

## BATTERY CARRIAGES

# **BATTERY TRANSFER CARRIAGE**

### **MODEL BTC**

- *BHS offers a complete family of mechanical and electric battery transfer carriages for your every need. BHS Battery Transfer Carriages are available in various models, and BHS features add durability and versatility to every carriage.*



BATTERY HANDLING SYSTEMS



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### **BTC-Winch Model**

The BHS Winch Model Battery Transfer Carriage has an adjustment height of 5.5" to 23.5" and is available in two roller widths. The Winch model features spark-proof poly rollers and large 6" phenolic casters and is recommended for maintenance tasks only.



### **BTC-MPPEE**

#### ***Mechanical Lift with Powered Extraction***

The BHS Mechanical Push/Pull Battery Transfer Carriage with electric extraction features a heavy-duty extraction drive motor for easy battery removal. BTC-MPPEE models provide a lift range from 5.5" to 23.5".



### **BTC-MPP**

#### ***Mechanical Push/Pull***

This BHS Mechanical Push/Pull Battery Transfer Carriage is available in three models, each with a 3000 lb. capacity. A hand wheel assures positive control to drive the push/pull extractor arm. Raising and lowering is accomplished with a center-mounted hydraulic hand jack. BTC-MPP models provide a lift range from 5.5" to 23.5".



### **BTC-MPPAE**

#### ***All electric with powered lift and extraction***

This all electric BHS Battery Transfer Carriage is available in three models with roller widths from 18" - 30". The MPPAE contains a 12-volt hydraulic power unit, two manual directional control valves, and overload relief valves for added safety. BTC-MPPAE models provide a lift range from 5.5" to 21.5".



### **BTC-MPPEL**

#### ***Mechanical Push/Pull with Powered Lift***

This BHS Mechanical Push/Pull Battery Transfer Carriage utilizes electric lift which offers a lift range of 5.5" to 21.5". The MPPEL includes a deep cycle 185 AH battery and BHS power enclosure feature, exclusive to BHS.

## FEATURES & BENEFITS

- ***Provides safe and easy low cost battery extraction***
- ***Power enclosure feature on all electric models allows for easy service and maintenance***
- ***Electric models offer quick and easy powered lift and extraction***
- ***Large 6" Phenolic wheels help protect floors and provide low rolling resistance***
- ***Many flexible options available to satisfy your unique battery handling requirements***

**STANDARD FEATURES**



**Hook & Chain Extraction**

Hook and chain is the standard method of extraction for easy battery removal.



**Vector Floor Lock**

Vector floor locks eliminate the need for attachment chains during battery extraction and come with easy-to-lift handles.



**Ergonomic Controls**

Each electric powered BTC model contains easy-to-use ergonomically designed controls for electric lift and extraction.



**Parking Brake**

The parking brake keeps the unit in place when not in use.



**Hydraulic Jack**

For manual elevation changes, the hydraulic jack allows the operator to raise and lower the unit to accommodate various lift truck roller heights.

**BTC OPTIONS**

**Track Mount (BTC-TM)** Provides dedicated location for battery change-out. Note: Single guide flat track (SGT-F) is used for the BTC-TM. Minimum roller height is 6" with track mount.

**Single Guidance Track Flat (SGT-F)** Single guidance flat track used in conjunction with track mount option (BTC-TM).

**Rubber Bumper (BTC-RB)** Protects lift truck during battery change outs.

**Extra Capacity (BTC-EC)** Increases capacity to 3,400 lbs. Note: Standard capacity is 3,000 lbs. Consult factory on this option.

**7" Cantilever (BTC-CAN-7)** Extends extractor arm reach an additional 7". Ideal for use with outriggers.

**Push-Arm Extension (BTC-PA)** Low cost solution for extending extractor arm an additional 4" past the standard 6" reach.

**7" Cantilever & 6" Bed Extension (BTC-CAN-7-6)** 7" additional extractor arm reach. 6" bed extension accommodates longer batteries. Note: Consult factory on this option.

**14" Cantilever & 6" Bed Extension Option (BTC-CAN-14-6)** 14" additional extractor arm reach is ideal for use with outriggers. 6" bed extension accommodates longer batteries. Note: Consult factory on this option.

**Vacuum Extraction (BTC-VAC)** Vacuum option eliminates the need for manual hook-up and reduces wear and tear on batteries. (Available on MPPAE and MPPEE models only)

**Self Contained Charger (BTC-CHGR)** Fully enclosed 110 volt charger for use with BTC.



**BTC-CAN-7**

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Product Specifications - Imperial / Metric

	MPPAE	MPPEL	MPPEE	MPP
Max. Load Capacity <sup>1</sup>	3,000 lb / 1360 kg	3,000 lb / 1360 kg	3,000 lb / 1360 kg	3,000 lb / 1360 kg
Voltage Requirement	12 VDC	12 VDC	12 VDC	N/A
Hydraulic Pump	1.3 GPM / 4.6 LPM	1.3 GPM / 4.6 LPM	1.3 GPM / 4.6 LPM	N/A
Extractor Arm Travel Speed	0 - 20 FPM / 0-.10 m/s	N/A	0 - 20 FPM / 0-.10 m/s	N/A
Battery Attachment	Hook & Chain	Hook & Chain	Hook & Chain	Hook & Chain
Optional Vacuum	Yes	N/A	Yes	N/A
Primary Drive Reduction	N/A	4.5 to 1	N/A	4.5 to 1
Primary Drive Chain Size	#50	#50	#50	# 50
Roller Diameter	2.4" / 61 mm	2.4" / 61 mm	2.4" / 61 mm	2.4" / 61 mm
Roller Shaft Size	7/16" / 11 mm Hex (Model 18) 7/16" / 11 mm Hex (Model 24) 3/4" / 19 mm Hex (Model 30)	7/16" / 11 mm Hex (Model 18) 7/16" / 11 mm Hex (Model 24) 3/4" / 19 mm Hex (Model 30)	7/16" / 11 mm Hex (Model 18) 7/16" / 11 mm Hex (Model 24) 3/4" / 19 mm Hex (Model 30)	7/16" / 11 mm Hex (Model 18) 7/16" / 11 mm Hex (Model 24) 3/4" / 19 mm Hex (Model 30)
Maximum Battery Width	17" / 430 mm 23" / 580 mm 29" / 735 mm	17" / 430 mm 23" / 580 mm 29" / 735 mm	17" / 430 mm 23" / 580 mm 29" / 735 mm	17" / 430 mm 23" / 580 mm 29" / 735 mm
Battery Length	25" to 39.75" 635 to 1010 mm	25" to 39.75" 635 to 1010 mm	25" to 39.75" 635 to 1010 mm	25" to 39.75" 635 to 1010 mm
Min. Battery Height	20" / 500 mm	20" / 500 mm	20" / 500 mm	20" / 500 mm
Overall Length <sup>2</sup>	67" / 1700 mm	67" / 1700 mm	67" / 1700 mm	67" / 1700 mm
Overall Width	46.5" / 1180 mm (Model 18) 52.5" / 1335 mm (Model 24) 58.5" / 1485 mm (Model 30)	46.5" / 1180 mm (Model 18) 52.5" / 1335 mm (Model 24) 58.5" / 1485 mm (Model 30)	46.5" / 1180 mm (Model 18) 52.5" / 1335 mm (Model 24) 58.5" / 1485 mm (Model 30)	38.5" / 975 mm (Model 18) 44.5" / 1130 mm (Model 24) 50.5" / 1280 mm (Model 30)
Overall Height	65.5" / 1665 mm	65.5" / 1665 mm	65.5" / 1665 mm	65.5" / 1665 mm
Roller Height Service Range	5.5" - 21.5" 140 - 545 mm	5.5" - 21.5" 140 - 545 mm	5.5" - 23.5" 140 - 595 mm	5.5" - 23.5" 140 - 595 mm
Roller Width (Nominal)	18" / 445 mm (Model 18) 24" / 610 mm (Model 24) 30" / 760 mm (Model 30)	18" / 445 mm (Model 18) 24" / 610 mm (Model 24) 30" / 760 mm (Model 30)	18" / 445 mm (Model 18) 24" / 610 mm (Model 24) 30" / 760 mm (Model 30)	18" / 445 mm (Model 18) 24" / 610 mm (Model 24) 30" / 760 mm (Model 30)
Extended Arm Reach <sup>3</sup> (Beyond Roller Bed)	6" / 152 mm	6" / 152 mm	6" / 152 mm	6" / 152 mm
Service Weight (unloaded)	1050 lb / 480 kg (Model 18) 1128 lb / 515 kg (Model 24) 1135 lb / 520 kg (Model 30)	945 lb / 430 kg (Model 18) 960 lb / 440 kg (Model 24) 1090 lb / 500 kg (Model 30)	850 lb / 390 kg (Model 18) 934 lb / 425 kg (Model 24) 1060 lb / 485 kg (Model 30)	718 lb / 330 kg (Model 18) 748 lb / 340 kg (Model 24) 960 lb / 440 kg (Model 30)

1. Maximum Load Capacity based on 39" Battery Length
2. Not including cantilever or roller bed extension options
3. Not including any roller bed extension options

Specifications are subject to change without notice.  
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