

DISTRIBUTION SOLUTIONS

TruckMaster CS version

Remote racking solutions for enhanced personnel safety



Truckmaster CS allows withdrawable circuit breakers with rotary racking systems to be remotely racked in and out from a safe distance.

The device can be simply and rapidly applied to the circuit-breaker compartment door. Use of Truckmaster CS is the most effective way to ensure that operators work in total safety.

Arc flash

Electric arcs can occur for several reasons, such as human error or faulty connections. Accidents are quite unusual but when they do happen their consequences can be very severe. Operators are always exposed to these risks when working in the switchgear room.

Flames, ejected parts, smoke and overpressure are the main effects of an arc fault in non-arc classified switchgear. Smoke is released into the room when faults occur in arc-classified switchgear without a gas outlet. The sound blast produced by the fault is very dangerous in all circumstances.

Solutions

ABB can provide remote racking apparatus onboard new MV circuit breakers and contactors. It can also be integrated into hard-bus and cradle-in-cradle retrofit applications.

A portable external driver can be applied in conversion and roll-in replacement solutions. Existing and new switchgear can be equipped with both devices, depending on the panel type. TruckMaster is a portable remote racking unit available in different variants for both cassette and floor-rolling apparatus with screw or ratchet racking systems.

Benefits

Safety

- Increased personnel safety thanks to the distance between the circuit breaker and the operator
- Enhanced switchgear operability prevents human errors due to manual operations
- Racking operations are performed by applying the recommended force, thereby preventing damage to the mechanism and interlocks
- A self-stopping system interrupts the operations if excessive resistance is encountered

Operation

- The portable driver is easily applied to the switchgear door
- User-friendly ergonomic console
- Equipment position indicated remotely
- Mechanical interlocks are maintained for manual operations
- TruckMaster is easy to store in the sturdy waterproof case when not used

Investment

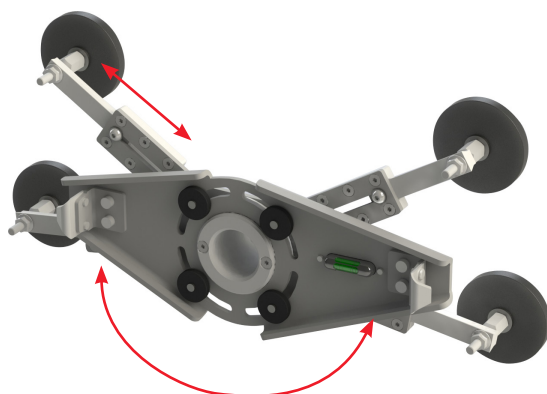
- Cost-effective way to attain a new level of operator safety
- Optimized investment since a single portable device is used for the whole line up

Description

TruckMaster comprises three elements:

- Driver docking ⁽¹⁾
- Portable driver ⁽²⁾
- Remote console ⁽³⁾

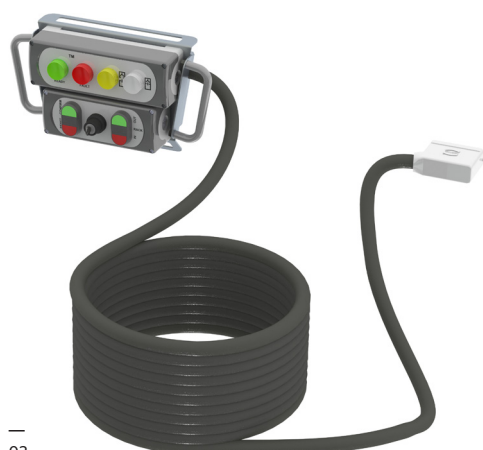
Driver docking is applied to the breaker compartment door so as to hook the portable driver to the door itself. One portable driver and relevant remote console are required in the switchroom to perform the remote racking operations. The umbilical cord for the remote console can be provided in different lengths.



01



02



03

TruckMaster CS version features

- Suitable for rotary racking mechanisms
- TruckMaster CS two positions for switchgear with connected and disconnected apparatus positions
- TruckMaster CS three positions for switchgear with connected, test and disconnected apparatus positions
- Applicable to ABB panels with cassette or floor-rolling circuit breakers equipped with withdrawable active, legacy and retrofit apparatus.
- Also suitable for non-ABB panels fitted with ABB cassettes and breakers.
- Easy application thanks to magnetic driver docking technology
- Only one driver docking required for the whole switchgear motorization system
- Connects to original circuit breaker door with no modifications required
- Needs a 110 VDC or 220 VDC power source
- Control via remote console allows operator to remain outside arc-flash boundary

For more information please contact:

More product information:
www.abb.com/mediumvoltage
Your contact center:
www.abb.com/contactcenters
More service information:
www.abb.com/service

TruckMaster webpage:



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