Battery Handling Equipment Catalog

The complete battery changing catalog from the leader in the industry

The Power of Change™

MATERIALS TRANSPORTATION COMPANY™
Since 1946 An Employee Owned Company

DOUGLAS LEGACY Series
Facts to know before planning your changing room

OSHA Regulation 1910.178

(g) - changing and charging storage batteries

1. Battery charging installations shall be located in areas designated for that purpose.

2. Facilities shall be provided for flushing and neutralizing spilled electrolyte, for fire protection, for protecting charging apparatus from damage by trucks, and for adequate ventilation for dispersal of fumes from gassing batteries.

3. (Reserved)

4. A conveyor, overhead hoist or equivalent material handling equipment shall be provided for handling batteries.

5. Reinstalled batteries shall be properly positioned and secured in the truck.

6. A carboy lifter or siphon shall be provided for handling electrolyte.

7. When charging batteries, acid shall be poured into water; water shall not be poured into acid.

8. Trucks shall be properly positioned and brake applied before attempting to change or charge batteries.

9. Care shall be taken to assure that vent caps are functioning. The battery (or compartment) cover(s) shall be open to dissipate heat.

10. Smoking shall be prohibited in the charging area.

11. Precautions shall be taken to prevent open flames, sparks or electric arcs in battery charging areas.

12. Tools and other metallic objects shall be kept away from the top of uncovered batteries.

OSHA Regulation 1926.441

(a) - general requirements

1. Batteries of the unsealed type shall be located in enclosures with outside vents or in well-ventilated rooms and shall be arranged so as to prevent the escape of fumes, gases or electrolyte spray into other areas.

2. Ventilation shall be provided to ensure diffusion of the gases from the battery and to prevent the accumulation of an explosive mixture.

3. Racks and trays shall be substantial and shall be treated to make them resistant to the electrolyte.

4. Floors shall be of acid resistant construction unless protected from acid accumulations.

5. Face shields, aprons and rubber gloves shall be provided for workers handling acids or batteries.

6. Facilities for quick drenching of the eyes and body shall be provided within 25 feet (7.62m) of battery handling areas.

7. Facilities shall be provided for flushing and neutralizing spilled electrolyte and for fire protection.

(b) - charging

1. Battery charging installations shall be located in areas designated for that purpose.

2. Charging apparatus shall be protected from damage by trucks.

3. When batteries are being charged, the vent caps shall be kept in place to avoid electrolyte spray. Vent caps shall be maintained in functioning condition.

For additional information see regulation web page at www.osha.gov/comp-links.html or the OSHA home page at www.osha.gov
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General Notes

- All products illustrated are current as of the publication of this brochure.
- All dimensions shown are nominal and subject to change without notice.
- MTC reserves the right to make changes and modifications without notice.
- Contact MTC for additional details.
The Power...

When it comes to battery changing equipment and systems, industries around the world come to Materials Transportation Company. That’s because MTC is uniquely qualified to help companies like yours meet the challenge of battery changing both now and in the future. Utilizing MTC’s team of engineers, designers, and sales and service professionals, you can harness the power of change with efficient, dependable systems designed for any workload and budget.

With MTC products, you’re assured of state-of-the-art, long-lasting equipment and systems designed with safety in mind that deliver increased productivity for many years to come. MTC understands that your facility will grow, so we design our systems to be expandable — to grow right along with you.

...Of Change

Whether your electric truck fleet is small or large, MTC has a side removal system that’s right for your application. Our portable changing systems include the non-powered Battery Transporter with Mechanical Loader. If your changing needs require a powered portable system, consider MTC’s Attach-A-Puller and Walk-A-Puller models.

Power Changer™

Larger fleets demand more power, and MTC’s industry-standard Power Changer™ is your solution. Power Changers™ provide a safe, dependable way to change batteries quickly and efficiently without operator fatigue. MTC Power Changers™ are available in single or double compartment models and from a single level up to a six high system to allow for the most efficient use of your floor space and budget.
**Portable Battery Changers**

MTC’s DC powered portable battery changers offer safety and flexibility at an economical price.

**Battery Transporter with Mechanical Loader**

MTC’s non-powered battery changer is designed for smaller lift truck fleets that need easier battery changing.

Individual specification sheet available.
**Battery Transporter with Mechanical Loader**

**Features**
- Adjustable Roller Bed Height
- Foot Operated Jack
- Floor Lock
- Push/Pull Plate Mechanically Driven
- Composition Wheels
- Battery Safety Stop
- Spring Loaded Rollers
- Adjustable Chain to Secure Transporter to Side of Truck*

**Options**
- Powered Push/Pull and Lift
- Low Profile for 3" Load-in Height

**Available Models**

<table>
<thead>
<tr>
<th>Model</th>
<th>Maximum Battery Width</th>
<th>Capacity</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>BT-24-ML</td>
<td>21&quot;</td>
<td>3000 lbs.</td>
<td>6'-30&quot;</td>
</tr>
<tr>
<td>BT-30-ML</td>
<td>30&quot;</td>
<td>3000 lbs.</td>
<td>7'-30&quot;</td>
</tr>
</tbody>
</table>

*Fork Pockets are available for standard fork sizes 27" x 42" or 48" in length. Please specify 7" or 9" fork width. For powered push/pull, please consult factory. EZ Puller mounted on typical pallet truck adjusts from 6" to 12" in height. See specification sheet.

For more information, request individual specification sheet or specify MTC product bulletin. *Requires safety attachment supplied by customer to secure transporter to truck when changing battery. For low profile, add "LP" to model number. (Not available on BT-30-ML)
Walk-A-Puller
The economical battery changer

The WBP is a completely portable battery changer for the small fleet with a variety of battery compartment heights up to 27".

Features
- Front Loading
- Vacuum Extraction
- Single Point/Dead-Man Controls
- Two Speed Electric Drive
- Up-Down and In-Out Hydraulic Powered
- 24V Battery Pack with 110V Built-in Charger
- Dual Battery Safety Stop
- Capacity: 4000 lbs.
- Turning Radius: 84"
- Roller Bed Height: variable 3" to 27"
- Hour Meter

Available Models

<table>
<thead>
<tr>
<th>Model</th>
<th>Maximum Battery Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>WBP-40-V-44</td>
<td>40&quot;</td>
</tr>
</tbody>
</table>

Attach-A-Puller
Turns a pallet jack into a portable battery changer

The ABP is an economical attachment for a pallet jack. Powered from the pallet jack battery and limited to the host truck’s height capability, the ABP is a safe, affordable and flexible small fleet battery changer.

Features
- Mounts on Your Existing Pallet Truck
- Vacuum Extraction
- Pallet Truck Battery Provides Power
- 12- or 24-Volt Models Available
- Controls Mount for Operation from Either Side

Capacity is based on the pallet jack load capacity and overall fork length. (Refer to spec sheet.)

Available Models

<table>
<thead>
<tr>
<th>Model</th>
<th>Maximum Battery Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABP-24-V-24</td>
<td>24&quot;</td>
</tr>
<tr>
<td>ABP-40-V-24</td>
<td>40&quot;</td>
</tr>
<tr>
<td>ABP-24-V-44-24*</td>
<td>24&quot;</td>
</tr>
<tr>
<td>ABP-40-V-44-24*</td>
<td>40&quot;</td>
</tr>
</tbody>
</table>

For more information, request individual specification sheet or MTC product bulletin.

For 12 Volt models, change "-24" at end to "-12". *Handles batteries to 44" long.
Battery Station with Rollers

**Two-Compartment**

<table>
<thead>
<tr>
<th>Model</th>
<th>Roller Width</th>
<th>Outside Width (OW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS-12-2</td>
<td>12&quot;</td>
<td>26&quot;</td>
</tr>
<tr>
<td>RS-15-2</td>
<td>15&quot;</td>
<td>32&quot;</td>
</tr>
<tr>
<td>RS-18-2</td>
<td>18&quot;</td>
<td>36&quot;</td>
</tr>
<tr>
<td>RS-21-2*</td>
<td>21&quot;</td>
<td>44&quot;</td>
</tr>
<tr>
<td>RS-24-2*</td>
<td>24&quot;</td>
<td>50&quot;</td>
</tr>
<tr>
<td>RS-27-2</td>
<td>27&quot;</td>
<td>56&quot;</td>
</tr>
<tr>
<td>RS-30-2</td>
<td>30&quot;</td>
<td>62&quot;</td>
</tr>
<tr>
<td>RS-34-2</td>
<td>34&quot;</td>
<td>70&quot;</td>
</tr>
</tbody>
</table>

**Three-Compartment**

<table>
<thead>
<tr>
<th>Model</th>
<th>Roller Width</th>
<th>Outside Width (OW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS-12-3</td>
<td>12&quot;</td>
<td>39&quot;</td>
</tr>
<tr>
<td>RS-15-3</td>
<td>15&quot;</td>
<td>48&quot;</td>
</tr>
<tr>
<td>RS-18-3</td>
<td>18&quot;</td>
<td>57&quot;</td>
</tr>
<tr>
<td>RS-21-3*</td>
<td>21&quot;</td>
<td>66&quot;</td>
</tr>
<tr>
<td>RS-24-3*</td>
<td>24&quot;</td>
<td>75&quot;</td>
</tr>
<tr>
<td>RS-27-3</td>
<td>27&quot;</td>
<td>84&quot;</td>
</tr>
<tr>
<td>RS-30-3</td>
<td>30&quot;</td>
<td>93&quot;</td>
</tr>
<tr>
<td>RS-34-3</td>
<td>34&quot;</td>
<td>105&quot;</td>
</tr>
</tbody>
</table>

*5’ deep units available. Add "-45" to model number. To order without shelf, add "-LCS" to model number. All meet OSHA requirements. R = Desired height of rollers above floor. Please specify. Minimum of 9". Adjustable Height Plus or Minus 1 1/2".

Battery Service Station

- Heavy-Duty Construction
- Non-Conductive Roller Bed
- Spring Loaded Rollers
- Adjustable Legs
- Battery Safety Stops
- 2.5" Diameter Roller

<table>
<thead>
<tr>
<th>Model</th>
<th>Roller Width</th>
<th>Outside Width (OW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>B-SS-15</td>
<td>15&quot;</td>
<td>15 3/4</td>
</tr>
<tr>
<td>B-SS-21</td>
<td>21&quot;</td>
<td>21 3/4</td>
</tr>
</tbody>
</table>

\[ R = \text{roller height} \text{ Available from 5" to 14"} \]

All dimensions shown are nominal and subject to change without notice.

Individual specification sheet available.
**Single Level Adjust-A-Rack™**
Single stack charging rack with charger shelf and adjustable compartments, shown with battery.

**Recommended for use with Power Changer™ systems**

**Features**
- Fully Adjustable Battery Compartments
- Modular Design
- Heavy Duty Slide Strips and Lead Rollers Used Inside Each Battery Compartment
- High Capacity Top Charger Shelf
- Adjustable Battery Backstops

**Single Stacking Adjust-A-Racks™**

<table>
<thead>
<tr>
<th>Model</th>
<th>Overall Width</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSAR-72-TCS</td>
<td>72&quot;</td>
<td>10,800 lbs.</td>
</tr>
<tr>
<td>SSAR-84-TCS</td>
<td>84&quot;</td>
<td>12,600 lbs.</td>
</tr>
<tr>
<td>SSAR-96-TCS</td>
<td>96&quot;</td>
<td>14,400 lbs.</td>
</tr>
<tr>
<td>SSAR-120-TCS</td>
<td>120&quot;</td>
<td>18,000 lbs.</td>
</tr>
</tbody>
</table>

Battery compartment with adjustable back stop

With Adjust-A-Racks™ you can change the configuration of your battery compartments as required. Adjust-A-Racks™ allow you to fully utilize all your available space.

Connect with a Leader
www.douglasbattery.com
The Power Changer® Advantage

The Power Changer® is MTC’s top-of-the line battery changer for facilities that can’t afford to slow down. The larger the fleet, the more important space utilization becomes and that’s why Power Changers® are so important to so many companies.

Whether you require a single level battery changing operation, or a multi-stacking system up to six high, the MTC Power Changers® provide positive, safe battery changing without operator fatigue.

In fact, the twin-compartment Power Changer® is so efficient that it can extract the discharged battery and replace it with a fresh one in under two minutes – all with no operator contact with the battery except for connecting and disconnecting the charger.

MTC’s Power Changer series is the ultimate in side removal battery changing equipment, allowing you to fully utilize your available space – whether it reaches out or up!

Single-Level Power Changers®

This is the perfect machine for those facilities requiring 10-100 lift truck battery changes per day. With two compartments, the Power Changer® series lets you make the maximum use of your rack space while operators remove and replace batteries quickly and efficiently.

Features

- Powered Vacuum Extraction
- Carriage Equalization Chain System with Four Independent Lift Cylinders
- Deadman Operator Platform
- Five Powered Rollers per Battery Compartment
- Vacuum Arm Safety Lockout

Multi-Stacking Power Changers®

MTC’s Multi-Stacking Power Changers® are designed to make maximum use of valuable floor space for facilities with high-capacity applications requiring 20-250 battery changes per day.

Features

- Battery Stacking 2 to 6 High
- Variable Speed Drive
- Simultaneous Travel and Lift
- Powered Vacuum Extraction
- PLC Controlled Battery Safety Stops

Individual specification sheet available.
The MTC Intell-A-Changer is the next-generation, fully automated battery changing system that allows you to execute flawless battery changes every time. This is an all-electric changer, using no hydraulics, that utilizes an Allen-Bradley ControlLogix PLC that controls seven SEW-Eurodrive inverters and motors. Encoders inform the PLC about such things as carriage height, arm travel, and arm movements. It utilizes a laser for down-aisle position sensing.

**Features**
- Totally Automated Battery Changing
- All Electric Drives with Absolute Encoders
- Electro-magnetic Extraction
- Complex DC Power Management
- Eliminates the Cost of a Dedicated Operator
- Reduces the Number of Batteries and Chargers Required
- Allows You to Track Performance and Maintenance
- Generates Reports Showing All Battery and Charger Activity

The Intell-A-Changer is designed to change batteries in automatic Guided Vehicles (AGVs), Laser Guided Vehicles (LGVs), and forklifts. The Intell-A-Changer makes it possible for AGVs and forklifts to stay on the floor longer.

Traveling at a speed of 300 fps, and with a lift speed of 45 fps, the Intell-A-Changer will change a battery without an operator! At the start of the twenty-first century, it is undoubtedly the most efficient battery changer ever built with the ability to store batteries at multiple levels.
**POWERCRANE™**

**Hydraulic Traveling Gantry Crane System**

The HTG Hydraulic Traveling Gantry Crane is the ideal system when battery changing must be done from overhead. The HTG offers six-way motion at a fraction of the cost of a bridge crane and is easy to assemble and install. As with most MTC battery changing systems, the HTG can be easily expanded as your lift truck fleet grows.

The hydraulic power unit provides positive soft starts and stops for safety and control while batteries are being changed. Non-powered, track-guided, and portable gantry cranes with hoists are also available.

**Features**
- Hydraulic Powered Travel
- 4000 lb. or 6000 lb. Capacity
- 10' or 12' Under-beam Height
- Up to 20' Between Uprights
- Dual Sided Drive System
- Low Profile Flat Guide Track

**Options**
- Hoists and Trolleys

**Hoists Options**

- 2-ton electric chain hoist with plain (manual) trolley and chain container (2 button pendant) Model ECH2P-2-X*  
- 3-ton electric chain hoist with plain (manual) trolley and chain container (2 button pendant) Model ECH3P-2-X*  
- 2-ton electric chain hoist with motorized trolley and chain container (4 button pendant) Model ECH2M-4-X*  
- 3-ton electric chain hoist with motorized trolley and chain container (4 button pendant) Model ECH3M-4-X*  
- 2-ton electric chain hoist with motorized trolley and chain container (6 button pendant) Model ECH2M-6-X*  
- 3-ton electric chain hoist with motorized trolley and chain container (6 button pendant) Model ECH3M-6-X*

**Note:** Motorized trolley and six-button control pendant are required with the HTG series gantry cranes. Buttons operate: up/down, left/right trolley travel and forward/reverse crane travel.

* X = Desired primary three phase voltage (208, 230, 460, 575) please specify.

Individual specification sheet available.

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www.douglasbattery.com
Battery Station with Acid-Resistant Interlay

Meets OSHA requirements.
Battery Stations available less charger shelf. Add “-LCS” to model number.

Battery Station with Acid-Resistant Interlay Features

- Acid-resistant Charging Surface
- Corrosion-resistant Spacers
- Heavy Duty Construction
- 800 lb. or 1600 lb. Capacity Charger Shelf (see chart)

Safety Note:
Specify interlay to run left to right for batteries 12" or less in width. Add "-LR" to model number.

Overhead Transporter with Acid-Resistant Interlay

Features

- Acid-Resistant Interlay
- Composition Wheels
- Roller Bed

Option

Model | ID | H
--- | --- | ---
HT-28 | 30" | 12"
HT-33 | 35" | 12"
HT-15R | 15 3/4" | R*
HT-28R | 30 3/4" | R*
HT-33R | 35" | R*

*R* refers to the desired height of rollers above floor. PLEASE SPECIFY with a minimum of 6". All dimensions shown are nominal and subject to change.

Individual specification sheet available.

*Interlay runs left to right (standard)
**Available with left to right interlay
***1600 lb. capacity charger shelf standard
Battery Cleaning

Battery Wash Cabinets

Prevent buildup of acid on batteries for reduced maintenance and longer life

With all stainless steel construction, MTC Wash Cabinets are designed for long-lasting dependability. The rollers’ stainless steel shafts rotate in the Nelsonized® hardwood bearing frame that eliminates roller bearings in the harsh cleaning environment of the wash cabinet.

The two panel door makes these cabinets fit into areas with overhead obstructions as low as 9 feet. The new door is easy to maintain and the multi-directional air and water nozzles let you adjust for the variety of batteries in your facility.

Options
- Rotary bottom scrubber
- Powered rollers (for front loading)

Features
- Stainless steel construction and roller shafts ensure durability
- Nelsonized® hardwood bearing frame and non-metallic air and water lines provide trouble free operation
- Chemicals not required
- Multi-directional air and water nozzles rinse batteries in a totally enclosed environment
- Adjustable wash cycles
- Air curtain removes excess water
- 120 volt primary voltage with 12 volt DC secondary voltage
- Built-in drain tray with 1” pipe coupling removes sediment
- Systems designed to accept H2O-150SS sump pump in drain tray.

Utilities and air provided by customer.

MTC’s Battery Wash Cabinet combines with the Recirculating Water System to form a complete, closed-loop battery cleaning system.

Individual specification sheet available.

Connect with a Leader
www.douglasbattery.com
**Battery Wash Racks**

MTC’s economical wash racks are acid resistant for long life and reduced maintenance.

**Dimensions:**
- 52 7/32” wide
- 57” long
- 55 1/8” high
- 12 1/2” to top of rollers

**Model H2O Recirculating Water System**

The H2O-150SS combines stainless steel construction with ease of operation. You get a constant flow of water that is filtered, pH monitored and recirculated, reducing your environmental concerns.

The system features a single on/off switch and a single recirculating control switch and requires no toxic chemicals.

**Features**
- 150 Gallon Reservoir
- 12 G.P.M. @ 50 P.S.I. Water Flow
- 12 Volt Primary Voltage
- 12 Volt Sump Pump
- Automatic Low pH Shut Off*
- Dual Cartridge Supply Line Filters
- Trash Screen on Sump Drain
- Eliminates All Drain Requirements
- Requires No Toxic Chemicals
- Safe and Easy to Operate
- Works with Wash Cabinets or Wash Racks
- Automatic or Manual Operation

**Option**
- 360 Gallon Reservoir

*Requires liquid neutralizer, MTC-LNC or equivalent for pH balancing.

Individual specification sheet available.
**Shower Eyewash Assembly**
Model SEW-303

Features:
- Large stainless steel pull rod actuator
- Self-adjusting regulator to assure a constant, even flow
- Galvanized piping
- ABS dual stream head with pop-off covers
- Bright Yellow, ABS plastic shower head for maximum visibility
- Slag-open 1 1/4" bell valve

**Battery Watering Gun**
Model B

Features:
- Accurate automatic filling
- Automatic shutoff & pressure regulator
- 7/8 inch nozzle diameter
- High flow rate - 2 gallons/minute
- Attaches to any standard hose
- Insulated against short circuits

Options:
- Narrow 5/8 inch nozzle diameter
- Steeper nozzle bend
- Cone shaped nozzle
- Manually adjustable flow throttle
- Removable extension

**Battery Spill Response Kit**

Features:
- Compact, lightweight design
- Easy-to-read instructions
- Replaceable components
- Single pack Nutra-Tube design
- All in one convenience
- Inspection date label

**Safety Kit**
Model SK-1

Kit Includes:
Chemical resistant face shield with polycarbonate window. The adjustable ratchet headgear ensures a secure comfortable fit. Acid apron is polyester double-coated with PVC. One size apron neck strap and waist ties are adjustable.

Gloves are nitrile acid resistant, with comfort curved finger and hand design.

**Battery Cleaning Kit**
Model BCK-10

Contents:
- Chemicals
- Gloves
- Brushes
- Goggles

**Water De-Ionizer System**
Model PS-300

Connect with a Leader
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Fork Attachment

Model FA-6000

Used with Battery Handling Beam for battery removal

**Features**
- 48" safety chain and hook
- Swivel hook with safety latch
- Fork openings – 1 5/8" x 6 1/2"
- 6000 lb. capacity

Battery Handling Beam

<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity</th>
<th>OL</th>
<th>Batteries</th>
<th>BH* Adjustable in 3” increments</th>
</tr>
</thead>
<tbody>
<tr>
<td>HB-4000-PL</td>
<td>4000 lbs.</td>
<td>43&quot;</td>
<td>21&quot; to 42&quot; long</td>
<td>24” to 39”</td>
</tr>
<tr>
<td>HB-6000-PL</td>
<td>6000 lbs.</td>
<td>47&quot;</td>
<td>25” to 46” long</td>
<td>28” to 43”</td>
</tr>
</tbody>
</table>

*BH dimensions with hooks in vertical position. Each hook may be angled 1 1/2” open or closed safely. All dimensions shown are nominal and subject to change.

The battery handling beam offers a heavy duty non-conductive method of lifting batteries. The non-slip hook design fits snugly into most battery lifting holes. All MTC handling beams are now equipped with MTC’s Posi-Latch Safety Mechanism.
**Wall Mounted Charger Support**

Model CSW-2
One set fits standard chargers

**Option**
- Bracket for charger cable retractor (p. 18)

All dimensions shown are nominal and subject to change.

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**Charger Cable Retractor**

Model BCR-58H

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**Model** | **0W**
--- | ---
CSF-24 | 24"
CSF-36 | 36"

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**Charger Cable Retractor Features**

- Molded suspender holds cables securely in place
- Oil tempered spring will not kink or take permanent set
- Sauber chain restricts spring back movement
- Rugged 5/8" threaded stud

Individual specification sheet available.

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Connect with a Leader
www.douglasbattery.com
Slide Strip with Guide Roller
Model B-UPS-R
Requires two or three (consult factory)
Specify “L” dimension
Also available without lead roller (Model B-UPS)

Many lift trucks can be converted to side extraction by making minor modifications to the side of the lift truck battery compartment. MTC provides an economic solution, offering various types of slide strips and roller beds. Please call our sales department for further information.

Battery Rollers
Model BR-HD
Requires 1 1/2” x 2 1/4” cutout
Requires nine per truck

Heavy Duty Roller Tray
Model HRT
Two or three rail models available (consult factory)*

<table>
<thead>
<tr>
<th>Model</th>
<th>Roller Width</th>
<th>OW</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRT</td>
<td>please specify</td>
<td></td>
</tr>
</tbody>
</table>

All dimensions are nominal and subject to change.

*Three rails recommended for batteries over 20” wide.

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www.douglasbattery.com