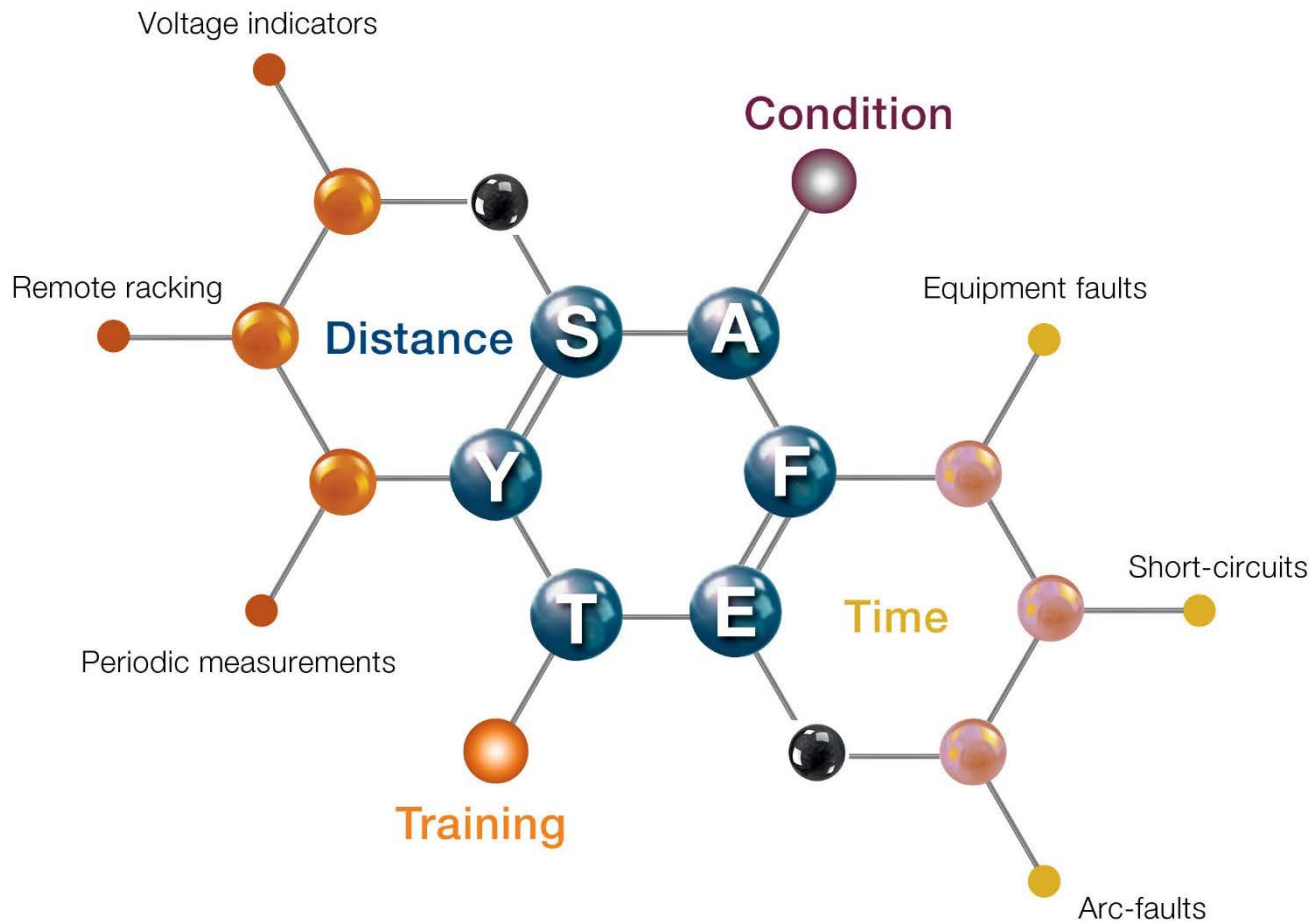


Medium voltage service, April 2015

TruckMaster Remotely is safer

ABB's formula for safety

Personnel risk prevention



Arc flash incidents

Let's keep the distance



Most common reasons

1. Human errors
2. Mechanical faults
3. Bad connections
4. Pollution
5. Animals

When do they occur?

25 % without operator

10 % with operator in front of a closed door

65 % with operator working in the switchgear

Working with switchgear

Safety first

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

Circuit breakers racking
with open door

Non-interlocked
equipment

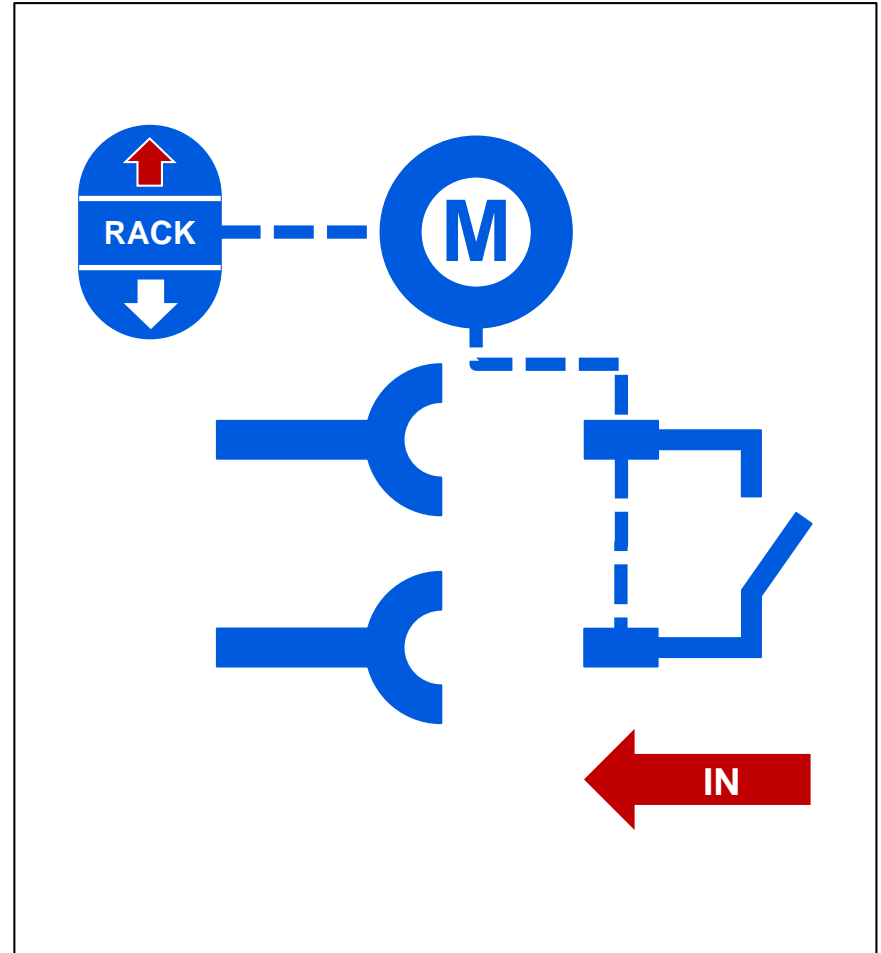
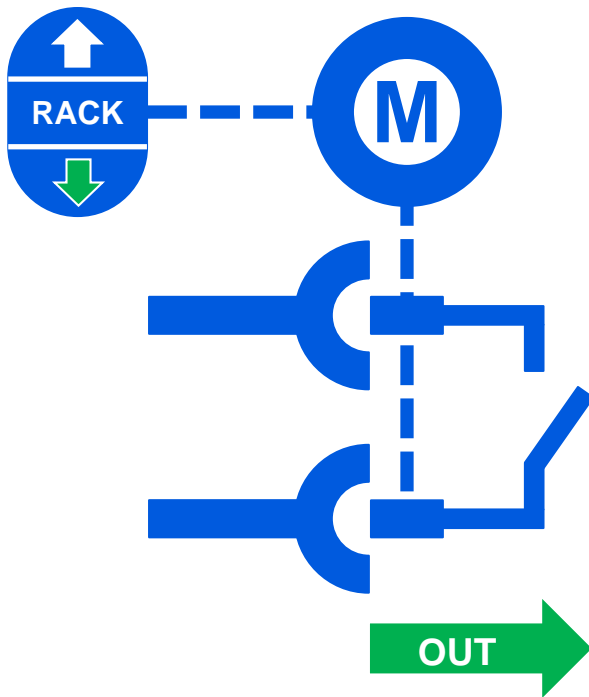
Operations with live
equipment

Non internal arc classified
switchgear





Remote racking

It's safer



Remote racking

Our offering

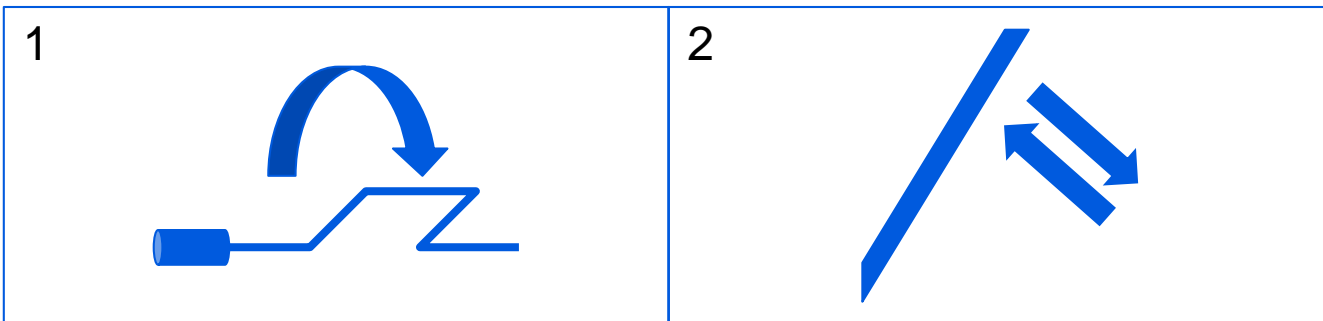
Type	Integrated	Portable (TruckMaster)
Design concepts		
Primarily applicable to	<ul style="list-style-type: none">• Hard-bus retrofill (e.g. OneFit)• Cradle-in-cradle retrofill	<ul style="list-style-type: none">• Conversion retrofit• Roll-in replacement

Also new switchgear can have this feature: integrated or portable type depends on panel type.

Remote racking

TruckMaster

Apparatus type	Racking system	TruckMaster version
Cassette	Screw type ¹	CS
	Ratchet ²	CR
Floor-rolling	Screw type ¹	FS
	Ratchet ²	FR

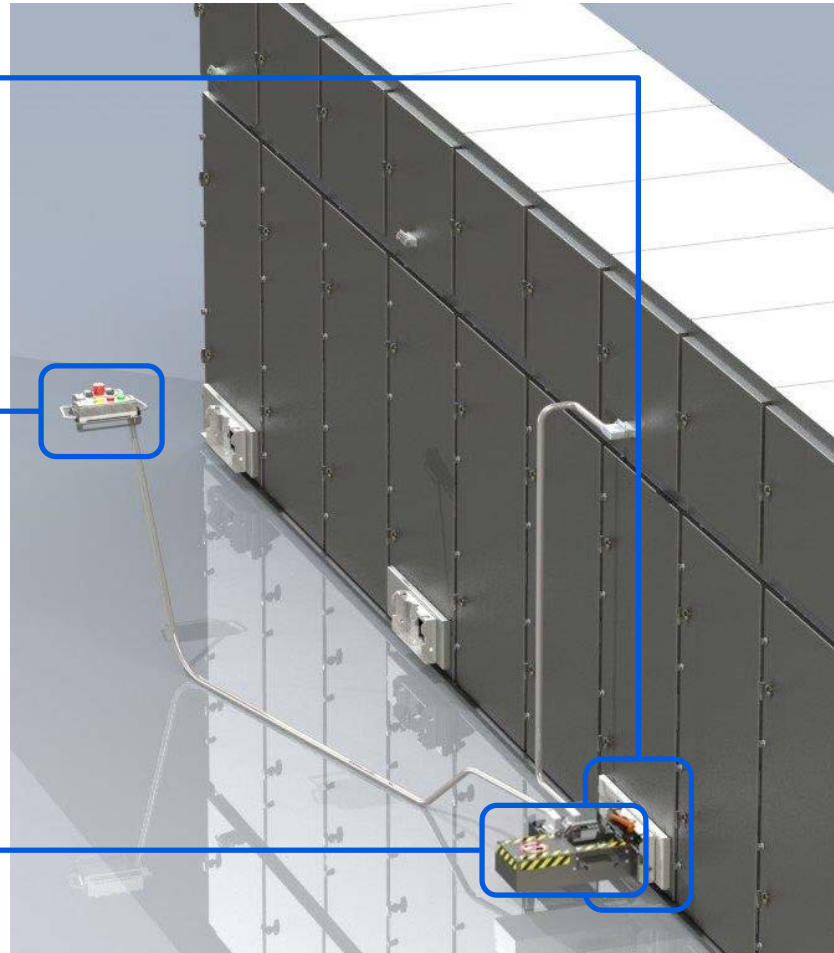


TruckMaster Design

**Switchgear
upgrade kit**

**Remote
console**

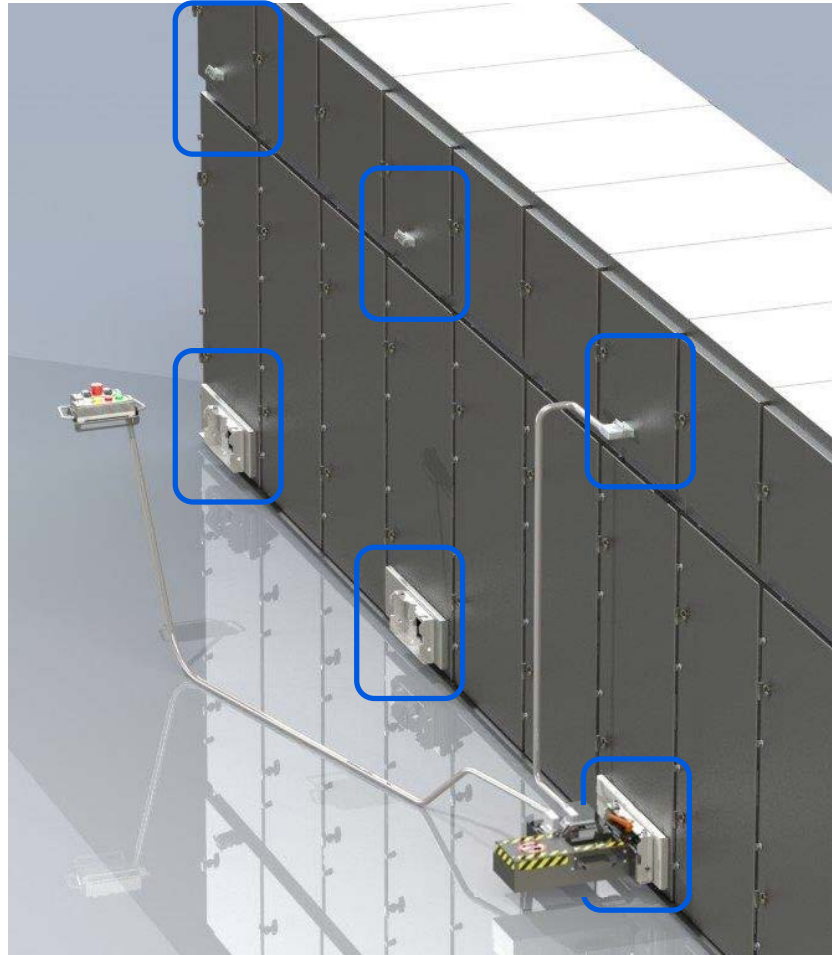
**Portable
driver**



TruckMaster Design

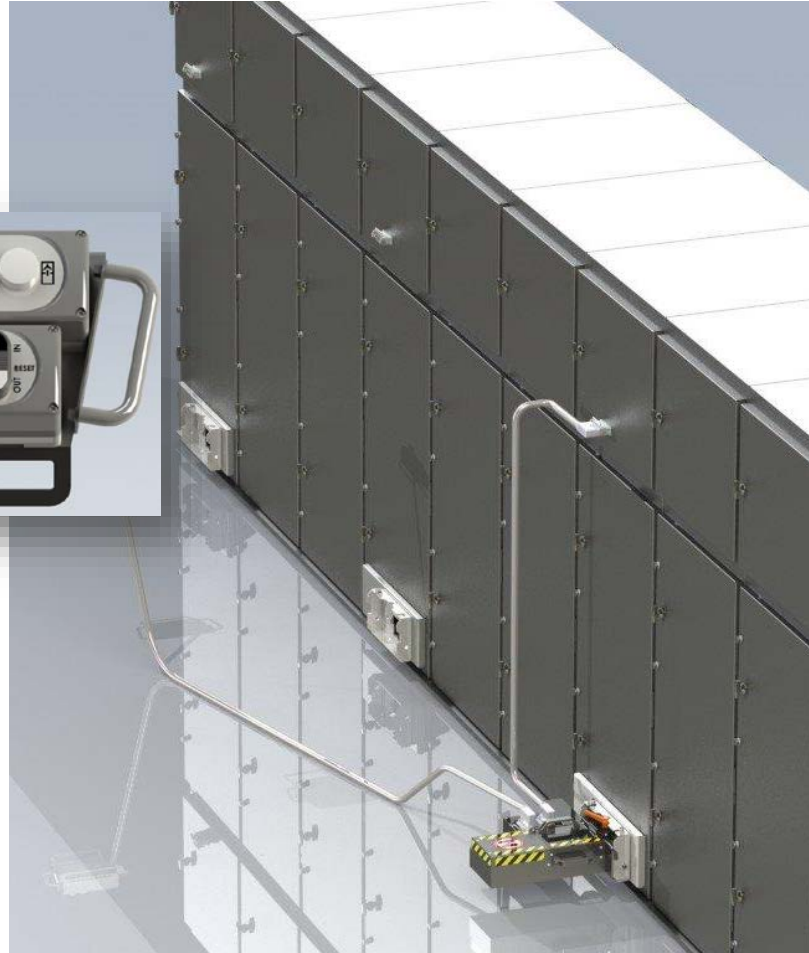
The upgrade kit is applied to each panel of the line up in order to accept the link with the portable driver.

Both the auxiliary compartment and the circuit breaker compartment door are project engineered and upgraded on site accordingly.



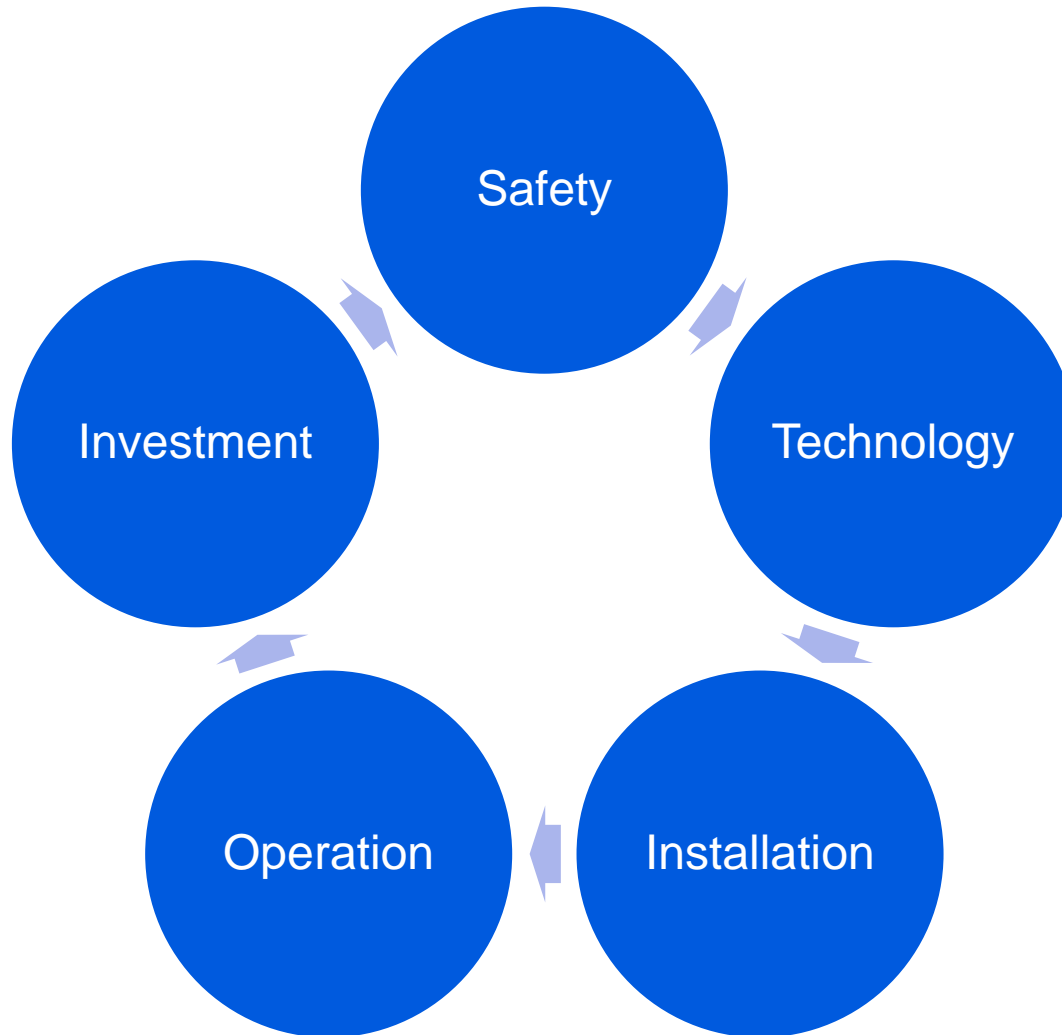
TruckMaster Design

A single portable driver and
its remote console for the
whole line-up.



TruckMaster

Get all the benefits



TruckMaster Safety



- Increased personnel safety thanks to the long distance between the circuit breaker and the operator
- Enhanced switchgear operability preventing human error related to manual operations

TruckMaster Technology



- State-of-the-art MV equipment
- Type tested according to latest Standards

TruckMaster Installation



- Easy switchgear upgrade
- Best implementation during retrofit commissioning

TruckMaster Operation



- Easy application of the portable driver to the switchgear door
- User-friendly ergonomic console
- Equipment position indicated remotely
- Emergency pushbutton on the console
- Mechanical interlocks are preserved for manual operations
- Easy storage in the switch-room

TruckMaster Investment



- Cost effective way to bring the operator to a new level of safety
- Optimized investment thanks to the use of a single portable device for the whole line up

ABB's formula for safety

Personnel risk prevention



**ABB Services providing the
formula for safety!**

Power and productivity
for a better world™

