THE NEXT GENERATION
FOR YOUR APPLICATIONS

QuickTrax
EasyTrax
UNIFLEX Advanced
TKA series
THE NEXT GENERATION FOR YOUR APPLICATIONS

For more than 60 years Tsubaki KabelSchlepp™ has been developing and providing products to handle industrial cable management needs in the toughest of applications. Such innovation has resulted in industry specific developments of our cable carriers for a variety of industry segments, such as machine tool, port and cranes, medical and laboratory technology, Oil and Gas, industrial robots, and even space travel. One example of our dedication to quality is the UNIFLEX cable carrier line. This product range has proven its level of dependability with millions of carriers currently in operation.

In response to increased customer application demands, we have continuously expanded our product range and are now able to develop new application options with improved features. We are pleased to present the next generation of our cable carriers. With the new UNIFLEX ADVANCED, TKA, and Easytrax and QuickTrax lines added to our product offering, we have once again increased what’s possible with a cable carrier. This increased range of products, with improved features insures that you get the perfect solution for your application in terms of performance, quality, and choice of materials. Like our cable carriers, Tsubaki KabelSchlepp is always in motion.

60 YEARS OF INNOVATIONS AND THOUSANDS OF SUCCESSFUL APPLICATIONS
COMPATIBLE CONNECTION
Various connection options feasible.

OPENING VARIANTS
For maximum flexibility: six opening variants for any requirement.

TIGHT
Keeps dust, chips, and dirt out of your cable carrier. Even protects against water spray.

VARIABLE DIVIDER SYSTEM
Movable and fixed dividers – so everything stays in place.

SAVINGS
Easy handling and fast installation of our products will save you time and money.

EXCELLENCE
Winner of the IF Product Design Award 2013: the TKA55.

FAST DELIVERY
All products are available from stock. It doesn’t get any faster than that.

ECO LINK
For the active reduction of CO₂ emissions: the Tsubaki environment label.


**THE NEXT GENERATION**

**QuickTrax**

- Inside height: 20 mm
- Inside widths: 15 – 65 mm
- Pitch: 32 mm
- Additional load: up to 2 kg/m
- Extended self-supporting lengths: up to 2 m
- Travel length gliding: up to 80 m
- Travel speed: up to 10 m/s
- Travel acceleration: up to 50 m/s²

**FEATURES**

- Fast and easy cable installation thanks to film hinge lids
- Extremely low noise due to integrated noise damping
- Extensive self-supporting length
- High torsional rigidity
- Each chain link consists of two different materials:
  - Hard cable carrier body made of glass fiber-reinforced material
  - Bracket with flexible film hinge made of elastic special plastic
- Sturdy chain design
- High fill level possible

### Type

<table>
<thead>
<tr>
<th>Type</th>
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<tbody>
<tr>
<td>QT0320</td>
<td>20</td>
<td>15 – 65</td>
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**Ex-protection**

For Ex-protection applications, we offer customized solutions made from solid plastic, hybrid or steel cable carriers, which meet the requirements of the standard (with < 10⁵ Ω).

**ESD**

Our proven ESD cable carriers based on nano-technology with carbon tubes easily meet the requirements of the ESD standard (with < 10⁹ Ω) in terms of conductivity and resistance.
**INTRODUCTION TO THE NEXT GENERATION – IT COULDN’T BE SIMPLER**

<table>
<thead>
<tr>
<th>Type</th>
<th>h₁ [mm]</th>
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*On request

**New widths from 2015**

**Designs**
- 030 = Outward hinged-opening and detachable brackets
- 035 = Outward hinged-opening and lockable brackets
- 040 = Inward hinged-opening and detachable brackets
- 045 = Inward hinged-opening and lockable brackets
- 050 = Covered on one side with internally detachable bracket
- 055 = Covered on one side with internally lockable bracket
- 060 = Covered on both sides with internally detachable cover

**THE TWO-COMPONENT TECHNOLOGY OF THE QT0320**

The two-component technology of the QT0320 combines two seemingly incompatible features: stability and flexibility. Cable carriers need to be extremely sturdy, with extensive self-supporting length. At the same time, cables need to be inserted easily for fast cable laying. The QT0320 meets these requirements thanks to its innovative design and material combination of a hard cable carrier body made from glass fiber-reinforced material and brackets with a film hinge made from rigid special plastic.
Inside height
18 mm

Inside widths
15 – 65 mm

Pitch
32 mm

Additional load
up to 2 kg/m

Extended self-supporting lengths
up to 2 m

Travel length
up to 80 m

Travel speed
up to 10 m/s

Travel acceleration
up to 50 m/s²

FEATURES

- Fast cable installation thanks to our swinging film hinge lid
- Very high fill level due to the bracket pivoting to the side – bracket does not pivot into the cable space
- Each chain link consists of two different materials:
  - Hard cable carrier body made of glass fiber-reinforced material
  - Bracket with flexible film hinge made of elastic special plastic
- Sturdy chain design
- High torsional rigidity
- Extensive self-supporting length
- Extremely low noise due to integrated noise damping

Ex-protection
For Ex-protection applications, we offer customized solutions made from solid plastic, hybrid or steel cable carriers, which meet the requirements of the standard (with < 10⁵ Ω).

ESD
Our proven ESD cable carriers based on nano-technology with carbon tubes easily meet the requirements of the ESD standard (with < 10⁹ Ω) in terms of conductivity and resistance.
**INTRODUCTION TO THE NEXT GENERATION – IT COULDN'T BE SIMPLER**

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</table>

1. Sturdy two-component design: hard glass fiber-reinforced cable carrier body, flexible film hinge
2. Chain links made of plastic
3. Extensive self-supporting length
4. Inside space is gentle on the cables – no interfering edges
5. Extremely low noise due to integrated noise damping
6. For inward/outward opening
7. Dividers and height separations for cable separation
8. Single-part end connectors with and without integrated strain relief

**THE TWO-COMPONENT TECHNOLOGY OF THE ET0320**

The two-component technology of the ET0320 combines two seemingly incompatible features: stability and flexibility. Cable carriers need to be extremely sturdy, with extensive self-supporting length. At the same time, cables need to be inserted easily for fast cable laying. The ET0320 meets these requirements thanks to its innovative design and material combination of a hard cable carrier body made from glass fiber-reinforced material and brackets with a film hinge made from rigid special plastic.

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*On request

New widths from 2015

Designs

030 = Outward hinged-opening and detachable brackets
035 = Outward hinged-opening and lockable brackets
040 = Inward hinged-opening and detachable brackets
THE NEXT GENERATION

UNIFLEX Advanced

- Inside heights: 20 – 44 mm
- Inside widths: 15 – 250 mm
- Pitch: 32 – 66.5 mm
- Additional load: up to 10 kg/m
- Extended self-supporting lengths: up to 3.6 m
- Travel length gliding: up to 150 m
- Travel speed: up to 10 m/s
- Travel acceleration: up to 50 m/s²

FEATURES

- Universal connection options
- Extensive self-supporting lengths
- High torsional rigidity
- Good ratio of inner to outer width
- Low noise emissions
- Numerous custom material types for custom applications available
- Easy assembly
- Fast cable installation
- Assembly tools available
- Cross bars with ball joint construction, so cross bars can swing open to either side
- Strain relief integrated into the end connector
- Locking vertical dividers available
- Many possibilities for internal subdivision
- Optionally with C-rail integrated in the connector
- Wear surfaces for gliding applications involving long travel lengths

Ex-protection

For Ex-protection applications, we offer customized solutions made from solid plastic, hybrid or steel cable carriers, which meet the requirements of the standard (with < 10⁶ Ω).

ESD

Our proven ESD cable carriers based on nano-technology with carbon tubes easily meet the requirements of the ESD standard (with < 10⁹ Ω) in terms of conductivity and resistance.

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<td>UA1665</td>
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<td>50 – 250</td>
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</table>
1. Universal Mounting Bracket (UMB) with integratable strain relief comb
2. Designs with inward or outward opening links
3. Extremely fast and easy to open due to ball joint mechanism
4. Extender bars available
5. Single-part links (design 020)
6. Favorable ratio of inner to outer width
7. Many separation options for the cables
8. Robust, double stroke system for long self-supporting lengths
9. Easy divider fixing
10. Extremely low noise due to internal noise damping
11. Lateral wear surfaces
12. Single-part end connectors with integratable strain relief comb

INTRODUCTION TO THE NEXT GENERATION – IT COULDN’T BE SIMPLER

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- New widths from 2015
- Except B 90
- Only as version 030
- Up to B 175
- B. 50 on request
- On request
- As UNIFLEX 0455 still available in B, 130
- The pull-out forces of the UNIFLEX Advanced design 030/040 correspond to the UNIFLEX designs 035/045
- Designs
  - 020 = Closed frame
  - 030 = Outward hinged-opening and detachable brackets
  - 035 = Outward hinged-opening and lockable brackets
  - 040 = Inward hinged-opening and detachable brackets
  - 045 = Inward hinged-opening and lockable brackets
  - 050 = Covered on one side with internally detachable brackets
  - 055 = Covered on one side with internally lockable bracket
  - 060 = Covered on both sides with internally detachable cover

Example of cross section
THE NEXT GENERATION
TKA series

Inside heights
20.5 – 45 mm

Inside widths
15 – 250 mm

Pitch
30.5 – 55.5 mm

Additional load
up to 10 kg/m

Extended self-supporting lengths
up to 6 m

Travel length gliding
up to 150 m

Travel speed
up to 9 m/s

Travel acceleration
up to 45 m/s²

FEATURES

- Excellent cable protection in the connector area
- Chipping and dirt-resistant
- Extensive self-supporting length
- High torsional rigidity
- Good ratio of inner to outer width
- Low noise emissions
- Optional: on request, special material with protection against hot chips up to 850 °C
- Numerous custom material types for custom applications available
- Easy assembly
- Fast cable installation
- TKA55: IP54 tested and certified
- Easy-to-open cover with simultaneously high retention force on the chain link during operation
- Measurement scale for easy alignment of the dividers
- Strain relief can be completely integrated into the mounting bracket (from TKA38)

Ex-protection
For Ex-protection applications, we offer customized solutions made from solid plastic, hybrid or steel cable carriers, which meet the requirements of the standard (with < 10⁵ Ω).

ESD
Our proven ESD cable carriers based on nano-technology with carbon tubes easily meet the requirements of the ESD standard (with < 10⁹ Ω) in terms of conductivity and resistance.

<table>
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### INTRODUCTION TO THE NEXT GENERATION – IT COULDN’T BE SIMPLER

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<tr>
<td>End connectors with optional strain relief</td>
<td>Interior gentle on the cables with no projecting edges</td>
<td>Integrated noise damper</td>
<td>Dividers and height separation for separating the cables</td>
<td>Quick and easy opening from any vantage point</td>
<td>Secure cover attachment even under severe stresses (e.g. due to hydraulic lines)</td>
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</table>

1. **TKA30** = Outward hinged-opening and detachable brackets
2. **TKA38** = Outward hinged-opening and lockable brackets
3. **TKA45** = Inward hinged-opening and detachable brackets
4. **TKA55** = Inward hinged-opening and lockable brackets
5. **UNIFLEX 0345** = Covered on one side with internally detachable bracket
6. **UNIFLEX 0455** = Covered on one side with internally lockable bracket
7. **UNIFLEX 0555** = Covered on both sides with externally detachable cover
8. **UNIFLEX 0665** = Covered on both sides with internally detachable cover

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1 Except width 90
2 Up to $B_i$ 175
CHOOSE ...

... the best possible cable carrier for your requirements. Use the table below to easily decide which cable carrier from the new generation is right for you.

INTRODUCTION TO THE NEXT GENERATION – IT COULDN’T BE SIMPLER

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1 New widths from 2015
2 The pull-out forces of the UNIFLEX Advanced design 030/040 correspond to the UNIFLEX designs 035/045
3 Except B 00
4 As UNIFLEX 0455 still available in B 130
5 Only as version 030
6 B 50 on request
7 Up to B 173
### KR [mm]

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### Designs

- **020** = Closed frame
- **030** = Outward hinged-opening and detachable brackets
- **035** = Outward hinged-opening and lockable brackets
- **040** = Inward hinged-opening and detachable brackets
- **045** = Inward hinged-opening and lockable brackets
- **050** = Covered on one side with internally detachable bracket
- **055** = Covered on one side with internally lockable bracket
- **060** = Covered on both sides with internally detachable cover
- **080** = Covered on both sides with externally detachable cover
TSUBAKI KABELSCHLEPP cables were developed specifically for use in cable carriers. The reliable, durable yet inexpensive cables can even be used outdoors under adverse environmental conditions, e.g. in port crane systems which impose stringent demands on motor and control cables due to long travel lengths and high travel speeds.

**PVC CONTROL CABLES**
Cost-effective control cables for standard applications
- Temperature: – 5 to + 80 °C
- Minimum bending radius: \( \text{KR}_{\text{min}} \geq 7.5 \times \Omega \)
- \( v_{\text{max\ unsupported}} \): 3.5 – 10 m/s
- \( a_{\text{max}} \): 10 – 20 m/s²
- Cross section: 0.5² to 2.5²
- Number of cores: 2 – 36

**PUR CONTROL CABLES**
High-quality control cables for the most sophisticated applications
- Temperature: – 35 to + 90 °C
- Minimum bending radius: \( \text{KR}_{\text{min}} \geq 7.5 \times \Omega \)
- \( v_{\text{max\ unsupported}} \): 20 m/s
- \( a_{\text{max}} \): 50 m/s²
- Cross section: 0.5² to 2.5²
- Number of cores: 2 – 36

**PUR MOTOR CABLES**
Robust motor cables for sophisticated applications
- Temperature: – 5 to + 80 °C
- Minimum bending radius: \( \text{KR}_{\text{min}} \geq 7.5 \times \Omega \)
- \( v_{\text{max\ unsupported}} \): 5 m/s
- \( a_{\text{max}} \): 20 m/s²
- Cross section: 1.5² to 70²
- Number of cores: 2 – 25

**PUR DATA CABLES**
Super-flexible, continuous bending and robust cables with an inner jacket
- Temperature: – 35 to + 90 °C
- Minimum bending radius: \( \text{KR}_{\text{min}} \geq 7.5 \times \Omega \)
- \( v_{\text{max\ unsupported}} \): 20 m/s
- \( a_{\text{max}} \): 50 m/s²
- Cross section: 0.25² to 1.5
- Number of cores: 2 – 32

**PUR BUS/COAXIAL/LWL CABLES**
Super-flexible, continuous bending and robust cables
- Temperature: – 30 to + 70 °C
- Minimum bending radius: type-dependent
- \( v_{\text{max\ unsupported}} \): 3.5 – 4 m/s
- \( a_{\text{max}} \): 10 m/s²
- Cross section: 0.25² to 1.5
- Number of cores: 1 – 12

**PUR SYSTEM CABLES**
High-quality combination cables for sophisticated system applications
- Temperature: – 35 to + 90 °C
- Minimum bending radius: \( \text{KR}_{\text{min}} \geq 7.5 \times \Omega \)
- \( v_{\text{max\ unsupported}} \): 6 m/s
- \( a_{\text{max}} \): 8 m/s²
- Cross section: 0.14² to 50²
- Number of cores: 4 – 16

**TRAXLINE® INFO CENTER**
With the aid of the TRAXLINE info center, you can find the right cable for your cable carrier system with just a few clicks of the mouse. Simply enter the parameters for your application at traxline.de and find the ideal cable for your requirements.
TOTALTRAX COMPLETE SYSTEMS

REDUCE COSTS WITH TOTALTRAX COMPLETE SYSTEMS

Take advantage of our expertise. Our experienced system specialists work closely together with you and support you from the design and project planning phases all the way up to the installation process. You have just one contact partner for the complete system. All of the components are optimally aligned to one another – cable carriers, electric cables, hydraulic and pneumatic hoses and plug connections. TOTALTRAX means: Complete delivery from a single source – with a guarantee certificate on request. TOTALTRAX will reduce your storage costs for cable carriers, cables and plug connectors. We deliver the complete cable carrier system just-in-time, either directly to your production facilities or to the installation site.

EVERYTHING FROM A SINGLE SOURCE:
- Consultancy
- Planning
- Project planning
- Cable carriers
- Motor and control cables
- Full guarantee
- Hydraulic hoses
- Pneumatic hoses
- Plug connectors
- Assembly plates
- Complete assembly of all components

TOTALTRAX – FROM THE PROJECT PLANNING TO THE COMPLETED SYSTEM

One contact partner
+ One order
+ One delivery
+ Guaranteed quality

= TOTALTRAX complete system
CABLE CARRIER SYSTEMS
- Cable carriers made of steel and plastic
- QUANTUM cable and hose carrier system
- PROTUM cable and hose carrier system
- ROBOTRAX cable and hose carrier system

TRAXLINE® CABLES FOR MOTION
- Continuous bending Hi-flex cables for cable carriers
- TOTALTRAX complete turn-key carrier system
- Pre-assembled cables

GUIDEWAY PROTECTION SYSTEMS
- Telescopic covers
- Link apron covers
- Way wipers
- Conical spring covers
- Bellows
- Protective devices

CONVEYOR SYSTEMS
- Hinged belt conveyors
- Scraper conveyors
- Belt conveyors