

KABELSCHLEPP |

A member of TSUBAKI GROUP



CABLE & HOSE CARRIER SYSTEMS FOR CRANES



Engineering by KABELSCHLEPP

A member of the global TSUBAKI group, KABELSCHLEPP is a total solution provider. Our half-century of experience and thousands of installed applications worldwide make us a competent partner that you can rely on for your applications. Our specialists will support you from planning through installation and start-up of the complete system.

In order to achieve an optimal upgrade to the respective equipment, our experts will coordinate the components for your application on-site. As required, we use standard components or we can custom configure our systems to adapt them to the existing structures.





- On-site-training custom tailored to the application
- Application specific assembly and maintenance manuals
- CAD documentation of the installation in 2D and 3D formats for your records

From planning to the final complete system – TOTALTRAX

Use our know-how. Working jointly with you, our experienced specialists can provide pre-sale support, including planning and design services through post sales service and support.

One order, one contact person, components optimally matched to each other, including the cable and hose carrier, the electrical cables, the hydraulic and pneumatic hoses and the connectors.

You'll receive the complete system in one delivery, with 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.



Expert installation by our Service Team

Let our Service Team handle the planning and execution of the installation of cable and hose carrier systems. We provide you with the support you need.



- Complete assembly including the guide channel
- Uncoiling and assembling cable and hose carrier systems for long travel applications
- Assembly at great heights (e.g. crane systems)

We're there for you: 1.800.443.4216



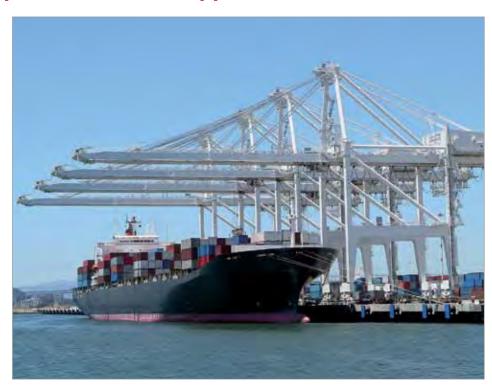
KABELSCHLEPP – your partner for crane applications

KABELSCHLEPP specializes in cable carriers for all types and sizes of cranes and has been a pioneer in dynamic cable and hose carrier systems ever since the invention of the original cable carrier that was patented by KABELSCHLEPP in 1954.

Because modern crane systems demand increasingly higher cycle rates and travel speeds, they need cable management solutions that can hold up to the new requirements. To meet these demands, today's port cranes and lifting devices require lightweight plastic cable carriers that offer high speed, high acceleration and high durability.

Cable carrier systems made of plastic can help you to adapt your systems to meet these new demand. KABELSCHLEPP even has solutions for extremely long travel applications that require high travel speeds and accelerations.

Since 1954, KABELSCHLEPP cable carriers have been proving themselves in the field and providing high reliability, high quality, and cost-effective cable routing solutions that can also satisfy increasingly challenging needs of the future.



Benefits of cable & hose carriers for cranes

- cost-effective (compared to festoon systems) due to shorter cable lengths – no inefficient hanging loops are required
- travel lengths up to 800 m plus
- extend cable service life the cables are only bent once in a defined bend radius and do not have to absorb any pulling forces
- weatherproofed for sea conditions
- secure protection of cables and hoses even in high wind conditions

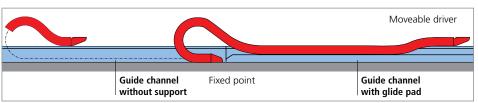




Gliding arrangement – a cost-effective solution for travel runs up to 200 m

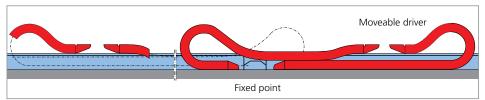
Single-Sided Gliding Arrangement: Here, the upper run of the cable and hose carrier glides on the lower run and/or on the support element of the guide channel. The single-sided arrangement is the most common and cost-effective solution.

KABELSCHLEPP supplies the cable carrier, guide channel, cables and hoses, and strain relief devices - we supply the complete system solution. Cable carrier systems in this configuration operate trouble-free in installations all over the world.



One-sided arrangement

Opposed Two-Sided Gliding Arrangement: With high additional loads, the cables in an Opposed Arrangement can be distributed between two opposing cable carriers. This allows the installation width to be reduced and the separation of power, control and signal cables is also possible.





Opposing arrangement

Replaceable glide shoes – the cost-effective solution.

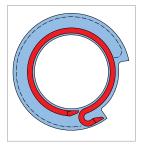
With high loads and extremely long travel runs, the gliding surfaces of long travel cable and hose carrier systems are subject to high wear, especially in outdoor applications. Glide shoes, which absorb the wear that occurs during gliding operation, can be replaced several times over the life of a carrier system. This can increase the service life of the overall cable and hose carrier system many times over.

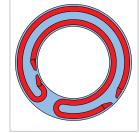
- longer service life
- only the glide shoes and not the complete carrier need to be replaced when the gliding surfaces are worn
- made of a special, highly abrasion-resistant material with low friction coefficients
- with less friction, push and pull forces are reduced



Rotating arrangements

KABELSCHLEPP supplies the cable carrier, guide channel, cables and hoses, and strain relief devices – we supply the complete system solution. Cable carrier systems in this configuration operate trouble-free in installations all over the world.







Single-sided arrangement Two-sided opposed arrangement

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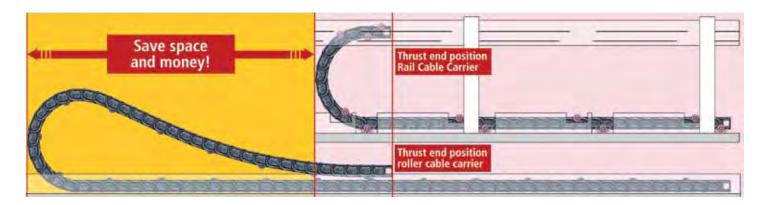


Rail Cable Carrier RCC – Our proven system for travel runs up to 500 m and more



The use of a special roller system reduces the forces needed to move the carrier by about 90 % compared to gliding arrangements. The combination of the RCC and the ECC – Emergency Cable Carrier System is a very reliable solution even for extreme long travel lengths up to 500 m and more.

- less space required and cost-optimized due to short turnaround length
- long service life low maintenance
- minimum stress on the cable and hose carrier, cables and hoses
- travel speeds up to 10 m/s possible
- additional load (cable & hose weight) of more than 50 kg/m possible





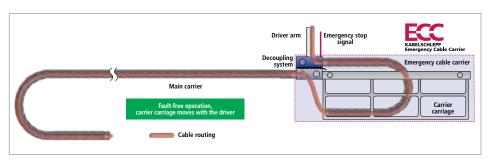




ECC – Emergency Cable Carrier System. Safety for very long travel lengths.

Blockages in the travel path of cable carriers in long run systems can destroy the entire

cable carrier system. This results in high repair costs and downtime for the entire

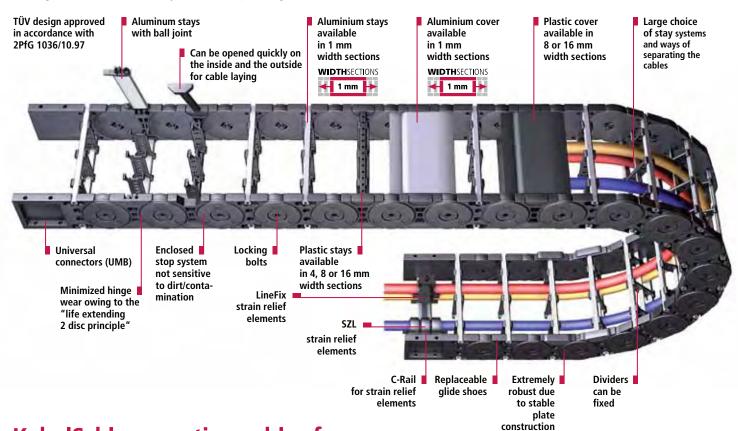


system. The ECC minimizes downtimes and avoids costly repairs. In long travel systems the moving mass can be very large, which results in the moving unit continuing to travel for several meters even after system braking is initiated. This typically leads to severe damage to the cable carrier, and ultimately the complete failure of the overall system, requiring extensive repair work. Our decoupling system offers, in addition to the emergency stop function, a bridging safeguard for the braking distance.



Chains for crane applications

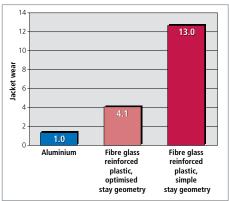
- seawater resistant aluminum stays for extremely high stability; bolted 4 times for extreme loads
- aluminum stays with custom widths available in 1 mm width increments
- extremely long service life in long travel applications due to replaceable glide shoes
- can be opened easily and quickly on both sides for cable laying
- enclosed stroke system protects against dirt/contamination
- large selection of divider systems for separating the cables and hoses



KabelSchlepp motion cables for cranes

KabelSchlepp's selection of continuous-flex cables has been specially developed for optimal use in dynamic cable and hose carriers. Our cables for motion - cables which are distinguished by high reliability and performance at low costs, as well as by a long service life even in outdoor applications. Crane applications with long travel paths and high travel speeds place high demands on electrical cables. The KabelSchlepp Series 700 is optimized for outdoor use, e.g. on container cranes, due to the use of high quality, UV resistant materials and the special design.





Smooth aluminum frame stavs reduce jacket wear and extend the service life of the cables while providing great strength and stability.

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Components

Guide channel systems

Guide channel (open bottom) made of steel sheet metal — new standard

New standard guide channel for various installation widths with enhanced holders especially designed for cranes and long travel applications.

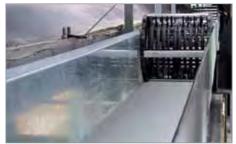




Guide channels made of steel sheet metal – standard design

Guide channels made of steel sheet metal are custom-made for your application. In doing so, we can accommodate almost any wish as far as the special shape and fastening options are concerned.





Modular guide channels made of steel or aluminum

Modular guide channels are distinguished by the easy assembly of the channel sidewalls. The channel sidewalls are simply inserted into the pre-installed channel holder and fixed with a screw.





Floating tow arm carriage for self-adjusting variable connection

Misalignment between drive arm on the crane side and cable carrier cannot be practically avoided for crane systems with long travel runs. When using our floating tow arm carriage, there is no rigid connection between the moving end connection of the cable carrier and the drive arm. Lateral and vertical offset are balanced.







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IDEAS AROUND THE MACHINE

CABLE CARRIER SYSTEMS

Cable carriers made of steel and plastic QUANTUM cable and hose carrier system PROTUM cable and hose carrier system PROFILE cable and hose carrier system ROBOTRAX cable and hose carrier system

Continious-Flex 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 Armored apron covers Way wipers Conical spring covers

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