

# **PRO Series® THE NEXT GENERATION OF BATTERY HANDLING EQUIPMENT**

## **BATTERY BULL HYDRAULIC**

**PROSERIES®**

**BATTERY HANDLING EQUIPMENT**

# BATTERY HANDLING EQUIPMENT

## BATTERY BULL HYDRAULIC BATTERY HANDLING EQUIPMENT

The BBH battery handling equipment Series Battery Bull has long been proven in many applications around the world. Utilizing its hydraulic drive and lift system for single and double tier configurations ensures that customers enjoy day-in and day-out battery changing performance in medium to large fleets.

Hosting a logical user-friendly control panel, the BBH battery handling equipment allows the operator to deliver rapid, more consistent and accurate battery changes that will keep your truck fleet productive.

The BBH battery handling equipment utilizes a double roller bed configuration, coupled with its powerful electro magnet that has a draw bar pull of 817kg. The BBH battery handling equipment delivers the highest throughput in battery changing, while maintaining a small footprint to help save your costly warehouse space.

## FEATURES AND BENEFITS

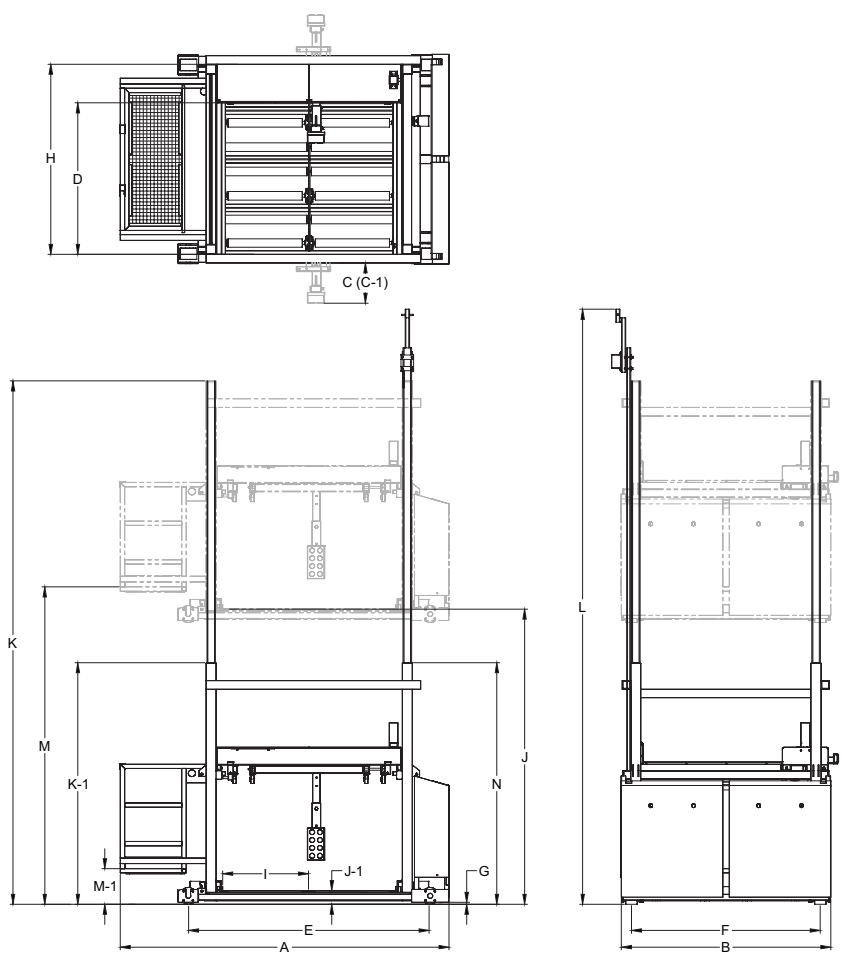
- Reliable AC power
  - AC powered hydraulic pump drives all system functions and provides maximum power and reliability to ensure continuous performance.
- Positive Traction and Control
  - Twin drive wheels ensure positive traction and reduces driveline stress in high output operations.
- Equal Hydraulic Displacement Leveling
  - Assures positive leveling in all positions and eliminates the requirement for high maintenance equalizing chains.
- Optimize your Valuable Floor-space
  - Will support single or double-sided battery changing systems with one or two high battery stands.
- Faster and Smoother Changes
  - Powerful 817kg pull, electromagnet coupled with powerful urethane covered lead rollers, will consistently deliver up to 25% faster changes.
- Integrated Safety
  - A full size hinged safety gate controlled by an interlock switch and an anti-fatigue mat keeps the operator safe and comfortable.
- Built to Last
  - Designed, engineered and built to operate day after day in a 24-hour environment with minimal maintenance.

# BATTERY HANDLING EQUIPMENT

## AVAILABLE OPTIONS

Options (at extra cost)

Hydraulic powered mechanical battery safety stops on all powered roller beds
Forward / reverse travel interlock
Motion safety sensors and light curtains
Custom sizes to replace competitors
Auto level system



# BATTERY HANDLING EQUIPMENT

## PRODUCT SPECIFICATIONS

DESCRIPTION		BBH-2-30		BBE-2-36		BBE-2-42		BBE-2-48	
1	Raise/lower speed	0-15 FPM	0-4.5 MPM	0-15 FPM	0-4.5 MPM	0-15 FPM	0-4.5 MPM	0-15 FPM	0-4.5 MPM
2	Travel speed	0-225 FPM	0-68.5 MPM	0-225 FPM	0-68.5 MPM	0-225 FPM	0-68.5 MPM	0-225 FPM	0-68.5 MPM
3	Machine duty cycle (annual)	5,500 Hrs.		5,500 Hrs.		5,500 Hrs.		5,500 Hrs.	
4-A	Input voltage/frequency	415 V / 50 Hz / 13 A		415 V / 50 Hz / 13 A		415 V / 50 Hz / 13 A		415 V / 50 Hz / 13 A	
4-B	Input voltage/frequency	460 V / 60 Hz / 11 A		460 V / 60 Hz / 11 A		460 V / 60 Hz / 11 A		460 V / 60 Hz / 11 A	
4-C	Input voltage/frequency	575 V / 60 Hz / 9 A		575 V / 60 Hz / 9 A		575 V / 60 Hz / 9 A		575 V / 60 Hz / 9 A	
5	Control voltage	110 VAC / 24 VDC		110 VAC / 24 VDC		110 VAC / 24 VDC		110 VAC / 24 VDC	
6	Draw bar pull magnet	817 kg / 1800 lbs		817 kg / 1800 lbs		817 kg / 1800 lbs		817 kg / 1800 lbs	
7	Magnet break off point on (1/4", 3/16", 1/8") thick plate	817, 544, 318 kg 1800, 1200, 700 lbs		817, 544, 318 kg 1800, 1200, 700 lbs		817, 544, 318 kg 1800, 1200, 700 lbs		817, 544, 318 kg 1800, 1200, 700 lbs	
8	Power unit type	Hydraulic		Hydraulic		Hydraulic		Hydraulic	
9	Wheel type/size (dia x width)	Urethane 6"x2-3/4" / 152 mm x 70 mm		Urethane 6"x2-3/4" / 152 mm x 70 mm		Urethane 6"x2-3/4" / 152 mm x 70 mm		Urethane 6"x2-3/4" / 152 mm x 70 mm	
10	Capacity (fully loaded)	4536 kg	10000 lbs	4536 kg	10000 lbs	4536 kg	10000 lbs	4536 kg	10000 lbs
11	Service weight (empty)	1134 kg	2500 lbs	1588 kg	3500 lbs	1724 kg	3800 lbs	2024 kg	4500 lbs

# BATTERY HANDLING EQUIPMENT

## PRODUCT DIMENSIONS

MODEL NO.		BBH-2-30		BBH-2-306		BBH-2-42		BBH-2-48	
A	Overall length	117"	2972 mm	129"	3277 mm	141"	3581 mm	153"	3886 mm
B	Overall width (standard)	78"	1981 mm	78"	1981 mm	78"	1981 mm	78"	1981 mm
C	Max. magnet arm reach (standard arm)	12.25"	311 mm	12.25"	311 mm	12.25"	311 mm	12.25"	311 mm
C-1	Max. magnet arm reach (extension arm)	Customized to suit		Customized to suit		Customized to suit		Customized to suit	
D	Bridge travel	53.5"	1359 mm	53.5"	1359 mm	53.5"	1359 mm	53.5"	1359 mm
E	Wheel base	84.5"	2146 mm	96.5"	2451 mm	108.5"	2756 mm	120.5"	3061 mm
F	Centerline of drive wheels	64.75"	1645 mm	64.75"	1645 mm	64.75"	1645 mm	64.75"	1645 mm
G	Ground clearance	0.875"	22 mm	0.875"	22 mm	0.875"	22 mm	0.875"	22 mm
	Grade percent	1%	1%	1%	1%	1%	1%	1%	1%
H	Battery compartment size length	62.5"	1588 mm	62.5"	1588 mm	62.5"	1588 mm	62.5"	1588 mm
I	Battery compartment overall width (urethane)	30"	762 mm	36"	914 mm	42"	1067 mm	48"	1219 mm
	Max. battery length	60"	1524 mm	60"	1524 mm	60"	1524 mm	60"	1524 mm
	Max. battery width	24"	610 mm	30"	762 mm	36"	914 mm	42"	1067 mm
	Max. battery height	37"	940 mm	37"	940 mm	37"	940 mm	37"	940 mm
	Min. battery length	18"	457 mm	18"	457 mm	18"	457 mm	18"	457 mm
	Min. battery width	6"	152 mm	6"	152 mm	6"	152 mm	6"	152 mm
	Min. battery height	20"	508 mm	20"	508 mm	20"	508 mm	20"	508 mm
	Min. over travel (front)	94"	2388 mm	103"	2616 mm	112"	2845 mm	121"	3073 mm
	Min. over travel (rear)	114"	2896 mm	122"	3099 mm	132"	3353 mm	140"	3556 mm

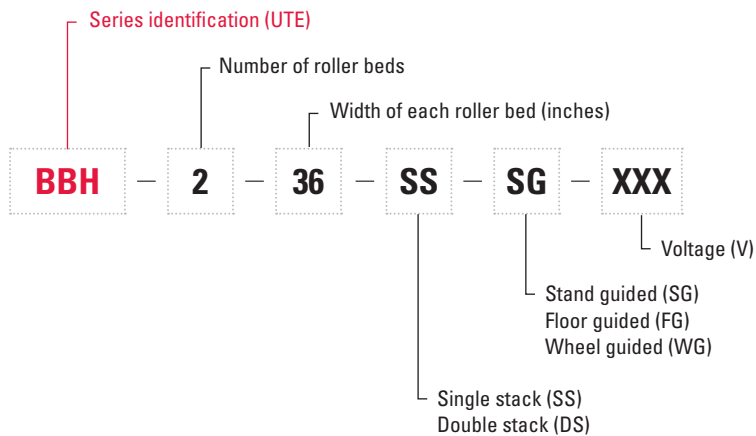
# BATTERY HANDLING EQUIPMENT

## LEVEL HEIGHT DIMENSIONS

MODEL NO.		SINGLE		DOUBLE	
J	Carriage roller bed (raised)	30"	762 mm	54"	1372 mm
J-1	Carriage roller bed (lowered)	5.5"	140 mm	5.5"	140 mm
K	Overall height (raised)	108"	2743 mm	139"	3531 mm
K-1	Overall height (lowered)	84"	2134 mm	84"	2134 mm
L	Operator height to top of tow arm	134"	3404 mm	168"	4267 mm
M	Operator platform height (raised)	36.5"	927 mm	62.5"	1588 mm
M-1	Operator platform height (lowered)	12.5"	318 mm	12.5"	318 mm
N	Shipping Height	84"	2134 mm	84"	2134 mm
Upper guide* required (yes/no)		No		No	
Floor variance (+ or - in 10ft/3m)		0.25"	6 mm	0.25"	6 mm

## MODEL/PART NUMBER BREAKDOWN

Example: BBH-2-36-SS-SG-XXX



## BATTERY HANDLING EXPERTISE

Whatever the size of your battery fleet, PRO Series® battery handling solutions can help you streamline your battery changing operation with a safe, productive and cost-efficient system. From initial design, drawings and engineering through to complete installation and project management, PRO Series® battery handling solutions can support your operation with everything you'll ever need for effective battery charging and changing. Let us plan your success.

PRO Series® battery handling solutions include a range of systems and equipment that comply with health and safety regulations. Using the latest CAD software, we will design a system that matches the needs of your business. With PROSeries® battery handling solutions, you'll enjoy the highest degree of safety and ease of operation of any equipment available today – all backed by our skilled design and installation capabilities.

### OUR EXCLUSIVE PARTNERSHIP WITH CARNEY BATTERY HANDLING LTD

Since 1984, Carney Battery Handling Ltd has globally provided EnerSys® with turn-key battery room solutions, sharing our mission to innovate, design, and create quality critical battery room solutions as dedicated partners.

Our dependable alliance allows us to provide dedicated support, delivering tailored engineering and design individualized for every customer.

With an emphasis on quality and safety, all our equipment is rigorously tested for real-world environments ensuring its readiness to meet the demands of any application.



**COMMITTED TO QUALITY  
EVERYWHERE FOR EVERYONE.**

[www.enersys.com](http://www.enersys.com)

**PROSERIES®**

# WHEREVER YOU DO BUSINESS, ENERSYS® CAN SUPPORT YOU WITH MOTIVE POWER ENERGY.

## ABOUT ENERSYS®

EnerSys, the global leader in stored energy solutions for industrial applications, manufactures and distributes energy systems solutions and motive power batteries, specialty batteries, battery chargers, power equipment, battery accessories and outdoor equipment enclosure solutions to customers worldwide.

Energy Systems, which combine enclosures, power conversion, power distribution and energy storage, are used in the telecommunication, broadband and utility industries, uninterruptible power supplies, and numerous applications.

Motive Power batteries and chargers are utilized in electric forklift trucks and other industrial electric powered vehicles requiring stored energy solutions. Specialty batteries are used in aerospace and defense applications, large over-the-road trucks, premium automotive, medical and security systems applications.

EnerSys also provides aftermarket and customer support services to its customers in over 100 countries through its sales and manufacturing locations around the world. With the recent NorthStar acquisition, EnerSys has solidified its position as the market leader for premium Thin Plate Pure Lead batteries which are sold across all three lines of business.

More information regarding EnerSys can be found at [www.enersys.com](http://www.enersys.com).



**EnerSys EMEA**  
EH Europe GmbH  
Baarerstrasse 18  
6300 Zug  
Switzerland

**EnerSys Ltd (UK)**  
Oak Court, M60 Office Park,  
Wynne Avenue,  
Swinton,  
Manchester, M27 8FF

Please refer to the website address for details of your nearest EnerSys office: [www.enersys.com](http://www.enersys.com)

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