

BATTERY CARRIAGES

BATTERY TRANSFER CARRIAGE

BTC Series: MPPAE, MPPEL, MPPEE, MPP, WINCH

- *A complete family of mechanical and electric models available to meet every need*
- *Exclusive BHS features add durability and versatility to every carriage*



BATTERY HANDLING SYSTEMS



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BTC Series: MPPAE, MPPEL, MPPEE, MPP, WINCH



MPPAE (All electric with electric lift and extraction)

Available in three models with roller widths from 18" - 30", this electric carriage contains a 12-volt hydraulic power unit and two manual directional control valves with overload relief valves for added safety. Its lift range is from 5.5" to 21.5".

Note: Shown with optional charger. (BTC-CHGR)



MPPEE (Mechanical Push/Pull with Electric Extraction)

Available in the same width and capacity models, the MPPEE features a heavy duty extraction drive motor for easy battery removal. Its lift range is from 5.5" to 23.5".



MPPEL (Mechanical Push/Pull with Electric Lift)

BHS Battery Transfer Carriage with electric lift offers a lift range of 5.5" to 21.5". Like other electric models, the MPPEL includes a deep cycle 185 AH battery.



MPP (Mechanical Push/Pull)

This BHS Mechanical Battery Transfer Carriage is available in three models. Each model has 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. Its lift range is from 5.5" to 23.5".

BTC MODELS

BTC

18 - 18" Compartment	(Blank)	Winch Model (not available in the 30" compartment)
24 - 24" Compartment	MPP	Mechanical Push/Pull with manual lift & lower
30 - 30" Compartment	MPPEE	Electric Extraction with manual lift & lower
	MPPEL	Mechanical Push/Pull with electric lift & lower
	MPPAE	Electric Extraction with electric lift & lower

All units are manually propelled

Increased Guarding around the entire extractor chain assembly, plus access panels for the hand wheel gearbox were new product additions. These enhancements allow extra protection for the operators.

FEATURES & BENEFITS

- Provides a safe and easy low cost battery handling solution
- Versatile standard adjustment allows battery extraction from most battery compartments
- Power enclosure standard on electric models allowing easy service and repair work
- High load capacity rating
- Electric models offer quick and easy electric 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



BTC Inner Frame Design The re-designed inner frame side panels are now constructed of one piece, providing a stronger frame.



BTC Storage Slots for the hydraulic jack handle. This addition helps prevent the handle from being misplaced.



Vector Floor Lock The exclusive BHS vector floor lock eliminates the need for attachment chains during battery extraction, and comes standard with easy-to-lift handles.



BTC Locking Handle keeps the extractor arm stationary while transporting the battery.



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



Deep Cycle Battery
All electric powered BTC units include a 185 AH deep cycle battery.



Modular Power Enclosure
Each BHS electric powered BTC unit features a modular power enclosure. The enclosure contains the power unit and hydraulic directional control valve with overload safety relief valves. Interconnecting hydraulic hose and electrical wiring allows easy assembly for service and repair.



Hand Wheel
The MPP model operates with a hand wheel for positive control of the push/pull extractor arm. The wheel also features chain and sprocket power transmission.



Hydraulic Jack
For manual elevation changes, BHS offers an easy to use hydraulic jack to raise and lower the unit for accommodating various lift truck roller heights.



Parking Brake
For added safety, the parking brake keeps the unit in place when not in use.



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

Battery Transfer Carriage Options

BTC OPTIONS



Vacuum Extraction (BTC-VAC)

A vacuum option is available to provide an efficient battery removal system. No manual hook-up is required, and the battery sustains less wear and tear.



Push Arm Extension (BTC-PA)

This option provides a low cost solution for extending the extractor arm an additional 4" past the current 6" extension.



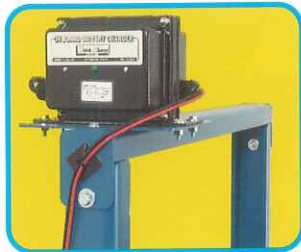
Extended Reach Cantilever (BTC-CAN-7)

An extended reach cantilever option is available for outrigger clearance to reach an additional 7" beyond the BTC base for a total of 13" of reach.



Extended Roller Compartment (BTC-CAN-7-6)

For longer than normal battery lengths, BHS offers a variety of bed extension options. Please consult a Sales Engineer with your specific application.



Self Contained Charger (BTC-CHGR)

This option is available to allow for a complete battery charging system on the electric powered units.



Track Mount (BTC-TM)

Track mounting the BTC unit allows for a smooth repeatable battery change out cycle. Common options used with the BTC-TM are: (SGT-F) (single guidance flat track). Please consult a Sales Engineer for your specific application.



Rubber Bumper (BTC-RB-OPT)

Rubber bumpers are available to protect your lift truck fleet during battery change outs.



Rubber Flap Kit (BTC-RGD)

The rubber flap option provides total operator protection from the gear and chain assembly used to extract batteries.

ADDITIONAL OPTIONS

Extra Capacity (BTC-EC)

For applications that require more capacity than the standard 3000 lbs, BHS offers the BTC-EC option for up to 3400 lbs of load.

Extra Reach Stability (BTC-STAB)

During battery change out with outriggers, the BTC-STAB option allows for more side to side stability on the BTC unit.



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