

REMOTE RACKING SYSTEM

SPECIFICALLY DESIGNED FOR:

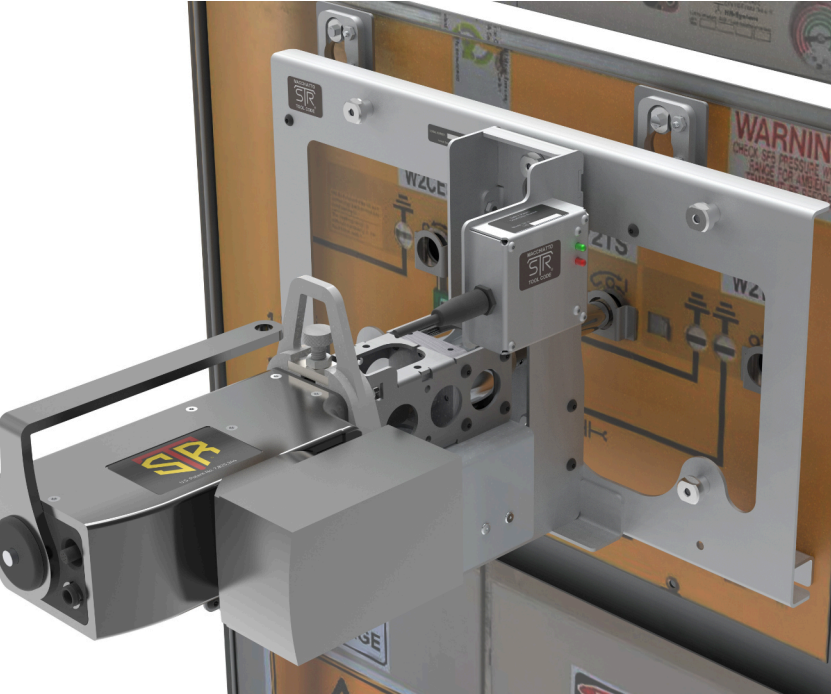
SR SAFE-T-RACK®

by Remote Solutions LLC

Because Distance is the Best Arc Flash Protection

BREAKER: RMU
MANUFACTURER: ALSTOM
VOLTAGE: DC

MACCHIATO
1016



- **LIGHTWEIGHT AND PORTABLE**
- **EASY-TO-USE HANDHELD CONTROLLER**
- **STANDARD 50' CABLE (WITH OPTIONAL EXTENSIONS) ASSURES SAFE DISTANCE FROM BREAKER DURING RACKING SEQUENCE**
- **ERROR RECOVERY & EMERGENCY STOP CAPABILITY**
- **MOUNTING HARDWARE INSTALLED ON CUBICLE FACE**

PARTS & ACCESSORIES

Smart Drive Bracket,
Tool Adapter Assembly, Motor Drive Unit,
Handheld Controller,
and 50' Communications Cable

All of our products are designed, built to spec, and shipped from our state-of-the-art facility in Tucson, Arizona. Each product is created and tested by our knowledgeable team of designers and engineers to fit each individual breaker, cubicle door, switchgear, or variant. When you choose Safe-T-Rack, you're getting the safest, most reliable product on the market.

**OUR TEAM GOES TO WORK EVERY DAY
TO MAKE SURE YOUR TEAM
COMES HOME SAFE.**



REMOTE SOLUTIONS, LLC

2475 N. Jackrabbit Avenue · Tucson, AZ 85745 · (520) 628-4378 ·
FAX (520) 628-4568 · www.Safe-T-Rack.com



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SAFETY FIRST

Always observe safety precautions and use personal protective equipment (PPE) as required by local site procedures. This equipment is designed to further minimize exposure risk to the operator.

PARTS LIST

1. Spanner Bar
2. Smart Drive Bracket (SDB)
3. Motor Drive Unit (MDU)
4. Two (2) batteries with charger
5. One (1) SR-U Handheld Controller (HHC)
6. 50' Communication Cable*
7. Polymer Storage Case



CUBICLE KIT REQUIRED

This application requires an installed cubicle kit onto which the SDB is mounted. For questions or installation requests, contact Remote Solutions LLC.

⚠️ WARNING

This product can expose you to chemicals including Di(2-ethylhexyl), phthalate (DEHP), which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

SETUP SEQUENCE

SPANNER BAR & SMART DRIVE BRACKET (SDB)

1. Assure that cubicle is fitted with Cubicle Kit and that Spanner Bar, Smart Drive Bracket (SDB), and Cubicle are all labeled with MACCHIATO color code.
2. Hang Spanner Bar from cubicle using installed Shoulder Nuts. Spanner bar will hang securely from keyhole slots.
3. Mount SDB to Spanner Bar using selected shoulder nuts. *Note: Spanner Bar is equipped with multiple Shoulder Nut mount locations, allowing various mounting options for SDB. User selects correct mounting location based on desired switch to operate.*
4. Using locking pin on side of SDB, release body of bracket and push it toward the breaker. SDB will engage with isolator when positioned correctly.
5. Engage the Spring Assist by lifting it over the slide support. Spring Assist will lock into place against face of Drive Rings, securing them against cubicle.

MOTOR DRIVE UNIT (MDU)

1. Attach fully charged battery to MDU.
2. Set the locking pin on SDB to an open position and insert MDU into the drive rings on SDB.
3. Align and engage the MDU with the hex shaft. Once aligned, release locking pin to hold MDU in place. Confirm that MDU is secured before proceeding.
4. Attach fully charged battery to MDU.
5. Connect SDB communication cable to port in MDU. *Note: Red line on communication cables indicates correct alignment with port.*

HANDHELD CONTROLLER (HHC)

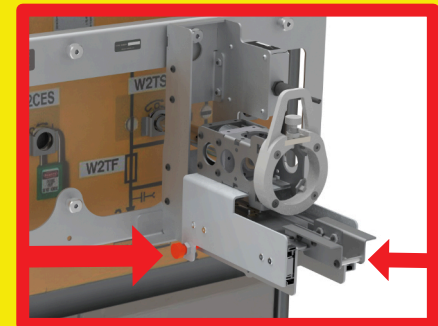
1. Connect 50' Communication Cable to second port in MDU.
2. Connect other end of 50' Communication Cable to Handheld Controller (HHC)*.
3. Move a safe distance away from the breaker.



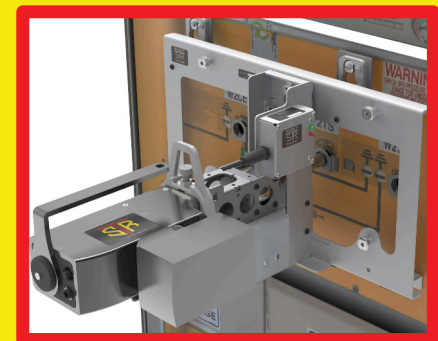
SPANNER BAR SUSPENDED FROM CUBICLE USING CUBICLE KIT SHOULDER NUTS



SDB SUSPENDED FROM SPANNER BAR



LOCKING PIN ON SDB RELEASED, SLIDE PUSHED FORWARD AND SPRING ASSIST ENGAGED AGAINST FACE OF DRIVE RINGS



MDU PROPERLY ENGAGED WITH DRIVE RINGS AND LOCKING PIN, READY FOR SDB AND HHC COMMUNICATION CORDS

*Note: Multiple cables can be used to increase safe distance from breaker. Additional cables sold separately. Contact Remote Solutions LLC for more information.

POWER ON

1. Twist the E-Stop switch on HHC to activate the system.
2. Several screens will flash as unit powers up. Once HHC has powered up, **verify correct application screen is displayed.**

SYSTEM OPERATION

1. Follow the on-screen prompts to complete racking procedure. Navigate selections using perimeter buttons on HHC (backlit in green). “Right” and “Left” will advance through menu screens. “Up” and “Down” will toggle selections on screen.
2. Navigating HHC in this manner, select current location and desired destination of breaker. When selection is highlighted, click center button (backlit in red) to confirm selection. **This will initiate the racking process.**
3. System will perform action as selected, displaying progress on screen.
4. Upon successful operation, HHC will display a completed racking screen.

POWER DOWN & STORAGE

1. Power down the unit by pressing the E-Stop button. Remove battery from MDU.
2. Unplug power cord and HHC communication cord from SDB.
3. Release SDB from isolator by pulling Spring Assembly away from cubicle and sliding it away from breaker until locked in place. Slide drive rings away from cubicle until SDB is clear of isolator.
4. Stow 50’ Communication Cable, HHC, MDU, and batteries in storage case.
5. Remove SDB from cubicle and store in provided polymer case.

BATTERY REQUIREMENT

Note: System will ask to verify battery level. Check battery level is at 4 bars before attempting to rack. If racking multiple breakers, please verify battery level between each racking attempt.



CARE & MAINTENANCE

To ensure longevity of the Portable Kit and SDB, store the tools in the provided polymer case in a dry, temperate environment. The tools are weather resistant but should be used with care in rain and snow.

Remote Solutions reserves the right to change or update product or documentation without prior notice.

ERROR RECOVERY

If a problem occurs, programmed recoveries will happen automatically and the system will attempt to recover the breaker to a known position.

When racking in/out, if an obstruction or mechanism failure occurs, the system will attempt to recover the breaker to a safe position. Actions will be displayed on HHC with an asterisk (*) in front of them. When the system has completed recovery operations, HHC will display current expected location of the breaker. Note the expected location and approach the breaker with caution. Determine cause of the failure and remedy the situation prior to attempting additional remote racking.

NOTE: Attempting to stop or shutting down the system mid-process once it has started is not recommended, as this will leave the breaker in an unknown position. The Remote Racking System will only operate from known positions.



EMERGENCY STOP

The red E-Stop button on the HHC serves as both the power and Emergency Stop button. If an E-stop is initiated, the system will shut down. Operator must then manually recover the breaker to a known position. Follow all safety procedures and wear appropriate PPE when recovering a breaker manually.

For any questions, concerns, information, or missing/replacement parts, contact Remote Solutions below or follow the QR link to our website.



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