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## ***Battery Carts & Carriages Automatic Transfer Carriage***



The BHS Automatic Transfer Carriage (ATC) converts an existing pallet truck into an efficient, portable battery changer. The ATC is available in a variety of models with many flexible options to satisfy unique battery handling requirements.

## Battery Carts & Carriages

### Automatic Transfer Carriage

Whether mounting an Automatic Transfer Carriage (ATC) to one pallet truck or requiring the flexibility to mount to multiple trucks, the ATC can be customized to meet a variety of facility requirements.

#### Features & Benefits

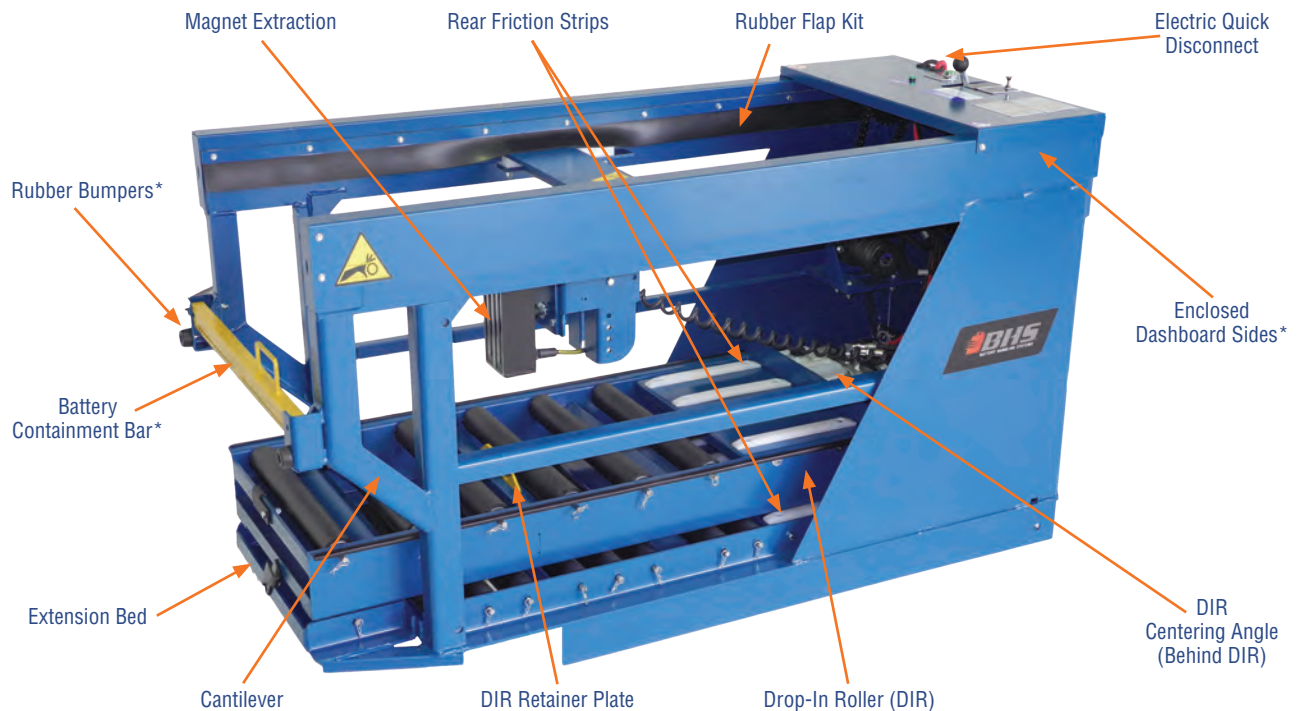
- Lowers system cost by utilizing existing equipment
- Mounts easily to powered pallet truck—consult BHS for pallet truck specifications
- Powered by the pallet truck battery (12 or 24 V dc available)
- Simple, center-mounted controls for easy operation from left, right, or rear of the carriage
- Standard industrial components utilized in the design, allowing for locally available parts
- 10 compartment rollers allow for better wear and load distribution
- Hydraulic-powered push-pull extraction
- Enclosed dashboard sides for added protection against accidental contact with moving parts during operation
- Battery Containment Bar encloses compartment to secure battery during transport
- Rubber Bumpers protect the industrial lift truck fleet during battery change-out
- Spark-proof, poly-sleeved rollers reduce corrosive build-up and extend product life (ATC-24 only)
- Many flexible options available to satisfy unique battery handling requirements

#### Available Models

- ATC-24:** 24" (610 mm) wide battery compartment
- ATC-30:** 30" (762 mm) wide battery compartment
- ATC-36:** 36" (914 mm) wide battery compartment
- ATC-42:** 42" (1067 mm) wide battery compartment



#### Options & Standard Features



\* Standard Feature

## Available Options

### **Vacuum Extraction (ATC-VAC)**

Eliminates the need for manual hook-up and reduces wear and tear on batteries

### **Magnet Extraction (ATC-MAG)**

Eliminates the need for manual hook-up, reduces wear and tear on batteries, and is ideal when batteries are too narrow for vacuum extraction

### **Magnet Light Indicator (ATC-MLI)**

Illuminates when magnet is on, providing a secondary indicator to the audible alarm

### **Hook & Chain Extraction (ATC-HC)**

Manual hook-up option available as a back-up extraction mechanism for vacuum or magnet extraction models

### **7" Cantilever (ATC-CAN-7)**

Extends extractor arm reach an additional 7" (178 mm) and is ideal for use with outriggers

### **7" Cantilever & 6" Extension Bed (ATC-CAN-7-6)**

7" (178 mm) additional extractor arm reach is ideal for use with outriggers, and 6" (152 mm) bed extension accommodates longer batteries

### **7" Cantilever & 8" Extension Bed (ATC-CAN-7-8)**

7" (178 mm) additional extractor arm reach is ideal for use with outriggers, and 8" (203 mm) bed extension accommodates longer batteries

### **14" Cantilever & 6" Extension Bed (ATC-CAN-14-6)**

14" (356 mm) additional extractor arm reach is ideal for use with outriggers, and 6" (152 mm) bed extension accommodates longer batteries

### **14" Cantilever & 8" Extension Bed (ATC-CAN-14-8)**

14" (356 mm) additional extractor arm reach is ideal for use with outriggers, and 8" (203 mm) bed extension accommodates longer batteries

### **Heavy-Duty Extraction (ATC-HD)**

High torque hydraulic motor is recommended for applications using slide strips

### **Electric Quick Disconnect (ATC-QDY)**

Dual SB-175 gray connector harness plugs into the pallet truck and battery, allowing ATC and pallet truck to be powered simultaneously

### **Friction Strips (ATC-FS)\***

Provide additional battery stability during transport

### **Uncoated Rollers (ATC-UNCTD)**

Reduces roller height by 0.25" (6 mm) to accommodate low battery compartments

Note: Available on ATC-24 model only

### **Rubber Flap Kit (ATC-RGD)**

Covers chains and sprockets to prevent dirt and debris from accumulating on or around chains and sprockets

### **Keytroller (ATC-KEYROLLER)\***

Provides the ability to schedule maintenance, pre-operation checklists, and operator training, which must be performed at specified intervals to prevent operator lockout

### **Two Tier Roller Compartment (ATC-2TIER)\***

Combines two roller compartment levels in one unit, and is ideal for a combination of narrow aisle trucks and counter-balance trucks

### **Two Tier Poly Roller & SST Shaft (ATC-2TIER-PR)**

Converts the standard upper roller/shaft combination to solid poly rollers with 0.5" (13 mm) SST Shafts

### **Extra Service Capacity (ATC-ESC)**

Increases ATC load capacity by 1,000 lb (454 kg) and also extends the life of the ATC in harsher environments (includes increased side rail support, front rail reinforcement, front overhead cross bar, and heavy-duty, high-torque, low-speed extractor arm drive motor)

### **Drop-In Rollers (ATC-DIR)\***

Increases roller height up to 10" (254 mm) to reach battery compartments beyond pallet truck maximum lift, and includes the DIR Centering Angle and DIR Retainer Plate

Note: Recommended when ATC-2TIER is not feasible and extraction from multiple battery compartment heights is required

### **Drop-In Roller Friction Strips (ATC-DIR-FS)\***

Increases roller height up to 10" (254 mm) to reach battery compartments beyond pallet truck maximum lift, and friction strips provide additional battery stability during transport (for use with standard bed length)

### **Drop-In Roller, Extended (ATC-DIR-LG)\***

Increases roller height up to 10" (254 mm) to reach battery compartments beyond pallet truck maximum lift, and is for use with 6" (152 mm) or 8" (203 mm) bed extension

### **Drop-In Roller, Extended with Friction Strips (ATC-DIR-LG-FS)\***

Increases roller height up to 10" (254 mm) to reach battery compartments beyond pallet truck maximum lift, and friction strips provide additional battery stability during transport (for use with 6" or 8" Extension Bed)

### **Base Elevation (ATC-BSELV)\***

Elevates ATC base up to 10" (254 mm)

### **Low Profile-Bolt-In Slide (ATC-LP)\***

Cost-effective ATC bolt-in slide option allows roller height to be adjusted 0.5" (13 mm) lower than standard unit

### **Low Profile Design (ATC-LPF)\***

Allows lowered roller height of 5.5" (140 mm) with or without FP-C option

### **Self-Contained Battery and Charger (ATC-BATT), (ATC-CHGR)**

The ATC-BATT and ATC-CHGR allow the ATC to operate independently from lift truck, and the self-contained charger used in conjunction with self-contained battery provides a convenient and complete battery changing system

### **Remote Control (ATC-RMT)\***

6' (1.83 m) cord enables ATC control from operator's position on fork lift

### **Fork Pocket/QDY/Tongue Kit (ATC-FP-C-24/30, ATC-FP-C-36/42)**

Designed for applications where a pallet truck can't be dedicated full time to the battery changing process. Includes a welded Tongue Kit to enhance stability and an SB quick disconnect (ATC-QDY). Rear-entry fork pockets are designed for use with pallet truck.

### **Three-Way Fork Pocket/QDY (ATC-FP-3-24/30, ATC-FP-3-36/42)†**

Designed for multi-purpose and multi-position and for applications where a pallet truck can't be dedicated full time to the battery changing process. Includes a welded Tongue Kit to enhance stability and an SB quick disconnect (ATC-QDY). Rear-entry fork pockets are designed for use with pallet truck. Side-entry fork pockets are designed for use with SDCB lift trucks.

### **Three-Way Fork Pocket (ATC-FP-3)†**

Designed for multi-purpose and multi-position. Side-entry fork pockets are designed for use with SDCB lift trucks, typically as a back-up to Operator Aboard Battery Extractors when combined with the Remote Control (ATC-RMT) and Vacuum Extraction (ATC-VAC) options. Rear-entry fork pockets can also be used with a pallet truck host truck when the bolt-on Tongue Kit is attached.

### **Bolt-On Mounting (ATC-BLTON)**

Semi-permanent mounting solution when the host truck is occasionally required for other tasks

### **Permanent Mounting (ATC-MPJ)\***

Factory welding to customer-supplied pallet truck

\* Consult factory for this option.

† 24 V dc must be supplied from the host truck for powering the ATC (may require special taps and cable from SDCB battery), or optional on-board battery and charger packages are available if required.

## Product Specifications

Imperial/Metric

	ATC-24	ATC-30	ATC-36	ATC-42
<b>Max. Load Capacity</b> <sup>1</sup>	4,000 lb / 1814 kg	4,000 lb / 1814 kg	4,000 lb / 1814 kg	5,000 lb / 2268 kg
<b>Voltage Requirement</b>	12/24 V dc	12/24 V dc	12/24 V dc	12/24 V dc
<b>Hydraulic Pump</b>	Gear	Gear	Gear	Gear
<b>Extractor Arm Travel Speed</b>	0-24 ft/min 0.12 m/s	0-24 ft/min 0.12 m/s	0-24 ft/min 0.12 m/s	0-24 ft/min 0.12 m/s
<b>Battery Attachment</b>	Hook & Chain Standard Vacuum & Magnet Optional	Hook & Chain Standard Vacuum & Magnet Optional	Hook & Chain Standard Vacuum & Magnet Optional	Hook & Chain Standard Vacuum & Magnet Optional
<b>Optional Magnet</b>	4" x 12" / 101 mm x 305 mm	4" x 12" / 101 mm x 305 mm	4" x 12" / 101 mm x 305 mm	4" x 12" / 101 mm x 305 mm
<b>Optional Vacuum</b> <sup>2</sup>	10" Diameter / 254 mm	12" Diameter / 305 mm	12" Diameter / 305 mm	12" Diameter / 305 mm
<b>Primary Drive Reduction</b>	2:1	2:1	2:1	2:1
<b>Primary Drive Chain Size</b>	#50	#50	#50	#50
<b>Roller Diameter</b>	2.4" / 61 mm	2.4" / 61 mm	2.4" / 61 mm	2.4" / 61 mm
<b>Roller Shaft Size</b>	7/16" Hex / 11 mm	3/4" Hex / 19 mm	3/4" Hex / 19 mm	3/4" Hex / 19 mm
<b>Battery Width</b>	6" Min / 23" Max 152 mm Min / 584 mm Max	6" Min / 29" Max 152 mm Min / 736 mm Max	6" Min / 35" Max 152 mm Min / 889 mm Max	6" Min / 41" Max 152 mm Min / 1041 mm Max
<b>Battery Length</b> <sup>3</sup>	41" Max / 1041 mm	41" Max / 1041 mm	41" Max / 1041 mm	41" Max / 1041 mm
<b>Min. Battery Height Hook &amp; Chain Magnet Vacuum</b>	12" / 305 mm 18" / 457 mm 21" / 533 mm	12" / 305 mm 18" / 457 mm 21" / 533 mm	12" / 305 mm 18" / 457 mm 21" / 533 mm	12" / 305 mm 18" / 457 mm 21" / 533 mm
<b>Overall Length</b>	62.75" / 1594 mm Standard 69.75" / 1772 mm CAN-7 Option 76.75" / 1949 mm CAN-14 Option	62.75" / 1594 mm Standard 69.75" / 1772 mm CAN-7 Option 76.75" / 1949 mm CAN-14 Option	62.75" / 1594 mm Standard 69.75" / 1772 mm CAN-7 Option 76.75" / 1949 mm CAN-14 Option	62.75" / 1594 mm Standard 69.75" / 1772 mm CAN-7 Option 76.75" / 1949 mm CAN-14 Option
<b>Overall Width</b>	29.5" / 749 mm	35.5" / 902 mm	41.5" / 1054 mm	47.5" / 1207 mm
<b>Overall Height</b>	34" / 864 mm	34" / 864 mm	34" / 864 mm	34" / 864 mm
<b>Base to Roller Height</b>	3" / 76 mm	3" / 76 mm	3" / 76 mm	3" / 76 mm
<b>Roller Width</b>	24.5" / 622 mm	30.5" / 775 mm	36.5" / 927 mm	42.5" / 1079 mm
<b>Extended Arm Reach (Beyond Roller Bed)</b>	6" / 152 mm Standard 13" / 330 mm Cantilever	6" / 152 mm Standard 13" / 330 mm Cantilever	6" / 152 mm Standard 13" / 330 mm Cantilever	6" / 152 mm Standard 13" / 330 mm Cantilever
<b>Rated Draw Bar Pull</b>	1,000 lb / 453 kg	1,000 lb / 453 kg	1,000 lb / 453 kg	1,000 lb / 453 kg
<b>Average Holding Force</b>	750 lb / 340 kg Vacuum 775 lb / 351 kg Magnet	1,000 lb / 453 kg Vacuum 775 lb / 351 kg Magnet	1,000 lb / 453 kg Vacuum 775 lb / 351 kg Magnet	1,000 lb / 453 kg Vacuum 775 lb / 351 kg Magnet
<b>Service Weight (unloaded)</b> <sup>4</sup>	580 lb / 263 kg	640 lb / 290 kg	700 lb / 317 kg	770 lb / 349 kg

Notes: BHS recommends that high-speed travel be disabled on pallet truck and maximum speed set at turtle or lowest setting.

1. Verify capacity of pallet truck being used at the specified load center (minimum 34" with 38" battery). Load center increases by 0.5" (12.7 mm) for every inch of battery over 38" (965 mm) in length. Certain options may affect load capacity. Consult factory.
2. Minimum battery width for 10" (254 mm) diameter vacuum is 11.5" (292 mm). Minimum battery width for 12" (305 mm) diameter vacuum is 13.75" (350 mm).
3. Consult factory for additional options.
4. Weight does not include options. Add 80 lb (36 kg) for magnet extraction.

