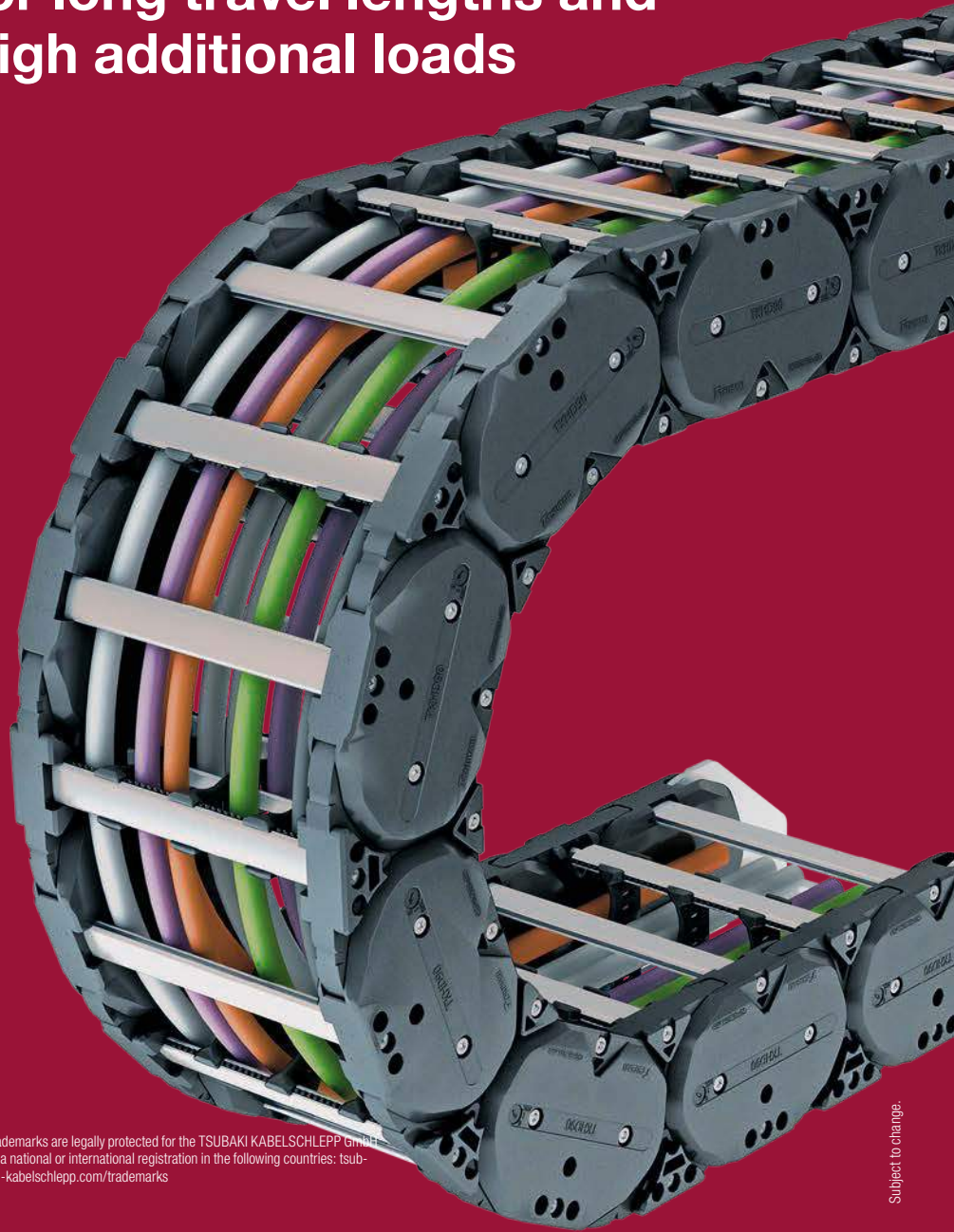


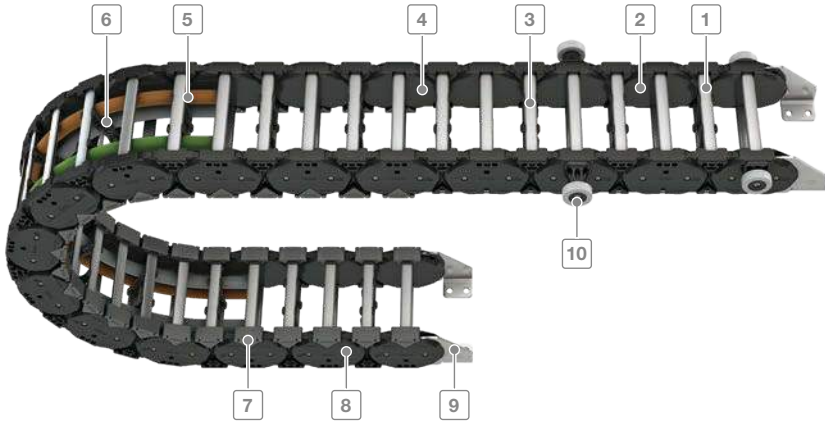
# TKHD series

Heavy duty cable carriers  
for long travel lengths and  
high additional loads



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Subject to change.



Inner heights



Inner widths



- 1 Aluminum stays available in **1 mm width sections**
- 2 Plastic chain link plates
- 3 Quick and easy opening to the inside or outside for cable laying
- 4 Cable-friendly interior – no interfering edges
- 5 Fixable dividers
- 6 Dividers and subdivision for separating the cables
- 7 Replaceable glide shoes for increased service life in gliding application
- 8 Robust, multiple stop system
- 9 Steel installation brackets
- 10 RSC-system (roller supported system)

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## Features

- Massive, enclosed, stain-repellent stop system
- Maintenance-free
- Massive sidebands through robust double fork-bracket-construction
- Symmetrical force curve in the sideband
- Sidebands easy to assemble
- Quiet and low-wear operating through polygon-optimized contour and radii
- Reinforced pin bore connection
- Integrated noise damping
- Quick and easy opening to the inside or outside for cable laying
- Soil-resistant outer contour
- Easy change of components



Variable vertical and horizontal inner distribution optional with fixable dividers



Suitable also for roller-mounted application (RSC)




Replaceable glide shoes for longer service life in gliding applications

Key for abbreviations  
on page 60

Design guidelines  
from page 12

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

| Type  | Opening variant | Stay variant | $h_i$<br>[mm] | $h_G$<br>[mm] | $B_i$<br>[mm] | $B_k$<br>[mm] | $B_i$ -<br>grid<br>[mm] | t<br>[mm] | KR<br>[mm] | Additional<br>load<br>≤ [kg/m] | Cable-<br>$d_{max}$<br>[mm] |
|---|-----------------|--------------|---------------|---------------|---------------|---------------|-------------------------|-----------|------------|--------------------------------|-----------------------------|
|   |                 |              |               |               |               |               |                         |           |            |                                |                             |
| <b>TKHD90</b>   |                 | RMF          | 87            | 117           | 100–800       | 170–870       | 1                       | 90        | 250–360    | 100                            | 69                          |
|  |                 |              |               |               |               |               |                         |           |            |                                |                             |

# TKHD series | Overview

| Unsupported arrangement  |                      |                                    | Gliding arrangement      |                      |                                    | Inner distribution |     |     |     | Installation variants        |                   |                      | Page |
|--------------------------|----------------------|------------------------------------|--------------------------|----------------------|------------------------------------|--------------------|-----|-----|-----|------------------------------|-------------------|----------------------|------|
| Travel length $\leq$ [m] | $v_{max} \leq$ [m/s] | $a_{max} \leq$ [m/s <sup>2</sup> ] | Travel length $\leq$ [m] | $v_{max} \leq$ [m/s] | $a_{max} \leq$ [m/s <sup>2</sup> ] | TS0                | TS1 | TS2 | TS3 | vertical hanging or standing | lying on the side | rotating arrangement |      |
| 13.5                     | 5                    | 2.5                                | 200                      | 2                    | 2.5                                | ●                  | ●   | -   | -   | ●                            | -                 | -                    | 378  |

Inner heights



Inner widths



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

# TKHD90

Key for abbreviations  
on page 60Pitch  
90 mmInner height  
87 mmInner widths  
100 – 800 mmBending radii  
250 – 360 mm

## Stegbauarten



**Aluminum stay RMF** ..... page 378

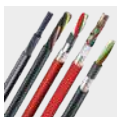
### Frame stay, solid

- Aluminum profile bars for heavy loads and large cable carrier widths. Easy threaded connection.
- **Inside/outside:** Threaded joint easy to release.

Design guidelines  
from page 12Technical support:  
[technik@kabelschlepp.de](mailto:technik@kabelschlepp.de)

### TOTALTRAX® complete systems

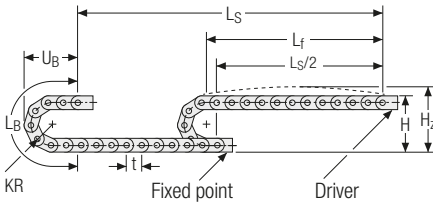
Benefit from the advantages of the TOTALTRAX® complete system. A complete delivery from one source – with a warranty certificate on request! Learn more at [tsubaki-kabelschlepp.com](http://tsubaki-kabelschlepp.com)



### TRAXLINE® cables for cable carriers

Hi-flex electric cables which were specially developed, optimised and tested for use in cable carriers can be found at [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] |
|---------|--------|---------------------|---------------------|---------------------|
| 250     | 680    | 860                 | 965                 | 510                 |
| 310     | 800    | 980                 | 1154                | 570                 |
| 360     | 900    | 1080                | 1311                | 620                 |

Inner heights



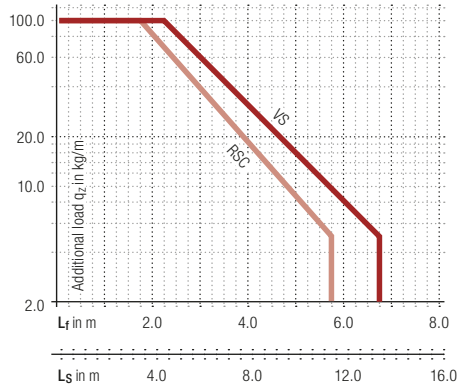
Inner widths



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

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

Intrinsic cable carrier weight  $q_k = 10 \text{ kg/m}$ . For other inner widths, the maximum additional load changes.



- KS — Pre-tensioning of the cable carrier for unsupported arrangement, maximum H<sub>z</sub> dimension.
- RSC — Decreased pre-tensioning of the cable carrier for RSC (rolling system) application, reduced H<sub>z</sub> dimension.

**Speed**  
up to 5 m/s

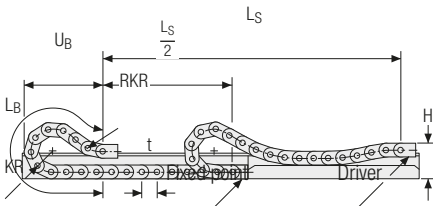
**Acceleration**  
up to 2.5 m/s<sup>2</sup>

**Travel length**  
up to 13.5 m

**Additional load**  
up to 100 kg/m

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## Gliding arrangement



The gliding cable carrier must be guided in a channel. See p. 702.

Glide shoes must be used for gliding applications.

**Speed**  
up to 2 m/s

**Acceleration**  
up to 2.5 m/s<sup>2</sup>

**Travel length**  
up to 200 m

**Additional load**  
up to 100 kg/m



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

Aluminum stay RMF – frame stay solid

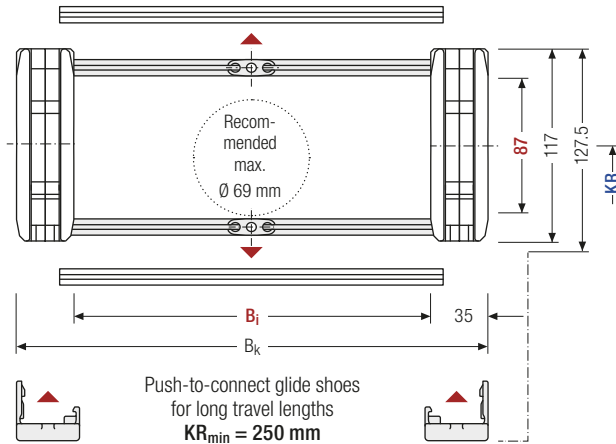
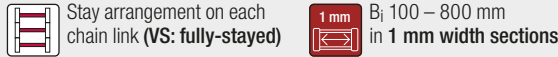
- Aluminum profile bars for heavy loads and large cable carrier widths. Easy threaded connection.
- Available customized in **1 mm grid**.
- **Inside/outside:** Threaded joint easy to release.



Key for abbreviations on page 60

Design guidelines from page 12

Technical support: technik@kabelschlepp.de



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

Calculating the cable carrier length

Cable carrier length  $L_k$

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

Cable carrier length  $L_k$  rounded to pitch t

| $h_i$<br>[mm] | $h_G$<br>[mm] | $h_G'$<br>[mm] | $B_i$<br>[mm]* | $B_k$<br>[mm] | KR<br>[mm] |     |     | $q_k$<br>[kg/m] |
|---------------|---------------|----------------|----------------|---------------|------------|-----|-----|-----------------|
| 87            | 117           | 127.5          | 100 – 800      | $B_i + 70$    | 250        | 310 | 360 | 10.37 – 17.47   |

\* in 1 mm width sections

Order example

TKHD90 · 400 · RMF · 310 · 2700 · VS  
 Type  $B_i$  [mm] Stay variant KR [mm]  $L_k$  [mm] Stay arrangement

## Divider systems

As a standard, the divider system is mounted on every 2<sup>nd</sup> chain link on the center bracket.

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

For applications with lateral acceleration and free hanging on the side, the dividers can be attached by simple insertion of a fixing profile into the RMF stay, available as an accessory (**version B**).

Inner heights



Inner widths



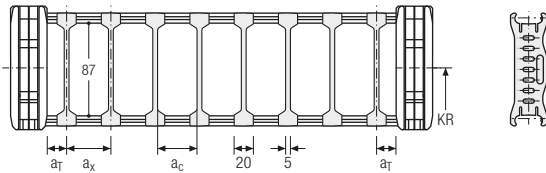
Increments



### 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] | a <sub>x</sub> Raster [mm] | n <sub>T</sub> min |
|-------|-------------------------|-------------------------|-------------------------|----------------------------|--------------------|
| A     | 10                      | 20                      | 15                      | —                          | —                  |
| B     | 12.5                    | 20                      | 15                      | 5                          | —                  |

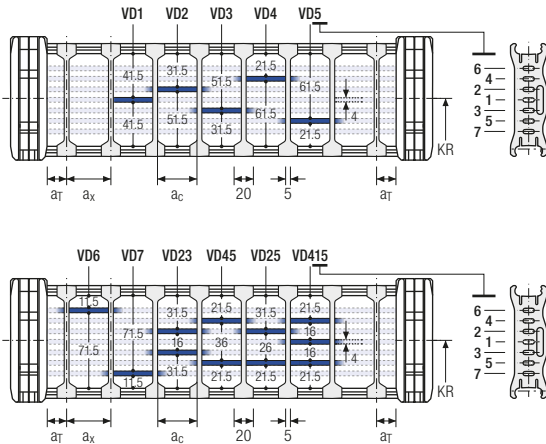
The dividers can be moved within the cross section (version A) or fixed (version B).



### Divider system TS1 with continuous height separation

| Vers. | a <sub>T</sub> min [mm] | a <sub>x</sub> min [mm] | a <sub>c</sub> min [mm] | a <sub>x</sub> Raster [mm] | n <sub>T</sub> min |
|-------|-------------------------|-------------------------|-------------------------|----------------------------|--------------------|
| A     | 10                      | 20                      | 15                      | —                          | 2                  |
| B     | 12.5                    | 20                      | 15                      | 5                          | 2                  |

The dividers can be moved within the cross section (version A) or fixed (version B).



### Order example

TS1

A

3

—

—

VD1

⋮
⋮
⋮

—

—

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).



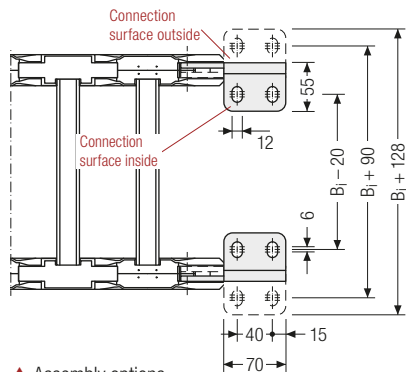
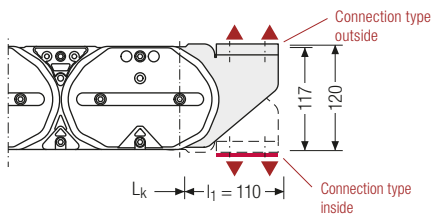
## End connectors – steel

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 60

Design guidelines from page 12

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



### Connection point

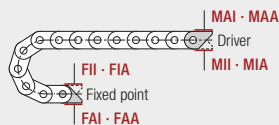
- F** – fixed point
- M** – driver

### Connection surface

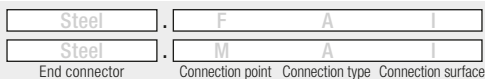
- I** – connection surface inside
- A** – connection surface outside

### Connection type

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



## Order example



We recommend the use of strain reliefs before driver and fixed point. See from p. 756.

## 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)



**TKHD  
series**

Inner  
heights



Inner  
widths



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