

# Condition Monitoring

## Knowing what's (not) up



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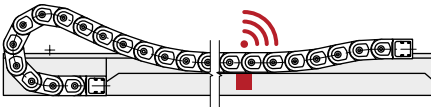
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## Safety devices for cranes and wear measurement for glide shoes

- » signal is usable for a fully-automatic emergency stop-system
- » direct measurement of the push-/pull-forces at the moving point
- » force limits freely programmable (lower limit, upper limit)
- » error indication if the limits are exceeded
- » outcoming signal PLC usable (full stop, slow down)
- » no speed limit
- » scheduled gliding shoe replacement
- » wear monitoring in real-time
- » wear forecast
- » sensor-free wear elements
- » without additional cables and power supplies inside the cable carrier
- » usable for all glide shoe chains

The installation conditions are difficult? In that case our service team will take care of the mounting or assists and advises you.

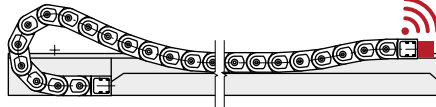
### Measuring glide shoe wear in the channel



- » Determine and evaluate real-time values
- » Easy to retrofit with exchangeable glide shoes
- » Easy installation by clipping on the glide shoes and installation in the channel
- » No additional cables in the cable carrier
- » Direct connection to your control system without radio transmission
- » Uses standard components



### Measuring shear/tensile forces on the standardized driver



- » Guiding without transverse forces:
  - protects the cable carrier
  - minimizes costs through reduced downtimes
  - reduces defects/malfunctions/damage
- » Integrated shear/tensile force monitoring
- » The compensation of the parallel error between the system and the cable carrier is ensured
- » Defined cable routing through two pre-assembled modules
- » Easy maintenance/disassembly, if necessary
- » Easy retrofitting on an opposite-arrangement system
- » Easy connection options
- » System reliability and availability



### Automatic outdoor test facility

TSUBAKI KABELSCHLEPP stands for high quality and reliable solutions. Our outdoor test facility offers realistic test conditions to ensure compliance with the highest standards. Gliding and roller systems with travel lengths over 100 meters as well as high-speed applications are tested by our experts under the toughest conditions.