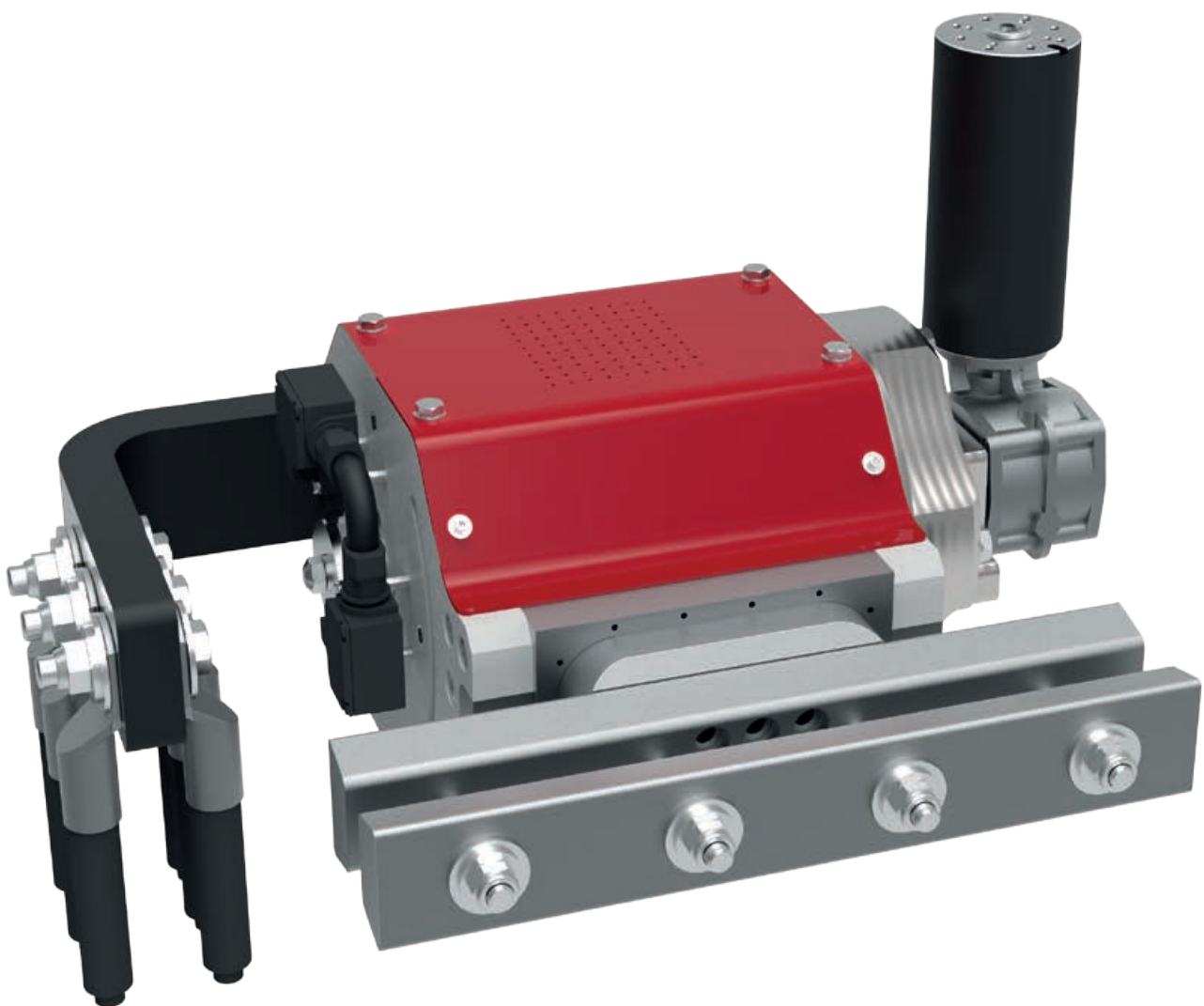




3<sup>RD</sup> RAIL SWITCH

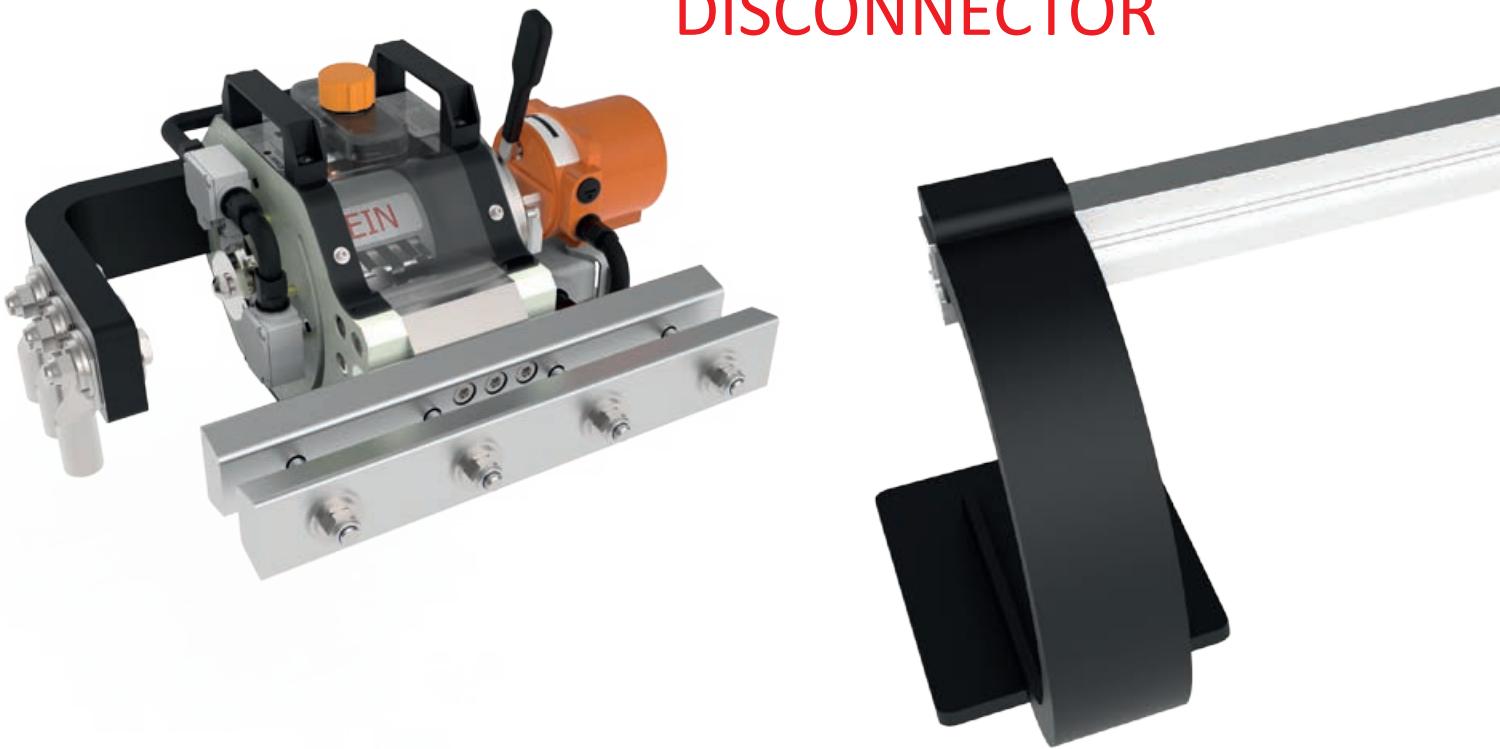
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FHT-KS 4000 DISCONNECTOR



# A WHOLE NEW GENERATION OF SWITCH TECHNOLOGY

## FHT-KS 4000 DISCONNECTOR



The new switch series FHT-KS 4000 is a DC disconnecting switch designed for direct assembly on to the third rail system.

The task of the new switch is to isolate a section of the third rail system for the purpose of maintenance work. The switch may be operated either by remote control SCADA system or locally by hand in order to achieve a specific electrical air gap thereby disconnecting the circuit according to specified requirements.

There is a visual indication as to the disconnecter position which can be replicated to a remote location.

The switch is mounted directly to the third rail by means of clamps without any need for a ground support. The clamping system can be adapted to suit a specific rail profile.

The switch may be mounted in an enclosure sealed to a specific IP protection class or may also be designed to customer's specification to suit existing enclosures.

The disconnecting switch series FHT-KS 4000 is approved for the DB-rail system Berlin.



## Technical Data

### Voltage

Nominal Voltage  $U_n = \text{DC } 750 \text{ V} / \text{DC } 1500 \text{ V}$

### Currents

Thermal rated current  $I_{the}$ : 4000 A

Rated normal current  $I_{ne}$ : 4000 A (different amperage upon request)

Breaking and making capacity: 50 A, R/L 10 ms

Voltage  $U_{max1}$ : 900 V/DC

Rated short-time withstand current  $I_{ncw}$ : 40 kA for 0,25 s

Maximum aperiodic short-circuit current: 57 kA

### Safety

Ambient temperature:  $-30^\circ\text{C} \dots 70^\circ\text{C}$

Storage temperature:  $-40^\circ\text{C} \dots 80^\circ\text{C}$

Protection class: Protective ground

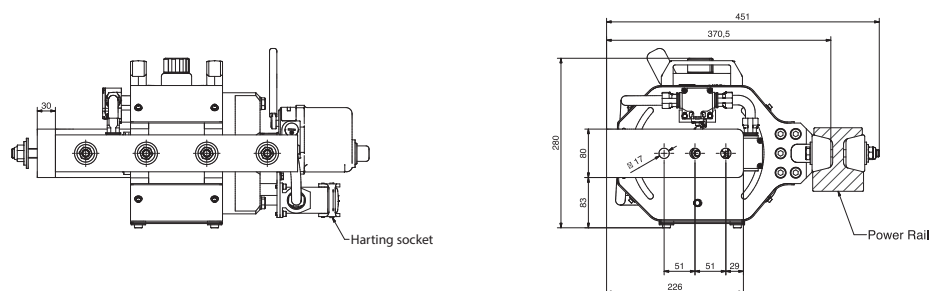
Ingress protection class: IP33 (only switches)  
(cabinets with a higher IP protection class upon request)

Mechanical load: IK05 (switch)  
IK10 (with housing)

### Weight

Weight: 35 kg (without housing)

## Technical drawings





# KRAUS RAILWAY TECHNOLOGY

## PRODUCT LINES

- Pantograph Switches
- Trackside Disconnectors
- Disconnectors & Earthing Switches
- Pneumatic Interlock Systems
- Voltage Detectors
- Current Leads



Over the past 60 years, Kraus has gained much experience and in depth, constantly growing know how in the field of railway systems and manufacturing various products and components for respective applications:

Besides our standard product portfolio we can supply our clients with custom made solutions according to their specification. These include numerous spare parts, such as switch contacts, current leads (both rigid and flexible), arch chutes, isolators, voltage detectors, as well as the more complex disconnectors and earthing switches. In both small batches and large-scale volumes we are able to adapt to any requirements and make sure to find the most suited solution together with the customer.



[www.kraus.com](http://www.kraus.com)

We turn for you!



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