



**Battery Handling Equipment**

## ***Operator Aboard Battery Extractors***

Any facility operating with a large fleet of electric forklifts will require frequent battery change-outs. BHS Operator Aboard Battery Extractors (BE) are essential for exchanging batteries from forklifts, and BHS offers a variety of BE models for operations of all sizes. These industrial battery pullers are the first of their kind to offer cloud-based digital integrations, giving users access to the Industrial Internet of Things (IIoT). BHS battery changers can reduce change-out times substantially, ensuring a more productive facility.



***Ask about custom warehouse equipment for your unique application.***

As a full-service original equipment manufacturer, BHS can build custom solutions for any material handling challenge. Contact the BHS sales team at [bhs@bhs1.com](mailto:bhs@bhs1.com) to learn more.

 **1.800.BHS.9500**

 **BHS1.com**





## ***Operator Aboard Battery Extractors***

### ***With BE-MAX™ – Industrial Internet of Things (IIoT) Integration***

Not all forklift battery extraction applications demand the same handling solutions, equipment, or stacking requirements. That is why BHS offers a variety of extraction methods with several options available to customize the system for every facility. All units have features that make them the most versatile, reliable, and cost-effective battery extractors for Industry 4.0 applications. For maximum efficiency and space-savings, BEs are also available in multi-level systems. BHS representatives will help determine which model is best for your application by considering fleet size, room dimensions, battery and charger specifications, budget requirements, and various other factors.

#### **FEATURES & BENEFITS**

- BE-MAX package offers real-time data and reporting, predictive maintenance notifications, operator login accountability, and asset protection (see next page for more details)\*
- Complimentary subscription of the BE-MAX package included. After trial period, additional subscription fees apply\*
- Heavy-duty construction for added reliability
- Low-maintenance design reduces preventative maintenance frequency
- No exposed components for added safety
- Durable powder coat finish resists both acid and scratches
- Manual control of hydraulics for easy operation
- Vacuum extraction reduces wear and tear on batteries
- Vacuum extractor arm adjustable for various reach requirements\*
- Non-proprietary hydraulic and electrical components lower replacement part costs
- Redesigned hydraulic system for increased flow capacities and consistent function speeds
- Quiet-running dual floor drive system provides positive traction on wet or dry surfaces\*
- BHS exclusive Non-Inter-Flow (NIF) hydraulic manifold system stabilizes the lift cylinders to ensure a level roller bed during load transfers\*
- Four lift cylinders, in combination with four-point equalization, assure smooth and level vertical movement of the roller bed when empty or loaded\*
- Five hydraulic-powered rollers per compartment provide a brake for safe, easy battery transfer\*
- Induction-type proximity switch disables floor drive to protect equipment when the extractor arm is outside the envelope of the compartment\*

\* Not available on BE-SS



## MAXIMIZING BATTERY EXTRACTOR PERFORMANCE & LONGEVITY

BE-MAX is the IIoT package that comes standard with BHS Operator Aboard Battery Extractors. BE-MAX includes software, hardware, and smart battery handling equipment that provide important safeguards, protecting users and mission-critical assets. Through a range of operational data-collection capabilities, BE-MAX technology can extend the working life of your equipment. It also empowers managers with oversight reports and control over access. Internal sensors on the BE track an array of conditions that contribute to the machine's performance. Perhaps most importantly, BE-MAX requires login from authorized users only. It tracks usage and productivity across every shift.



### 1 MAXIMIZE Operator Accountability

The operator's touchscreen is mounted to the BE dashboard and communicates with the BE-MAX Web Portal via the cloud (Web Portal access is complimentary for a trial period). Only trained, authorized users are granted PIN-number logins required for operating the machine.

### 2 MAXIMIZE Asset Protection

Operators can complete a daily checklist to verify equipment is in perfect running condition. This ensures battery handling assets are fully maintained and operate at peak efficiency and safety.

### 3 MAXIMIZE Asset Management

Access real-time reports about the asset, alerts, and operator activity through the BE-MAX Web Portal on your device. Manage operator and Web Portal users, and customize email notifications to ensure visibility over critical events, unsafe use, and more.

## Predictive Maintenance Sensors Monitor Machine Health

- ▶ **Tilt Sensor** monitors tilt on X- and Y-axes, sending alerts when factory set parameters for BE levelness are exceeded. This helps identify poor operator practices and repairs needed in order to prevent long term damage.
- ▶ **Oil Pressure** is closely monitored to identify signs of a clogged filter, component failure, or maladjustment which could lead to component damage.
- ▶ **Foot Pedal Sensor** provides real-time data of battery extractor usage.
- ▶ **Oil Level Sensor** monitors the oil level to prevent reaching low levels.\*
- ▶ **Oil Temperature** is monitored for increases past a set limit to prevent hydraulic system component failure or maladjustment of relief valves, leading to system overheating and shortened oil life.
- ▶ **Proximity Sensor** indicates when maintenance or tampering of dashboard may have occurred.
- ▶ **Oil Filter Sensor** detects when the filter is nearing or due for replacement.\*

\*Version 6.0 update

**Achieve Greater Productivity  
& Lower costs with BE-MAX**

## AVAILABLE OPTIONS ( • indicates option is available, S indicates standard feature)

|                                 | SINGLE SIDE<br>(BE-SS) | SINGLE LEVEL<br>(BE-SL) | DOUBLE STACK<br>(BE-DS) | TRIPLE STACK<br>(BE-TS) | QUAD STACK<br>(BE-QS) | MTC DIRECT<br>REPLACEMENT (BE-MT)* |
|---------------------------------|------------------------|-------------------------|-------------------------|-------------------------|-----------------------|------------------------------------|
| BE-MAX INTEGRATION <b>*NEW*</b> |                        | <b>S</b>                | <b>S</b>                | <b>S</b>                | <b>S</b>              | <b>S</b>                           |
| AUDIBLE ALARM                   | •                      | •                       | •                       | •                       | •                     | •                                  |
| BE-MOUNTED WATER TANK           |                        | •                       | •                       | •                       | •                     | •                                  |
| BLUE LIGHT                      |                        | •                       | •                       | •                       | •                     | •                                  |
| CUSTOM LASERED LOGO             |                        | •                       | •                       | •                       | •                     | •                                  |
| ELECTRIC DRIVE                  |                        | •                       | •                       | •                       | •                     | •                                  |
| EXTENDED REACH                  |                        | •                       | •                       | •                       | •                     | <b>S</b>                           |
| FAN                             |                        | •                       | •                       | •                       | •                     | •                                  |
| HORN                            |                        | •                       | •                       | •                       | •                     | •                                  |
| LEVEL ASSIST INDICATOR          |                        | •                       | •                       | •                       | •                     | •                                  |
| MAGNET EXTRACTION               | •                      | •                       | •                       | •                       | •                     | •                                  |
| OPERATOR SHIELD                 |                        | •                       | •                       | •                       | •                     | •                                  |
| OVERHEAD GUARD                  |                        | •                       | •                       | •                       | <b>S</b>              | •                                  |
| POWERED BATTERY STOP            |                        | • †                     | • †                     | •                       | • †                   | •                                  |
| POWER ROLLER CUT-OUT            |                        | •                       | •                       | •                       | <b>S</b>              | •                                  |
| SAFETY SCANNER                  | •                      | •                       | •                       | •                       | •                     | •                                  |
| STROBE LIGHT                    | •                      | •                       | •                       | •                       | •                     | •                                  |

\*Disclaimer: BHS is not affiliated with Materials Transportation Company (MTC), and MTC does not endorse or sponsor BHS or BHS products.  
† BE-PBS is not available for the following models: BE-42-2-SL, BE-42-2-DS and BE-42-2-QS.



### Audible Alarm (BE-AUDALM)

Alarm is activated while machine is in operation to notify pedestrians that the Battery Extractor is in use



### BE-Mounted Water Tank (BE-WC-SS)

Stainless steel water tank allows quick, easy battery maintenance from the Battery Extractor during battery change-out



### Blue Light (BE-BLU-LT)

Projects a bright, highly concentrated blue beam pattern on the ground in the direction that the extractor is moving



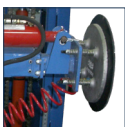
### Custom Lasered Logo (BE-LOGO)

Custom logo can be added to the front panel of the Battery Extractor



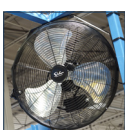
### Electric Drive (BE-EDRIVE)

Replaces hydraulic floor drive system with variable frequency drive (VFD) controlled system



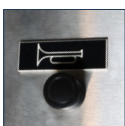
### Extended Reach (BE-EXTRCH)

Increases the reach of the extractor arm and is ideal for use with forklifts with outriggers



### Fan (BE-FAN)

Aids in operator comfort in warm environments



### Horn (BE-HORN)

Horn is utilized by the operator to alert pedestrians



### Level Assist Indicator (BE-LAI)

An LED on the dash of the BE alerts operator when proper vertical alignment with stands is achieved



### Magnet Extraction (BE-MAG)

Ideal when batteries are too narrow for vacuum extraction



### Operator Shield (BE-OS)

Isolates operator console from BE roller deck



### Overhead Guard (BE-OHG)

Protects the operator from falling objects



### Powered Battery Stop (BE-PBS) †

Automatic, mechanical stops on the forklift change-out side of the BE roller compartments prevent battery discharge while the unit is more than 20" off the floor



### Power Roller Cut-Out (BE-PRC-1/2)

Disengages powered rollers requiring additional input from operator to discharge battery from extractor



### Safety Scanner (BE-SICK)

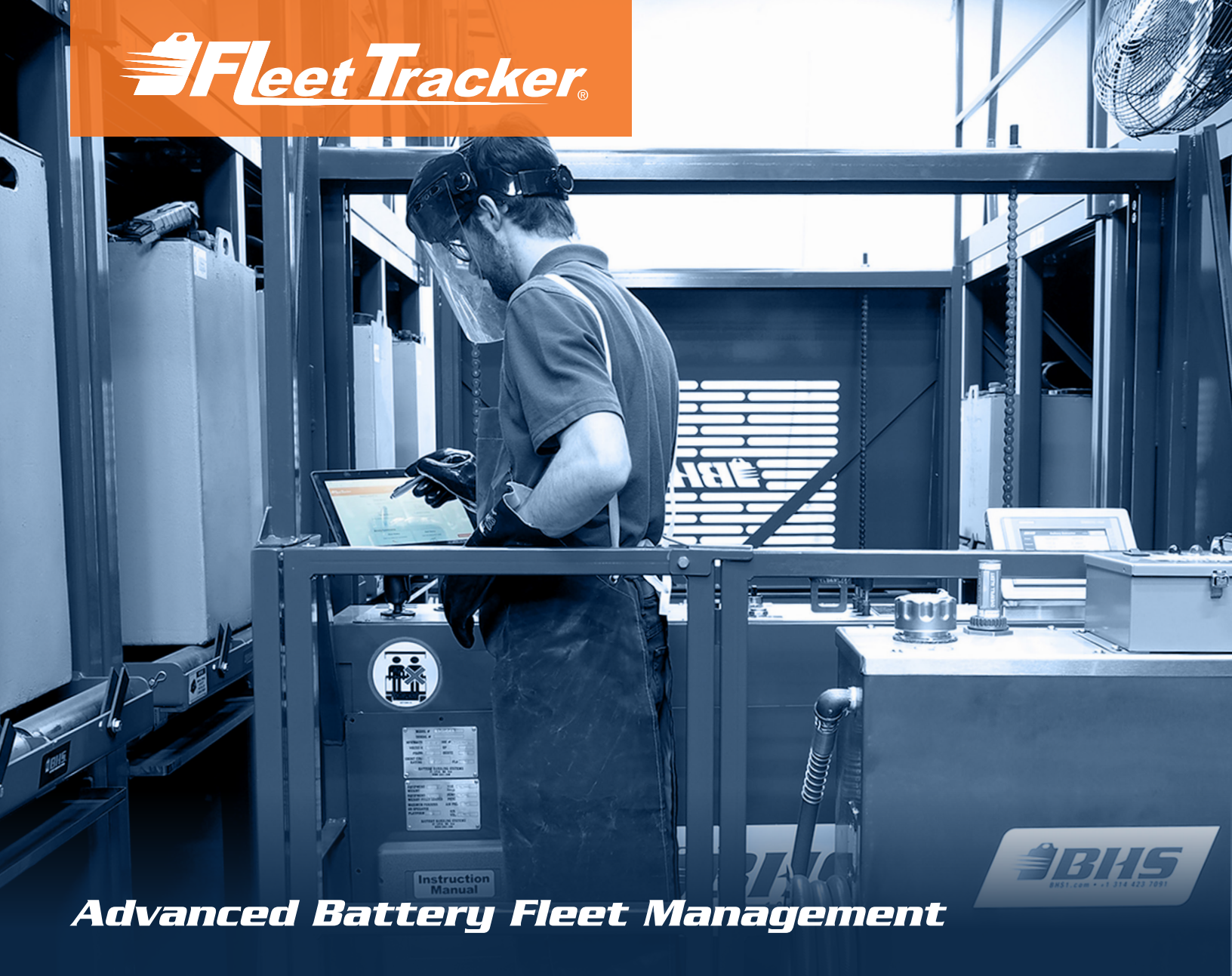
A compact system which scans the area in front and behind the BE to identify objects or pedestrians in its detection zone, stopping movement of the BE upon detection



### Strobe Light (BE-STBLT)

Visually notifies bystanders when machine is in operation



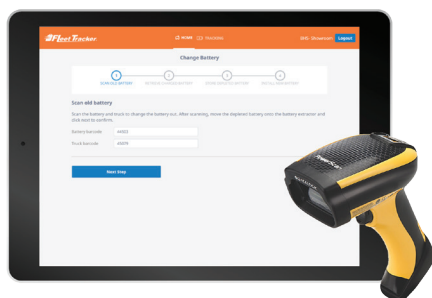


## Advanced Battery Fleet Management

### STREAMLINE & MONITOR BATTERY ROOM OPERATIONS

BHS Fleet Tracker® is a cloud-based fleet-management system, with detailed reporting that allows users to right-size their fleets for optimal efficiency. Connection to the IIoT allows managers to measure the health of batteries, stands, and trucks by logging into a secured Web Portal.

Fleet Tracker's touchscreen HMI mounted to the Operator Aboard Battery Extractor guides users to charged batteries, posts maintenance reminders, and updates the status of battery assets to the cloud. The Fleet Tracker system improves battery health, improves change-out efficiency, and gives managers the real-time data they need to eliminate waste by matching assets to needs exactly.



- ✓ Reduce Maintenance Costs
- ✓ Increase Productivity
- ✓ Improve Profitability

**Ask a BHS Representative for more information on Fleet Tracker.**

## SINGLE SIDE

The BHS Single Side Battery Extractor (BE-SS) features a heavy-duty structure with various available options to meet specific needs. The BE-SS is fully hydraulic, track-mounted, and floor-driven for added convenience. The vehicle's control console is located on the rear of the machine for unobstructed operation. The BE-SS also features eight load rollers and an 8" (203 mm) urethane drive wheel.



BE-SS

## SPECIFICATIONS (IMPERIAL / METRIC)

| BE-36-1-SS                                      |  |
|---|--|
| TRAVEL SPEED                                    | 60 ft/min / 0.30 m/s                                   |
| RAISE - LOWER SPEED                             | 8 ft/min / 0.04 m/s                                    |
| DRAW BAR PULL / VACUUM (12" / 305 MM ROUND CUP) | 1,000 lb / 450 kg                                      |
| DRAW BAR PULL / MAGNET                          | 800 to 1,200 lb / 363 to 540 kg                        |
| VACUUM ATTACH TIME                              | < 1 s  |
| VACUUM RELEASE TIME                             | < 1 s  |
| INPUT VOLTAGE                                   | 240/480 V / 3 ph / 60Hz                                |
| AC CURRENT DRAW                                 | 5.8 / 2.9 A  |
| CONTROL CIRCUIT VOLTAGE                         | 120 V ac   |
| HYDRAULIC POWER UNIT                            | 2 hp / 1.49 kW   |
| HYDRAULIC PUMP                                  | 2 gal/min / 7.57 L/min                                 |
| VACUUM PUMP                                     | 1/3 hp / 0.25 kW                                       |
| VACUUM  | 21" HG / 711 mbar                                      |
| FULL LOAD CAPACITY                              | 4,500 lb / 2041 kg                                     |
| WEIGHT (EMPTY)                                  | 2,560 lb / 1161 kg                                     |
| TOTAL COMPARTMENT ROLLERS                       | 6  |
| GUIDE TRACK                                     | 2" x 2.5" Angle / 51 mm x 64 mm                        |
| OVERALL DIMENSIONS (L X W X H)                  | 120" x 68.5" x 67.75" /<br>3048 mm x 1740 mm x 1721 mm |
| EXTRACTOR ARM REACH (BEYOND ROLLER BED)         | 9" / 228 mm  |
| EXTRACTOR ARM TRAVEL SPEED                      | 0 to 20 ft/min / 0 to 0.10 m/s                         |
| WHEEL BASE (FRONT TO BACK)                      | 75.75" / 1924 mm                                       |
| WHEEL BASE (SIDE TO SIDE)                       | 56.13" / 1426 mm                                       |
| BATTERY COMPARTMENT WIDTH                       | 36.38" / 924 mm  |
| MAXIMUM BATTERY DIMENSIONS (L X W X H)          | 45" x 35" x 36" /<br>1140 mm x 890 mm x 910 mm         |
| MINIMUM BATTERY WIDTH (W/ MAGNET)               | 6" / 155 mm  |
| MINIMUM BATTERY LENGTH                          | 24" / 610 mm   |
| MINIMUM BATTERY HEIGHT                          | 19" / 483 mm   |
| ROLLER HEIGHT                                   | 5.5" Min / 25.5" Max<br>140 mm Min / 647 mm Max        |

Note: Specifications may vary  $\pm$  5% because of temperature, floor considerations, and operator efficiency. Values represented under normal operating conditions.

## SINGLE LEVEL

The BHS Single Level Battery Extractor (BE-SL) is the perfect solution for lower capacity applications with a battery fleet containing up to 99 batteries. The BE-SL makes removing and replacing discharged batteries faster and easier than ever.



### SPECIFICATIONS (IMPERIAL / METRIC)

|  | BE-24-2-SL  | BE-36-2-SL  | BE-42-2-SL  |
|--|---|---|---|
| TRAVEL SPEED   | 0 to 190 ft/min / 0 to 0.97 m/s                   | 0 to 190 ft/min / 0 to 0.97 m/s                   | 0 to 190 ft/min / 0 to 0.97 m/s                   |
| RAISE - LOWER SPEED                                  | 0 to 10 ft/min / 0 to 0.05 m/s                    | 0 to 10 ft/min / 0 to 0.05 m/s                    | 0 to 10 ft/min / 0 to 0.05 m/s                    |
| POWERED ROLLER SPEED                                 | 0 to 37 ft/min / 0 to 0.19 m/s                    | 0 to 37 ft/min / 0 to 0.19 m/s                    | 0 to 37 ft/min / 0 to 0.19 m/s                    |
| ARM TRAVERSE SPEED                                   | 0 to 20 ft/min / 0 to 0.10 m/s                    | 0 to 20 ft/min / 0 to 0.10 m/s                    | 0 to 20 ft/min / 0 to 0.10 m/s                    |
| ARM ROTATION TIME                                    | 6 s to 8 s  | 6 s to 8 s  | 6 s to 8 s  |
| DRAW BAR PULL / VACUUM<br>(12" / 305 MM ROUND CUP)   | 1,000 lb / 454 kg                                 | 1,000 lb / 454 kg                                 | 1,000 lb / 454 kg                                 |
| DRAW BAR PULL MAGNET*                                | 800 lb to 1,200 lb / 363 kg to 544 kg             | 800 lb to 1,200 lb / 363 kg to 544 kg             | 800 lb to 1,200 lb / 363 kg to 544 kg             |
| VACUUM ATTACH TIME                                   | < 1 s   | < 1 s   | < 1 s   |
| VACUUM RELEASE TIME                                  | < 1 s   | < 1 s   | < 1 s   |
| INPUT VOLTAGE  | 240/480 V / 3 ph / 60Hz                           | 240/480 V / 3 ph / 60Hz                           | 240/480 V / 3 ph / 60Hz                           |
| AC CURRENT DRAW                                      | 20.2 / 10.1 A                                     | 20.2 / 10.1 A                                     | 20.2 / 10.1 A                                     |
| AC CURRENT DRAW W/ ELECTRIC<br>DRIVE OPTION          | 31.8 / 15.9 A                                     | 31.8 / 15.9 A                                     | 31.8 / 15.9 A                                     |
| CONTROL CIRCUIT VOLTAGE                              | 120 V ac  | 120 V ac  | 120 V ac  |
| HYDRAULIC POWER UNIT                                 | 5 hp / 3.73 kW                                    | 5 hp / 3.73 kW                                    | 5 hp / 3.73 kW                                    |
| HYDRAULIC POWER UNIT W/ ELECTRIC<br>DRIVE OPTION     | 8 hp / 5.97 kW                                    | 8 hp / 5.97 kW                                    | 8 hp / 5.97 kW                                    |
| HYDRAULIC PUMP                                       | 8 gal/min / 30 L/min                              | 8 gal/min / 30 L/min                              | 8 gal/min / 30 L/min                              |
| POWER UNIT   | Hydraulic, Variable Displacement                  | Hydraulic, Variable Displacement                  | Hydraulic, Variable Displacement                  |
| OPERATING PRESSURE                                   | 1,500 psi / 103 bar                               | 1,500 psi / 103 bar                               | 1,500 psi / 103 bar                               |
| VACUUM PUMP  | 1/3 hp / 0.25 kW                                  | 1/3 hp / 0.25 kW                                  | 1/3 hp / 0.25 kW                                  |
| VACUUM   | 21" Hg / 711 mbar                                 | 21" Hg / 711 mbar                                 | 21" Hg / 711 mbar                                 |
| FULL LOAD CAPACITY                                   | 10,000 lb / 4535 kg                               | 10,000 lb / 4535 kg                               | 10,000 lb / 4535 kg                               |
| WEIGHT (EMPTY)                                       | 5,800 lb / 2631 kg                                | 6,200 lb / 2812 kg                                | 7500 lb / 3402 kg                                 |
| TOTAL COMPARTMENT<br>ROLLERS / POWERED               | 11/5  | 11/5  | 11/5  |
| GUIDE TRACK  | 2" x 2.5" Angle / 51 mm x 64 mm                   | 2" x 2.5" Angle / 51 mm x 64 mm                   | 2" x 2.5" Angle / 51 mm x 64 mm                   |
| OVERALL DIMENSIONS (L X W X H)                       | 130" x 72" x 70" /<br>3302 mm x 1829 mm x 1778 mm | 154" x 72" x 70" /<br>3912 mm x 1829 mm x 1778 mm | 171" x 74" x 70" /<br>4343 mm x 1880 mm x 1778 mm |
| VACUUM ARM REACH                                     | 4.5" to 14" / 114 mm to 356 mm                    | 4.5" to 14" / 114 mm to 356 mm                    | 4.5" to 14" / 114 mm to 356 mm                    |
| VACUUM ARM REACH (HYDRAULIC<br>EXTENSION) TRUCK SIDE | 9" to 23" / 229 mm to 584 mm                      | 9" to 23" / 229 mm to 584 mm                      | 9" to 23" / 229 mm to 584 mm                      |
| MAGNET ARM REACH (HYDRAULIC<br>EXTENSION) TRUCK SIDE | 14" to 22" / 355 mm to 559 mm                     | 14" to 22" / 355 mm to 559 mm                     | 14" to 22" / 355 mm to 559 mm                     |
| WHEEL BASE   | 95.75" / 2432 mm                                  | 119.75" / 3042 mm                                 | 134.5" / 3416 mm                                  |
| DRIVE WHEEL CENTERLINE                               | 53" / 1346 mm                                     | 53" / 1346 mm                                     | 53" / 1346 mm                                     |
| BATTERY COMPARTMENT WIDTH                            | 24" / 610 mm                                      | 36" / 914 mm                                      | 42" / 1067 mm                                     |
| MAXIMUM BATTERY DIMENSIONS<br>(L X W X H)            | 48" x 23" x 36" /<br>1219 mm x 584 mm x 914 mm    | 48" x 35" x 36" /<br>1219 mm x 889 mm x 914 mm    | 48" x 41" x 36" /<br>1219 mm x 1041 mm x 914 mm   |
| MINIMUM BATTERY WIDTH<br>(WITH VACUUM / MAGNET)      | 12" / 305 mm<br>6" / 152 mm                       | 12" / 305 mm<br>6" / 155 mm                       | 12" / 305 mm<br>6" / 155 mm                       |
| MINIMUM BATTERY LENGTH                               | 16.5" / 419 mm                                    | 16.5" / 419 mm                                    | 16.5" / 419 mm                                    |
| MINIMUM BATTERY HEIGHT                               | 17.75" / 451 mm                                   | 17.75" / 451 mm                                   | 17.75" / 451 mm                                   |
| GROUND CLEARANCE                                     | 0.63" / 16 mm                                     | 0.63" / 16 mm                                     | 0.63" / 16 mm                                     |
| ROLLER HEIGHT  | 6.5" Min / 26.5" Max<br>165 mm Min / 673 mm Max   | 6.5" Min / 26.5" Max<br>165 mm Min / 673 mm Max   | 6.5" Min / 26.5" Max<br>165 mm Min / 673 mm Max   |

Note: Specifications may vary  $\pm$  5% because of temperature, floor considerations, and operator efficiency. Values represented under normal operating conditions.

\* Varies with battery case thickness and condition.

## DOUBLE STACK

The BHS Double Stack Battery Extractor (BE-DS) is designed for applications with a battery fleet containing up to 149 batteries. As with all BHS Operator Aboard Battery Extractors, the BE-DS is a safe, cost-effective solution to battery handling requirements and saves vital floor space, increasing the capacity of a battery room.



BE-DS

### SPECIFICATIONS (IMPERIAL / METRIC)

|  | BE-24-2-DS                                      | BE-36-2-DS                                      | BE-42-2-DS                                      |
|--|---|---|---|
| TRAVEL SPEED   | 0 to 190 ft/min / 0.97 m/s                      | 0 to 190 ft/min / 0.97 m/s                      | 0 to 190 ft/min / 0.97 m/s                      |
| RAISE - LOWER SPEED                                  | 0 to 16 ft/min / 0 to 0.08 m/s                  | 0 to 16 ft/min / 0 to 0.08 m/s                  | 0 to 16 ft/min / 0 to 0.08 m/s                  |
| POWERED ROLLER SPEED                                 | 0 to 37 ft/min / 0 to 0.19 m/s                  | 0 to 37 ft/min / 0 to 0.19 m/s                  | 0 to 37 ft/min / 0 to 0.19 m/s                  |
| ARM TRAVERSE SPEED                                   | 0 to 20 ft/min / 0 to 0.10 m/s                  | 0 to 20 ft/min / 0 to 0.10 m/s                  | 0 to 20 ft/min / 0 to 0.10 m/s                  |
| ARM ROTATION TIME                                    | 6 s to 8 s                                      | 6 s to 8 s                                      | 6 s to 8 s                                      |
| DRAW BAR PULL / VACUUM<br>(12" / 305 MM ROUND CUP)   | 1,000 lb / 454 kg                               | 1,000 lb / 454 kg                               | 1,000 lb / 454 kg                               |
| DRAW BAR PULL MAGNET*                                | 800 lb to 1,200 lb / 363 kg to 544 kg           | 800 lb to 1,200 lb / 363 kg to 544 kg           | 800 lb to 1,200 lb / 363 kg to 544 kg           |
| VACUUM ATTACH TIME                                   | < 1 s   | < 1 s   | < 1 s   |
| VACUUM RELEASE TIME                                  | < 1 s   | < 1 s   | < 1 s   |
| INPUT VOLTAGE  | 240/480 V / 3 ph / 60Hz                         | 240/480 V / 3 ph / 60Hz                         | 240/480 V / 3 ph / 60Hz                         |
| AC CURRENT DRAW                                      | 20.2 / 10.1 A                                   | 20.2 / 10.1 A                                   | 20.2 / 10.1 A                                   |
| AC CURRENT DRAW W/ ELECTRIC<br>DRIVE OPTION          | 31.8 / 15.9 A                                   | 31.8 / 15.9 A                                   | 31.8 / 15.9 A                                   |
| CONTROL CIRCUIT VOLTAGE                              | 120 V ac  | 120 V ac  | 120 V ac  |
| HYDRAULIC POWER UNIT                                 | 5 hp / 3.73 kW                                  | 5 hp / 3.73 kW                                  | 5 hp / 3.73 kW                                  |
| HYDRAULIC POWER UNIT W/ ELECTRIC<br>DRIVE OPTION     | 8 hp / 5.97 kW                                  | 8 hp / 5.97 kW                                  | 8 hp / 5.97 kW                                  |
| HYDRAULIC PUMP                                       | 8 gal/min / 30 L/min                            | 8 gal/min / 30 L/min                            | 8 gal/min / 30 L/min                            |
| POWER UNIT   | Hydraulic, Variable Displacement                | Hydraulic, Variable Displacement                | Hydraulic, Variable Displacement                |
| OPERATING PRESSURE                                   | 1,500 PSI / 103 bar                             | 1,500 PSI / 103 bar                             | 1,500 PSI / 103 bar                             |
| VACUUM PUMP  | 1/3 hp / 0.25 kW                                | 1/3 hp / 0.25 kW                                | 1/3 hp / 0.25 kW                                |
| VACUUM   | 21" Hg / 711 mbar                               | 21" Hg / 711 mbar                               | 21" Hg / 711 mbar                               |
| FULL LOAD CAPACITY                                   | 10,000 lb / 4535 kg                             | 10,000 lb / 4535 kg                             | 10,000 lb / 4535 kg                             |
| WEIGHT (EMPTY)                                       | 6,000 lb / 2722 kg                              | 6,600 lb / 2994 kg                              | 7,800 lb / 3538 kg                              |
| TOTAL COMPARTMENT<br>ROLLERS / POWERED               | 11/5  | 11/5  | 11/5  |
| GUIDE TRACK  | 2" x 2.5" Angle<br>51 mm x 64 mm                | 2" x 2.5" Angle<br>51 mm x 64 mm                | 2" x 2.5" Angle<br>51 mm x 64 mm                |
| OVERALL DIMENSIONS (L X W X H)                       | 130" x 72" x 92"<br>3302 mm x 1829 mm x 2337 mm | 154" x 72" x 92"<br>3912 mm x 1829 mm x 2337 mm | 171" x 74" x 92"<br>4343 mm x 1880 mm x 2337 mm |
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| WHEEL BASE   | 95.75" / 2432 mm                                | 119.75" / 3042 mm                               | 134.5" / 3417 mm                                |
| DRIVE WHEEL CENTERLINE                               | 53" / 1346 mm                                   | 53" / 1346 mm                                   | 53" / 1346 mm                                   |
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| MINIMUM BATTERY WIDTH<br>(WITH VACUUM / MAGNET)      | 12" / 305 mm<br>6" / 152 mm                     | 12" / 305 mm<br>6" / 152 mm                     | 12" / 305 mm<br>6" / 152 mm                     |
| MINIMUM BATTERY HEIGHT                               | 17.75" / 451 mm                                 | 17.75" / 451 mm                                 | 17.75" / 451 mm                                 |
| GROUND CLEARANCE                                     | 0.63" / 16 mm                                   | 0.63" / 16 mm                                   | 0.63" / 16 mm                                   |
| ROLLER HEIGHT  | 6.5" Min / 56" Max<br>165 mm Min / 1422 mm Max  | 6.5" Min / 56" Max<br>165 mm Min / 1422 mm Max  | 6.5" Min / 56" Max<br>165 mm Min / 1422 mm Max  |

Note: Specifications may vary  $\pm$  5% because of temperature, floor considerations, and operator efficiency. Values represented under normal operating conditions.

\* Varies with battery case thickness and condition.



## TRIPLE STACK

The BHS Triple Stack Battery Extractor (BE-TS) offers a greater opportunity to optimize floor space for valuable warehousing functions. This Battery Extractor is ideal for a battery fleet containing up to 299 batteries. Like all BHS Operator Aboard Battery Extractors, the BE-TS is designed and built to expand as battery handling needs grow.



BE-TS

### SPECIFICATIONS (IMPERIAL / METRIC)

|  | BE-24-2-TS   | BE-36-2-TS   | BE-42-2-TS   |
|--|--|--|--|
| TRAVEL SPEED   | 0 to 240 ft/min / 0 to 1.22 m/s                        | 0 to 240 ft/min / 0 to 1.22 m/s                        | 0 to 240 ft/min / 0 to 1.22 m/s                        |
| RAISE - LOWER SPEED                                  | 0 to 26 ft/min / 0 to 0.13 m/s                         | 0 to 26 ft/min / 0 to 0.13 m/s                         | 0 to 26 ft/min / 0 to 0.13 m/s                         |
| POWERED ROLLER SPEED                                 | 0 to 37 ft/min / 0 to 0.19 m/s                         | 0 to 37 ft/min / 0 to 0.19 m/s                         | 0 to 37 ft/min / 0 to 0.19 m/s                         |
| ARM TRAVERSE SPEED                                   | 0 to 20 ft/min / 0 to 0.10 m/s                         | 0 to 20 ft/min / 0 to 0.10 m/s                         | 0 to 20 ft/min / 0 to 0.10 m/s                         |
| ARM ROTATION TIME                                    | 6 s to 8 s   | 6 s to 8 s   | 6 s to 8 s   |
| DRAW BAR PULL / VACUUM<br>(12" / 305 MM ROUND CUP)   | 1,000 lb / 454 kg                                      | 1,000 lb / 454 kg                                      | 1,000 lb / 454 kg                                      |
| DRAW BAR PULL MAGNET*                                | 800 lb to 1,200 lb / 363 to 544 kg                     | 800 lb to 1,200 lb / 363 to 544 kg                     | 800 lb to 1,200 lb / 363 to 544 kg                     |
| VACUUM ATTACH TIME                                   | < 1 s  | < 1 s  | < 1 s  |
| VACUUM RELEASE TIME                                  | < 1 s  | < 1 s  | < 1 s  |
| INPUT VOLTAGE  | 480 V / 3 ph / 60Hz                                    | 480 V / 3 ph / 60Hz                                    | 480 V / 3 ph / 60Hz                                    |
| AC CURRENT DRAW                                      | 35 A   | 35 A   | 35 A   |
| AC CURRENT DRAW W/ ELECTRIC<br>DRIVE OPTION          | 42 A   | 42 A   | 42 A   |
| CONTROL CIRCUIT VOLTAGE                              | 120 V ac   | 120 V ac   | 120 V ac   |
| HYDRAULIC POWER UNIT                                 | 20 hp / 14.9 kW  | 20 hp / 14.9 kW  | 20 hp / 14.9 kW  |
| HYDRAULIC POWER UNIT W/ ELECTRIC<br>DRIVE OPTION     | 25 hp / 18.7 kW  | 25 hp / 18.7 kW  | 25 hp / 18.7 kW  |
| HYDRAULIC PUMP                                       | 22 gal/min / 83 L/min                                  | 22 gal/min / 83 L/min                                  | 22 gal/min / 83 L/min                                  |
| POWER UNIT   | Hydraulic, Variable Displacement                       | Hydraulic, Variable Displacement                       | Hydraulic, Variable Displacement                       |
| OPERATING PRESSURE                                   | 1,500 psi / 103 bar                                    | 1,500 psi / 103 bar                                    | 1,500 psi / 103 bar                                    |
| VACUUM PUMP  | 1/3 hp / 0.25 kW                                       | 1/3 hp / 0.25 kW                                       | 1/3 hp / 0.25 kW                                       |
| VACUUM   | 21" Hg / 711 mbar                                      | 21" Hg / 711 mbar                                      | 21" Hg / 711 mbar                                      |
| FULL LOAD CAPACITY                                   | 10,000 lb / 4535 kg                                    | 10,000 lb / 4535 kg                                    | 10,000 lb / 4535 kg                                    |
| WEIGHT (EMPTY)                                       | 8,000 lb / 3629 kg                                     | 8,300 lb / 3765 kg                                     | 8,600 lb / 3901 kg                                     |
| TOTAL COMPARTMENT ROLLERS / POWERED                  | 11/5   | 11/5   | 11/5   |
| GUIDE TRACK  | 3" x 2.5" Angle<br>76 mm x 64 mm                       | 3" x 2.5" Angle<br>76 mm x 64 mm                       | 3" x 2.5" Angle<br>76 mm x 64 mm                       |
| OVERALL DIMENSIONS (L X W X H)                       | 156.5" x 72" x 158.188"<br>3975 mm x 1829 mm x 4018 mm | 180.5" x 72" x 158.188"<br>4585 mm x 1829 mm x 4018 mm | 192.5" x 72" x 160.688"<br>4890 mm x 1829 mm x 4081 mm |
| VACUUM ARM REACH                                     | 4.5" to 14" / 114 mm to 356 mm                         | 4.5" to 14" / 114 mm to 356 mm                         | 4.5" to 14" / 114 mm to 356 mm                         |
| VACUUM ARM REACH (HYDRAULIC EXTENSION)               | 9" to 23" / 229 mm to 584 mm                           | 9" to 23" / 229 mm to 584 mm                           | 9" to 23" / 229 mm to 584 mm                           |
| MAGNET ARM REACH (HYDRAULIC EXTENSION)<br>TRUCK SIDE | 14" to 22" / 355 mm to 559 mm                          | 14" to 22" / 355 mm to 559 mm                          | 14" to 22" / 355 mm to 559 mm                          |
| WHEEL BASE   | 98" / 2489 mm  | 122" / 3099 mm   | 134" / 3416 mm   |
| DRIVE WHEEL CENTERLINE                               | 51" / 1295 mm  | 51" / 1295 mm  | 51" / 1295 mm  |
| BATTERY COMPARTMENT WIDTH                            | 24" / 610 mm   | 36" / 915 mm   | 42" / 1067 mm  |
| MAXIMUM BATTERY DIMENSIONS<br>(L X W X H)            | 48" x 23" x 34"<br>1219 mm x 584 mm x 864 mm           | 48" x 35" x 34"<br>1219 mm x 889 mm x 864 mm           | 48" x 41" x 34"<br>1219 mm x 1041 mm x 864 mm          |
| MINIMUM BATTERY WIDTH<br>(WITH VACUUM / MAGNET)      | 12" / 305 mm<br>6" / 152 mm                            | 12" / 305 mm<br>6" / 152 mm                            | 12" / 305 mm<br>6" / 152 mm                            |
| MINIMUM BATTERY HEIGHT                               | 17.75" / 451 mm  | 17.75" / 451 mm  | 17.75" / 451 mm  |
| GROUND CLEARANCE                                     | 0.63" / 16 mm  | 0.63" / 16 mm  | 0.63" / 16 mm  |
| ROLLER HEIGHT  | 6.5" Min / 96" Max<br>165 mm Min / 2438 mm Max         | 6.5" Min / 96" Max<br>165 mm Min / 2438 mm Max         | 6.5" Min / 96" Max<br>165 mm Min / 2438 mm Max         |

Note: Specifications may vary  $\pm$  5% because of temperature, floor considerations, and operator efficiency. Values represented under normal operating conditions.

\* Varies with battery case thickness and condition.

## QUAD STACK

The BHS Quad Stack Battery Extractor (BE-QS) offers the best solution for large battery changing operations. The BE-QS provides optimum floor savings while providing the latest technological advancements in battery changing equipment. Quad Stack models are designed for fleets containing 300 or more batteries.



BE-QS

### SPECIFICATIONS (IMPERIAL / METRIC)

|  | BE-24-2-QS   | BE-36-2-QS   | BE-42-2-QS   |
|--|--|--|--|
| TRAVEL SPEED   | 0 to 240 ft/min / 0 to 1.22 m/s                    | 0 to 240 ft/min / 0 to 1.22 m/s                    | 0 to 240 ft/min / 0 to 1.22 m/s                    |
| RAISE - LOWER SPEED                                  | 0 to 26 ft/min / 0 to 0.13 m/s                     | 0 to 26 ft/min / 0 to 0.13 m/s                     | 0 to 26 ft/min / 0 to 0.13 m/s                     |
| POWERED ROLLER SPEED                                 | 0 to 37 ft/min / 0 to 0.19 m/s                     | 0 to 37 ft/min / 0 to 0.19 m/s                     | 0 to 37 ft/min / 0 to 0.19 m/s                     |
| ARM TRAVERSE SPEED                                   | 0 to 24 ft/min / 0 to 0.12 m/s                     | 0 to 24 ft/min / 0 to 0.12 m/s                     | 0 to 24 ft/min / 0 to 0.12 m/s                     |
| ARM ROTATION TIME                                    | 6 s to 8 s   | 6 s to 8 s   | 6 s to 8 s   |
| DRAW BAR PULL / VACUUM<br>(12" / 305 MM ROUND CUP)   | 1,000 lb / 454 kg                                  | 1,000 lb / 454 kg                                  | 1,000 lb / 454 kg                                  |
| DRAW BAR PULL MAGNET*                                | 800 lb to 1,200 lb / 363 kg to 544 kg              | 800 lb to 1,200 lb / 363 kg to 544 kg              | 800 lb to 1,200 lb / 363 kg to 544 kg              |
| VACUUM ATTACH TIME                                   | < 1 s  | < 1 s  | < 1 s  |
| VACUUM RELEASE TIME                                  | < 1 s  | < 1 s  | < 1 s  |
| INPUT VOLTAGE  | 480 V / 3 ph / 60Hz                                | 480 V / 3 ph / 60Hz                                | 480 V / 3 ph / 60Hz                                |
| AC CURRENT DRAW                                      | 45 A   | 45 A   | 45 A   |
| AC CURRENT DRAW W/ ELECTRIC<br>DRIVE OPTION          | 52 A   | 52 A   | 52 A   |
| CONTROL CIRCUIT VOLTAGE                              | 120 V ac   | 120 V ac   | 120 V ac   |
| HYDRAULIC POWER UNIT                                 | 25 hp / 18.7 kW                                    | 25 hp / 18.7 kW                                    | 25 hp / 18.7 kW                                    |
| HYDRAULIC POWER UNIT W/ ELECTRIC<br>DRIVE OPTION     | 30 hp / 22.4 kW                                    | 30 hp / 22.4 kW                                    | 30 hp / 22.4 kW                                    |
| HYDRAULIC PUMP                                       | 36 gal/min / 136 L/min                             | 36 gal/min / 136 L/min                             | 36 gal/min / 136 L/min                             |
| POWER UNIT   | Hydraulic, Variable Displacement                   | Hydraulic, Variable Displacement                   | Hydraulic, Variable Displacement                   |
| OPERATING PRESSURE                                   | 1,200 psi / 76 bar                                 | 1,200 psi / 76 bar                                 | 1,200 psi / 76 bar                                 |
| VACUUM PUMP  | 1/3 hp / 0.25 kW                                   | 1/3 hp / 0.25 kW                                   | 1/3 hp / 0.25 kW                                   |
| VACUUM   | 21" Hg / 711 mbar                                  | 21" Hg / 711 mbar                                  | 21" Hg / 711 mbar                                  |
| FULL LOAD CAPACITY                                   | 10,000 lb / 4535 kg                                | 10,000 lb / 4535 kg                                | 10,000 lb / 4535 kg                                |
| WEIGHT (EMPTY)                                       | 9,660 lb / 4382 kg                                 | 9,960 lb / 4518 kg                                 | 10,940 lb / 4962 kg                                |
| TOTAL COMPARTMENT<br>ROLLERS / POWERED               | 11/5   | 11/5   | 11/5   |
| GUIDE TRACK  | 3" x 2.5" Angle<br>76 mm x 64 mm                   | 3" x 2.5" Angle<br>76 mm x 64 mm                   | 3" x 2.5" Angle<br>76 mm x 64 mm                   |
| OVERALL DIMENSIONS (L X W X H)                       | 168" x 74" x 223"<br>4267 mm x 1880 mm x 5665 mm   | 192" x 74" x 223"<br>4877 mm x 1880 mm x 5665 mm   | 204" x 74" x 223"<br>5182 mm x 1880 mm x 5665 mm   |
| VACUUM ARM REACH                                     | 3.5" to 13" / 89 mm to 330 mm                      | 3.5" to 13" / 89 mm to 330 mm                      | 3.5" to 13" / 89 mm to 330 mm                      |
| VACUUM ARM REACH (HYDRAULIC<br>EXTENSION)            | 9" to 23" / 229 mm to 584 mm                       | 9" to 23" / 229 mm to 584 mm                       | 9" to 23" / 229 mm to 584 mm                       |
| MAGNET ARM REACH (HYDRAULIC<br>EXTENSION) TRUCK SIDE | 14" to 22" / 355 mm to 559 mm                      | 14" to 22" / 355 mm to 559 mm                      | 14" to 22" / 355 mm to 559 mm                      |
| WHEEL BASE   | 109" / 2769 mm                                     | 133" / 3378 mm                                     | 145" / 3683 mm                                     |
| DRIVE WHEEL CENTERLINE                               | 51" / 1295 mm                                      | 51" / 1295 mm                                      | 51" / 1295 mm                                      |
| BATTERY COMPARTMENT WIDTH                            | 24" / 610 mm                                       | 36" / 915 mm                                       | 42" / 1067 mm                                      |
| MAXIMUM BATTERY DIMENSIONS<br>(L X W X H)            | 48" x 23" x 34"<br>1219 mm x 584 mm x 864 mm       | 48" x 35" x 34"<br>1219 mm x 889 mm x 864 mm       | 48" x 41" x 34"<br>1219 mm x 1041 mm x 864 mm      |
| Minimum Battery Width<br>(with vacuum / magnet)      | 12" / 305 mm<br>6" / 152 mm                        | 12" / 305 mm<br>6" / 152 mm                        | 12" / 305 mm<br>6" / 152 mm                        |
| MINIMUM BATTERY HEIGHT                               | 17.75" / 451 mm                                    | 17.75" / 451 mm                                    | 17.75" / 451 mm                                    |
| GROUND CLEARANCE                                     | 0.63" / 16 mm                                      | 0.63" / 16 mm                                      | 0.63" / 16 mm                                      |
| ROLLER HEIGHT  | 6.5" Min / 136.75" Max<br>165 mm Min / 3473 mm Max | 6.5" Min / 136.75" Max<br>165 mm Min / 3473 mm Max | 6.5" Min / 136.75" Max<br>165 mm Min / 3473 mm Max |

Note: Specifications may vary  $\pm$  5% because of temperature, floor considerations, and operator efficiency. Values represented under normal operating conditions.

\* Varies with battery case thickness and condition.

## MTC DIRECT REPLACEMENT

BHS also offers the MTC Direct Replacement Battery Extractor (BE-MT) models: Single Level (BE-SLN), Double Stack (BE-DSN), and Triple Stack (BE-TSN). Each machine is designed and built for applications utilizing a 72" (1828 mm) aisle width.



BE-TSN

### SPECIFICATIONS (IMPERIAL / METRIC)

|  | BE-24-2-SLN  | BE-36-2-SLN  | BE-24-2-DSN  | BE-36-2-DSN  | BE-24-2-TSN  | BE-36-2-TSN  |
|--|--|--|--|--|--|--|
| TRAVEL SPEED   | 0 to 190 ft/min / 0 to 0.97 m/s                      |  | 0 to 190 ft/min / 0 to 0.97 m/s                      |  | 0 to 190 ft/min / 0 to 0.97 m/s                            |  |
| RAISE - LOWER SPEED                                  | 0 to 10 ft/min / 0 to 0.05 m/s                       |  | 0 to 16 ft/min / 0 to 0.08 m/s                       |  | 0 to 26 ft/min / 0 to 0.13 m/s                             |  |
| POWERED ROLLER SPEED                                 | 0 to 37 ft/min / 0 to 0.19 m/s                       |  | 0 to 37 ft/min / 0 to 0.19 m/s                       |  | 0 to 37 ft/min / 0 to 0.19 m/s                             |  |
| ARM TRAVERSE SPEED                                   | 0 to 20 ft/min / 0 to 0.10 m/s                       |  | 0 to 20 ft/min / 0 to 0.10 m/s                       |  | 0 to 20 ft/min / 0 to 0.10 m/s                             |  |
| ARM ROTATION TIME                                    | 6 s to 8 s   |  | 6 s to 8 s   |  | 6 s to 8 s   |  |
| DRAW BAR PULL VACUUM<br>(12" ROUND CUP)              | 1,000 lb / 454 kg                                    |  | 1,000 lb / 454 kg                                    |  | 1,000 lb / 454 kg  |  |
| VACUUM ATTACH TIME /<br>RELEASE TIME                 | < 1 s / < 1 s  |  | < 1 s / < 1 s  |  | < 1 s / < 1 s  |  |
| INPUT VOLTAGE  | 240/480 V / 3 ph / 60Hz                              |  | 240/480 V / 3 ph / 60Hz                              |  | 240/480 V / 3 ph / 60Hz                                    |  |
| AC CURRENT DRAW                                      | 20.2 / 10.1 A  |  | 20.2 / 10.1 A  |  | 35 A   |  |
| AC CURRENT DRAW W/ ELECTRIC DRIVE<br>OPTION          | 31.8 / 15.9 A  |  | 31.8 / 15.9 A  |  | 42 A   |  |
| CONTROL CIRCUIT VOLTAGE                              | 120 V ac   |  | 120 V ac   |  | 120 V ac   |  |
| HYDRAULIC POWER UNIT                                 | 5 hp / 3.73 kW                                       |  | 5 hp / 3.73 kW                                       |  | 20 hp / 14.9 kW  |  |
| HYDRAULIC POWER UNIT W/ ELECTRIC DRIVE<br>OPTION     | 8 hp / 5.97 kW                                       |  | 8 hp / 5.97 kW                                       |  | 25 hp / 18.7 kW  |  |
| HYDRAULIC PUMP                                       | 8 gal/min / 30 L/min                                 |  | 8 gal/min / 30 L/min                                 |  | 22 gal/min / 83 L/min                                      |  |
| POWER UNIT   | Hydraulic, Variable Displacement                     |  | Hydraulic, Variable Displacement                     |  | Hydraulic, Variable Displacement                           |  |
| OPERATING PRESSURE                                   | 1,500 psi / 103 bar                                  |  | 1,500 psi / 103 bar                                  |  | 1,500 psi / 103 bar  |  |
| VACUUM PUMP  | 1/3 hp / 0.25 kW                                     |  | 1/3 hp / 0.25 kW                                     |  | 1/3 hp / 0.25 kW   |  |
| VACUUM   | 21" Hg / 711 mbar                                    |  | 21" Hg / 711 mbar                                    |  | 21" Hg / 711 mbar  |  |
| FULL LOAD CAPACITY                                   | 10,000 lb / 4535 kg                                  |  | 10,000 lb / 4535 kg                                  |  | 10,000 lb / 4535 kg  |  |
| WEIGHT (EMPTY)                                       | 5,300 lb / 2404 kg                                   | 5,700 lb / 2585 kg                                   | 5,500 lb / 2495 kg                                   | 6,100 lb / 2767 kg                                   | 7,500 lb / 3402 kg   | 7,800 lb / 3538 kg   |
| TOTAL COMPARTMENT ROLLERS / POWERED                  | 11/5   |  | 11/5   |  | 11/5   |  |
| GUIDE TRACK  | 2" x 2.5" Angle / 51 mm x 64 mm                      |  | 2" x 2.5" Angle / 51 mm x 64 mm                      |  | 3" x 2.5" Angle / 76 mm x 64 mm                            |  |
| OVERALL DIMENSIONS (L X W X H)                       | 130" x 67" x 70" /<br>3302 mm x 1702 mm<br>x 1778 mm | 154" x 67" x 70" /<br>3912 mm x 1702 mm<br>x 1778 mm | 130" x 67" x 92" /<br>3252 mm x 1829 mm<br>x 2237 mm | 154" x 67" x 92" /<br>3861 mm x 1702 mm<br>x 2237 mm | 156.5" x 67" x 158.19" /<br>3975 mm x 1702 mm x<br>4018 mm | 180.5" x 67" x 158.19" /<br>4585 mm x 1702 mm x<br>4018 mm |
| VACUUM ARM REACH (STAND SIDE)                        | 8" / 203 mm  |  | 8" / 203 mm  |  | 8" / 203 mm  |  |
| MAGNET ARM REACH (STAND SIDE)                        | 8" / 203 mm  |  | 8" / 203 mm  |  | 8" / 203 mm  |  |
| VACUUM ARM REACH (HYDRAULIC EXTENSION)<br>TRUCK SIDE | 5" to 17" / 127 mm to 432 mm                         |  | 5" to 17" / 127 mm to 432 mm                         |  | 5" to 17" / 127 mm to 432 mm                               |  |
| MAGNET ARM REACH (HYDRAULIC EXTENSION)<br>TRUCK SIDE | 9" to 17" / 228 mm to 432 mm                         |  | 9" to 17" / 228 mm to 432 mm                         |  | 9" to 17" / 228 mm to 432 mm                               |  |
| WHEEL BASE   | 95.75" / 2432 mm                                     | 119.75" / 3042 mm                                    | 95.75" / 2432 mm                                     | 119.75" / 3042 mm                                    | 98" / 2489 mm  | 122" / 3099 mm   |
| DRIVE WHEEL CENTERLINE                               | 48" / 1219 mm  |  | 48" / 1219 mm  |  | 46" / 1168 mm  |  |
| BATTERY COMPARTMENT WIDTH                            | 24" / 610 mm   | 36" / 915 mm   | 24" / 610 mm   | 36" / 915 mm   | 24" / 610 mm   | 36" / 915 mm   |
| MAXIMUM BATTERY DIMENSIONS<br>(L X W X H)            | 44" x 23" x 34" /<br>1118 mm x 584 mm x<br>864 mm    | 44" x 35" x 34" /<br>1118 mm x 889 mm x<br>864 mm    | 44" x 23" x 34" /<br>1118 mm x 584 mm x<br>864 mm    | 44" x 35" x 34" /<br>1118 mm x 889 mm x<br>864 mm    | 44" x 23" x 34" /<br>1118 mm x 584 mm x<br>864 mm          | 44" x 35" x 34" /<br>1118 mm x 889 mm x<br>864 mm          |
| MINIMUM BATTERY WIDTH                                | 12" / 305 mm   |  | 12" / 305 mm   |  | 12" / 305 mm   |  |
| MINIMUM BATTERY HEIGHT                               | 17.75" / 451 mm                                      |  | 17.75" / 451 mm                                      |  | 17.75" / 451 mm  |  |
| GROUND CLEARANCE                                     | 0.63" / 16 mm  |  | 0.63" / 16 mm  |  | 0.63" / 16 mm  |  |
| ROLLER HEIGHT  | 6.5" Min to 26.5" Max<br>165 mm Min to 673 mm Max    |  | 6.5" Min to 56" Max<br>165 mm Min to 1422 mm Max     |  | 6.5" Min to 96" Max<br>165 mm Min to 2438 mm Max           |  |

Note: Specifications may vary  $\pm 5\%$  because of temperature, floor considerations, and operator efficiency. Values represented under normal operating conditions.

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