



Innovative solutions

for the machine tool industry



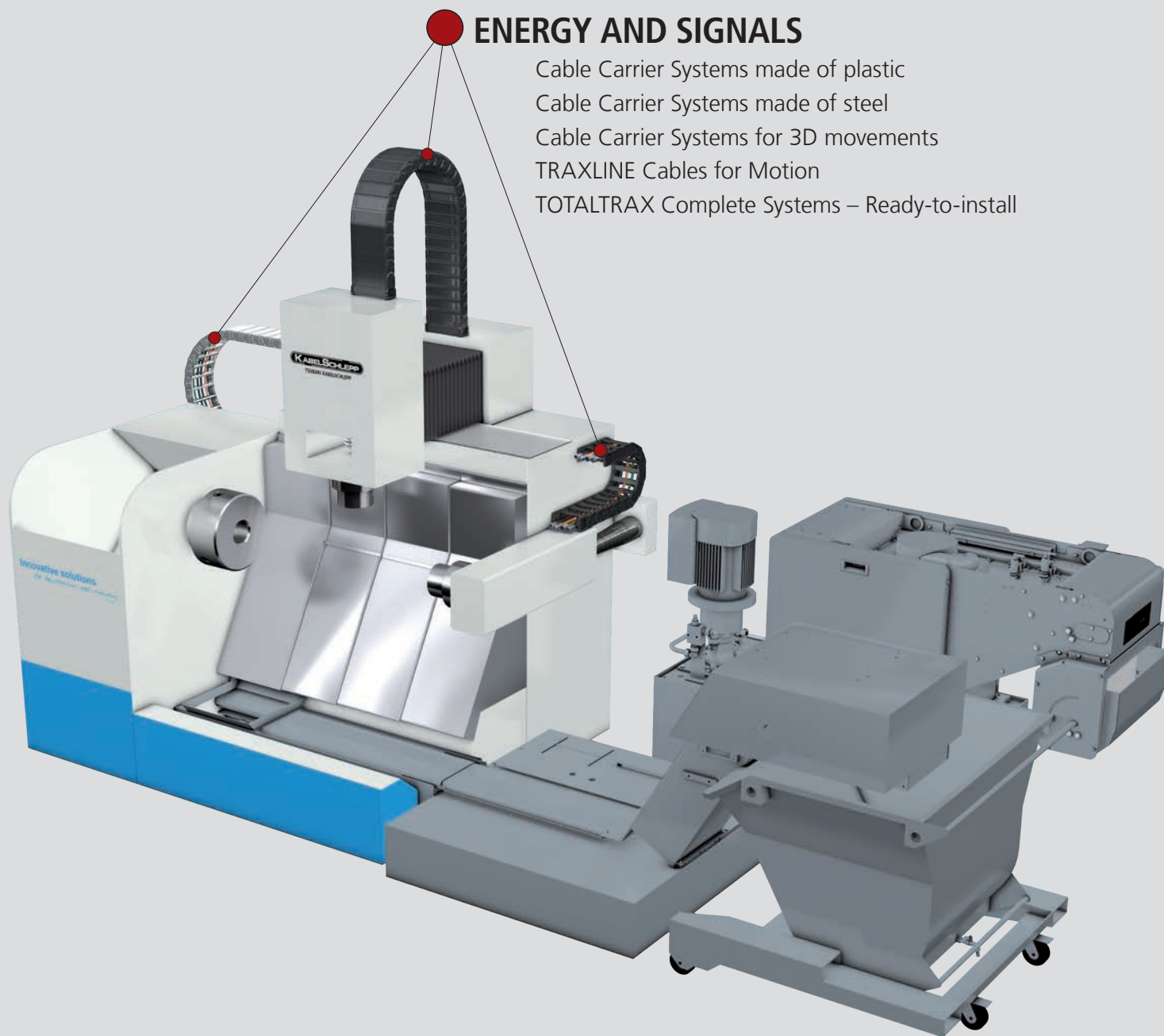
CABLE CARRIER SYSTEMS
TRAXLINE® CABLES FOR MOTION
TOTALTRAX® COMPLETE TURN-KEY CARRIER SYSTEMS
GUIDEWAY PROTECTION SYSTEMS
CONVEYOR SYSTEMS

Innovative solutions

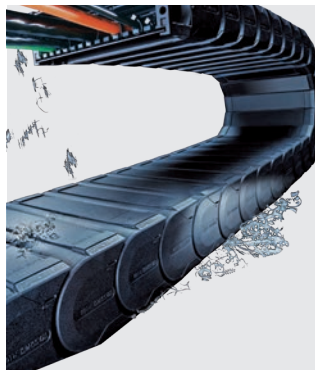
for the machine tool industry

ENERGY AND SIGNALS

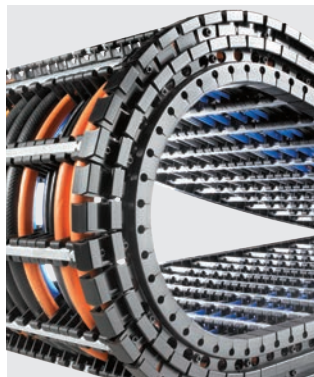
Cable Carrier Systems made of plastic
Cable Carrier Systems made of steel
Cable Carrier Systems for 3D movements
TRAXLINE Cables for Motion
TOTALTRAX Complete Systems – Ready-to-install



ENERGY AND SIGNALS see page 4



STANDARD
applications



ADVANCED
applications



EXTREME
applications



3D applications



TRAXLINE
Cables for Motion



TOTALTRAX
Ready-to-install



Application examples
see page 16

Innovative solutions

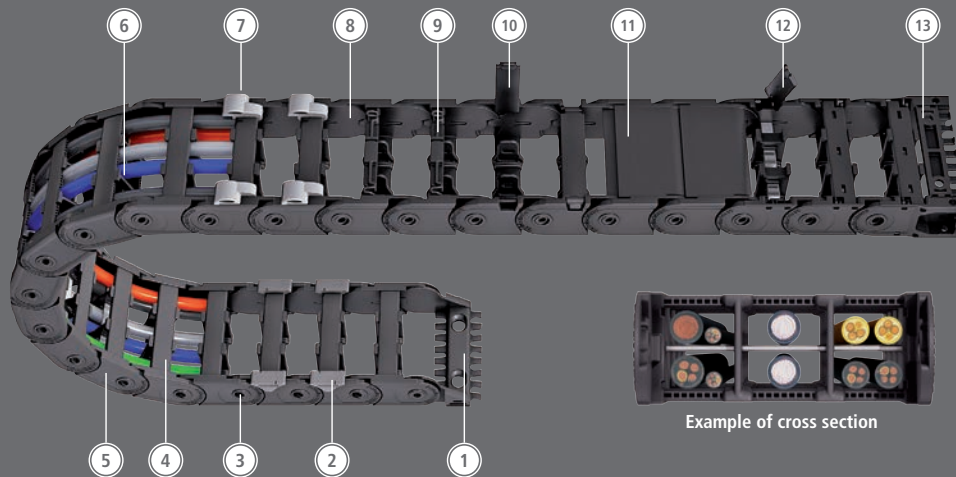
for the machine tool industry

ENERGY AND SIGNALS

STANDARD applications

Solid plastic cable and hose carrier systems with fixed chain widths

Reliable cable and hose carrier systems with simple designs for standard applications. Due to its vast range of various carrier types and designs, TSUBAKI KABELSCHLEPP can offer reliable and cost-efficient solutions such as extremely compact designs, types with non-opening or opening crossbars for fast and easy cable installation, as well as tube style options for superior protection from chips and other debris.



- ① Mounting brackets with integrated strain relief
- ② Replaceable glide shoes for extending system life
- ③ Robust, double stroke system for long unsupported lengths
- ④ Types with non-opening, single-part chain link design
- ⑤ Chain links made of plastic
- ⑥ Vertical and horizontal divider options separate and organize cables
- ⑦ Outer noise dampening elements
- ⑧ Inside space is gentle on the cables – no interfering edges
- ⑨ Very fast and easy cable installation by simply pressing in of the cables
- ⑩ Types with openable crossbars – for easy cable installation
- ⑪ Optional designs covered on one side or on both sides with plastic cover system
- ⑫ Types with detachable crossbars
- ⑬ Universal mounting brackets (UMB) with integrated strain relief comb

Sub-division



simple

Height



4.6 – 44 mm

Width



6 – 250 mm

Load



up to 10 kg/m

Travel path



up to 150 m

Travel speed



up to 10 m/s

Acceleration



up to 50 m/s²

The assigned values are average values. Depending on the specific application, the maximum values may differ significantly. For detailed information please contact us.

MONO

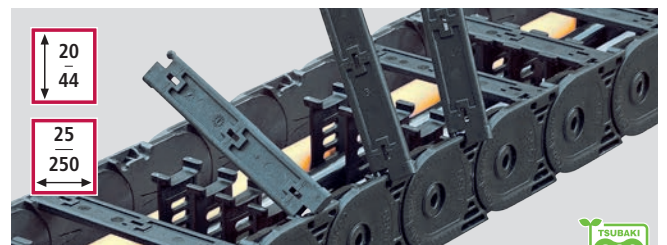
Cable carriers with simple design for standard applications



- Simple single piece chain links design with either non-opening or hinged opening crossbars
- Simple and quick assembly
- Compact design for operation in tight spaces
- Mounting brackets with integrated strain relief

UNIFLEX Advanced

Light, quiet standard track for a wide range of applications



- Noise-optimized for quiet operation
- Designs with inward or outward opening or non-opening crossbars available
- Crossbars fast and easy to open due to ball joint hinge mechanism
- Dividers movable or fixed in place
- Long unsupported lengths
- Various cavity partitioning options for the cables

More Information:

call: 800-443-4216 or visit: ustsubaki.com

ENERGY AND SIGNALS

STANDARD applications

TKA Series

Chip-tight right to the end



*Refers to type TKA55 with Bi 50 – 175.

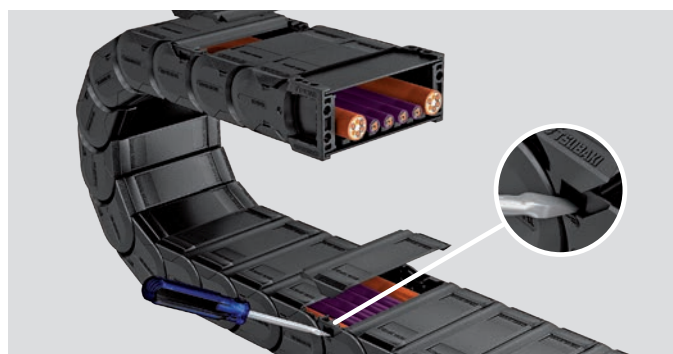
Splash- and dustproof – in more than 300 sizes

The enclosed cable and hose carrier TKA55 was specifically developed for use in environments with contamination from chips and dirt. The design effectively prevents the ingress of foreign bodies into the cable space and provides reliable protection of the cables, up to the protection class IP54 – tested and attested by the TÜV Nord (German Technical Inspection Authority, North).*

The geometry of the chain links of the TKA series and the 3-fold, encapsulated stroke system enables extensive

unsupported length and high torsional rigidity. Integrated gliding surfaces also predestine them for long travel lengths. Easy to open cover provides secure hold, even under severe mechanical stresses, e.g. when used with hydraulic cables.

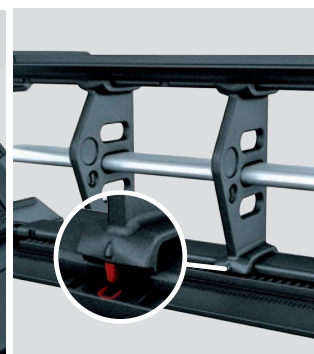
The TKA45, TKA38 and TKA30 types were developed modeled on the TKA55. There is a total of more than 300 versions available with inner widths of 15 to 175 mm and inner heights of 20.5 to 45 mm.



Versions available opening inwards or outwards



Cover system also in the connection area



Fixable dividers with arresting cams

Innovative solutions

for the machine tool industry

ENERGY AND SIGNALS

STANDARD applications

TKA Series

Chip-tight right to the end



- 1 Secure cover attachment even under severe stresses (e.g. due to hydraulic cables)
- 2 Designs with inward or outward opening covers
- 3 Cable-friendly interior space without sharp edges
- 4 Cover completely detachable on one side
- 5 Quick and easy opening from any vantage point
- 6 Connecting pieces with optional strain relief
- 7 Dividers and height separation for cables
- 8 Chain links made of glass fiber-reinforced plastic
- 9 Cover sheet for universal mounting bracket
- 10 Integrated noise damping system
- 11 Pin and bore connection and stroke system covered completely



Example of cross section

Pitch	Height	Width	Load	Travel path unsupported	Travel path gliding	Travel speed	Acceleration
30.5 – 55.5 mm	20.5 – 45 mm	15 – 175 mm	up to 10 kg/m	up to 6 m	up to 150 m	up to 9 m/s	up to 45 m/s ²

The assigned values are average values. Depending on the specific application, the maximum values may differ significantly. For detailed information please contact us.

Splash- and dustproof – in more than 300 sizes

- Impermeability against chips, excellent cable protection also in the connection area
- TKA55: IP54 tested and attested (TÜV NORD)
- On request, also in special material with protection against hot chips up to 850 °C
- Quick routing of the cables, easy to open
- Inner or outer opening variants available
- Extensive unsupported length due to 3-fold stroke system
- Integrated gliding surfaces for gliding arrangements
- Suppressed against vibration and noise using an internal damping system
- High torsional rigidity



TKA30



6 inside widths
15 – 65 mm



TKA38



6 inside widths
25 – 130 mm



TKA45



5 inside widths
50 – 150 mm



TKA55



6 inside widths
50 – 175 mm

More Information:

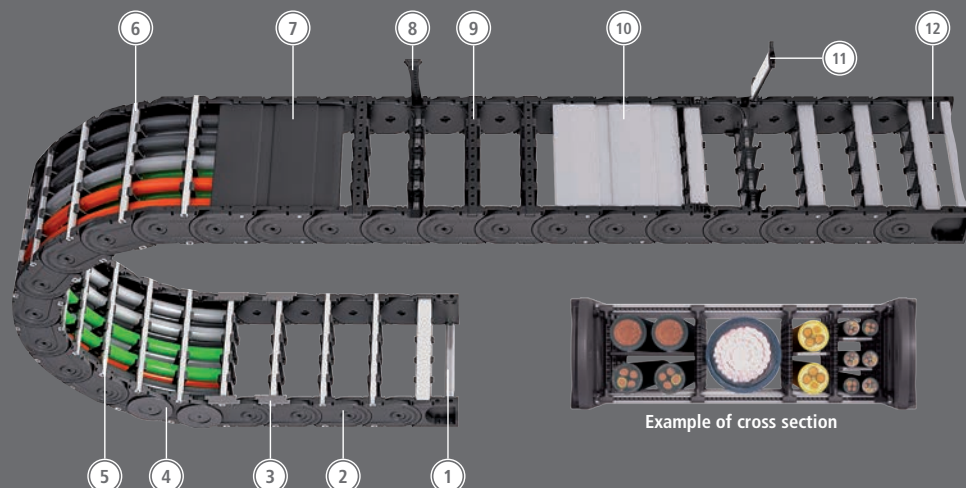
call: 800-443-4216 or visit: ustsubaki.com

ENERGY AND SIGNALS

ADVANCED applications

Cable and hose carrier systems with variable chain widths

With more than 50,000 design options, ranging from easy-to-open/snap-open or bolted-on frame stay systems to cavity extender systems guiding large vacuum hoses to enclosed tube frame stay systems that provide superior protection from dirt and debris. We offer the ideal solution to fit any application. As an example, cable carriers with linkless design can operate at extreme speeds. Numerous frame stay options allow even the most complex cable configurations to be safely and efficiently partitioned within the carrier cavity.



- ① C-Profile strain relief elements
- ② Minimized hinge wear due to the "life extending 2 disc principle"
- ③ Replaceable glide shoes
- ④ Extremely robust due to heavy-duty link plate/sideband design
- ⑤ Vast selection of cavity partitioning options
- ⑥ Aluminum frame stays available in 1 mm width increments
- ⑦ Plastic covers available in 8 or 16 mm width increments
- ⑧ Crossbars can be quickly opened on the inside or outside radius for easy cable installation
- ⑨ Plastic crossbars available in 4, 8 or 16 mm width increments
- ⑩ Aluminum covers available in 1 mm width increments
- ⑪ Aluminum frame stays with ball joint hinge mechanism
- ⑫ Universal mounting brackets (UIMB)

Sub-division



complex

Height



19 – 108 mm

Width



25 – 1000 mm

Load



up to 65 kg/m

Travel path



up to 350 m

Travel speed



up to 40 m/s

Acceleration



up to 300 m/s²

The assigned values are average values. Depending on the specific application, the maximum values may differ significantly. For detailed information please contact us.

MASTER Series

Quiet and weight-optimized carriers



- Light design with weight-optimized sideband construction
- Excellent ratio of inside to outside height
- Customized bend radii are available
- Plastic covers available

M Series / MT Series

Robust and versatile design



- Various separation options
- Large selection of frame stay systems
- Ideal for fast, gliding applications; replaceable glide shoes made of highly wear-resistant special plastic material
- Plastic or aluminum covers available

QUANTUM

Light, quiet, low-vibration



- Suitable for clean room environments
- Allows for high acceleration and high travel speeds
- Long service life – no link pins to wear out
- Linkless design: sidebands made of extruded material

Innovative solutions

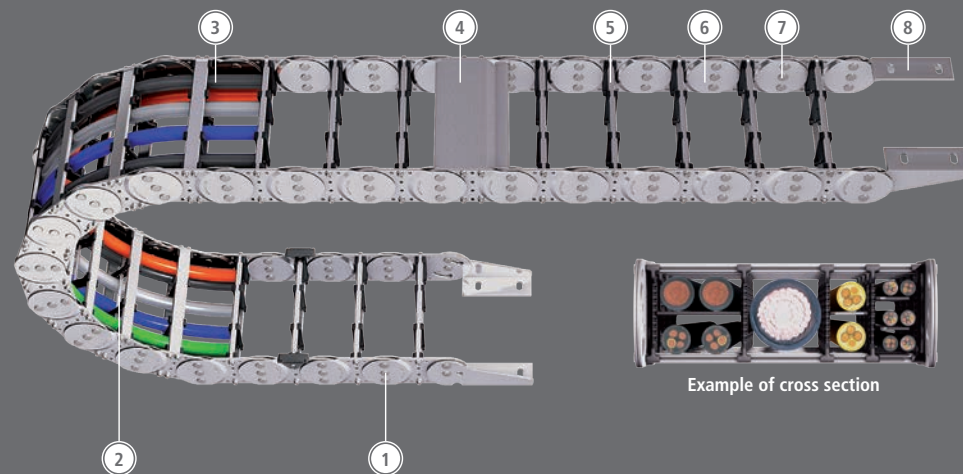
for the machine tool industry

ENERGY AND SIGNALS

EXTREME applications

Steel/stainless steel cable carrier systems – solutions for extreme applications

Lubricant-free cable and hose carrier systems made of steel or stainless steel for applications in extreme environments. Steel and stainless steel carrier systems are the carrier of choice for operation in extreme heat or the harshest environments. We offer various carrier types and designs ranging from compact style to super-sized carriers. Customized cavity partitioning as well as aluminum cover systems provide optimum cable protection even under heavy mechanical loads/stress.



- ① Link design with special bolts for long service life
- ② Various cable separation options
- ③ Dividers made of plastic or steel
- ④ Aluminum cover available in custom 1 mm width increments
- ⑤ Various custom crossbar options available in 1 mm width increments
- ⑥ Extremely robust sidebands; zinc plated or made of stainless steel
- ⑦ All steel cable carriers are lubricant-free
- ⑧ Variety of mounting bracket options available

STAINLESS STEEL
RUST-FREE
STEEL
ZINC PLATED

Sub-division	Height	Width	Load	Travel path	Travel speed	Acceleration
complex	24 – 370 mm	26 – 1500 mm	up to 600 kg/m	up to 25 m	up to 10 m/s	up to 20 m/s ²

The assigned values are average values. Depending on the specific application, the maximum values may differ significantly. For detailed information please contact us.

LS/LSX Series

Cost-effective, light-weight steel chains



- Improved dynamic characteristics due to weight-optimized design
- Long unsupported lengths for small to medium additional loads
- Cover with steel band for optimum cable protection available on request

S/SX Series

Extremely robust and heavy-duty steel chains



- Extremely robust and heavy-duty steel chains for large mechanical loads and harsh environmental conditions
- Very long unsupported lengths even for heavy additional loads
- Various types in a variety of dimensions available
- Aluminum cover available for maximum protection of the cables

ENERGY AND SIGNALS

3D applications

ROBOTRAX System – Cable and hose carrier systems for 3D movements

ROBOTRAX – cable and hose carrier system for robotic applications – is safe and gentle on the cables. Downtimes are reduced to a minimum. The open-style design allows for fast and easy installation and inspection of cables and hoses once installed. The ROBOTRAX series offers a vast assortment of accessories to perfectly fit the carrier system to the individual application. Solutions include accessories for impact protection, shock and vibration dampening, and heat sleeves for optimum cable protection.

- ① Steel wire for transmission of extremely large tensile forces
- ② Protective covers or heat shields made of various materials are available for a diverse range of environmental conditions
- ③ Quick-opening mounting brackets easily attach any link of the ROBOTRAX system to any mounting point on the robot
- ④ Fast cable installation by simply pressing the cables into the carrier system's cavity partitions: no threading through is required
- ⑤ Special plastic material for long service life



Example of cross section

Sub-division



several

Height



10 – 31 mm

Width

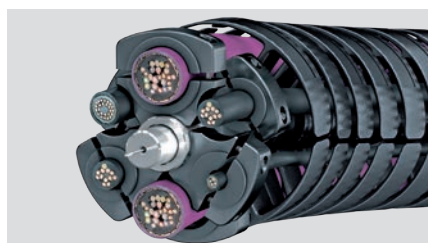


27 – 64 mm

The assigned values are average values. Depending on the specific application, the maximum values may differ significantly. For detailed information please contact us.

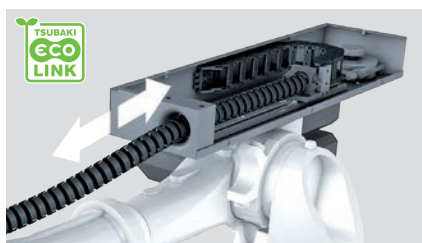
ROBOTRAX System

LineFix saddly-type clamps for strain relief



For secure and gentle cable installation. Multilayer strain relief with double and triple clamps available. Multiple systems can also be mounted one behind the other.

PULL-BACK-UNIT – PBU



Rapid, repetitive movements of relatively long cable carrier systems in large operating envelopes, constantly hitting the robot arm, are to blame for reducing the service life of the carrier and installed cables. This can lead to a failure of the overall robotic system with expensive downtime and production outages. By using the PULL-BACK UNIT, the service life of the cable carrier and cables is significantly extended and downtimes are kept to a minimum.

PROTECTOR



The service life of the cable carriers and cables is significantly reduced through impact when moving quickly and in large operating areas. The PROTECTOR protects the cable carrier from aggressive impact, excessive abrasion and premature wear and, simultaneously, provides limiting of the smallest bend radius. Down times are minimized. The complete cable carrier does not need to be replaced, just the PROTECTOR.

More Information:

call: 800-443-4216 or visit: ustsubaki.com

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ENERGY AND SIGNALS

TRAXLINE

Our cable ranges meet the highest quality standards. With the TRAXLINE range, we offer cables which are cost-effective and extremely durable. A key factor is their tested and proven operational reliability, which meets all applicable standards. Competent, objective-driven systems consultation and global on-site service are both part of what we consider an on-going commitment to the technical and commercial optimization. We deliver stock cables with no minimum quantities, each cut-to-length without extra cutting costs.

Properties:*

- n oil-resistant
- n hi-flex design
- n UV-resistant/UV-stable
- n RoHS-conform
- n metermarked

- n halogen-free
- n CFC-free
- n silicone-free
- n flame-retardant
- n ozone-resistant

* some properties are type-dependent; please contact us.

TRAXLINE CAT.5E / CAT.6 700 CD

Double-shielded continuous bending hi-flex CAT.5E / CAT.6 PUR cable



Conductor:
extremely fine stranded conductors of bare copper wires in an optimized hi-flex design

Shielding:
coverage 85 %
Outer jacket:
KS-PUR

Temperature range moved:
- 30 up to + 80 °C
Minimum bend radius moved:
 $KR_{min} \geq 10 \times \varnothing$

V_{max} unsp.: 3 m/s
V_{max} gliding: 3 m/s
a_{max}: 5 m/s²
Insulation resistance:
 $\geq 10 \text{ M}\Omega \times \text{km}$

Approvals:
cURus, based on VDE
Varying parameters possible – please contact us



Core insulation KS-PP/TPE
concentrically stranded



Outer jacket KS-PUR
pressure extruded hi-flex design, UV-resistant extremely abrasion-resistant



Overall double-shielding
continuous bending hi-flex, tin-plated copper braiding Coverage: approx. 90 % and foil shield

TRAXLINE System S 700 C

Shielded continuous bending hi-flex PUR signal cables



Conductor:
extra-fine wire conductor made from bare or tin-plated copper wires, design-optimized for maximum flexural strength

Shielding:
coverage 80/85 % (type-dependent)
Outer jacket:
KS-PUR

Temperature range moved:
- 35 up to + 90 °C
Minimum bend radius moved:
 $KR_{min} \geq 7.5 \times \varnothing$

V_{max} unsp.: 5 m/s
V_{max} gliding: 5 m/s
a_{max}: 50 m/s²
Insulation resistance:
 $\geq 10 \text{ M}\Omega \times \text{km}$

Approvals:
cURus, based on VDE
Varying parameters possible – please contact us



Core insulation KS-PP/TPE
hybrid stranded



Element shield
continuous bending hi-flex, in-plated braided copper shield with the option of foil shield



Overall shield
continuous bending hi-flex, tin-plated copper braiding for smallest bend radius Coverage: approx. 80 %



Outer jacket KS-PUR
pressure extruded hi-flex design, UV-resistant extremely abrasion-resistant

TRAXLINE Profibus 700 C

Shielded continuous bending hi-flex Profibus PUR cables



Conductor:
extremely fine stranded conductors of bare copper wires in an optimized hi-flex design

Shielding:
coverage 85 %
Outer jacket:
KS-PUR

Temperature range moved:
- 20 up to + 70 °C
Minimum bend radius moved:
 $KR_{min} \geq 15 \times \varnothing$

V_{max} unsp.: 3,5 m/s
V_{max} gliding: 2 m/s
a_{max}: 10 m/s²
Insulation resistance:
 $\geq 10 \text{ M}\Omega \times \text{km}$

Approvals:
cURus, based on VDE
Varying parameters possible – please contact us



Core insulation KS-PP/TPE
concentrically stranded



Inner jacket KS-PP/TPE
valley-sealed, pressure extruded hi-flex design



Overall shield
continuous bending hi-flex, tin-plated copper braiding Coverage: approx. 90 % and foil shield



Outer jacket KS-PUR
pressure extruded hi-flex design, extremely abrasion-resistant

TRAXLINE System M 700 C

Shielded continuous bending hi-flex PUR motor/servo drive cables



Conductor:
finely stranded conductors of bare copper wires in an optimized hi-flex design

Shielding:
coverage 80/85 % (type-dependent)
Outer jacket:
KS-PUR

Temperature range moved:
- 35 up to + 90 °C
Minimum bend radius moved:
 $\leq 16 \text{ mm}^2$: $KR_{min} \geq 7.5 \times \varnothing$
 $\geq 25 \text{ mm}^2$: $KR_{min} \geq 7.5 \times \varnothing$

V_{max} unsp.: 5 m/s
V_{max} gliding: 5 m/s
a_{max}: 50 m/s²
Insulation resistance:
 $\geq 10 \text{ M}\Omega \times \text{km}$

Approvals:
cURus, based on VDE
Varying parameters possible – please contact us



Core insulation KS-PP/TPE
hybrid stranded



Element shield
continuous bending hi-flex, in-plated braided copper shield with the option of foil shield



Overall shield
continuous bending hi-flex, tin-plated copper braiding for smallest bend radius Coverage: approx. 80 %



Outer jacket KS-PUR
pressure extruded hi-flex design, UV-resistant, extremely abrasion-resistant

ENERGY AND SIGNALS

TRAXLINE Power ONE 700 PE

Unshielded, continuous bending highly-flexible PUR single-core cables with PE core identification



Conductor:
conductors
class 6 of bare
copper wires
in an optimized
hi-flex design

Outer jacket:
KS-PUR

**Temperature
range moved:**
– 35 up to
+ 90 °C
**Minimum bend
radius moved:**
 $KR_{min} \geq 7.5 \times \varnothing$

V_{max} unsp.: 20 m/s
V_{max} gliding: 5 m/s
a_{max}: 50 m/s²
**Insulation resis-
tance:**
 $\geq 100 \text{ M}\Omega \times \text{km}$

Approvals:
cURus,
based on VDE
Varying
parameters
possible –
please
contact us



Core insulation KS-PUR
wire bundles
in short pitches



Outer jacket KS-PUR
pressure extruded,
hi-flex design,
extremely abrasion-resistant



Jacket colour black
ozone-resistant,
UV-resistant

TRAXLINE Data 700 TPi C

Shielded continuous bending hi-flex PUR data cables



Conductor:
conductors
class 6 of bare
copper wires
in an optimized
hi-flex design

Shielding:
coverage
nom. 85 %
Outer jacket:
KS-PUR

**Temperature
range moved:**
– 35 up to
+ 90 °C
**Minimum bend
radius moved:**
 $KR_{min} \geq 7.5 \times \varnothing$

V_{max} unsp.: 20 m/s
V_{max} gliding: 5 m/s
a_{max}: 50 m/s²
**Insulation resis-
tance:**
 $\geq 30 \text{ M}\Omega \times \text{km}$

Approvals:
cURus,
based on VDE
Varying
parameters
possible –
please
contact us



Core insulation KS-PP
stranded in pairs



Overall shield
continuous bending hi-flex,
tin-plated copper braiding
for smallest bend radius



Jacket colour black
ozone-resistant
UV-resistant



Inner jacket KS-TPE
valley-sealed,
pressure extruded
hi-flex design



Outer jacket KS-PUR
pressure extruded
hi-flex design,
extremely abrasion-resistant

TRAXLINE Control 700 600 V

Unshielded continuous bending hi-flex PUR control cables



Conductor:
conductors
class 6 of bare
copper wires
in an optimized
hi-flex design

Outer jacket:
KS-PP

**Temperature
range moved:**
– 35 up to
+ 90 °C
**Minimum bend
radius moved:**
 $KR_{min} \geq 7.5 \times \varnothing$

V_{max} unsp.: 20 m/s
V_{max} gliding: 5 m/s
a_{max}: 50 m/s²
**Insulation resis-
tance:**
 $\geq 30 \text{ M}\Omega \times \text{km}$

Approvals:
cURus,
based on VDE
Varying
parameters
possible –
please
contact us



Core insulation KS-PP
bundled stranding
(> 8 cores)



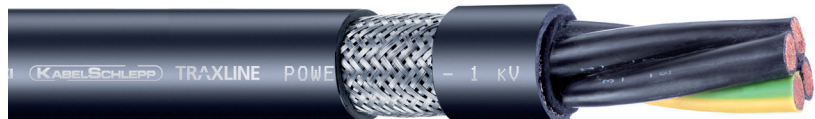
Jacket colour black
ozone-resistant
UV-resistant



Outer jacket KS-PUR
valley-sealed extruded,
hi-flex design,
extremely abrasion-
resistant

TRAXLINE Power 700 C 1 kV

Shielded continuous bending hi-flex PUR power cables



Conductor:
conductors
class 6 of bare
copper wires
in an optimized
hi-flex design

Shielding:
coverage
nom. 85 %
Outer jacket:
KS-TPE

**Temperature
range moved:**
– 35 up to
+ 90 °C
**Minimum bend
radius moved:**
 $KR_{min} \geq 7.5 \times \varnothing$

V_{max} unsp.: 20 m/s
V_{max} gliding: 5 m/s
a_{max}: 50 m/s²
**Insulation resis-
tance:**
 $\geq 30 \text{ M}\Omega \times \text{km}$

Approvals:
cURus,
based on VDE
Varying
parameters
possible –
please
contact us



Core insulation KS-PP
bundled stranding
(> 8 cores)



Overall shield
continuous bending, hi-flex,
tin-plated, copper braiding for
smallest bend radius



Inner jacket KS-TPE
valley-sealed,
pressure extruded,
hi-flex design



Outer jacket KS-PUR
pressure extruded
hi-flex design, extremely
abrasion-resistant



Jacket colour black
ozone-resistant,
UV-resistant

Innovative solutions

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ENERGY AND SIGNALS

Cut costs with TOTALTRAX complete cable carrier systems

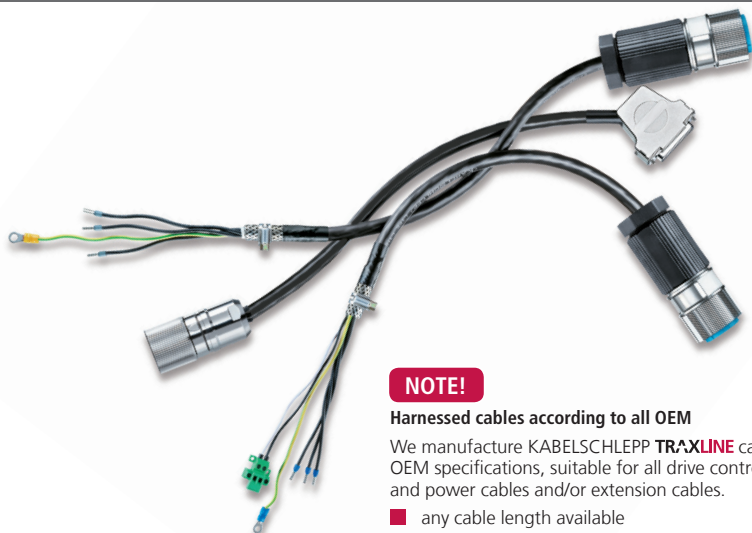
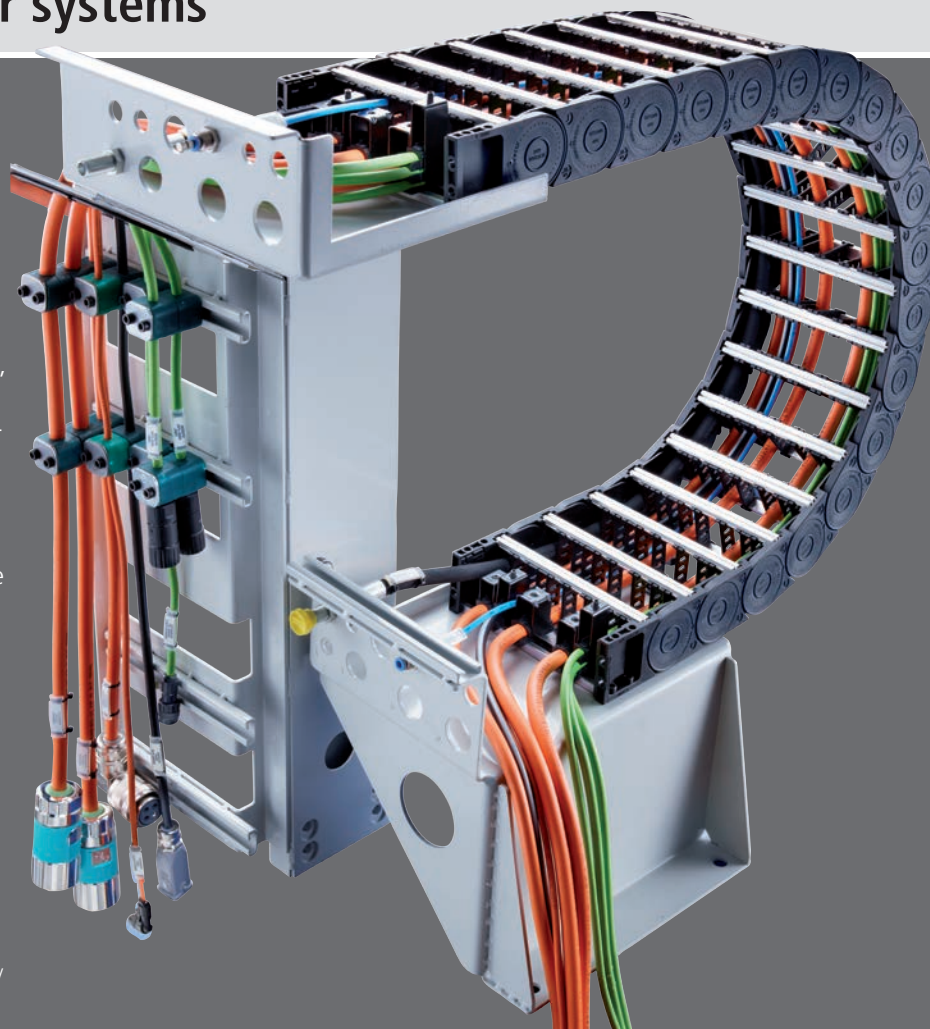
Use our know-how. Working closely with you, our experienced system specialists can provide pre-sale support, including planning and design services, through post sales service and support. Only one contact person for the complete system.

All components match each other perfectly, including your cable carriers, electrical cables, hydraulic and pneumatic hoses as well as connectors. You'll receive the complete system in one delivery, with a guarantee certificate if desired – in short: TOTALTRAX.

Reduce your storage costs for cable and hose carriers, cables, and connectors with TOTALTRAX. We supply all components Just-In-Time to your production facility or directly to the installation site.

Everything from a single source:

- Consulting
- Planning
- Design
- Cable carriers
- Power & control cables
- Complete guarantee
- Hydraulic hoses
- Pneumatic hoses
- Plug-and-socket connectors
- Assembly plates
- Complete assembly of all components

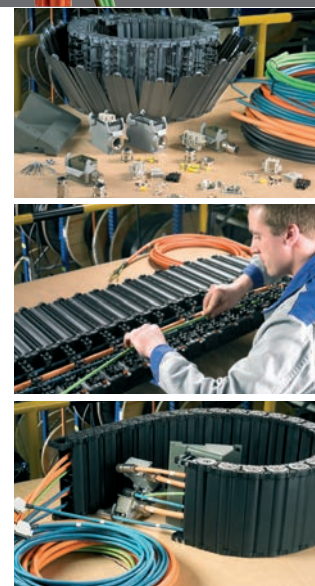


NOTE!

Harnessed cables according to all OEM

We manufacture KABELSCHLEPP TRAXLINE cables according to OEM specifications, suitable for all drive controls which consist of signal and power cables and/or extension cables.

- any cable length available
- delivery minimum: 1 unit



ENERGY AND SIGNALS

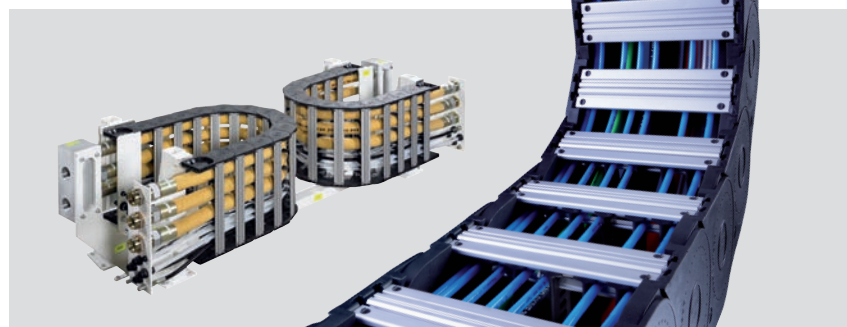
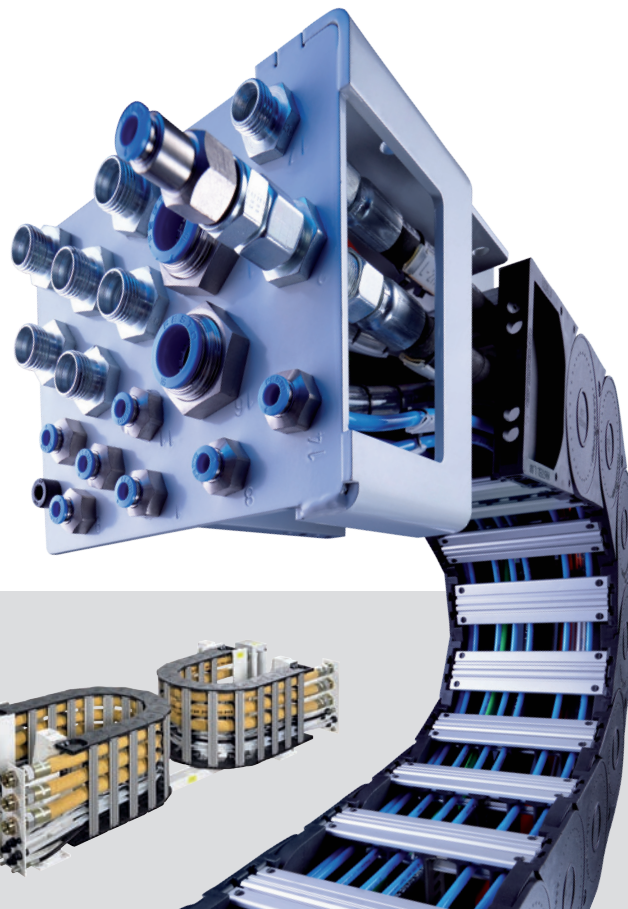
Cut costs with TOTALTRAX complete cable carrier systems

We help you . . .

- Advice on planning
- Support in the design phase
- Only one contact person for the complete system including all of the individual components
- Complete delivery from a single source
- Only one supplier – one purchase order and one item number
- All components match each other perfectly
- Guarantee certificate available upon request

. . . to cut your costs!

- Goods receiving inspections for all individual components are no longer required
- Expensive technical personnel and special tools are no longer required
- Shorter assembly times
- No hidden costs, e.g. cables being cut to excessive lengths etc.
- Less captive capital with almost no inventory
- On-time delivery directly to your production site



OnlineEngineer.de
TSUBAKI KABELSCHLEPP
Cable Carrier Configurator

Online configuration tool for cable carrier systems

Using TSUBAKI KABELSCHLEPP **OnlineEngineer**, in just a few clicks of the mouse you can **quickly select and configure** the optimal TSUBAKI KABELSCHLEPP cable carrier system for your application. Just input the parameters of your application and the OnlineEngineer will **automatically calculate** the TSUBAKI KABELSCHLEPP cable carrier system with the **optimal price/performance ratio!** Alternatively, you can follow easy step-by-step menus and individually design your desired cable carrier system.

Finally, if you already know which TSUBAKI KABELSCHLEPP cable carrier systems you would like to use, just enter the order specifications and you will receive all applicable information by mouse click. Since any and all functions can be combined, the specification data needs to be entered only once. A corresponding **2D drawing or 3D model** of your carrier can be immediately downloaded.

Save time with our 2D & 3D drawing library available online

Our 2D and 3D CAD drawings simplify the job for your design engineers. You can find the data for our cable carriers in the **CADENAS** component libraries. TSUBAKI KABELSCHLEPP provides free drawing libraries. Once selected, CAD data can be saved or exported in a wide range of formats for import into your CAD system. Can't find what you are looking for, please contact us.



Innovative solutions

for the machine tool industry

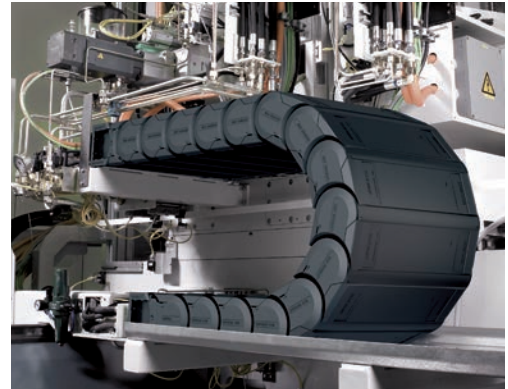
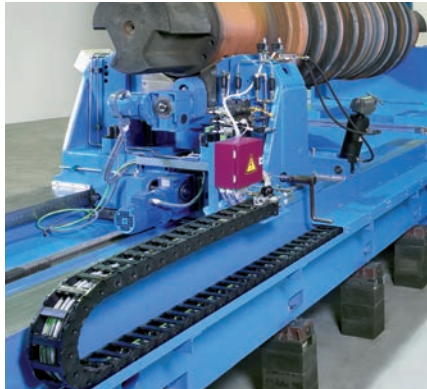
ENERGY AND SIGNALS

Application examples

Decades of application experience in hundreds of market segments, with thousands of product combinations has resulted in new many tailor-made and user oriented solutions for our customers.



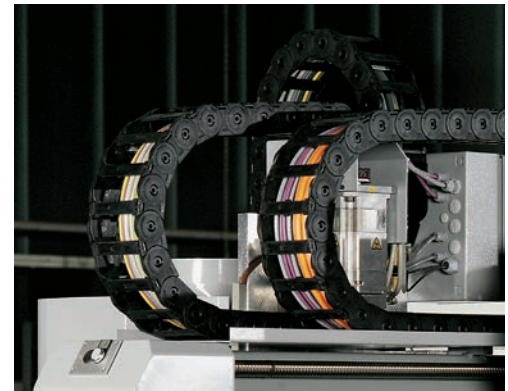
Plastic cable carriers on a roll neck milling machine.



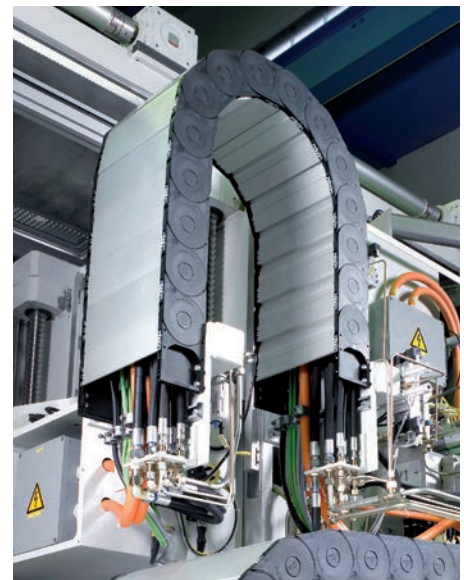
TKA Series cable carrier system on a machining center.



Plastic cable carrier on a CNC-machining center.



MASTER LT Series cable carriers on a tube end processing machine.

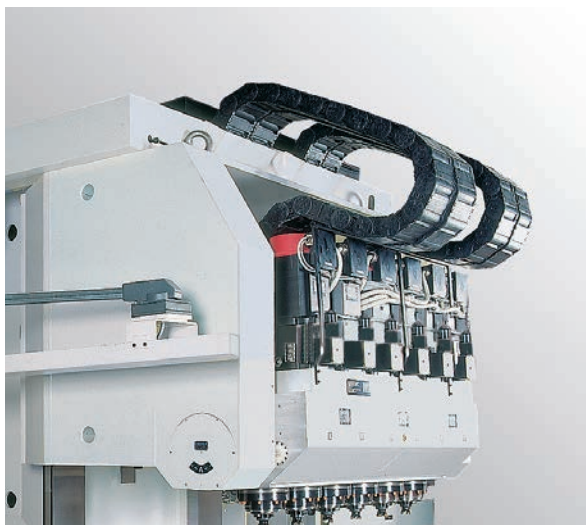


More Information:
call: 800-443-4216 or visit: ustsubaki.com

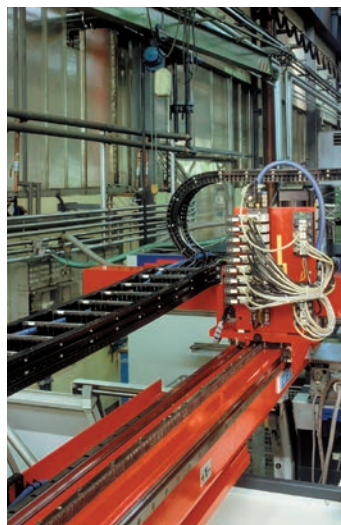
ENERGY AND SIGNALS



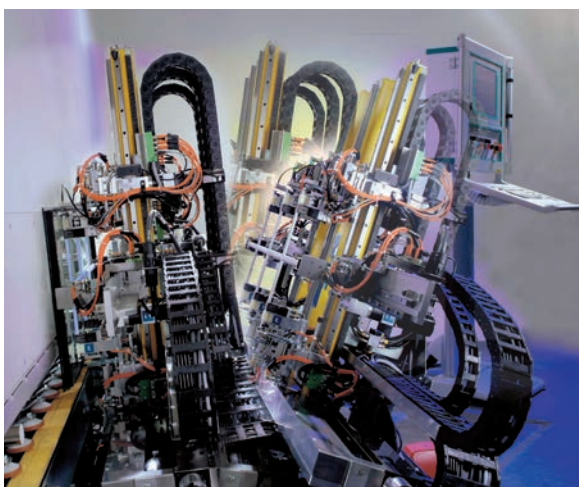
ROBOTRAX, K Series and M Series cable carriers on a laser cutting machine.



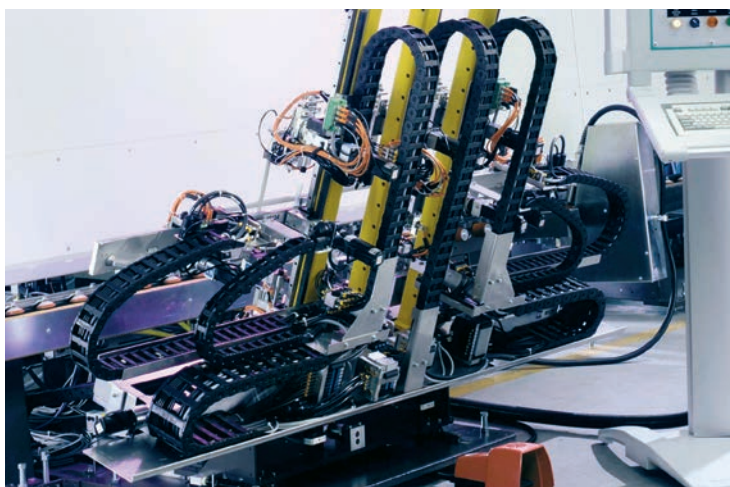
M Series cable carrier on a high-performance machining center.



QUANTUM cable carrier system on a handling system.



Plastic cable carriers on an automatic window frame setting station.





KABELSCHLEPP

Innovative solutions

for the machine tool industry

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 systems
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



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