

KabelSkate

Rolling – The Better Solution than Gliding



KabelSkate

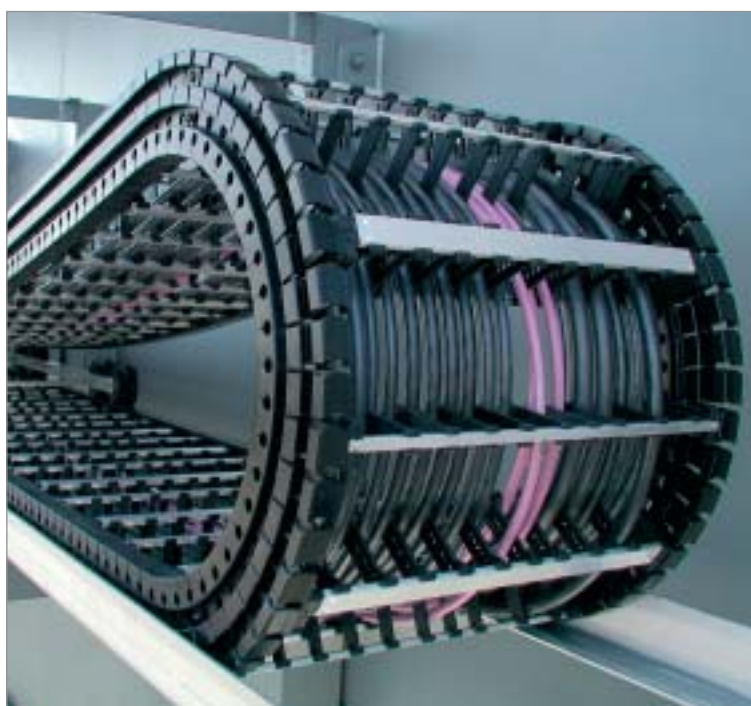
Making Short Process with Long Travel Lengths

Traditionally, nylon cable and hose carriers or hybrid cable carrier systems (metal and nylon) are the ideal solution for the use of cable carriers with very long travel lengths.

The moving upper run lowers elastically to the lower run with the side chain bands gliding on each other.

This sliding process causes friction forces depending on the weight of the cable carrier system itself plus the weight of the cable and hose package installed, i.e. this is the total weight of the upper run. These friction forces may easily reach several thousand Newtons predicated on the individual carrier length. Due to such high friction forces travel lengths of more than 200 m in a sliding application are scarcely feasible.

Thus, to achieve the desired longer travel lengths, the friction between the upper and lower run must be reduced.



■ KabelSkate applied to the link-less cable carrier system QUANTUM.

KABELSCHLEPP offers an ingenious yet simple solution – KabelSkate. Special rolling castors placed between the carrier's upper and lower runs significantly reduce the friction factor. A carriage system keeps the castors correctly spaced and running in the right position.

KabelSkate may be used for nearly all KabelSchlepp nylon and/or hybrid (nylon and metal) cable and hose carrier systems.



■ KabelSkate is so efficient that shearing forces of only a few Newtons are enough to ensure that a system load of several tons, which includes the carrier, cable package and components, can be moved safely.

- Due to a revolutionary new technique, only 10% of push/pull forces, compared to a sliding carrier application, are required.
- Proven standard cable and hose carrier systems can be used.
- Individual castors do not hit against each other.
- Almost vibration-free and quiet operation
- Maintenance-free operation
- Carrier system does not "take off or jump" during acceleration.
- No guide channel required*



Safe operation without a guide channel even for carriers with a chain width of 135 mm *

* Dependent on speed and acceleration

KabelSkate can even be used as a self-guiding system if the rolling castors are arranged in a flanged design - just like railroad wheels. The lower run must only be kept aligned in some sort of support tray and thus serves as a track for the castors. Furthermore, KabelSkate allows higher traveling speeds causing only minimum background noise.

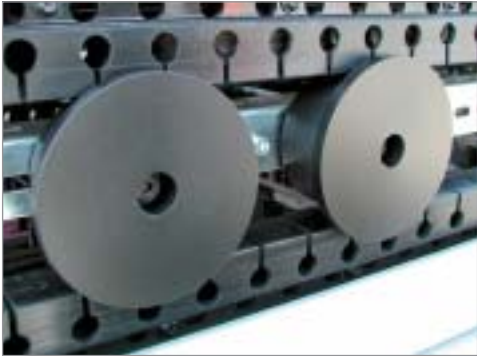


■ Flanged rolling castors – similar to railroad wheels – allow KabelSkate to be self-guiding.

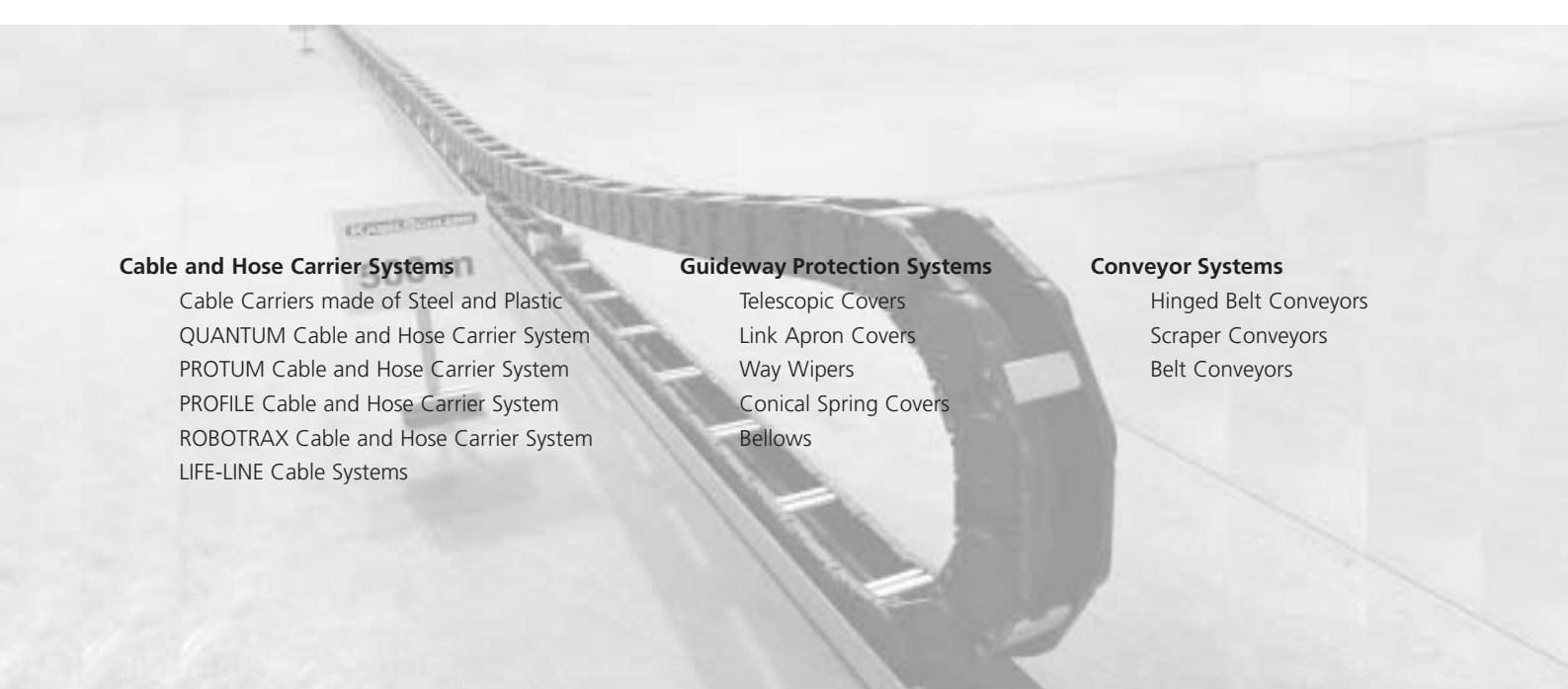
■ Facts: 500 m travel distance; 210 m/min travel speed without guide channel.



■ The complete cable carrier system can easily be moved by one person without using any mechanical aids.



■ The nylon castors do not require specific bearings. Ball bearings are not necessary, since the axle load is adequately matched to the low carriage weight and thus can be virtually neglected.



Cable and Hose 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
LIFE-LINE Cable Systems

Guideway Protection Systems

Telescopic Covers
Link Apron Covers
Way Wipers
Conical Spring Covers
Bellows

Conveyor Systems

Hinged Belt Conveyors
Scraper Conveyors
Belt Conveyors

KABELSCHLEPP GmbH

Marienborner Str. 75
D-57074 Siegen
Phone: +49 271 5801-0
Fax: +49 271 5801-220
E-mail: info@kabelschlepp.de
www.kabelschlepp.de

KABELSCHLEPP worldwide

For contacts, addresses
and much more
visit our web site at:
www.kabelschlepp.de

