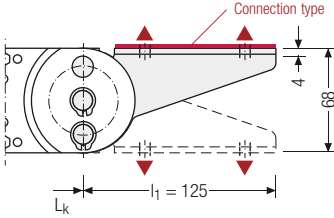
Please state the designation of the divider system (**TS0, TS1 ...**), version and number of dividers per cross section [n<sub>T</sub>].

If using divider systems with height separation (**TS1**) please also state the positions [e.g. V0, V1] viewed from the left driver belt. You are welcome to add a sketch to your order.



## 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

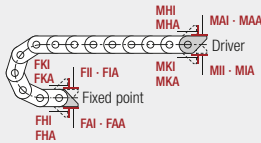
- F – fixed point
- M – driver

### Connection surface

- I – connection surface inside
- A – connection surface outside

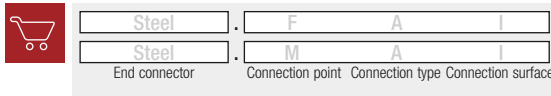
### Connection type

- 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



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

## Order example



**Caution:** We recommend the use of strain reliefs before driver and fixed point. See from p. 706.

## More product information online



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



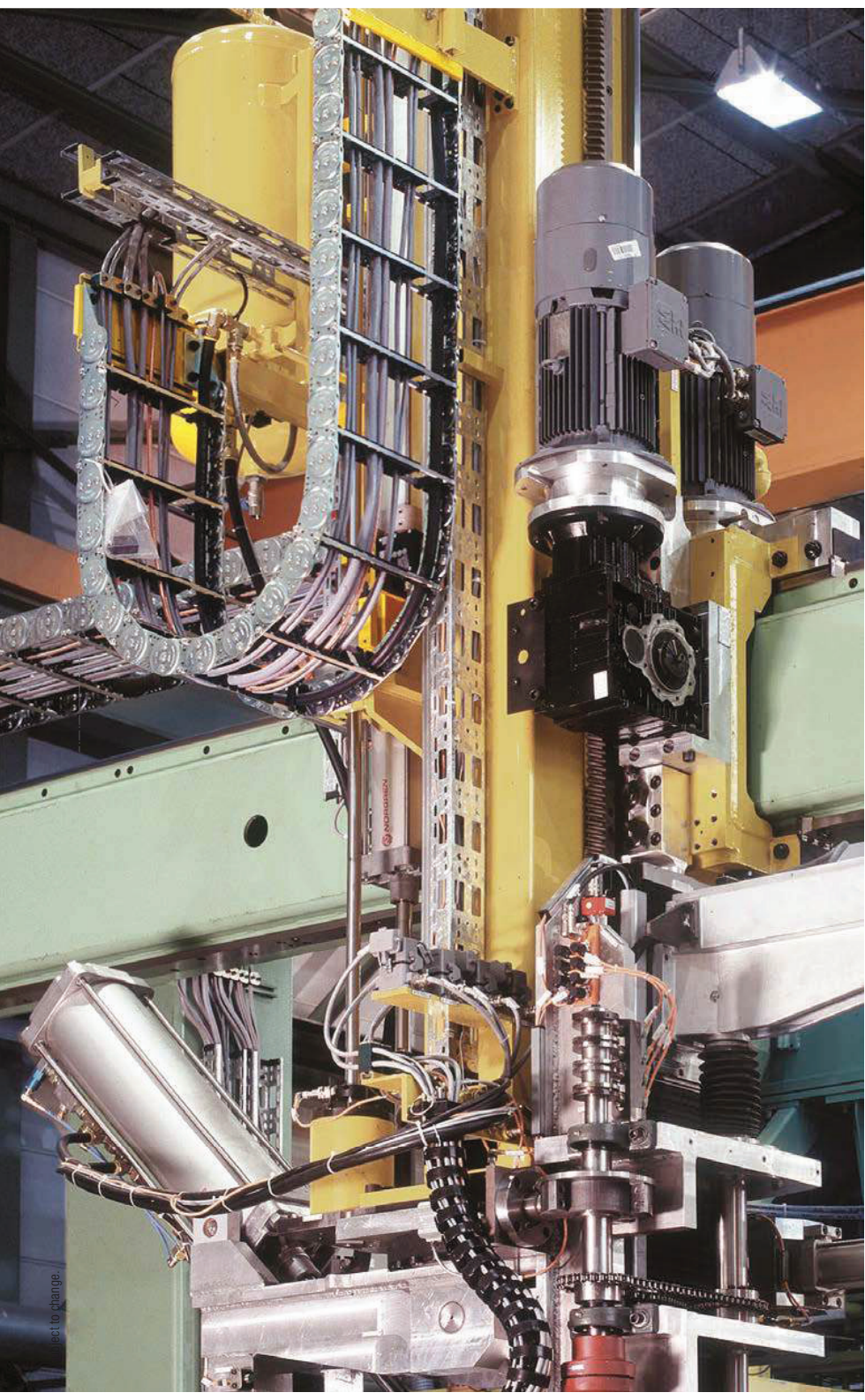
Configure your custom  
cable carrier here:  
[onlineengineer.de](http://onlineengineer.de)

Key for abbreviations  
on page 12

Design guidelines  
from page 38

Technical support:  
[technik@kabelschlepp.de](mailto:technik@kabelschlepp.de)

[online-engineer.de](http://online-engineer.de)  
Cable Carrier Configurator



S/SX series

Inner heights



Chain widths



[tsubaki-kabelschlepp.com/s-sx](http://tsubaki-kabelschlepp.com/s-sx)

easy to change

# S/SX1250



Pitch  
125 mm



Inner heights  
69 – 72 mm



Chain widths  
200 – 800 mm



Bending radii  
145 – 1000 mm

Key for abbreviations  
on page 12

Design guidelines  
from page 38

Technical support:  
technik@kabelschlepp.de

online-engineer.de  
Cable Carrier Configurator

## Stay variants



**Aluminum stay RS 1** ..... page 574

### Standard frame stay “The standard”

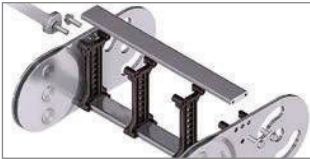
- Aluminum profile bars for light to medium loads.
- **Outside:** release by turning by 90°.
- **Inside:** Threaded joints easy to release.



**Aluminum stay RS 2** ..... page 576

### Frame stay standard, bolted

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



**Aluminum stay RV** ..... page 578

### 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 582

### 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.

## Additional stay variants on request



**Aluminum stay RR**  
Gentle cable guiding  
with rollers.



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

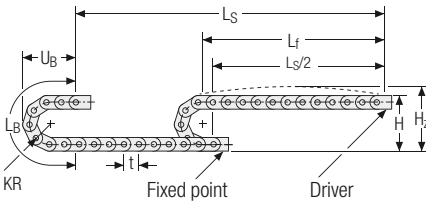


**Aluminum stay RMA**  
For guiding very large  
cable diameters



**Aluminum stay RMR**  
Gentle cable guiding  
with rollers.

## Unsupported arrangement



KR [mm]	H [mm]	H <sub>2</sub> [mm]	L <sub>B</sub> [mm]	U <sub>B</sub> [mm]
145	431	441	955	442
200	541	551	1128	497
220	581	591	1191	517
260	661	671	1317	557
300	741	751	1442	597
340	821	831	1568	637
380	901	911	1694	677
420	981	991	1820	717
460	1061	1071	1945	757
500	1141	1151	2071	797
540	1221	1231	2196	837
600	1341	1351	2385	897
1000	2141	2151	3640	1297

Inner heights

69  
72

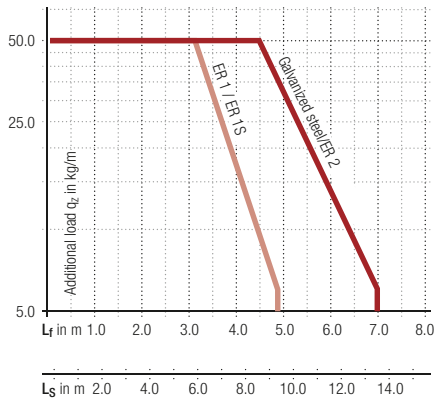
Chain widths

200  
800

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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.



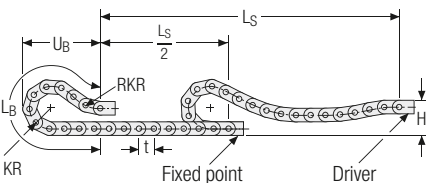
 **Velocity**  
up to 2.5 m/s

 **Acceleration**  
up to 5 m/s<sup>2</sup>

 **Travel length**  
up to 13.5 m

 **Additional load**  
up to 50 kg/m

## Gliding arrangement



Glide shoes have to be used for gliding applications.

The gliding cable carrier has to be routed in a channel. See p. 654.

 **Velocity**  
up to 1 m/s

 **Acceleration**  
up to 2 m/s<sup>2</sup>

 **Travel length**  
on request

 **Additional load**  
up to 50 kg/m



# S/SX1250 RS 1 | Dimensions · Technical data

## Aluminum stay RS 1 – standard frame stay

- 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.



Key for abbreviations on page 12

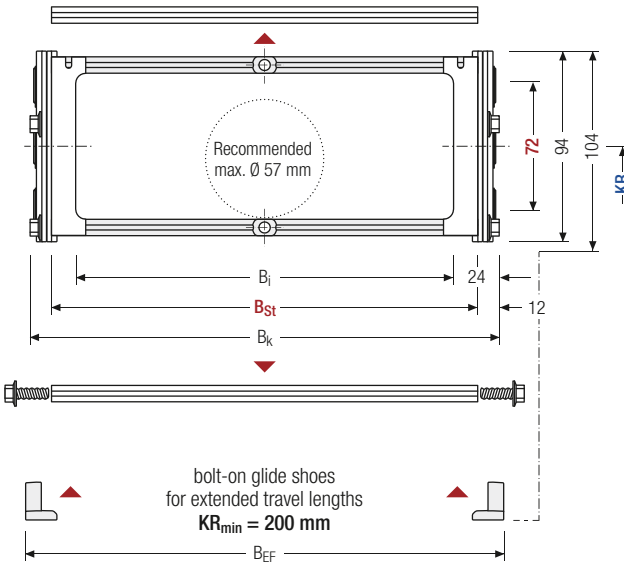
Design guidelines from page 38

Technical support: [technik@kabelschlepp.de](mailto:technik@kabelschlepp.de)

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

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

**1 mm** B<sub>k</sub> 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<sub>k</sub>

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

Cable carrier length L<sub>k</sub> rounded to pitch t for odd number of chain links

h <sub>i</sub> [mm]	h <sub>G</sub> [mm]	h <sub>G'</sub> [mm]	B <sub>i</sub> [mm]	B <sub>St</sub> [mm]*	B <sub>k</sub> [mm]	B <sub>EF</sub> [mm]	KR [mm]						q <sub>k</sub> [kg/m]	
72	94	104	152 352	176 376	B <sub>i</sub> + 48	B <sub>i</sub> + 54	145	200	220	260	300	340	380	12,88
							420	460	500	540	600	1000		13,43

\* in 1 mm width sections

### Order example

SX1250 · 
 400 · 
 RS 1 · 
 200 · 
 St · 
 4750 · 
 HS

Type      B<sub>St</sub> [mm]      Stay variant      KR [mm]      Material      L<sub>k</sub> [mm]      Stay arrangement

Our technical support can provide help for gliding arrangements: [technik@kabelschlepp.de](mailto:technik@kabelschlepp.de)

Divider systems

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

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

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**).

Inner heights



72

Chain widths



200  
400

Increments

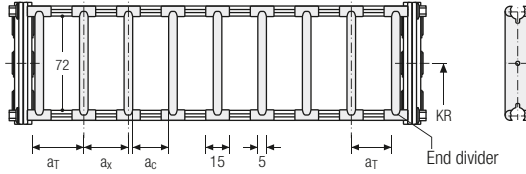


1 mm

Divider system TS0 without height separation

Vers.	a <sub>T</sub> min [mm]	a <sub>x</sub> min [mm]	a <sub>c</sub> min [mm]	n <sub>T</sub> min
A	12.5	15	10	–

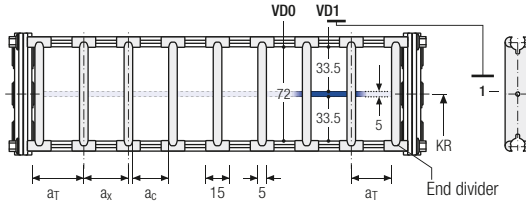
The dividers can be moved in the cross section.




Divider system TS1 with continuous height separation

Vers.	a <sub>T</sub> min [mm]	a <sub>T</sub> max [mm]	a <sub>x</sub> min [mm]	a <sub>c</sub> min [mm]	n <sub>T</sub> min
A	12.5	25	15	10	2

The dividers can be moved in the cross section.



Order example



TS1 · 
 A · 
 3 - 
 V D0  
 ⋮  
 - V D1

Divider system      Version      n<sub>T</sub>      Height separation

Please state the designation of the divider system (**TS0, TS1 ...**), version and number of dividers per cross section [n<sub>T</sub>].

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.


# S/SX1250 RS 2 | Dimensions · Technical data

## Aluminum stay RS 2 – frame stay standard, 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.



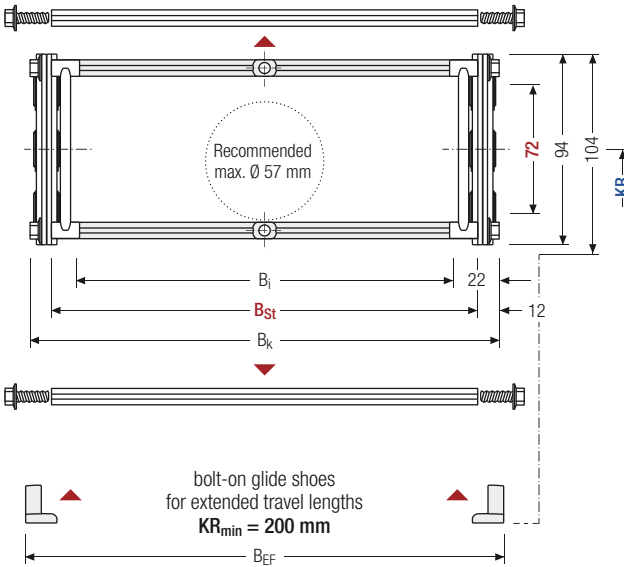
Key for abbreviations  
on page 12


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

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

 **1 mm** B<sub>k</sub> from 200 – 500 mm  
in **1 mm width sections**

Design guidelines  
from page 38



 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<sub>k</sub>

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


Cable carrier length L<sub>k</sub> rounded to pitch t for odd number of chain links

Technical support:  
[technik@kabelschlepp.de](mailto:technik@kabelschlepp.de)

h <sub>i</sub> [mm]	h <sub>G</sub> [mm]	h <sub>G'</sub> [mm]	B <sub>i</sub> [mm]	B <sub>St</sub> [mm]*	B <sub>k</sub> [mm]	B <sub>EF</sub> [mm]	KR [mm]				q <sub>k</sub> [kg/m]			
72	94	104	156 456	176 476	B <sub>i</sub> + 44	B <sub>i</sub> + 50	145 420	200 460	220 500	260 540	300 600	340 1000	380 13.71	12.88

\* in 1 mm width sections

### Order example


SX1250 · 
 400 · 
 RS 2 · 
 200 · 
 St · 
 4750 · 
 HS  
 Type      B<sub>St</sub> [mm]      Stay variant      KR [mm]      Material      L<sub>k</sub> [mm]      Stay arrangement

Our technical support can provide help for gliding arrangements: [technik@kabelschlepp.de](mailto:technik@kabelschlepp.de)

Divider systems

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

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

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**).

Inner heights



Chain widths



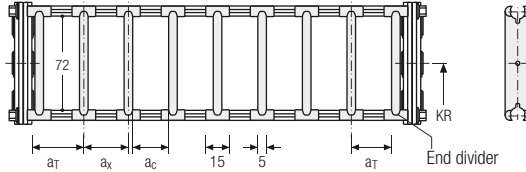
Increments



Divider system TS0 without height separation

Vers.	a <sub>T</sub> min [mm]	a <sub>x</sub> min [mm]	a <sub>c</sub> min [mm]	n <sub>T</sub> min
A	12.5	15	10	–

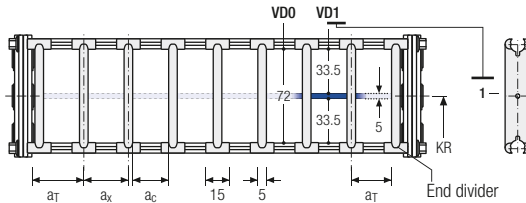
The dividers can be moved in the cross section.



Divider system TS1 with continuous height separation

Vers.	a <sub>T</sub> min [mm]	a <sub>T</sub> max [mm]	a <sub>x</sub> min [mm]	a <sub>c</sub> min [mm]	n <sub>T</sub> min
A	12.5	25	15	10	2

The dividers can be moved in the cross section.



Order example

TS1 · 
 A · 
 3 - 
 V D0  
 ⋮  
 - V D1

Divider system
Version
n<sub>T</sub>
Height separation

Please state the designation of the divider system (**TS0, TS1 ...**), version and number of dividers per cross section [n<sub>T</sub>].

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.



# S/SX1250 RV | Dimensions · Technical data

## Aluminum stay RV – reinforced frame stay

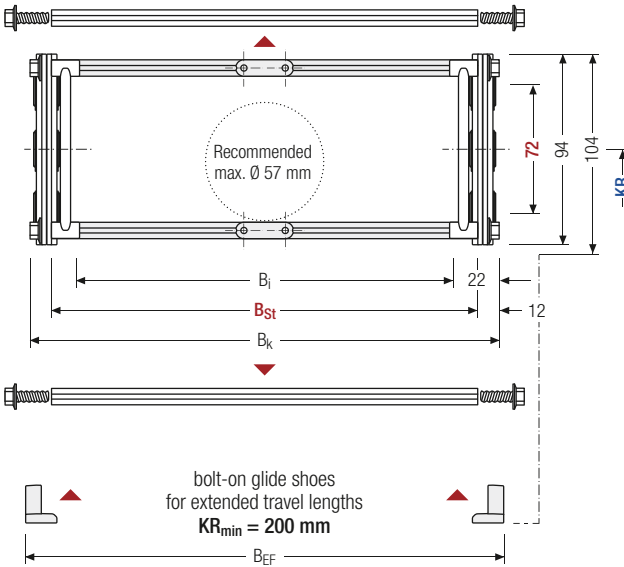
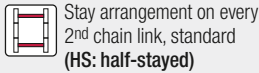
- Aluminum profile bars for medium to heavy loads and large cable carrier widths. Double threaded joint on both sides.
- Available customized in **1 mm grid**.
- **Inside/outside:** Threaded joints easy to release.



Key for abbreviations on page 12

Design guidelines from page 38

Technical support: technik@kabelschlepp.de



**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<sub>k</sub>

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

Cable carrier length L<sub>k</sub> rounded to pitch t for odd number of chain links

h <sub>I</sub> [mm]	h <sub>G</sub> [mm]	h <sub>G'</sub> [mm]	B <sub>i</sub> [mm]	B <sub>St</sub> [mm]*	B <sub>k</sub> [mm]	B <sub>EF</sub> [mm]	KR [mm]						q <sub>k</sub> [kg/m]	
72	94	104	154 554	176 576	B <sub>i</sub> + 46	B <sub>i</sub> + 52	145	200	220	260	300	340	380	13.83
							420	460	500	540	600	1000		17.11

\* in 1 mm width sections

### Order example

SX1250 · 
 400 · 
 RV · 
 200 · 
 St · 
 4750 · 
 HS  
 Type      B<sub>St</sub> [mm]      Stay variant      KR [mm]      Material      L<sub>k</sub> [mm]      Stay arrangement


Our technical support can provide help for gliding arrangements: [technik@kabelschlepp.de](mailto:technik@kabelschlepp.de)

Divider systems

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

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

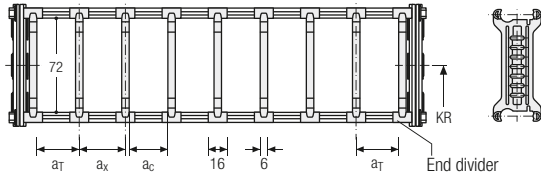
Inner heights



Divider system TS0 without height separation

Vers.	a <sub>T</sub> min [mm]	a <sub>x</sub> min [mm]	a <sub>c</sub> min [mm]	n <sub>T</sub> min
A	13	16	10	–

The dividers can be moved in the cross section.



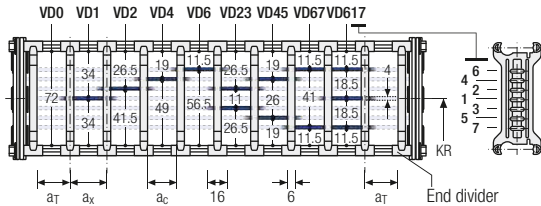
Chain widths



Divider system TS1 with continuous height separation

Vers.	a <sub>T</sub> min [mm]	a <sub>T</sub> max [mm]	a <sub>x</sub> min [mm]	a <sub>c</sub> min [mm]	n <sub>T</sub> min
A	13	25	16	10	2

The dividers can be moved in the cross section.



Increments

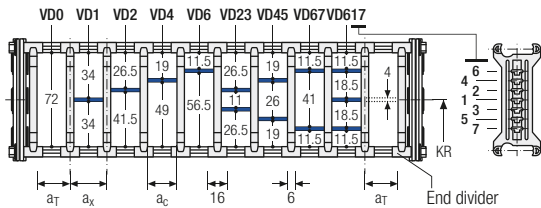


Divider system TS2 with partial height separation

Vers.	a <sub>T</sub> min [mm]	a <sub>x</sub> min [mm]	a <sub>c</sub> min [mm]	n <sub>T</sub> min
A	13	16*/20	10*/14	2

\* For VR0.

With grid distribution (**1 mm grid**). The dividers are attached by the height separation; the grid can be moved in the cross section.



tsubaki-kabelschlepp.com/s-sx

More product information online



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



Configure your custom cable carrier here: [onlineengineer.de](http://onlineengineer.de)

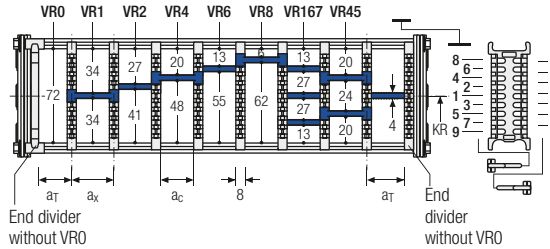
# S/SX1250 RV | Inner distribution | TS3

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

Vers.	a <sub>T</sub> min [mm]	a <sub>x</sub> min [mm]	a <sub>c</sub> min [mm]	n <sub>T</sub> min
A	4	16 / 42*	8	2

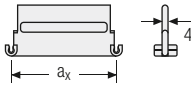
\* For aluminum partitions

The dividers are fixed with the partitions. The entire divider system can be moved in the cross section.



Key for abbreviations on page 12

Design guidelines from page 38



Aluminum partitions with 1 mm width increments with  $a_x > 42$  mm are also available.

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

When using plastic partitions with  $a_x > 112$  mm, we recommend an additional center support 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

VD1

Divider system
Version
n<sub>T</sub>
Chamber
a<sub>x</sub>
Height separation

Please state the designation of the divider system (TS0, TS1,...), the version, and the number of dividers per cross section [n<sub>T</sub>]. In addition, please also enter the chambers [K] from left to right, as well as the assembly distances [a<sub>T</sub>/a<sub>x</sub>].

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

Technical support: technik@kabelschlepp.de

online-engineer.de  
Cable Carrier Configurator

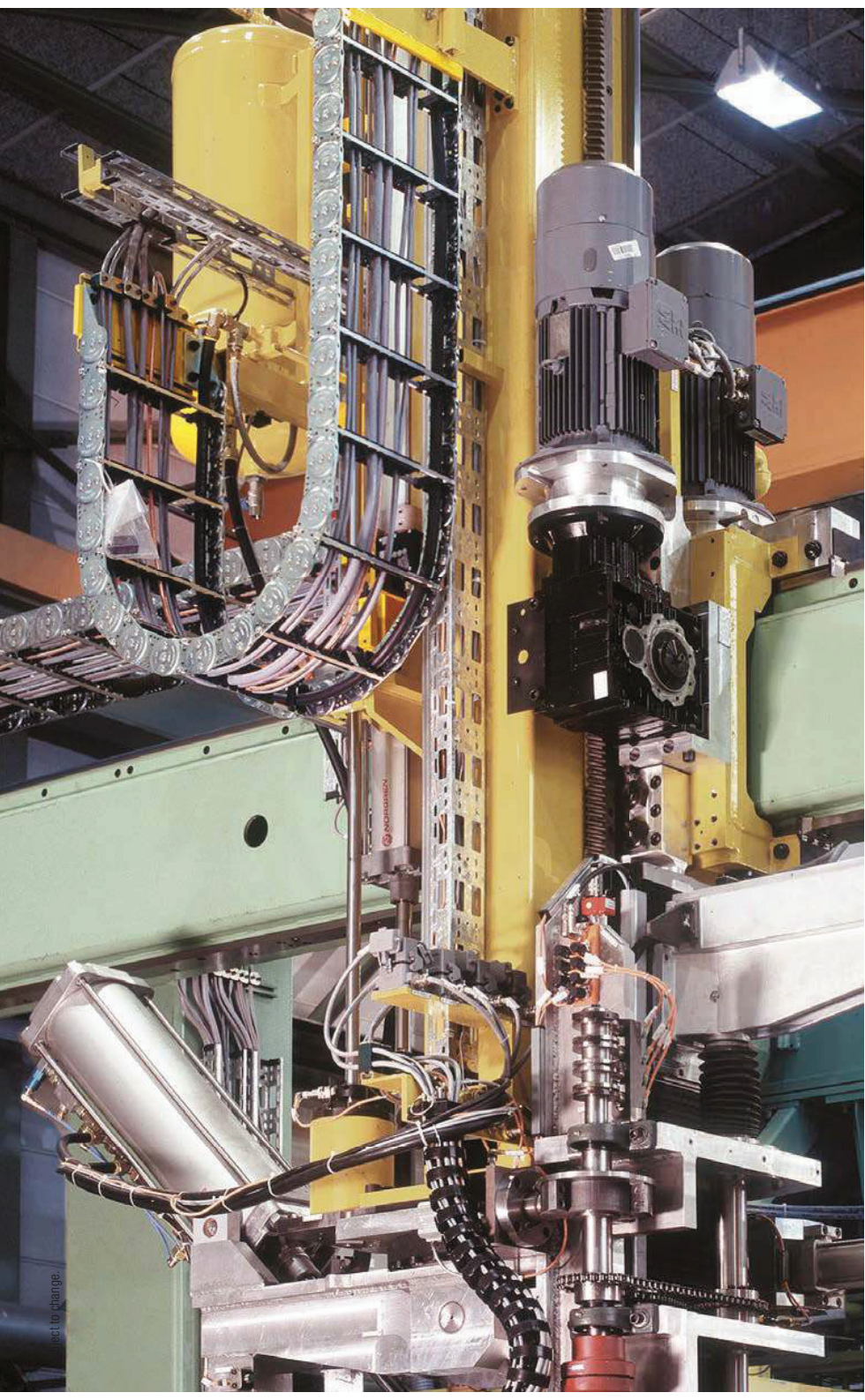
### More product information online



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



Configure your custom cable carrier here: [onlineengineer.de](http://onlineengineer.de)



S/SX series

Inner heights



Chain widths



Increments



[tsubaki-kabelschlepp.com/s-sx](http://tsubaki-kabelschlepp.com/s-sx)

flex to change

## 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.



Key for abbreviations on page 12

Design guidelines from page 38

Technical support: technik@kabelschlepp.de



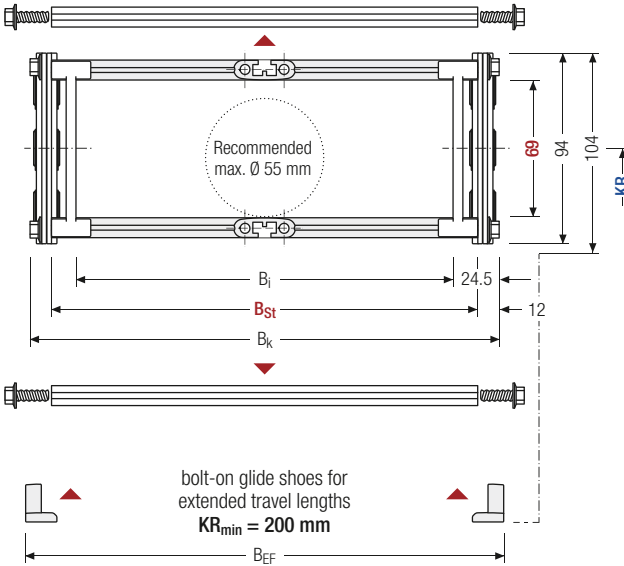
Stay arrangement on every 2<sup>nd</sup> chain link, standard (HS: half-stayed)



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



**1 mm** B<sub>k</sub> 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<sub>k</sub>

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

Cable carrier length L<sub>k</sub> rounded to pitch t for odd number of chain links

h <sub>i</sub> [mm]	h <sub>G</sub> [mm]	h <sub>G'</sub> [mm]	B <sub>i</sub> [mm]	B <sub>St</sub> [mm]*	B <sub>k</sub> [mm]	B <sub>EF</sub> [mm]	KR [mm]						q <sub>k</sub> [kg/m]	
69	94	104	151	176	B <sub>i</sub> + 49	B <sub>i</sub> + 55	145	200	220	260	300	340	380	13.42
			751	776			420	460	500	540	600	1000	17.01	

\* in 1 mm width sections

### Order example

SX1250 · 
 400 · 
 RM · 
 200 · 
 St · 
 4750 · 
 HS  
 Type      B<sub>St</sub> [mm]      Stay variant      KR [mm]      Material      L<sub>k</sub> [mm]      Stay arrangement

Our technical support can provide help for gliding arrangements: [technik@kabelschlepp.de](mailto:technik@kabelschlepp.de)

# S/SX1250 RM | Inner distribution | TS0 · TS1 · TS2

## Divider systems

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

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

Inner heights



Chain widths



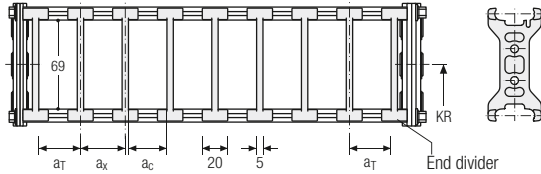
Increments



### Divider system TS0 without height separation

Vers.	a <sub>T</sub> min [mm]	a <sub>x</sub> min [mm]	a <sub>c</sub> min [mm]	n <sub>T</sub> min
A	17.5	20	15	–

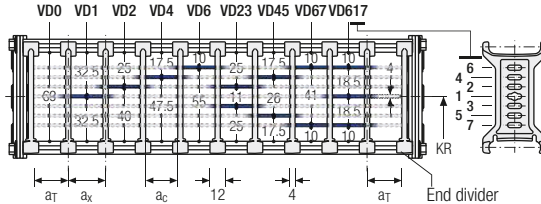
The dividers can be moved in the cross section.



### Divider system TS1 with continuous height separation

Vers.	a <sub>T</sub> min [mm]	a <sub>T</sub> max [mm]	a <sub>x</sub> min [mm]	a <sub>c</sub> min [mm]	n <sub>T</sub> min
A	13.5	25	12	8	2

The dividers can be moved in the cross section.

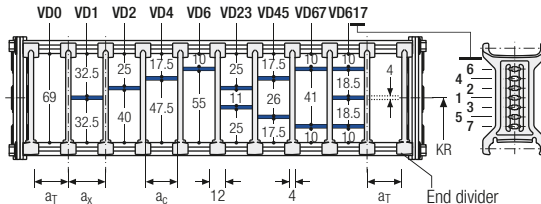


### Divider system TS2 with partial height separation

Vers.	a <sub>T</sub> min [mm]	a <sub>x</sub> min [mm]	a <sub>c</sub> min [mm]	n <sub>T</sub> min
A	11**/14.5	14*/20	14	2

\* For VD0      \*\* For version with height separation to the end divider

With grid distribution (**1 mm grid**).  
The dividers are attached by the height separation; the grid can be moved in the cross section.



### Order example

TS1 · 
 A · 
 3 · 
 K1 · 
 34 - 
 VD1  
 ⋮ ⋮ ⋮  
 · K5 · 
 38 - 
 VD3  
 Divider system      Version      n<sub>T</sub>      Chamber      a<sub>x</sub>      Height separation

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

If using divider systems with height separation (**TS1 – TS2**) please also state the positions [e.g. VD23] as viewed from the left carrier belt. You are welcome to add a sketch to your order.

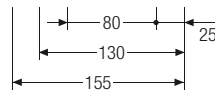
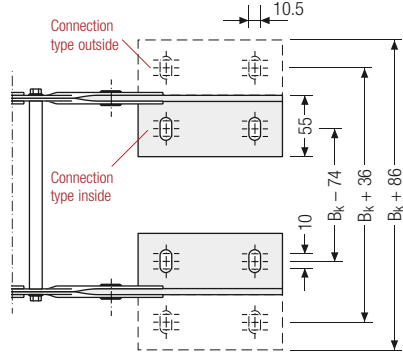
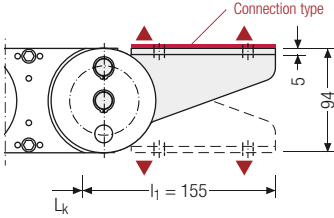
End connectors – steel

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.

Key for abbreviations on page 12

Design guidelines from page 38

Technical support: technik@kabelschlepp.de



▲ Assembly options

Connection point

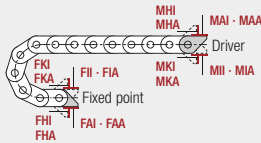
- F – fixed point
- M – driver

Connection surface

- I – connection surface inside
- A – connection surface outside

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



**Caution:** The standard connection variant FAI/MAI is only possible from B<sub>k</sub> of 125 mm.

Order example



**Caution:** We recommend the use of strain reliefs before driver and fixed point. See from p. 706.

More product information online



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



Configure your custom cable carrier here: [onlineengineer.de](http://onlineengineer.de)

## 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.
- The optimized, “self-cleaning” geometry prevents blocking of the stops through dirt.

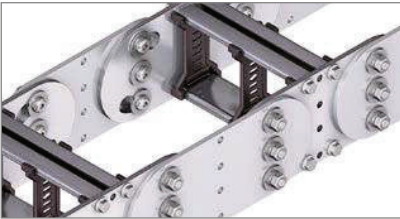
Inner heights



Chain widths



### 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.

Increments



#### 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](http://tsubaki-kabelschlepp.com/totaltrax)



#### TRAXLINE® cables for cable carriers

Hi-flex electric cables which were especially developed, optimized and tested for use in cable carriers can be found at [traxline.de](http://traxline.de)



# S/SX1800

Key for abbreviations  
on page 12



Pitch  
180 mm



Inner height  
108 mm



Chain widths  
250 – 1000 mm



Bending radii  
265 – 1300 mm

## Stay variants



**Aluminum stay RM** ..... page 588

### 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.

Design guidelines  
from page 38

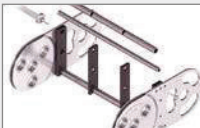


### S/SX tubes

Also available as covered variants with cover system or steel band cover. More information can be found in chapter "S/SX tubes" from p. 614.

Technical support:  
[technik@kabelschlepp.de](mailto:technik@kabelschlepp.de)

## Additional stay variants on request

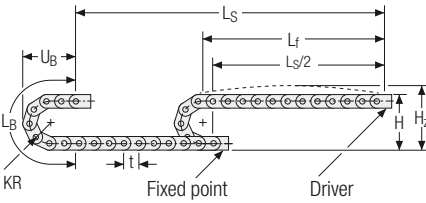


**Aluminum stay RR**  
Gentle cable guiding  
with rollers.



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

## Unsupported arrangement



KR [mm]	H [mm]	L <sub>B</sub> [mm]	U <sub>B</sub> [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

Inner heights

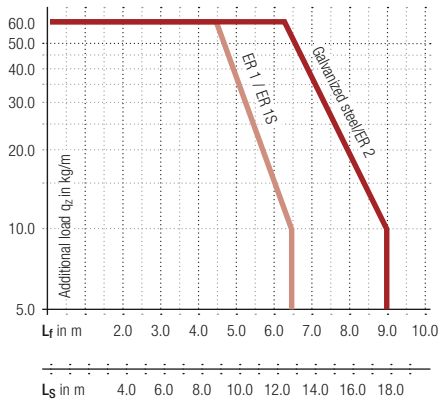


Chain widths

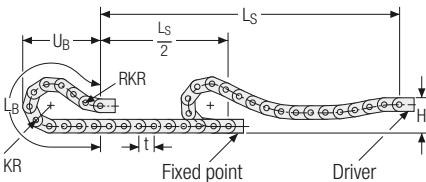


**Load diagram for unsupported length** depending on the additional load.

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



## Gliding arrangement



Glide shoes have to be used for gliding applications. The gliding cable carrier has to be routed in a channel. See p. 654.



## 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



Key for abbreviations  
on page 12

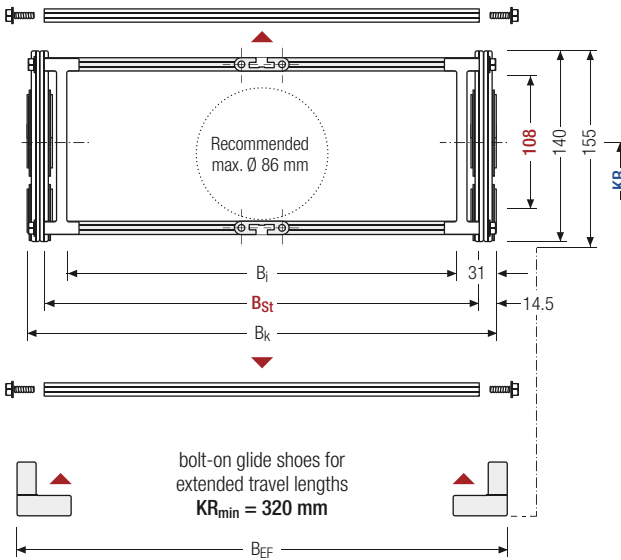
Design guidelines  
from page 38

Technical support:  
technik@kabelschlepp.de

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

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

**1 mm** B<sub>k</sub> 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<sub>k</sub>

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

Cable carrier length L<sub>k</sub> rounded to pitch t for odd number of chain links

h <sub>i</sub> [mm]	h <sub>G</sub> [mm]	h <sub>G'</sub> [mm]	B <sub>i</sub> [mm]	B <sub>St</sub> [mm]*	B <sub>k</sub> [mm]	B <sub>EF</sub> [mm]	KR [mm]					q <sub>k</sub> [kg/m]
108	140	155	188	221	B <sub>i</sub> + 62	B <sub>i</sub> + 73	265	320	375	435	490	24.08
			938	971			605	720	890	1175	1300	28.46

\* in 1 mm width sections

### Order example

SX1800 · 
 417 · 
 RM · 
 375 · 
 St · 
 5940 · 
 HS  
 Type      B<sub>St</sub> [mm]      Stay variant      KR [mm]      Material      L<sub>k</sub> [mm]      Stay arrangement

Our technical support can provide help for gliding arrangements: [technik@kabelschlepp.de](mailto:technik@kabelschlepp.de)

## Divider systems

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

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

Inner heights



Chain widths



Increments

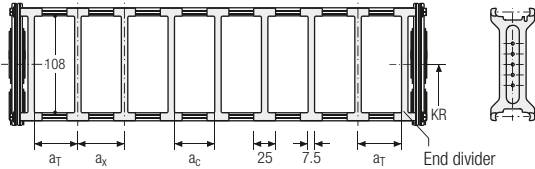


tsubaki-kabelschlepp.com/s-sx

### Divider system TS0 without height separation

Vers.	a <sub>T</sub> min [mm]	a <sub>x</sub> min [mm]	a <sub>c</sub> min [mm]	n <sub>T</sub> min
A	21.5	25	17.5	–

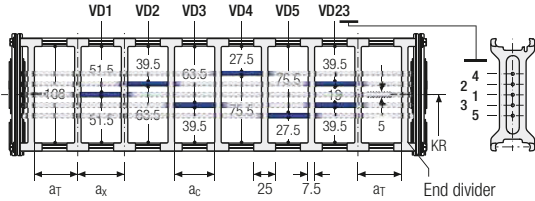
The dividers can be moved in the cross section.



### Divider system TS1 with continuous height separation

Vers.	a <sub>T</sub> min [mm]	a <sub>T</sub> max [mm]	a <sub>x</sub> min [mm]	a <sub>c</sub> min [mm]	n <sub>T</sub> min
A	21.5	25	25	17.5	2

The dividers can be moved in the cross section.

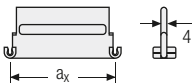
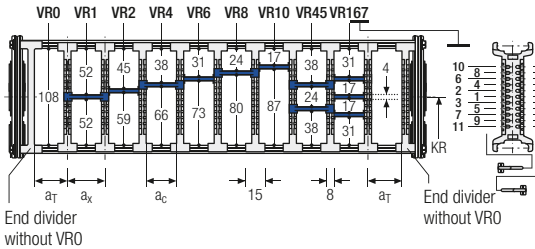


### Divider system TS3 with height separation consisting of plastic partitions

Vers.	a <sub>T</sub> min [mm]	a <sub>x</sub> min [mm]	a <sub>c</sub> min [mm]	n <sub>T</sub> min
A	1	16 / 42*	8	2

\* For aluminum partitions

The dividers are fixed with the partitions. The entire divider system can be moved in the cross section.



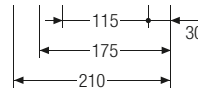
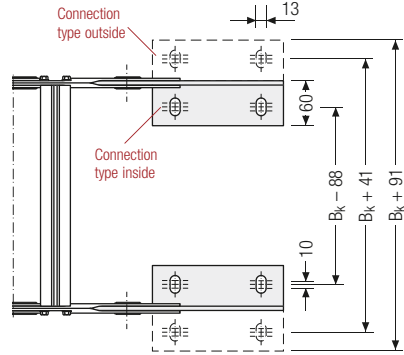
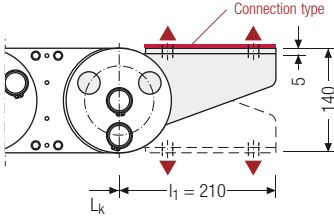
Aluminum partitions with 1 mm width increments with a<sub>x</sub> > 42 mm are also available.

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

When using plastic partitions with a<sub>x</sub> > 112 mm, we recommend an additional center support with a twin divider (S<sub>T</sub> = 4 mm). Twin dividers are also suitable for retrofitting in the partition system.

## 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

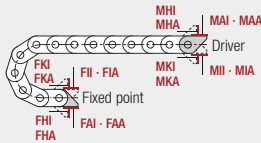
- F – fixed point
- M – driver

### Connection surface

- I – connection surface inside
- A – connection surface outside

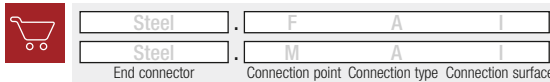
### Connection type

- 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



**Caution:** The standard connection variant FAI/MAI is only possible from B<sub>k</sub> of 139 mm.

## Order example



**Caution:** We recommend the use of strain reliefs before driver and fixed point. See from p. 706.

## More product information online



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



Configure your custom  
cable carrier here:  
[onlineengineer.de](http://onlineengineer.de)

Key for abbreviations  
on page 12

Design guidelines  
from page 38

Technical support:  
[technik@kabelschlepp.de](mailto:technik@kabelschlepp.de)

[online-engineer.de](http://online-engineer.de)  
Cable Carrier Configurator

## 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.
- The optimized, “self-cleaning” geometry prevents blocking of the stops through dirt.

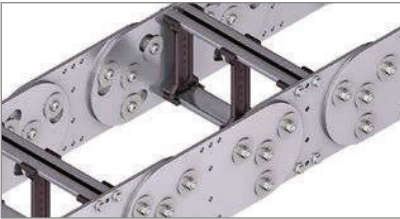
Inner heights



Chain widths



### 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.



#### 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](http://tsubaki-kabelschlepp.com/totaltrax)



#### TRAXLINE® cables for cable carriers

Hi-flex electric cables which were especially developed, optimized and tested for use in cable carriers can be found at [traxline.de](http://traxline.de)

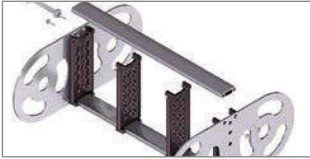
# S/SX2500

Key for abbreviations  
on page 12



## Stay variants

Design guidelines  
from page 38



**Aluminum stay RM** ..... page 594

### 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.



### 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. 614.

Technical support:  
[technik@kabelschlepp.de](mailto:technik@kabelschlepp.de)

## Additional stay variants on request

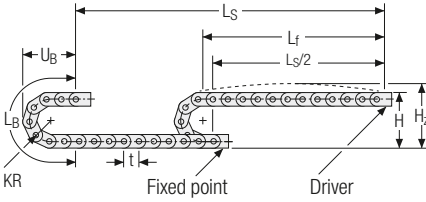


### Aluminum stay LG

Optimum cable routing in the neutral bending line.

# S/SX2500 | Installation dim. | Unsupported

## Unsupported arrangement



KR [mm]	H [mm]	L <sub>B</sub> [mm]	U <sub>B</sub> [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

Inner heights

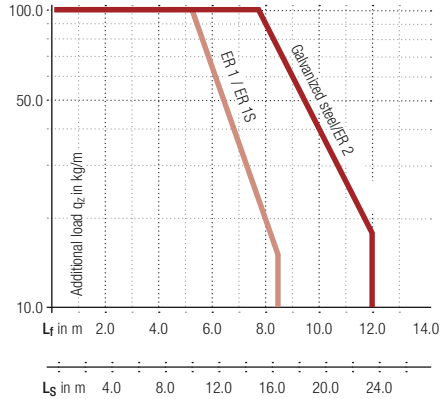


Chain widths



**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.



 **Velocity**  
up to 1 m/s

 **Acceleration**  
up to 3 m/s<sup>2</sup>

 **Travel length**  
up to 23.7 m

 **Additional load**  
up to 100 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 joint easy to release.

**HEAVY DUTY**  
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Key for abbreviations  
on page 12



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

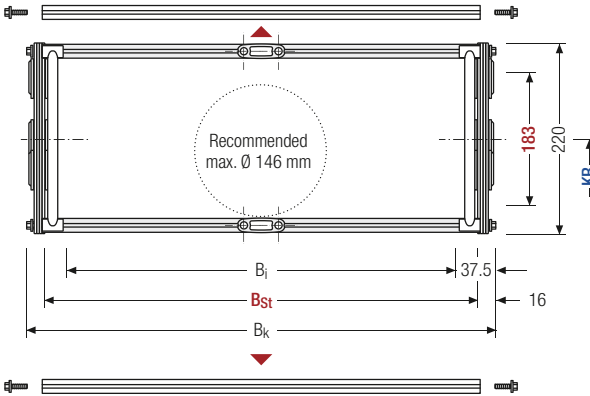


Stay arrangement on each  
chain link (VS: fully-stayed)



1 mm B<sub>i</sub> 250 – 1,200 mm  
in 1 mm width sections

Design guidelines  
from page 38



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<sub>k</sub>

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

Cable carrier length L<sub>k</sub>  
rounded to pitch t for odd  
number of chain links

Technical support:  
technik@kabelschlepp.de

online-engineer.de  
Cable Carrier Configurator

h <sub>i</sub> [mm]	h <sub>G</sub> [mm]	B <sub>i</sub> [mm]	B <sub>St</sub> [mm]*	B <sub>k</sub> [mm]	KR [mm]				q <sub>k</sub> [kg/m]
183	220	175 – 1125	218 – 1168	B <sub>i</sub> + 75	365 920	445 1075	600 1235	760 1395	38,68 – 44,58

\* in 1 mm width sections

### Order example



SX2500	806	RM	760	St	9250	HS
Type	B <sub>St</sub> [mm]	Stay variant	KR [mm]	Material	L <sub>k</sub> [mm]	Stay arrangement

# S/SX2500 RM | Inner distribution | TS0 · TS1 · TS2

## Divider systems

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

As a standard, dividers and the complete divider system (dividers with height separations) can be moved in the cross section (**Version A**).

Inner heights



Chain widths



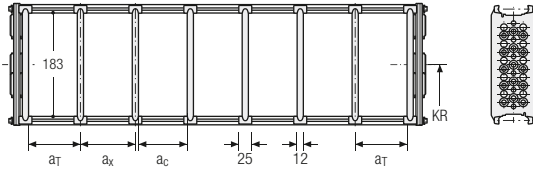
Increments



## Divider system TS0 without height separation

Vers.	a <sub>T</sub> min [mm]	a <sub>x</sub> min [mm]	a <sub>c</sub> min [mm]	n <sub>T</sub> min
A	19	25	13	–

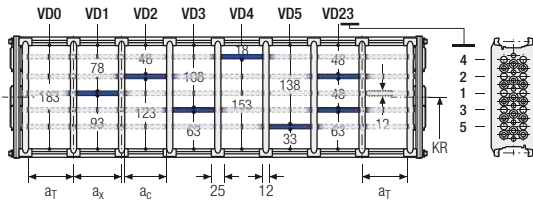
The dividers can be moved in the cross section.



## Divider system TS1 with continuous height separation

Vers.	a <sub>T</sub> min [mm]	a <sub>T</sub> max [mm]	a <sub>x</sub> min [mm]	a <sub>c</sub> min [mm]	n <sub>T</sub> min
A	19	45	25	13	2

The dividers can be moved in the cross section.

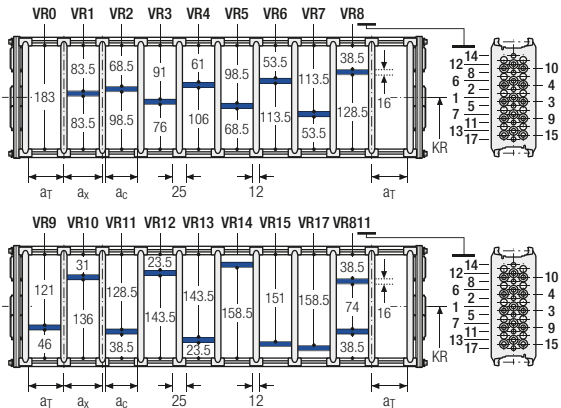


## Divider system TS2 with partial height separation

Vers.	a <sub>T</sub> min [mm]	a <sub>T</sub> max [mm]	a <sub>x</sub> min [mm]	a <sub>c</sub> min [mm]	n <sub>T</sub> min
A	19	65	25	7	2

Standard height separation with tube Ø 16 mm.

The dividers can be moved in the cross section.



## Order example

TS1

A

2

K1

34

VD1

.

K5

38

VD3

Divider system

Version

n<sub>T</sub>

Chamber

a<sub>x</sub>

Height separation

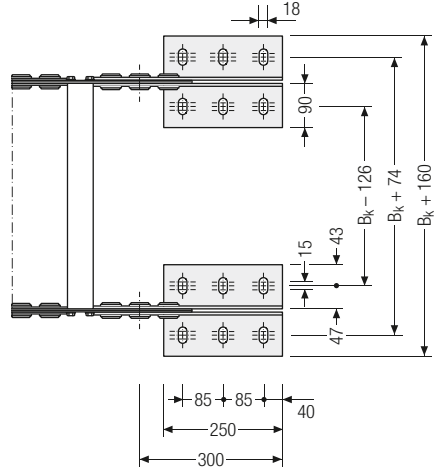
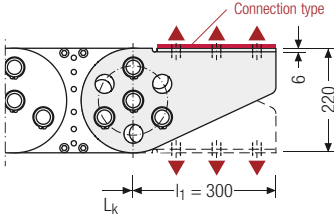
End connectors – steel

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

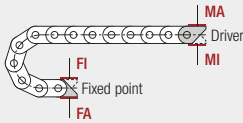
Key for abbreviations on page 12

Design guidelines from page 38

Technical support: technik@kabelschlepp.de



▲ 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 before driver and fixed point. See from p. 706.

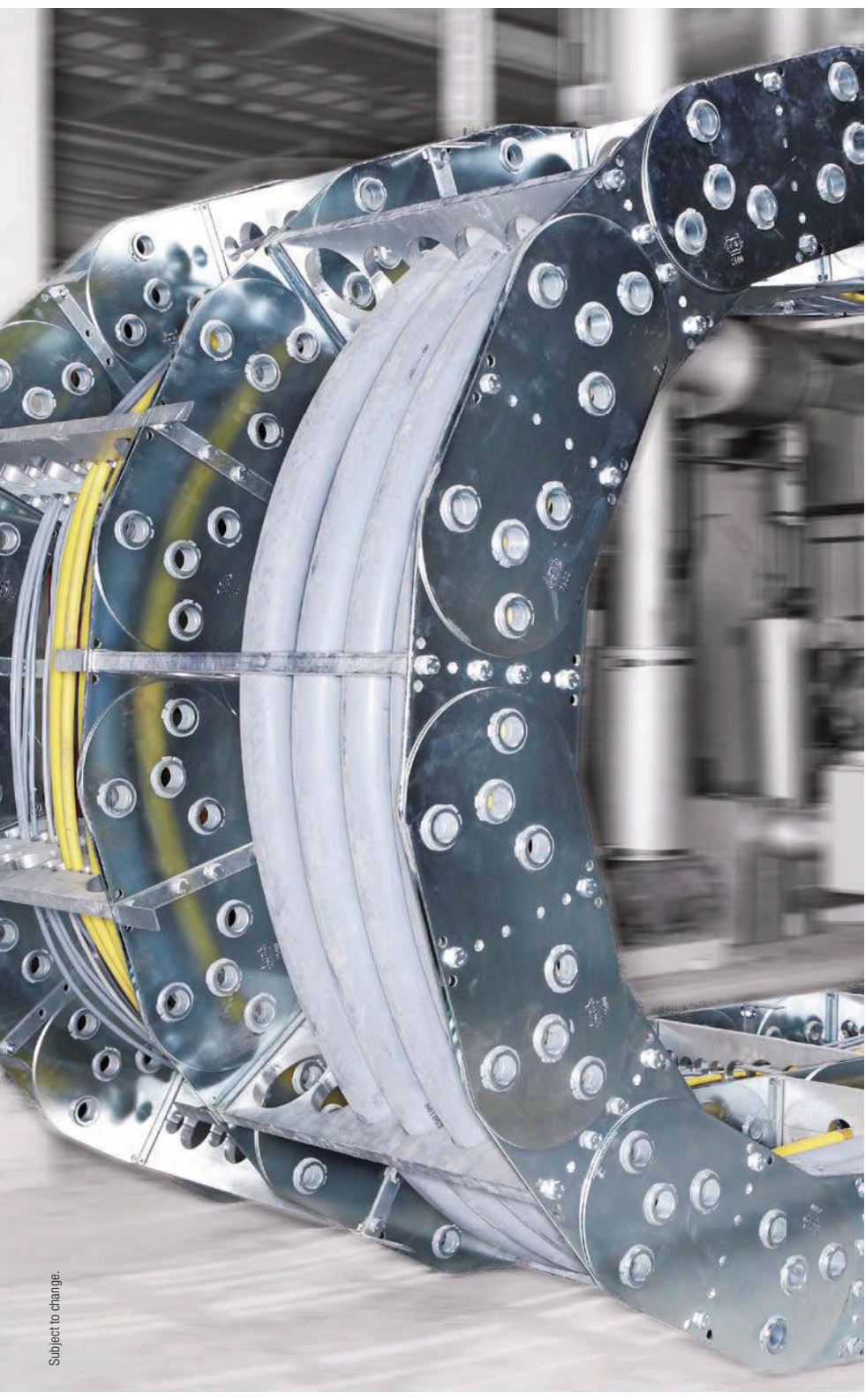
More product information online



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



Configure your custom cable carrier here: [onlineengineer.de](http://onlineengineer.de)



S/SX series

Inner heights

183

Chain widths

250  
1200

[tsubaki-kabelschlepp.com/s-sx](http://tsubaki-kabelschlepp.com/s-sx)

# S/SX3200

Key for abbreviations  
on page 12



**Pitch**  
320 mm



**Inner height**  
220 mm

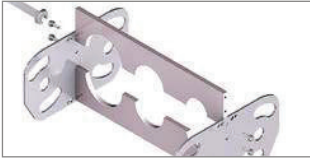


**Chain widths**  
250 – 1500 mm



**Bending radii**  
470 – 1785 mm

## Stay variants



**Aluminum stay LG** ..... page 600

### 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.



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

Design guidelines  
from page 38

Technical support:  
[technik@kabelschlepp.de](mailto:technik@kabelschlepp.de)



### TOTALTRAX® complete systems

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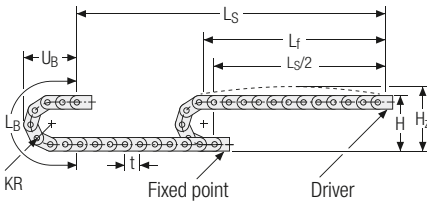


### TRAXLINE® cables for cable carriers

Hi-flex electric cables which were especially developed, optimized and tested for use in cable carriers can be found at [traxline.de](http://traxline.de)

# S/SX3200 | Installation dim. | Unsupported

## Unsupported arrangement



KR [mm]	H [mm]	L <sub>B</sub> [mm]	U <sub>B</sub> [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

Inner heights

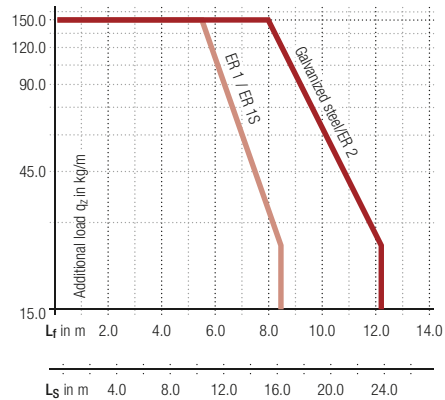


Chain widths



**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.



### More product information online



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

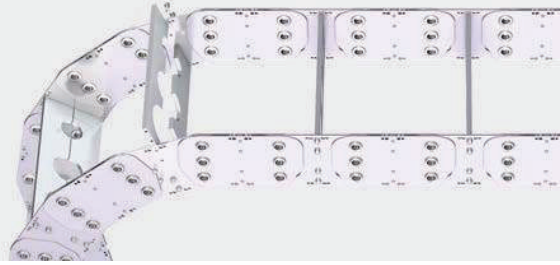


Configure your custom  
cable carrier here:  
[online-engineer.de](http://online-engineer.de)

## 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



Key for abbreviations  
on page 12



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

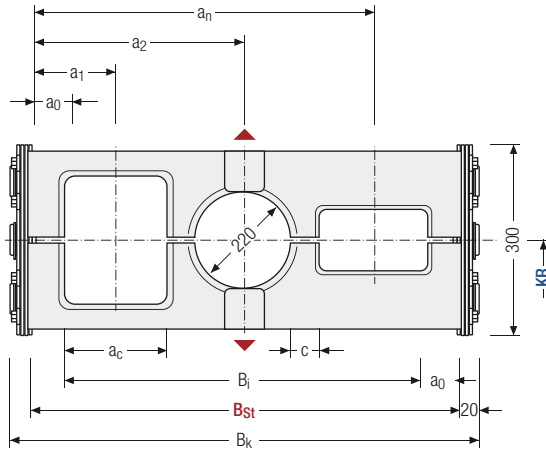


Stay arrangement on each  
chain link (VS: fully-stayed)



**1 mm** B<sub>i</sub> 250 – 1500 mm  
in **1 mm** width sections

Design guidelines  
from page 38



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

Technical support:  
technik@kabelschlepp.de

D <sub>max</sub> [mm]	h <sub>G</sub> [mm]	B <sub>i</sub> [mm]	B <sub>St</sub> [mm]*	B <sub>k</sub> [mm]	C <sub>min</sub> [mm]	a <sub>C</sub> min [mm]	a <sub>0</sub> min [mm]	KR [mm]	q <sub>k</sub> 50 % [kg/m]
220	300	166 1416	210 1460	B <sub>St</sub> + 40	4	12	22	470 670 870 1075	57.48 72.66

\* in 1 mm width sections

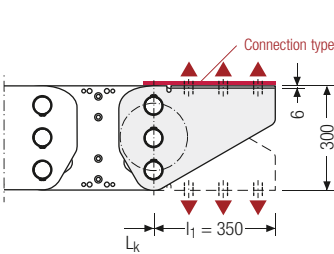
### Order example



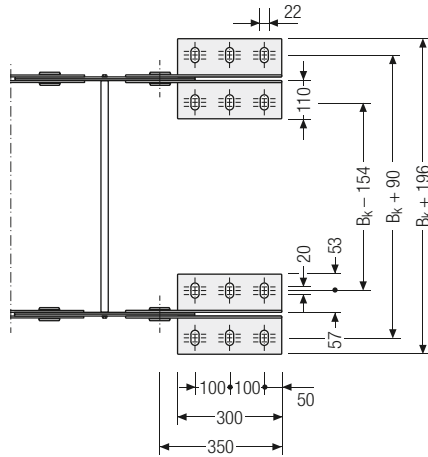
SX3200	776	LG	1075	ER 1	9280	HS
Type	B <sub>St</sub> [mm]	Stay variant	KR [mm]	Material	L <sub>k</sub> [mm]	Stay arrangement

## 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



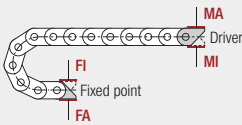
Inner heights



Chain widths



Increments



### 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 before driver and fixed point. See from p. 706.

## More product information online



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



Configure your custom  
cable carrier here:  
[onlineengineer.de](http://onlineengineer.de)



# S/SX

# 5000 – 8000

Key for abbreviations  
on page 12Design guidelines  
from page 38Technical support:  
[technik@kabelschlepp.de](mailto:technik@kabelschlepp.de)

**online-engineer.de**  
Cable Carrier Configurator


**Pitch**  
200 – 550 mm



**Inner heights**  
150 – 578 mm



**Chain widths**  
250 – 1800 mm



**Bending radii**  
min. 500 mm

## Stay variants



**Steel stay RSV** ..... from page 604

### 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](http://tsubaki-kabelschlepp.com/totaltrax)

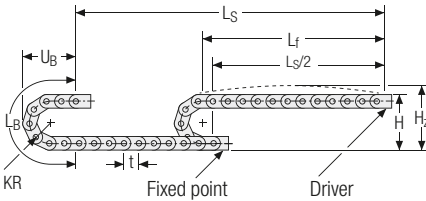


### TRAXLINE® cables for cable carriers

Hi-flex electric cables which were especially developed, optimized and tested for use in cable carriers can be found at [traxline.de](http://traxline.de)

# S/SX5000 / 6... / 7... / 8... | Unsupported

## Unsupported arrangement



Type	KR [mm]	H [mm]	LB [mm]	UB [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

Inner heights

150  
578

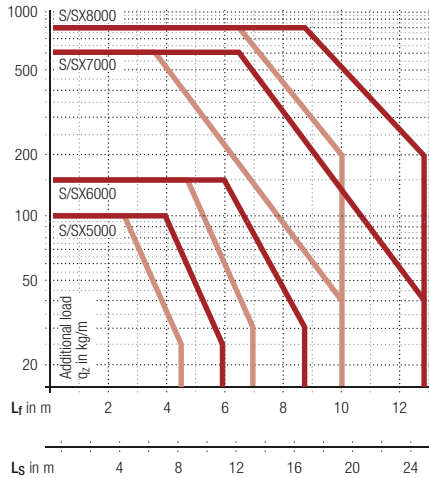
Chain widths

250  
1800

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.



Velocity

- S/SX5000 up to 2.00 m/s
- S/SX6000 up to 1.50 m/s
- S/SX7000 up to 0.05 m/s
- S/SX8000 up to 0.05 m/s



Acceleration

- S/SX5000 up to 3.0 m/s<sup>2</sup>
- S/SX6000 up to 2.0 m/s<sup>2</sup>
- S/SX7000 up to 0.3 m/s<sup>2</sup>
- S/SX8000 up to 0.3 m/s<sup>2</sup>



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

- S5000/6.../7.../8... galvanized steel
- SX5000/6.../7.../8... ER 2
- SX5000/6.../7.../8... ER 1 / ER 1S

## More product information online



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



Configure your custom  
cable carrier here:  
[online-engineer.de](http://online-engineer.de)

## Steel stay RSV – 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.



Key for abbreviations  
on page 12

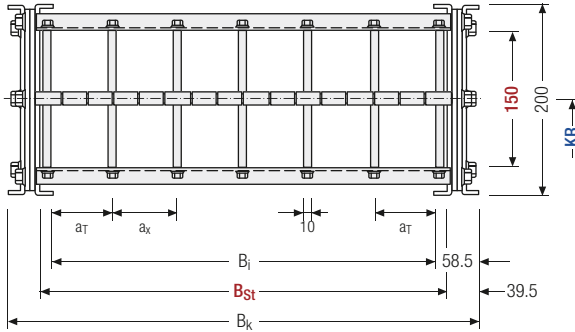


Stay arrangement on each chain link (**VS: fully-stayed**)



**1 mm**  $B_i$  250 – 1200 mm  
in 1 mm width sections

Design guidelines  
from page 38



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

Technical support:  
technik@kabelschlepp.de

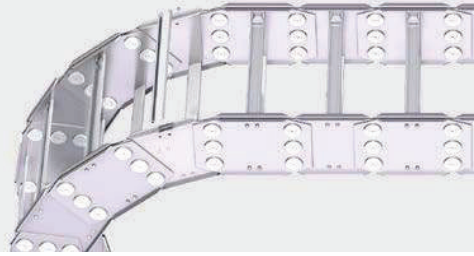
$h_i$ [mm]	$h_G$ [mm]	$B_i$ [mm]	$B_{St}$ [mm]*	$B_k$ [mm]	$a_T$ max [mm]	$a_x$ max [mm]	$n_T$ min	$KR$ [mm]	$q_k$ [kg/m]
150	200	133 – 1083	171 – 1121	$B_i + 117$	150	150	2	500 – 1200	42.5 – 52.0

\* in 1 mm width sections


\*\* individual intermediate sizes available

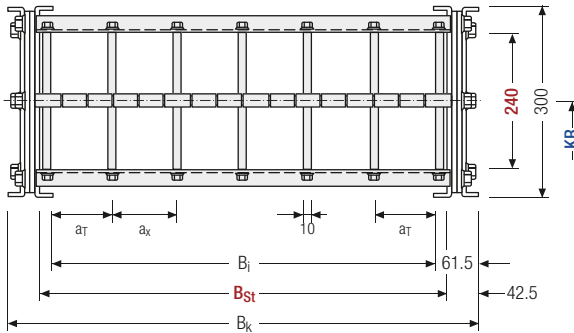
## Steel stay RSV – steel frame stay, bolted


- 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<sub>i</sub> 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<sub>k</sub>

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

Cable carrier length L<sub>k</sub> rounded to pitch t for odd number of chain links

h <sub>i</sub> [mm]	h <sub>G</sub> [mm]	B <sub>i</sub> [mm]	B <sub>St</sub> [mm]*	B <sub>k</sub> [mm]	a <sub>T</sub> max [mm]	a <sub>x</sub> max [mm]	nT min	KR [mm]	q <sub>k</sub> [kg/m]
240	300	177 1377	215 1415	B <sub>i</sub> + 123	200	200	2	700 1500	55 79

\* in 1 mm width sections

\*\* individual intermediate sizes available

Inner heights

150  
240

Chain widths

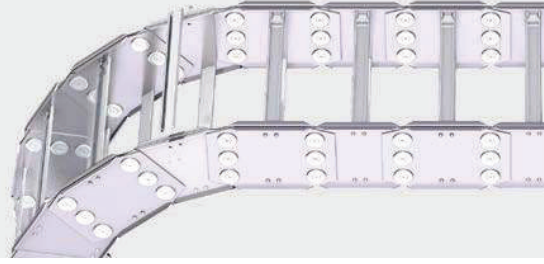
250  
1500

Increments

1 mm

## Steel stay RSV – 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.



Key for abbreviations  
on page 12

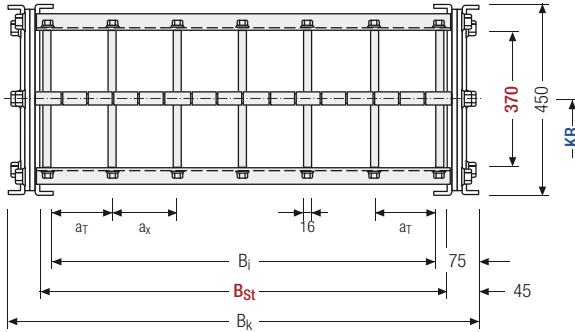


Stay arrangement on each chain link (**VS: fully-stayed**)



**1 mm** B<sub>k</sub> from 350 – 1800 mm  
in 1 mm width sections

Design guidelines  
from page 38



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<sub>k</sub>

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

Cable carrier length L<sub>k</sub> rounded to pitch t for odd number of chain links

Technical support:  
technik@kabelschlepp.de

online-engineer.de  
Cable Carrier Configurator

h <sub>i</sub> [mm]	h <sub>G</sub> [mm]	B <sub>i</sub> [mm]	B <sub>St</sub> [mm]*	B <sub>k</sub> [mm]	a <sub>T</sub> max [mm]	a <sub>x</sub> max [mm]	n <sub>T</sub> min	KR [mm]	q <sub>k</sub> [kg/m]
370	450	200 – 1650	260 – 1710	B <sub>i</sub> + 150	250	250	2	900 – 2400	135 – 164

\* in 1 mm width sections

\*\* individual intermediate sizes available

## Steel stay RSV – steel frame stay, bolted

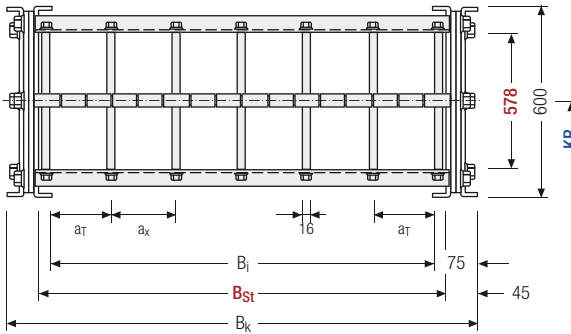
- Steel profile bars for extremely high additional loads and very large cable carrier widths. Double threaded joint on both sides.
- Available customized in **1 mm grid**.
- **Inside/outside:** Threaded joint can be released.



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



**1 mm** B<sub>i</sub> 350 – 1800  
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<sub>k</sub>

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

Cable carrier length L<sub>k</sub> rounded to pitch t for odd number of chain links

h <sub>i</sub> [mm]	h <sub>G</sub> [mm]	B <sub>i</sub> [mm]	B <sub>St</sub> [mm]*	B <sub>k</sub> [mm]	a <sub>T</sub> max [mm]	a <sub>x</sub> max [mm]	n <sub>T</sub> min	KR [mm]	q <sub>k</sub> [kg/m]
578	600	200 1650	260 1710	B <sub>i</sub> + 150	300	300	2	900 2400	198 255

\* in 1 mm width sections

\*\* individual intermediate sizes available

Inner heights



Chain widths

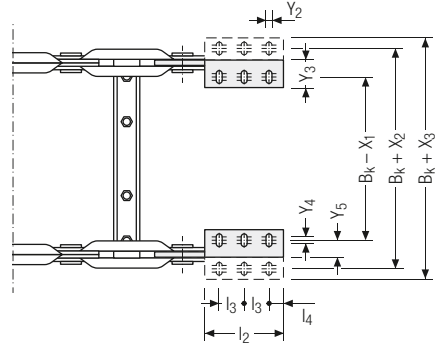
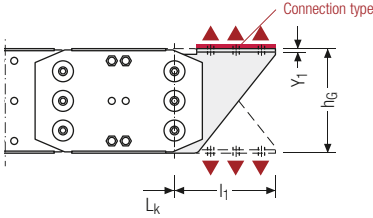


Increments



## End connectors – steel

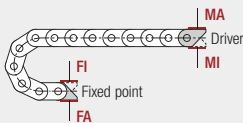
End connectors made of steel. The connection variants on the fixed point and on the driver can be combined and, if required, changed afterwards.



▲ 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

Technical support:  
technik@kabelschlepp.de



## 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/  
support](http://tsubaki-kabelschlepp.com/support)



Configure your custom  
cable carrier here:  
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Subject to change

S/SX series

Inner heights



Chain widths



[tsubaki-kabelschlepp.com/s-sx](http://tsubaki-kabelschlepp.com/s-sx)



# S/SX9000

## Custom sizes

Key for abbreviations  
on page 12



Cable carrier  
width  
from 350 mm

Design guidelines  
from page 38

For over 60 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 modules
- Cable weights of over 1000 kg/m possible
- Long service life

Technical support:  
[technik@kabelschlepp.de](mailto:technik@kabelschlepp.de)



### 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](mailto:technik@kabelschlepp.de). We will be happy to help you.





Subject to change.

S/SX series

Chain  
widths

from  
350

[tsubaki-kabelschlepp.com/s-sx](http://tsubaki-kabelschlepp.com/s-sx)

# TUBES-STEEL

## Covered steel cable carriers for extreme applications

Special applications require the use of special cable carriers. Our steel and stainless steel cable carriers are the first choice for extreme heat or other very rough ambient conditions, such as in mining, smelting or oil production. Customized separating options offer best possible protection for cables and hoses even under high mechanical loads.

- Robust design for high mechanical loads
- High additional loads and extensive unsupported lengths possible
- Ideal for extreme and rough ambient conditions
- Heat-resistant



**S/SX-TUBES series** ..... page 614

**Extremely robust and sturdy covered steel cable carriers**

# S/SX Tubes series

Extremely robust and sturdy covered steel cable carriers

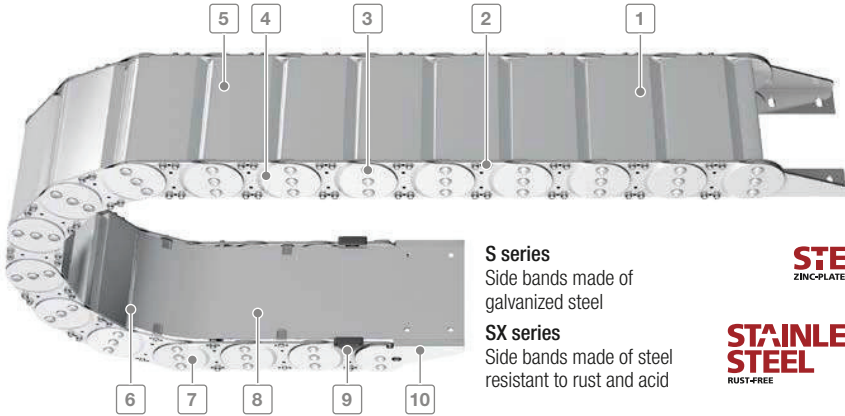


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Subject to change.

# S/SX Tubes series | Overview

S/SX Tubes series



Inner heights



Chain widths



**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 Aluminum covers available in **1 mm width sections**
- 2 4 bolted aluminum covers for extreme loads
- 3 Joint design with hardened bolts for long service life
- 4 Cranked link plate design
- 5 Can be opened quickly on the inside and the outside for cable laying
- 6 Different separation options for the cables
- 7 Extremely robust side bands, galvanized or stainless steel
- 8 Steel band cover available in **1 mm width sections**
- 9 Replaceable glide shoes
- 10 End connectors for different connection variants

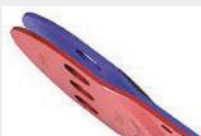
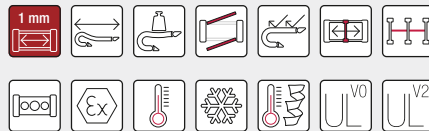
[tsubaki-kabelschlepp.com/s-sx-tubes](http://tsubaki-kabelschlepp.com/s-sx-tubes)

## Features

- Extremely robust, sturdy steel cable carriers for heavy mechanical loads and rough environmental conditions
- Side bands made of steel or stainless steel
- Very sturdy link plates, each consisting of two individual plates
- Very extensive unsupported lengths even with large additional loads
- Joint design with multi stroke system and hardened bolt
- Bolted stay systems, solid end connectors
- 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 welded together



Glide shoes available for gliding applications



Stroke system with hardened bolt and circlips



Also available as open variants with different stay variants

# S/SX Tubes series | Overview

Key for abbreviations on page 12

Design guidelines from page 38

Technical support: [technik@kabelschlepp.de](mailto:technik@kabelschlepp.de)

[online-engineer.de](http://online-engineer.de)  
Cable Carrier Configurator

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 $\leq$ [kg/m]	$d_{max}$ [mm]
<b>S/SX0650 Tubes</b>											
		RMD	30	50	65–465	100–500	1	65	115–300	30	24
<b>S/SX0950 Tubes</b>											
		RMD	44	68	88–563	125–600	1	95	170–600	45	35
<b>S/SX1250 Tubes</b>											
		RMD	69	94	101–751	150–800	1	125	200–1000	50	55
<b>S/SX1800 Tubes</b>											
		RMD	104	140	188–938	250–1000	1	180	320–1405	60	83

\* 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.



## Technical manual

Do you need additional information on the S/SX series?  
Our technical manual at [tsubaki-kabelschlepp.com/download](http://tsubaki-kabelschlepp.com/download) contains all information for selecting your cable carrier.

# S/SX Tubes series | Overview

Unsupported arrangement			Gliding arrangement			Inner distribution				Installation variants			Page
Travel length ≤ [m]	$v_{max} \leq [m/s]$	$a_{max} \leq [m/s^2]$	Travel length ≤ [m]	$v_{max} \leq [m/s]$	$a_{max} \leq [m/s^2]$	TS0	TS1	TS2	TS3	vertical hanging or standing	lying on the side	rotating arrangement	
5,8	2,5	5	***	1	2	●	●	-	-	●	●	-	620
8,8	2,5	5	***	1	2	●	●	-	-	●	●	-	626
13,5	2,5	5	***	1	2	●	●	●	-	●	●	-	632
17,8	2	3	***	0,8	2	●	●	-	●	●	●	-	636

Inner heights



Chain widths



[tsubaki-kabelschlepp.com/s-sx-tubes](http://tsubaki-kabelschlepp.com/s-sx-tubes)



# S/SX0650

Key for abbreviations  
on page 12Pitch  
65 mmInner height  
30 mmChain widths  
100 – 500 mmBending radii  
115 – 300 mm

## Stay variants

**Aluminum stay RMD** ..... page 620**Aluminum cover system**

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

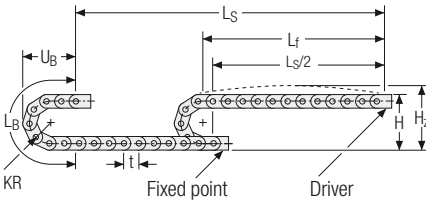
Design guidelines  
from page 38Technical support:  
[technik@kabelschlepp.de](mailto:technik@kabelschlepp.de)**TOTALTRAX® complete systems**

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](http://tsubaki-kabelschlepp.com/totaltrax)

**TRAXLINE® cables for cable carriers**

Hi-flex electric cables which were especially developed, optimized and tested for use in cable carriers can be found at [traxline.de](http://traxline.de)

## Unsupported arrangement



KR [mm]	H [mm]	H <sub>2</sub> [mm]	L <sub>B</sub> [mm]	U <sub>B</sub> [mm]
115	305	315	621	270
125	325	335	653	280
135	345	355	684	290
145	365	375	716	300
155	385	395	747	310
175	425	435	810	330
200	475	485	888	355
250	575	585	1045	405
300	675	685	1202	455

Inner heights

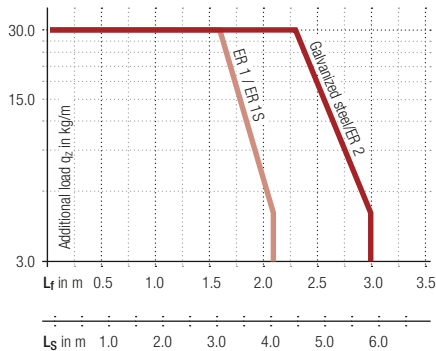


Chain widths



**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.



tsubaki-kabelschlepp.com/  
s-sx-tubes

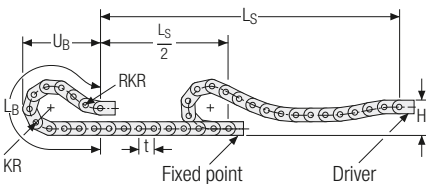
**Velocity**  
up to 2.5 m/s

**Acceleration**  
up to 5 m/s<sup>2</sup>

**Travel length**  
up to 5.8 m

**Additional load**  
up to 30 kg/m

## Gliding arrangement



**Velocity**  
up to 1 m/s

**Acceleration**  
up to 2 m/s<sup>2</sup>

**Travel length**  
on request

**Additional load**  
up to 30 kg/m

Glide shoes have to be used for gliding applications.  
The gliding cable carrier has to be routed in a channel.  
See p. 644.



Our technical support can provide help for gliding arrangements:  
[technik@kabelschlepp.de](mailto:technik@kabelschlepp.de)

## Aluminum stay RMD – aluminum cover system

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



Key for abbreviations on page 12

Design guidelines from page 38

Technical support: [technik@kabelschlepp.de](mailto:technik@kabelschlepp.de)

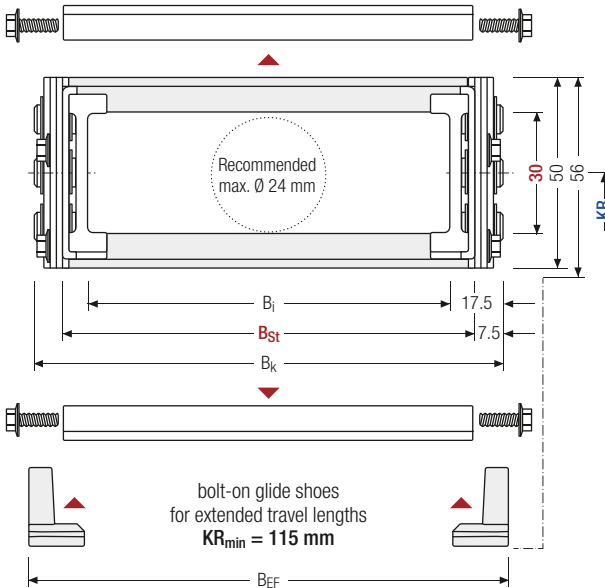
[online-engineer.de](http://online-engineer.de)  
Cable Carrier Configurator



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



**1 mm** B<sub>i</sub> 100 – 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<sub>k</sub>

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

Cable carrier length L<sub>k</sub> rounded to pitch t for odd number of chain links

h <sub>i</sub> [mm]	h <sub>G</sub> [mm]	h <sub>G'</sub> [mm]	B <sub>i</sub> [mm]	B <sub>St</sub> [mm]*	B <sub>K</sub> [mm]	B <sub>EF</sub> [mm]	KR [mm]				q <sub>k</sub> [kg/m]	
30	50	56	65	85	B <sub>i</sub> + 35	B <sub>i</sub> + 40	115	125	135	145	155	4.84
			465	485			175	200	250	300	10.50	

\* in 1 mm width sections

### Order example

SX0650 · 
 180 · 
 RMD · 
 135 · 
 St · 
 1430 · 
 VS

Type      B<sub>St</sub> [mm]      Stay variant      KR [mm]      Material      L<sub>k</sub> [mm]      Stay arrangement

Our technical support can provide help for gliding arrangements: [technik@kabelschlepp.de](mailto:technik@kabelschlepp.de)

Divider systems

As a standard, the divider system is mounted on every 2<sup>nd</sup> cover/chain link (HS).

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

Inner heights



Chain widths



Increments

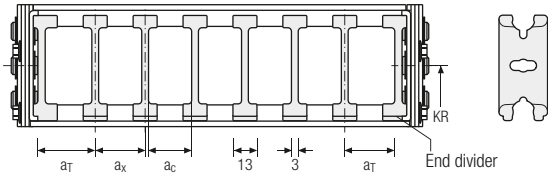


[tsubaki-kabelschlepp.com/s-sx-tubes](http://tsubaki-kabelschlepp.com/s-sx-tubes)

Divider system TS0 without height separation

Vers.	a <sub>T</sub> min [mm]	a <sub>x</sub> min [mm]	a <sub>c</sub> min [mm]	n <sub>T</sub> min
A	11.5	13	10	-

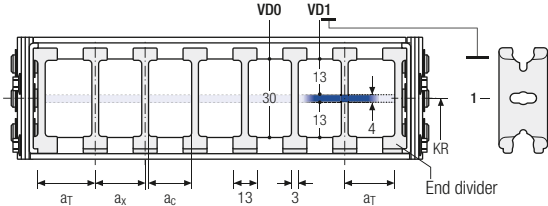
The dividers can be moved in the cross section.



Divider system TS1 with continuous height separation

Vers.	a <sub>T</sub> min [mm]	a <sub>T</sub> max [mm]	a <sub>x</sub> min [mm]	a <sub>c</sub> min [mm]	n <sub>T</sub> min
A	11.5	40	13	10	2

The dividers can be moved in the cross section.



Order example

TS1 · 
 A · 
 3 - 
 VD0  
 ⋮  
 - VD1

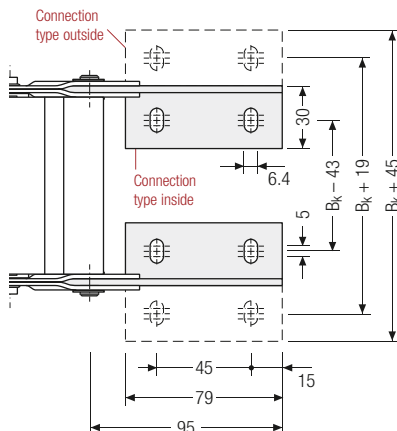
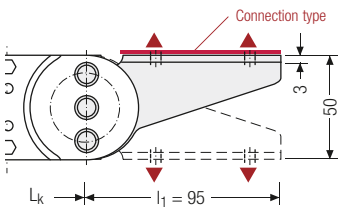
Divider system
Version
n<sub>T</sub>
Height separation

Please state the designation of the divider system (**TS0, TS1 ...**), version and number of dividers per cross section [n<sub>T</sub>].

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.

## 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

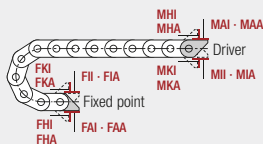
**F** – fixed point  
**M** – driver

### Connection surface

**I** – connection surface inside  
**A** – connection surface outside

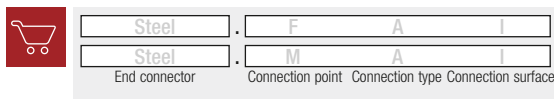
### Connection type

**A** – threaded joint to outside (standard)  
**I** – threaded joint to inside  
**H** – threaded joint, rotated  $90^\circ$  to the outside  
**K** – threaded joint, rotated  $90^\circ$  to the inside



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

### Order example



**Caution:** We recommend the use of strain reliefs before driver and fixed point. See from p. 706.

### More product information online



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

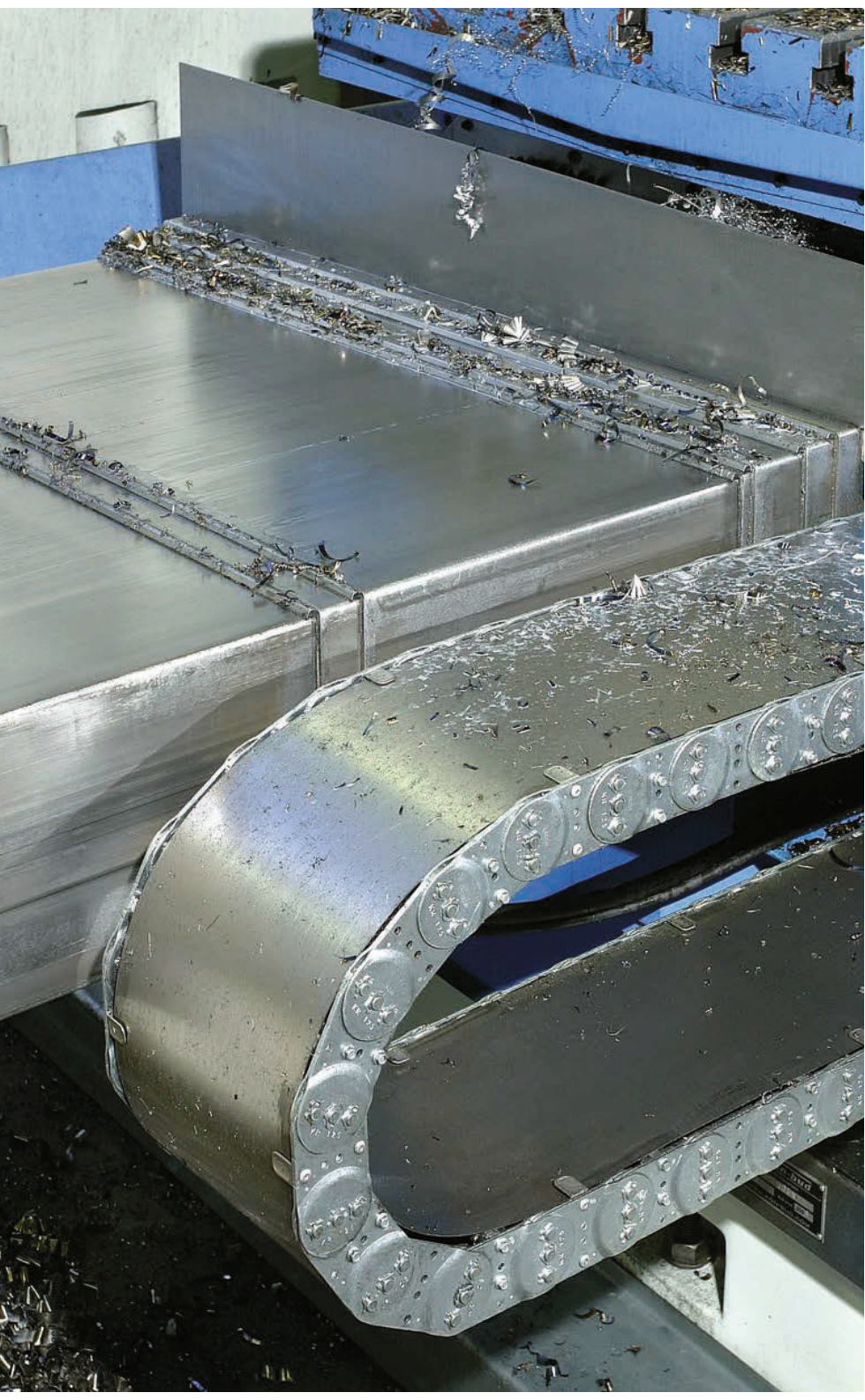


Configure your custom cable carrier here:  
[onlineengineer.de](http://onlineengineer.de)

Key for abbreviations on page 12

Design guidelines from page 38

Technical support: [technik@kabelschlepp.de](mailto:technik@kabelschlepp.de)



**S/SX Tubes**  
series

Inner  
heights

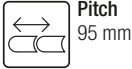
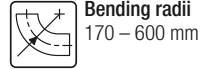
30

Chain  
widths

100  
500

[tsubaki-kabelschlepp.com/](http://tsubaki-kabelschlepp.com/)  
s-sx-tubes

# S/SX0950

Key for abbreviations  
on page 12Pitch  
95 mmInner height  
44 mmChain widths  
125 – 600 mmBending radii  
170 – 600 mm

## Stay variants

**Aluminum stay RMD** ..... page 626

### Aluminum cover system

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

Design guidelines  
from page 38Technical support:  
[technik@kabelschlepp.de](mailto:technik@kabelschlepp.de)

### 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](http://tsubaki-kabelschlepp.com/totaltrax)

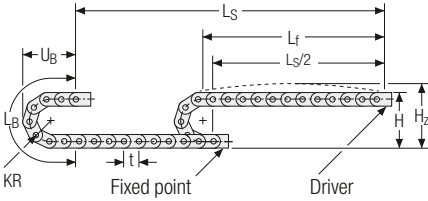


### TRAXLINE® cables for cable carriers

Hi-flex electric cables which were especially developed, optimized and tested for use in cable carriers can be found at [traxline.de](http://traxline.de)

# S/SX0950 | Installation dim. | Unsupported · Gliding

## Unsupported arrangement



KR [mm]	H [mm]	H <sub>2</sub> [mm]	L <sub>B</sub> [mm]	U <sub>B</sub> [mm]
170	442	452	914	395
200	502	512	1008	425
260	622	632	1197	485
290	682	692	1291	515
320	742	752	1385	545
350	802	812	1480	575
410	922	932	1668	635
600	1302	1312	2264	825

Inner height

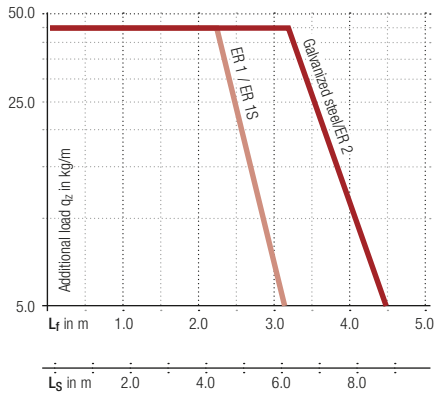


Chain widths



**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.



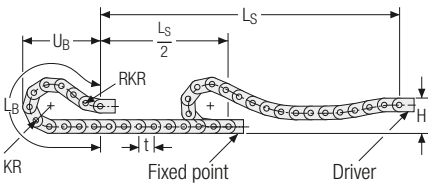
 **Velocity**  
up to 2.5 m/s

 **Acceleration**  
up to 5 m/s<sup>2</sup>

 **Travel length**  
up to 8.8 m

 **Additional load**  
up to 45 kg/m

## Gliding arrangement



 **Velocity**  
up to 1 m/s

 **Acceleration**  
up to 2 m/s<sup>2</sup>

 **Travel length**  
on request

 **Additional load**  
up to 45 kg/m

Glide shoes have to be used for gliding applications.

The gliding cable carrier has to be routed in a channel.  
See p. 644.



Our technical support can provide help for gliding arrangements:  
[technik@kabelschlepp.de](mailto:technik@kabelschlepp.de)



## Aluminum stay RMD – aluminum cover system

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



Key for abbreviations on page 12

Design guidelines from page 38

Technical support: [technik@kabelschlepp.de](mailto:technik@kabelschlepp.de)

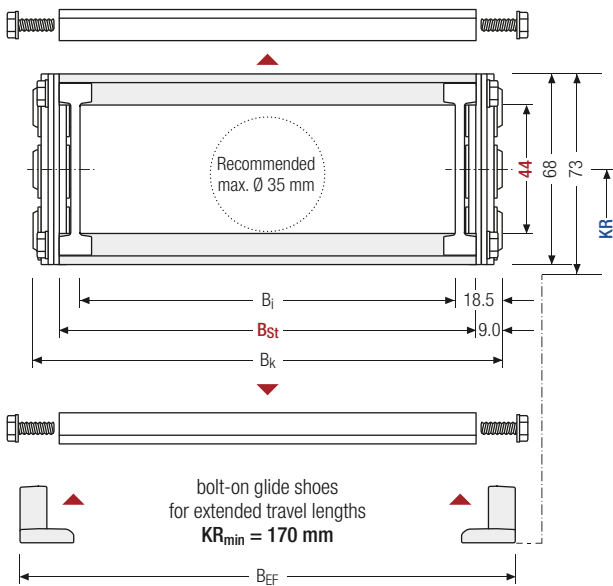
[online-engineer.de](http://online-engineer.de)  
Cable Carrier Configurator



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



**1 mm** B<sub>i</sub> 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<sub>k</sub>

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

Cable carrier length L<sub>k</sub> rounded to pitch t for odd number of chain links

h <sub>i</sub> [mm]	h <sub>G</sub> [mm]	h <sub>G'</sub> [mm]	B <sub>i</sub> [mm]	B <sub>St</sub> [mm]*	B <sub>k</sub> [mm]	B <sub>EF</sub> [mm]	KR [mm]				q <sub>k</sub> [kg/m]
44	68	73	88 563	106 581	B <sub>i</sub> + 37	B <sub>i</sub> + 46	170	200	260	290	9.97
							320	350	410	600	21.95

\* in 1 mm width sections

### Order example

SX0950 - 
 107 - 
 RMD - 
 200 - 
 St - 
 2375 - 
 VS  
 Type      B<sub>St</sub> [mm]      Stay variant      KR [mm]      Material      L<sub>k</sub> [mm]      Stay arrangement

Our technical support can provide help for gliding arrangements: [technik@kabelschlepp.de](mailto:technik@kabelschlepp.de)

## Divider systems

As a standard, the divider system is mounted on every 2<sup>nd</sup> cover/chain link (HS).

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

Inner height



Chain widths



Increments

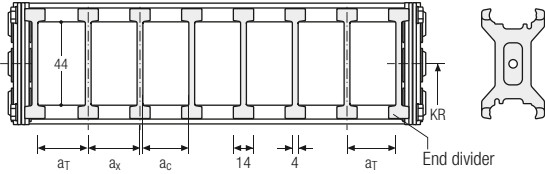


[tsubaki-kabelschlepp.com/](http://tsubaki-kabelschlepp.com/)  
s-sx-tubes

### Divider system TS0 without height separation

Vers.	a <sub>T</sub> min [mm]	a <sub>x</sub> min [mm]	a <sub>c</sub> min [mm]	n <sub>T</sub> min
A	12	14	10	—

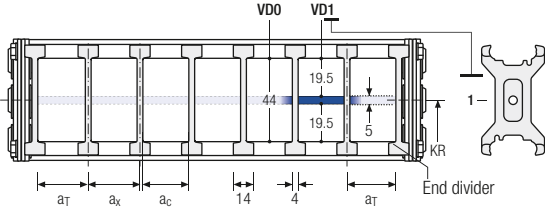
The dividers can be moved in the cross section.



### Divider system TS1 with continuous height separation

Vers.	a <sub>T</sub> min [mm]	a <sub>T</sub> max [mm]	a <sub>x</sub> min [mm]	a <sub>c</sub> min [mm]	n <sub>T</sub> min
A	12	25	14	10	2

The dividers can be moved in the cross section.



## Order example

TS1

·

A

·

3

-

VD0

⋮

-

VD1

Divider system

Version

n<sub>T</sub>

Height separation

Please state the designation of the divider system (**TS0, TS1 ...**), version and number of dividers per cross section [n<sub>T</sub>].

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.

## End connectors – steel

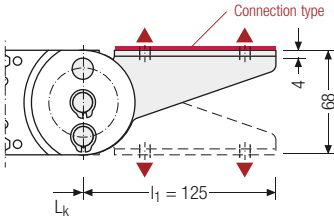
End connectors made of steel. The connection variants on the fixed point and on the driver can be combined and changed later on, if necessary.

Key for abbreviations on page 12

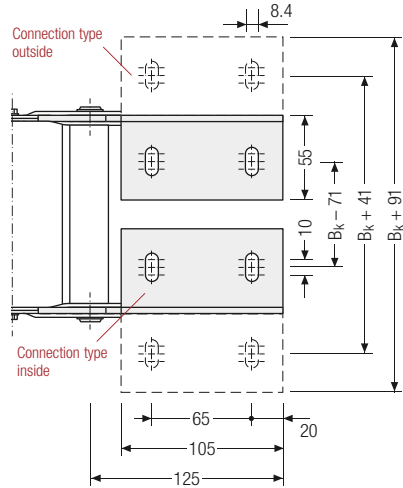
Design guidelines from page 38

Technical support: technik@kabelschlepp.de

online-engineer.de  
Cable Carrier Configurator



▲ Assembly options



### Connection point

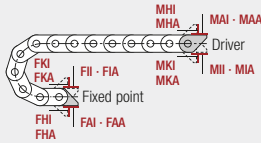
- F – fixed point
- M – driver

### Connection surface

- I – connection surface inside
- A – connection surface outside

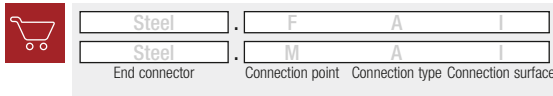
### Connection type

- 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



**Caution:** The standard connection variant FAI/MAI is only possible from B<sub>k</sub> of 122 mm.

## Order example



**Caution:** We recommend the use of strain reliefs before driver and fixed point. See from p. 706.

## More product information online



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



Configure your custom cable carrier here: [onlineengineer.de](http://onlineengineer.de)



**S/SX Tubes  
series**

Inner  
height



Chain  
widths



[tsubaki-kabelschlepp.com/  
s-sx-tubes](http://tsubaki-kabelschlepp.com/s-sx-tubes)

# S/SX1250

Key for abbreviations  
on page 12Pitch  
125 mmInner height  
69 mmChain widths  
150 – 800 mmBending radii  
200 – 1000 mm

## Stay variants

**Aluminum stay RMD** ..... page 632

### Aluminum cover system

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

Design guidelines  
from page 38Technical support:  
[technik@kabelschlepp.de](mailto:technik@kabelschlepp.de)

### 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](http://tsubaki-kabelschlepp.com/totaltrax)

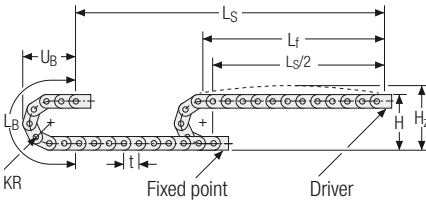


### TRAXLINE® cables for cable carriers

Hi-flex electric cables which were especially developed, optimized and tested for use in cable carriers can be found at [traxline.de](http://traxline.de)

# S/SX1250 | Installation dim. | Unsupported · Gliding

## Unsupported arrangement



KR [mm]	H [mm]	H <sub>2</sub> [mm]	L <sub>B</sub> [mm]	U <sub>B</sub> [mm]
200	541	551	1128	497
220	581	591	1191	517
260	661	671	1317	557
300	741	751	1442	597
340	821	831	1568	637
380	901	911	1694	677
420	981	991	1820	717
460	1061	1071	1945	757
500	1141	1151	2071	797
540	1221	1231	2196	837
600	1341	1351	2385	897
1000	2141	2151	3640	1297

Inner heights

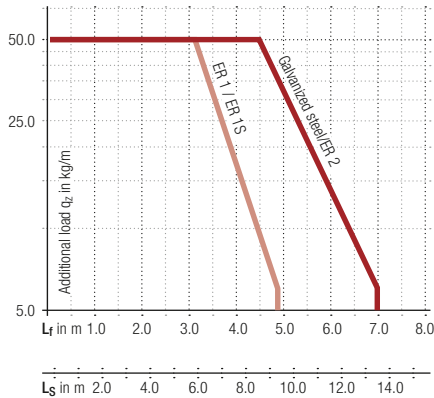


Chain widths

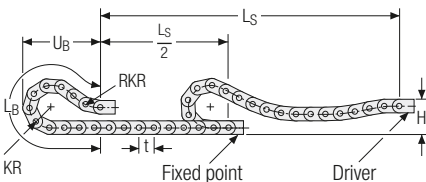


Load diagram for unsupported length depending on the additional load.

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



## Gliding arrangement



Glide shoes have to be used for gliding applications. The gliding cable carrier has to be routed in a channel. See p. 644.



Our technical support can provide help for gliding arrangements:  
[technik@kabelschlepp.de](mailto:technik@kabelschlepp.de)

## Aluminum stay RMD – aluminum cover system

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



Key for abbreviations on page 12

Design guidelines from page 38

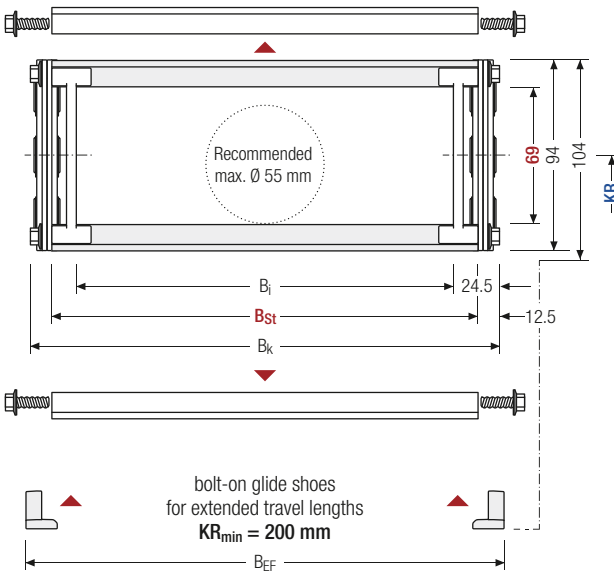
Technical support: [technik@kabelschlepp.de](mailto:technik@kabelschlepp.de)



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



**1 mm** B<sub>i</sub> 150 – 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<sub>k</sub>

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

Cable carrier length L<sub>k</sub> rounded to pitch t for odd number of chain links

h <sub>i</sub> [mm]	h <sub>G</sub> [mm]	h <sub>G'</sub> [mm]	B <sub>i</sub> [mm]	B <sub>St</sub> [mm]*	B <sub>k</sub> [mm]	B <sub>EF</sub> [mm]	KR [mm]						q <sub>k</sub> [kg/m]
69	94	104	101	126	B <sub>i</sub> + 49	B <sub>i</sub> + 55	200	220	260	300	340	380	15.48
							420	460	500	540	600	1000	32.38

\* in 1 mm width sections

### Order example

SX1250 - 
 352 - 
 RMD - 
 260 - 
 St - 
 4750
VS

Type      B<sub>St</sub> [mm]      Stay variant      KR [mm]      Material      L<sub>k</sub> [mm]      Stay arrangement

Our technical support can provide help for gliding arrangements: [technik@kabelschlepp.de](mailto:technik@kabelschlepp.de)

# S/SX1250 RMD | Inner distribution | TS0 · TS1 · TS2

## Divider systems

As a standard, the divider system is mounted on every 2<sup>nd</sup> cover/chain link (HS).

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

Inner heights



Chain widths



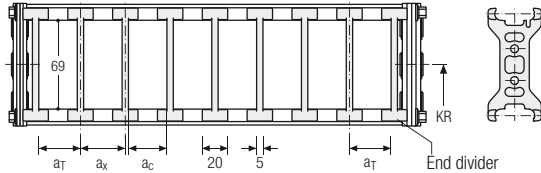
Increments



### Divider system TS0 without height separation

Vers.	a <sub>T</sub> min [mm]	a <sub>x</sub> min [mm]	a <sub>c</sub> min [mm]	n <sub>T</sub> min
A	17.5	20	15	—

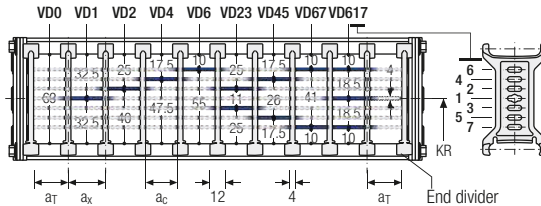
The dividers can be moved in the cross section.



### Divider system TS1 with continuous height separation

Vers.	a <sub>T</sub> min [mm]	a <sub>T</sub> max [mm]	a <sub>x</sub> min [mm]	a <sub>c</sub> min [mm]	n <sub>T</sub> min
A	10	25	12	8	2

The dividers can be moved in the cross section.



### Divider system TS2 with partial height separation

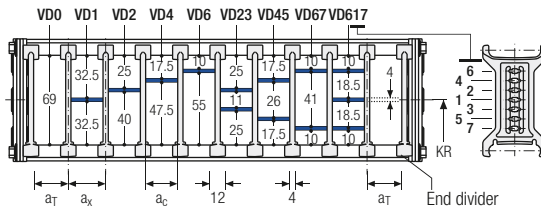
Vers.	a <sub>T</sub> min [mm]	a <sub>x</sub> min [mm]	a <sub>c</sub> min [mm]	n <sub>T</sub> min
A	11**/14.5	14*/20	14	2

\* For VD0

\*\* For version with height separation to the end divider

With grid distribution (**1 mm grid**).

The dividers are attached by the height separation; the grid can be moved in the cross section.



## Order example



<input type="text" value="TS1"/>	·	<input type="text" value="A"/>	·	<input type="text" value="3"/>	·	<input type="text" value="K1"/>	·	<input type="text" value="34"/>	-	<input type="text" value="VD1"/>		
								<input type="text" value="K5"/>	·	<input type="text" value="38"/>	-	<input type="text" value="VD3"/>
Divider system		Version		n <sub>T</sub>		Chamber		a <sub>x</sub>		Height separation		

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

If using divider systems with height separation (**TS1 – TS2**) please also state the positions [e.g. VD23] as viewed from the left carrier belt. You are welcome to add a sketch to your order.



End connectors – steel

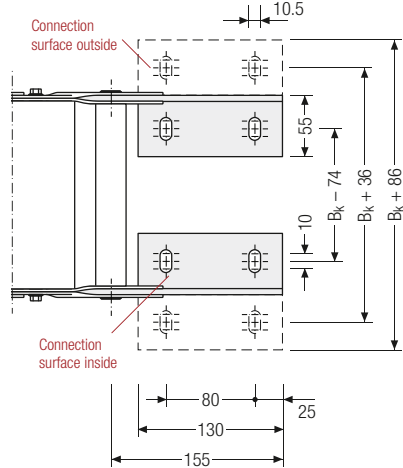
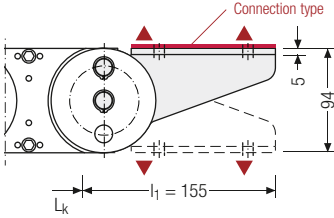
End connectors made of steel. The connection variants on the fixed point and on the driver can be combined and changed later on, if necessary.

Key for abbreviations on page 12

Design guidelines from page 38

Technical support: technik@kabelschlepp.de

online-engineer.de  
Cable Carrier Configurator



▲ Assembly options

Connection point

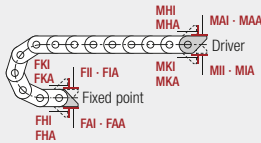
- F – fixed point
- M – driver

Connection surface

- I – connection surface inside
- A – connection surface outside

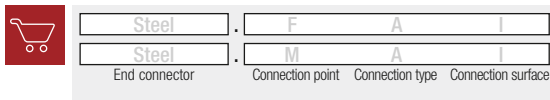
Connection type

- 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



**Caution:** The standard connection variant FAI/MAI is only possible from B<sub>k</sub> of 125 mm.

Order example



**Caution:** We recommend the use of strain reliefs before driver and fixed point. See from p. 706.

More product information online



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



Configure your custom cable carrier here: [onlineengineer.de](http://onlineengineer.de)



Subject to change.

**S/SX Tubes**  
series

Inner heights



Chain widths



[tsubaki-kabelschlepp.com/](http://tsubaki-kabelschlepp.com/)  
s-sx-tubes

# S/SX1800

Key for abbreviations  
on page 12Pitch  
180 mmInner height  
104 mmChain widths  
250 – 1000 mmBending radii  
320 – 1405  
mm

## Stay variants

**Aluminum stay RMD** ..... page 638**Aluminum cover system**

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

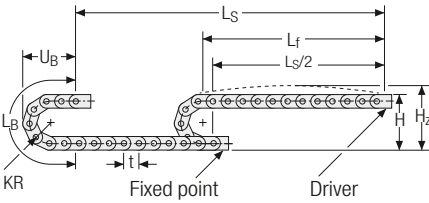
Design guidelines  
from page 38Technical support:  
[technik@kabelschlepp.de](mailto:technik@kabelschlepp.de)**TOTALTRAX® complete systems**

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](http://tsubaki-kabelschlepp.com/totaltrax)

**TRAXLINE® cables for cable carriers**

Hi-flex electric cables which were especially developed, optimized and tested for use in cable carriers can be found at [traxline.de](http://traxline.de)

Unsupported arrangement



KR [mm]	H [mm]	H <sub>z</sub> [mm]	L <sub>B</sub> [mm]	U <sub>B</sub> [mm]
320	850	860	1725	750
375	960	970	1898	805
435	1080	1090	2087	865
490	1190	1200	2259	920
605	1420	1430	2620	1035
720	1650	1660	2982	1150
890	1990	2000	3516	1320
1175	2560	2570	4411	1605
1300	2810	2820	4804	1730
1405	3020	3030	5164	1835

Inner heights

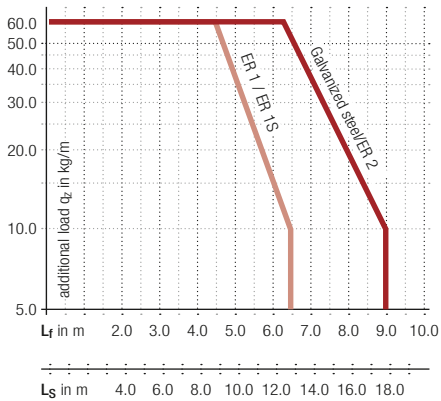


Chain widths



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.



**Velocity**  
up to 2 m/s

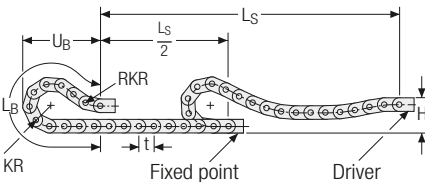
**Acceleration**  
up to 3 m/s<sup>2</sup>

**Travel length**  
up to 17.8 m

**Additional load**  
up to 60 kg/m

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Gliding arrangement



Glide shoes have to be used for gliding applications. The gliding cable carrier has to be routed in a channel. See p. 644.

**Velocity**  
up to 0.8 m/s

**Acceleration**  
up to 2 m/s<sup>2</sup>

**Travel length**  
on request

**Additional load**  
up to 60 kg/m

Subject to change.

Our technical support can provide help for gliding arrangements:  
[technik@kabelschlepp.de](mailto:technik@kabelschlepp.de)

## Aluminum stay RMD – aluminum cover system

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



Key for abbreviations on page 12

Design guidelines from page 38

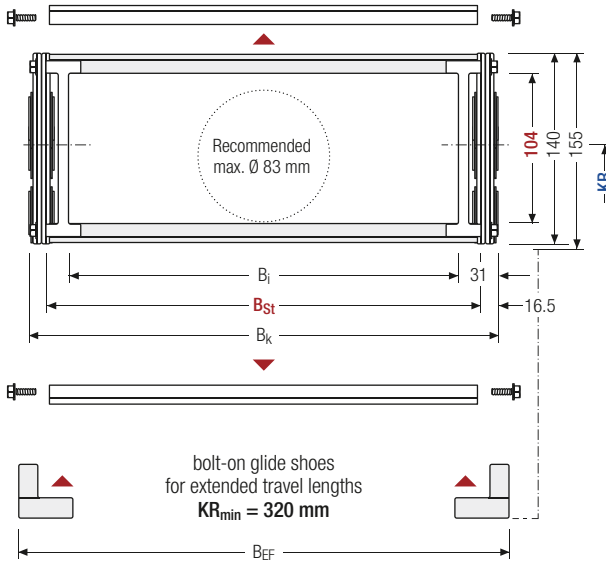
Technical support: [technik@kabelschlepp.de](mailto:technik@kabelschlepp.de)



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



**1 mm** B<sub>i</sub> 250 – 1,000 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<sub>k</sub>

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

Cable carrier length L<sub>k</sub> rounded to pitch t for odd number of chain links

h <sub>i</sub> [mm]	h <sub>G</sub> [mm]	h <sub>G'</sub> [mm]	B <sub>i</sub> [mm]	B <sub>St</sub> [mm]*	B <sub>k</sub> [mm]	B <sub>EF</sub> [mm]	KR [mm]				q <sub>k</sub> [kg/m]	
104	140	155	188 938	221 971	B <sub>i</sub> + 62	B <sub>i</sub> + 70	320	375	435	490	605	28.46
							720	890	1175	1300	1405	47.67

\* in 1 mm width sections

### Order example

SX1800 - 
 417 - 
 RMD - 
 375 - 
 St - 
 5940 - 
 VS  
 Type      B<sub>St</sub> [mm]      Stay variant      KR [mm]      Material      L<sub>k</sub> [mm]      Stay arrangement

Our technical support can provide help for gliding arrangements: [technik@kabelschlepp.de](mailto:technik@kabelschlepp.de)

Divider systems

As a standard, the divider system is mounted on every 2<sup>nd</sup> cover/chain link (HS).

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

Inner heights



Chain widths



Increments

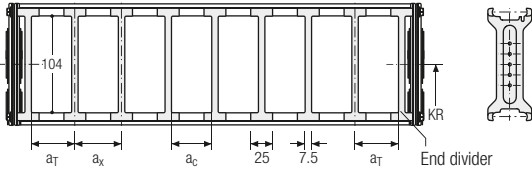


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Divider system TS0 without height separation

Vers.	a <sub>T</sub> min [mm]	a <sub>x</sub> min [mm]	a <sub>c</sub> min [mm]	n <sub>T</sub> min
A	21.5	25	17.5	—

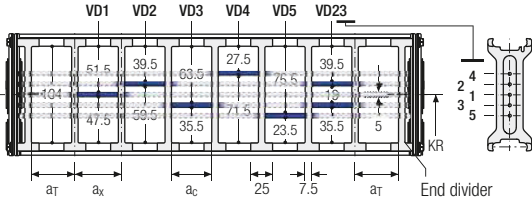
The dividers can be moved in the cross section.



Divider system TS1 with continuous height separation

Vers.	a <sub>T</sub> min [mm]	a <sub>T</sub> max [mm]	a <sub>x</sub> min [mm]	a <sub>c</sub> min [mm]	n <sub>T</sub> min
A	21.5	25	25	17.5	2

The dividers can be moved in the cross section.

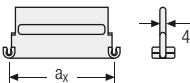
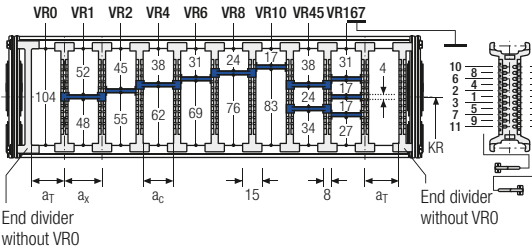


Divider system TS3 with height separation consisting of plastic partitions

Vers.	a <sub>T</sub> min [mm]	a <sub>x</sub> min [mm]	a <sub>c</sub> min [mm]	n <sub>T</sub> min
A	1	16 / 42*	8	2

\* For aluminum partitions

The dividers are fixed with the partitions. The entire divider system can be moved in the cross section.



Aluminum partitions with 1 mm increments with **a<sub>x</sub> > 42 mm** are also available.

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

When using **plastic partitions with a<sub>x</sub> > 112 mm**, we recommend an additional center support with a **twin divider** (S<sub>T</sub> = 4 mm). Twin dividers are also suitable for retrofitting in the partition system.

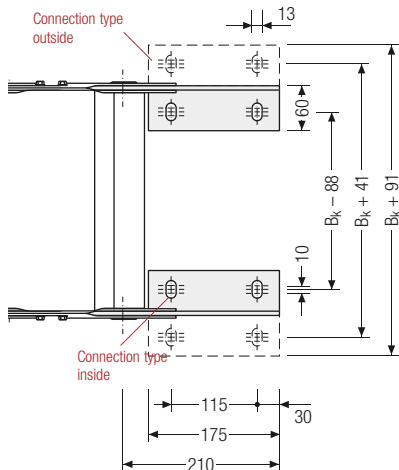
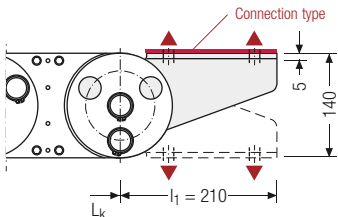
## End connectors – steel

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.

Key for abbreviations on page 12

Design guidelines from page 38

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▲ Assembly options

### Connection point

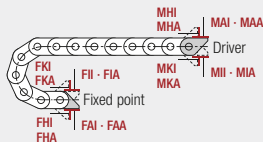
- F – fixed point
- M – driver

### Connection surface

- I – connection surface inside
- A – connection surface outside

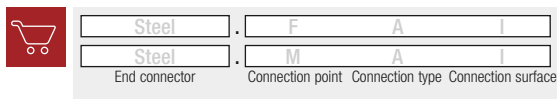
### Connection type

- 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



**Caution:** The standard connection variant FAI/MAI is only possible from B<sub>k</sub> of 139 mm.

## Order example



**Caution:** We recommend the use of strain reliefs before driver and fixed point. See from p. 706.

## More product information online



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



Configure your custom cable carrier here: [onlineengineer.de](http://onlineengineer.de)



## S/SX Tubes series

Inner heights



Chain widths



Increments



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