Remote racking

Concept

Working with switchgear

Remote racking system allows the implementation of the circuit breaker racking in and out operation from a remote location.
Remote racking
Safety first

Distance is safety

Each single reason exposes operators to potential injuries due to arc flash incidents:

• Circuit breakers racking with open door
• Non-interlocked equipment
• Operations with live equipment
• Non internal arc classified (IAC) switchgear
• Missing of proper gas outlets

Remote operation places operator outside the arc-flash protection boundary
Remote racking
Not only safety...

Enhanced switchgear operability

- Human errors related to manual operations are prevented
- Right force application preserves mechanism and interlocks integrity
- Self-stopping system arrests operations in case of abnormal encountered resistance
Remote racking
Enhanced switchgear operability prevents human errors

**Frequent operations from control system**

*Integrated* solution embeds a motor operated racking system on each new or retrofit breaker

**Few operations during maintenance**

*Portable (TruckMaster)* solution installs a portable device per each switchgear line-up
Remote racking
TruckMaster variants for each application

TruckMaster CS for screw rotary racking system

Applicable to:
- ABB panels with cassette or floor-rolling circuit breaker equipped with withdrawable active, legacy and retrofit apparatus
- Non-ABB panels assembled with ABB cassettes and breakers

TruckMaster FR for ratchet linear racking system

Suitable for new floor-rolling retrofit circuit breaker
TruckMaster CS
Screw rotary racking system

Versions

TruckMaster is composed of three elements:
• Driver docking
• Portable driver
• Remote console

Installation and commissioning: not needed

Operation:
• very easy to mount
• no tools needed

Online video
TruckMaster CS

Versions in relation to apparatus positions in the switchgear

Two positions

Widely used in IEC market

Auxiliary circuit:

Power circuit:

Position: CONNECTED  TEST/DISCONNECTED

The auxiliary plug is manually handled by the operator
TruckMaster CS
Versions in relation to apparatus positions in the switchgear

Three positions
Mostly used in ANSI market

<table>
<thead>
<tr>
<th>Position: CONNECTED</th>
<th>Power circuit:</th>
<th>Auxiliary circuit:</th>
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</thead>
<tbody>
<tr>
<td>TEST</td>
<td></td>
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<tr>
<td>DISCONNECTED</td>
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</tbody>
</table>
**TruckMaster FR**
Ratchet linear racking system

**Easy implementation**

TruckMaster FR is composed of three elements:
- Driver docking with switchgear signal port
- Portable driver
- Remote console

Installation and commissioning: switchgear upgrade needed

Operation:
- Easy to mount
- No tools needed

🔗 Online video
TruckMaster

Benefits

Safety

1. Carry out the racking procedures from a safety distance with panel door closed
   Arc flash consequences exposure reduction

Operability

2. Right force application preserving mechanism and interlocks integrity
   Self-stopping system arresting operations in case of abnormal encountered resistance

Installation

3. CS remote control solution without any need to modify the existing panel
   FR easy switchgear upgrade during retrofit commissioning

Investment

4. Single portable driver and the relevant remote console for the whole line up
   Cost effective way to bring the operator to a new level of safety

Increase the distance is the best choice!