



DISTRIBUTION SOLUTIONS, R3.0 2019

TruckMaster

Remote racking solutions

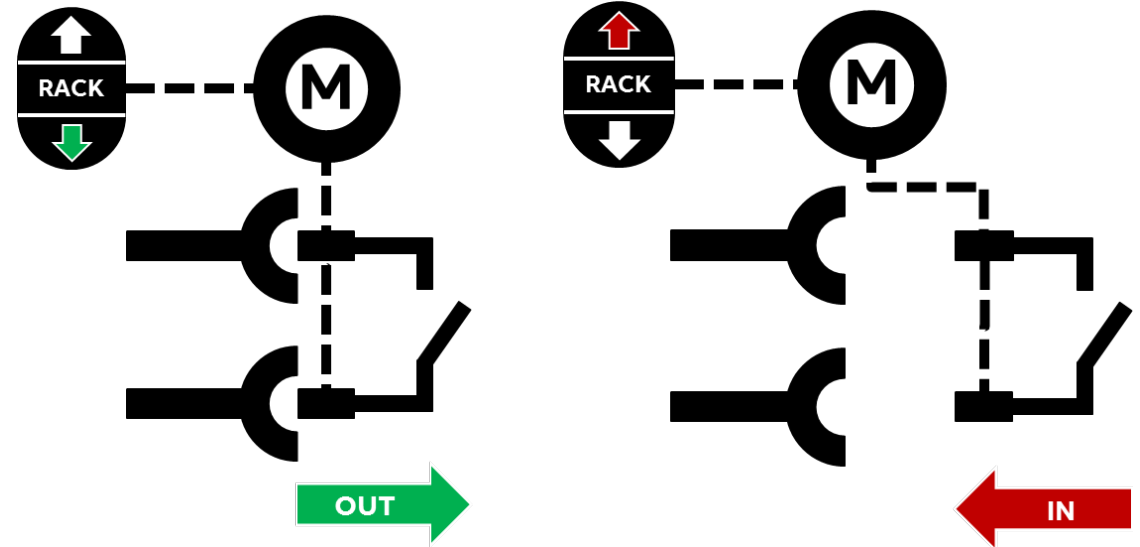


Remote racking

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

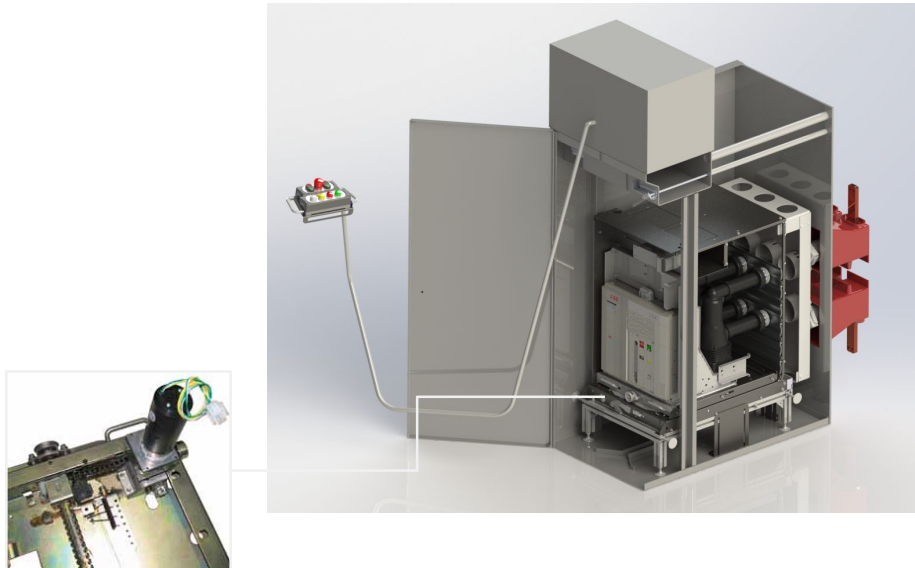


Remote racking

Enhanced switchgear operability prevents human errors

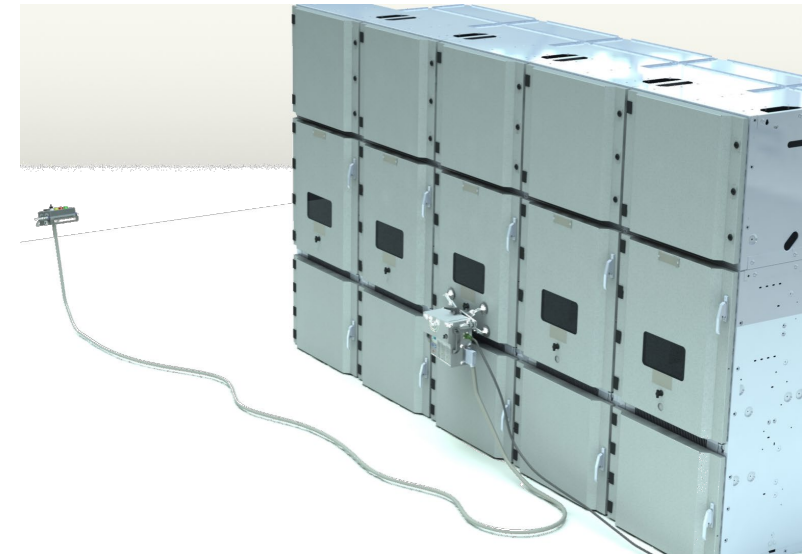
Frequent operations from control system

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



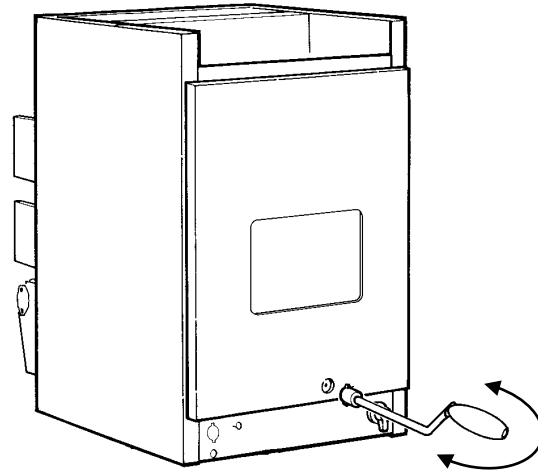
Remote racking

TruckMaster variants for each application

TruckMaster CS for screw rotary racking system

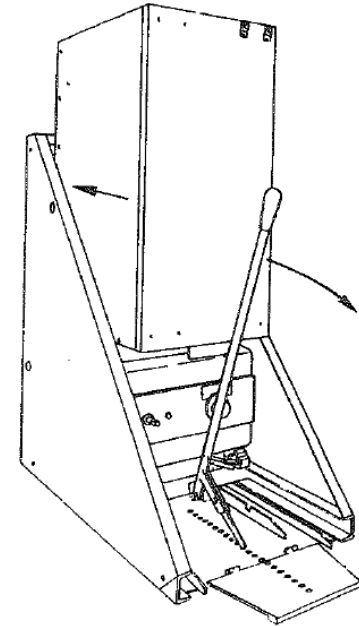
Applicable to:

- 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

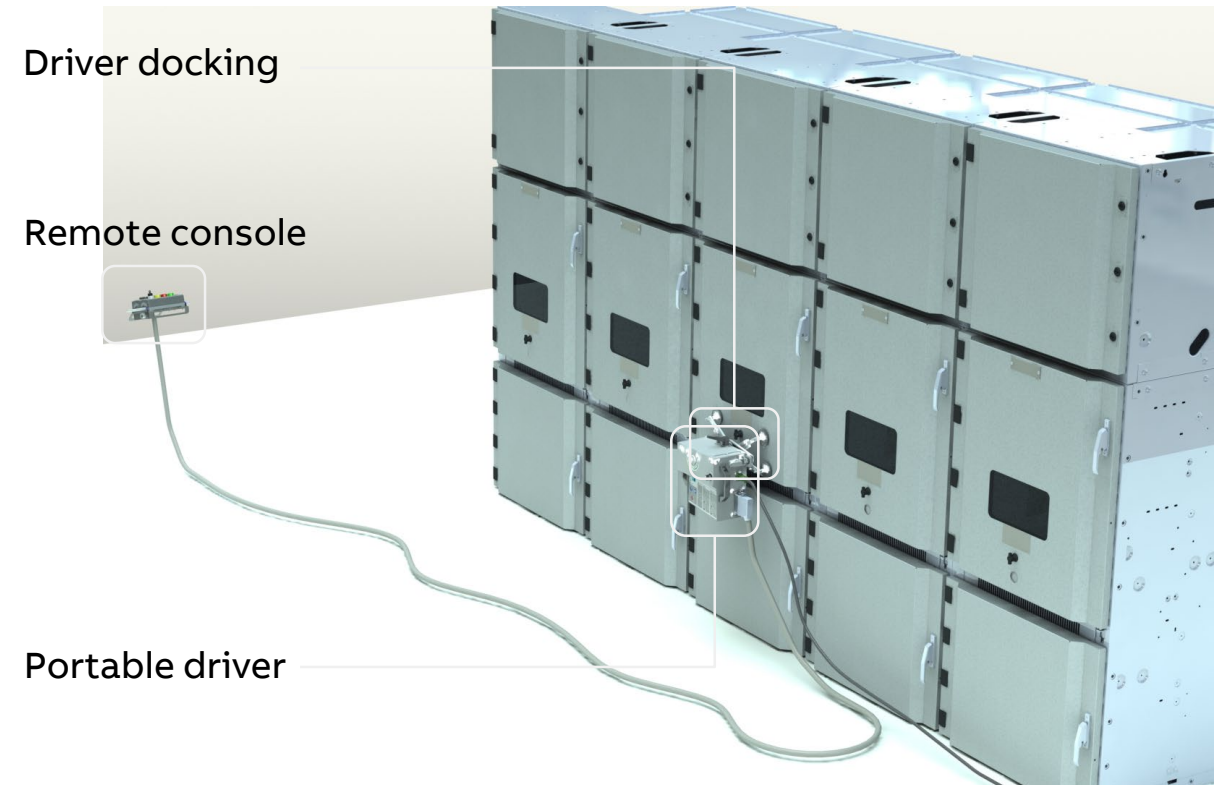
Installation and commissioning: not needed

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

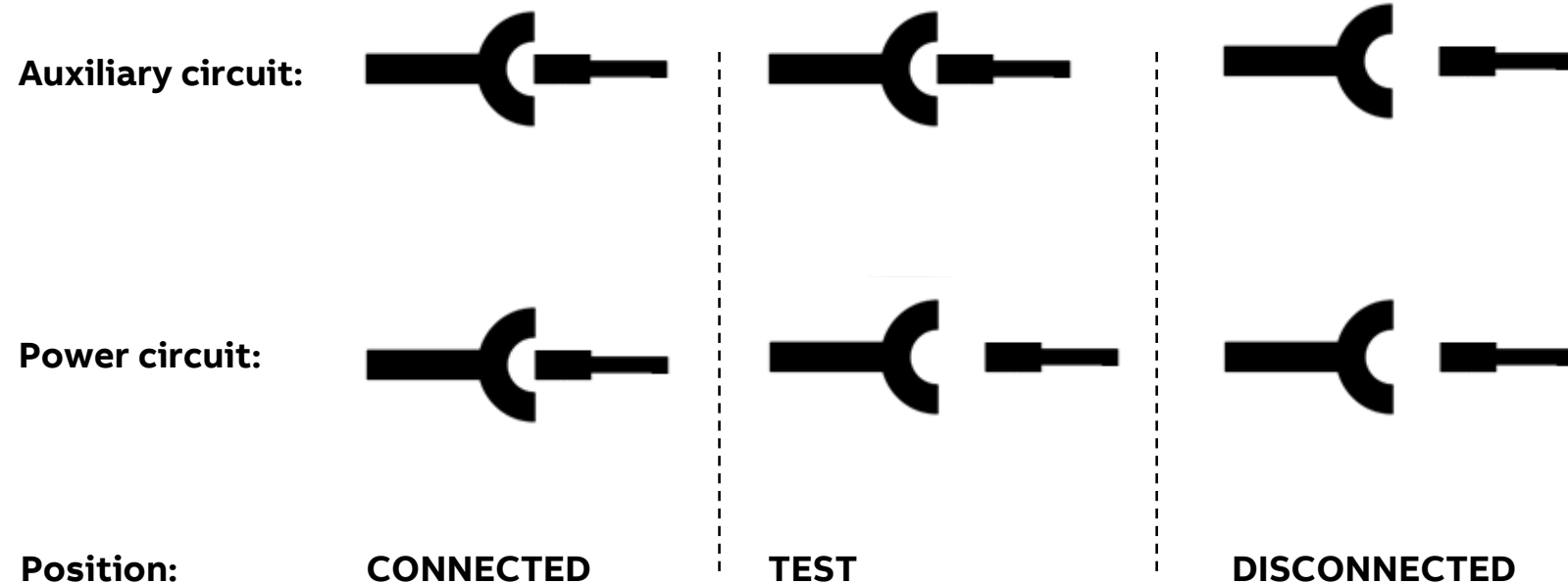
The auxiliary plug is manually handled by the operator

TruckMaster CS

Versions in relation to apparatus positions in the switchgear

Three positions

Mostly used in ANSI market



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



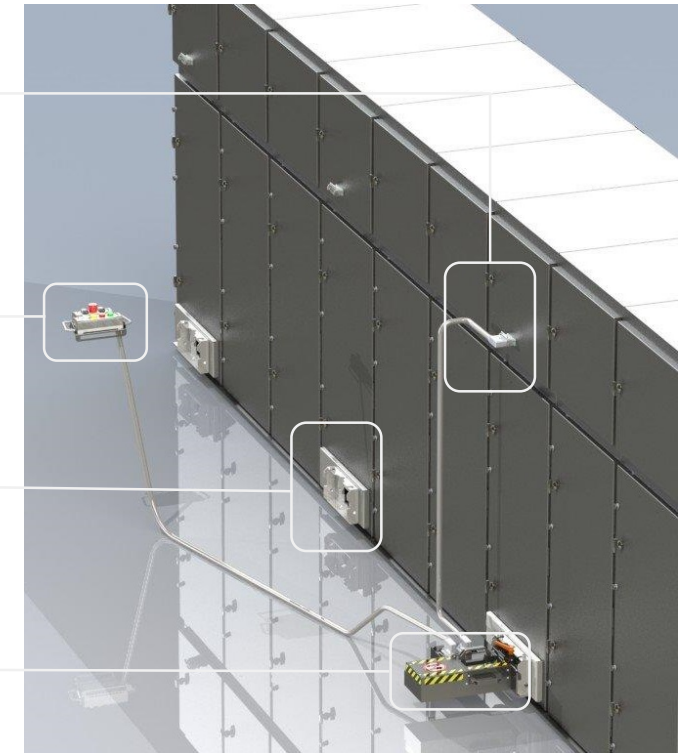
[Online video](#)

Switchgear
signal port

Remote console

Driver docking

Portable driver



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!

ABB