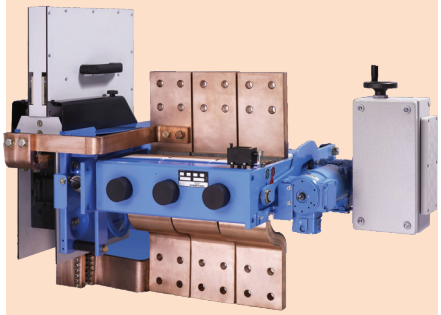
HSE-HSD Electrolytic Cell Disconnect Switch

Hundt & Weber DC Disconnect Switch

The HSE/HSD Electrolytic Cell Disconnect Switch allows for installation in any position directly into the busduct system without further fixation. One side of the switch is equipped with flexible connectors, thus no further expansion joints are needed. The other side has solid busbar. The design of the switch (ball bearings supporting main switching shaft) and the slight travel of the contacts while switching, require minimal operating force. Thus easy manual operation is possible, or operation by means of a direct acting motor operator with little power consumption. The high current isolators, HSE/ HSD, consist of a system with one or more integrated, encapsulated contact modules. One module is normally rated for a current of 6,000A. If higher ratings are required, adequate numbers of contact modules are connected in parallel and operated with a common mechanism. The principal elements of the switch are standardized, encapsulated contacts, which consist of two connector plates, a high-elastic bellow, and the contacts. These contacts are made of silver alloy with very good electrical data.



Ratings:

Amps : 6kA to 60kA

Features/Benefits:

- Complete encapsulated main contacts
- High mechanical strength
- Corrosion proofed
- Little operation torque
- Position insensitive
- Positive opening
- Low contact resistance
- Low voltage drop
- Low contact heating
- Extreme high electrical and mechanical durability
- Safe operation, even under extreme ambient temperature
- Auxiliaries (limit switches, locks, control boxes)
- Adaptation to the connecting busbar

Highlights:

- Accepts busbar dilatations thanks to built-in deformability (flexible shunts are not necessary)
- Very compact switch
- Electrical contacts are encapsulated, protecting them from corrosive atmosphere like chlorine or salt
- Easy connections to bolted copper busbar
- Large customization possible with:
  - Actuators (motor, pneumatic, manual)
  - Auxiliaries (limit switches, locks, control boxes)

Applications:

- Output rectifier isolation
- Cell isolation for electrolytic process
- Large power supply disconnect

Approvals:

- Designed according to VDE 0110 Gr. C/IEC 60947