



## Models - Tow Carts

An Ideal Solution for Challenging surfaces

### Choose Helitowcart !

for:

- Fun & Easy Single Person Handling
- Minute Precision with Impressive Power
- Efficient Speed for Long Distances
- Quick Interchangeable Attachments
- Pneumatics for Smooth & Adherent Traction
- Swift, Silent & Fume Free Operation
- Easy rides over challenging terrain, high hangar rails & tough weather conditions
- Long Range, Reliability & Min. Maintenance



V404	V201
<p style="text-align: right;">8 800 lbs / 4 000 kg</p>  <p>In addition to all helicopter models towed by the V201, this tow cart also tows the EC130, 135, 145, AS355, BK117, B206L4 &amp; B407. Favored for private use or light commercial operations.</p>	<p style="text-align: right;">5 500 lbs / 2 500 kg</p>  <p>The V201 is ideal for R44 owners that plan to move to turbine helicopters</p> <p>A compact unit With impressive power</p> <p>Ideal for R44, Enstroms, EC120, B206B3 &amp; AS350. Popular with Robinson owners for its electric lift. Favored for private use or light commercial operations</p>
V500	V614
<p style="text-align: right;">16 000 lbs / 7 300 kg</p>  <p>For high intensity commercial operations. Multi-purpose use: Tows most Skidded or Wheeled helicopters as well as executive aircrafts. Very powerful unit.</p> <p>Can be used as a luggage carrier and as Ground power unit. With luxury features: Lighting for night operations, shock operated covers, rubber covered cabinets &amp; large storage zone for cables.</p>	<p style="text-align: right;">18 800 lbs / 8 200 kg</p>  <p>Helitowcart's most powerful tow cart. This machine is ultra compact, turning on itself (swivel wheel free). The tow cart is operated with a joystick on cord, thus allowing user to walk around the helicopter to check on tail and blades at his convenience. It tows R44s to B412s, and wheeled helicopters such as the Agusta 109 or planes such the King Air.</p>

[Helitowcart.com](http://Helitowcart.com)

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**For Robinsons only:**



4" hard swivel wheels  
10" pneumatic traction wheels

**V102** R22 & R44 only, on regular surfaces.  
Favourite with private owners that operate on tarmac.



With heavier frame  
6" pneumatic swivel wheels  
13"x6" pneumatic traction wheels

**V204** R22 & R44 only, on challenging surfaces such as soft, rugged or snow covered terrain. Favourite with private owners that operate from a recreational residence or in challenging winter conditions.

**Helitowcart Components**

**Batteries**

All tow carts use 12 volts Deep Cycle batteries. These are readily available worldwide. They are also known as "Marine", "RV" or "Camping Car" batteries.

Batteries are not included to keep freight charges to a minimum. Should it be needed we can provide a quotation with batteries. They then need to be sealed type such as GEL or AGM to meet flight safety regulations. Batteries purchased locally can be WET type, i.e. unsealed and thus less expensive.

**Battery Charger**

Tow carts include the battery charger. These are high quality units that have an excellent reliability record.

All battery chargers are 115/230v.  
2-wheel drives have 4amps units,  
4-wheel drives have 8 amps units.

Tow carts can be left unattended during charging process. Charger monitors battery charge level. Most users need battery charging only once or twice a month. Battery charger is supplied with US or European plug.

**Brakes**

V100, V200 and V400 tow cart series are set up on free wheel mode for convenient handling. When operating on slanted surfaces, motor brakes can be set up on permanent breaking mode for safety.

Larger V500 and V600 series are set up on permanent braking mode. They can only be handled with active joystick for safety.

**Controllers**

High quality units that provide exceptional precision and reliability.

Controllers are programmed at the plant for safe helicopter handling operations.

The controller also provides a diagnosis feature. This provides help identifying error source when tow cart signals failure mode.

**Lifts**

The Helitowcart lifts are used to raise the helicopter no more than 1.5" (35mm). This is just enough to clear ground and perform towing.

V102 & V204 tow carts designed for use with Robinsons only are manually hydraulic lifts. These require limited pumping movement to reach desired height.

**Lifts (continued)**

V201, V404 & V414 tow carts are equipped with a scissor design electric lift. These are ideal for lifting light turbine helicopters.

V500 & V614 tow carts are equipped with heavy duty telescopic lifts. These lifts are operated by their own 300 watts motor (same type as the one used for traction).

**Motors**

Each traction wheel has its own 300 watts motor. Each wheel is independent.

Larger tow carts such as V500 & V600 series have de-rated mechanical systems in addition to the 300 watts motors to multiply traction capability.

The motors are high quality. They offer excellent performance & reliability record

**Quick connect lift head**

Electric lifts are equipped with a quick connect head that allows attachment system interchange in seconds.



**Wheels**

The Helitowcarts are equipped with pneumatic traction wheels. These allow for better traction on challenging surfaces such as snow, ice, gravel, broken tarmac or hangar rails.

The wide traction wheels can be fitted with winter cables. The Winter Cable Option is much appreciated for icy surfaces. The cables are designed to allow for sufficient traction on ice while maintaining minimal risk of damage to hangar floor. They also allow good traction on hangar floor, unlike chains.

## Control panels

### Fixed Control Panel

For:  
V102,  
V204,  
V201  
V404



Tip:  
On **Black**  
tow carts

Control box set on Folding Arm.  
Action initiated by pressing Trottle button (red button),  
Speed & Direction adjusted by Dial Button.



### Joystick

For:  
V414,  
V500,  
V614

Tip:  
On **Red**  
tow carts



Hand held Control linked to tow cart by cable. Action, Direction & Speed initiated by Joystick movement.

Allows operator to walk around helicopter and tow cart during operation thus allowing a clear view of tail and blades at his convenience.

## Options

### OPS: Option Power Supply (APU kit)

This Popular Option allows operators to use the tow cart as an Auxiliary Power Unit (APU) in addition to towing.



Kit includes:  
High quality cables & Safety switch

For V201 & V404, kit includes basket for cables.

### OWC: Option Winter Cables

These winter cables provide extra traction on ice & snow. They are designed to prevent damage to hangar floor while maintaining sufficient grip on ice.



Kit includes:  
4 cable rings.  
Each wide traction wheel requires 2 rings.

### OWK: Option Weight Kit

Weight blocks to increase traction on V201 & V404. Provides extra traction for tail heavy helicopters. Much appreciated for winter operations. These blocks are inserted into tow cart cabinet and fit to maintain streamline look.



V201: 146 lbs/66 kg  
V404: 170 lbs/77 kg  
Color: Black



**Batteries:** Batteries are not included but the following models are available from Helitowcart\*

For	Qty	Type	Model	Characteristics	Size	Dimensions
V102	2					
V204	2	WET	<b>BWET24</b>	Unsealed, Liquid. Requires maintenance.	Group 24	70-85 amps hour
V201	2	AGM	<b>BAGM24</b>	Sealed, Absorbed Glass Mat, Maintenance free		10 7/8"x6 3/4"x9 7/8" (28x17x25cm)
V404	4					
V500	4	WET	<b>BWET27</b>	Unsealed, Liquid. Requires maintenance.	Group 27	80-105 amps hour
		AGM	<b>BAGM27</b>	Sealed, Absorbed Glass Mat, Maintenance free		12 3/4"x6 3/4"x9 7/8" (33x17x25cm)
V614	6	GEL	<b>BGEL40</b>	Sealed, Gel, Maintenance free	Group 40	40-50 amps hour
						7 3/4"x6 5/8"x6 7/8" (20x17x18.5cm)

\*For smaller tow carts (all but the V500 and V614), we recommend that batteries be purchased locally. This ensures lower freight costs. As well, it allows the use of less expensive WET type batteries. AGM & GEL batteries are the only ones allowed on commercial flights as they are sealed and thus not considered hazardous material. For the V500 and V614 we recommend supplying the batteries as the tow carts are heavy and one wants to unload them on their own power. The V614 also has more challenging wiring for non-initiated.

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## Attachment devices

### AT44

For:  
**Robinsons**



Helicopter ball slides into the attachment block. Sliding-in aluminum bar locks ball into place. The AT44 attachment block is very safe. Should the operator not aim correctly, the ball hits the wide block first, thus preventing damage to helicopter belly.

### AT45

For:  
**MD,  
Bell,  
Enstrom,  
Schweizer,  
Eurocopter  
AS350,355  
EC130,135,145  
BK117**



The AT45 attachment system adapts to all skid tube diameters and shapes and holds helicopter tightly. It comprises of a yellow central support bar, a pair of 45 degree adjustable tip bars, complete with cranking system, cups and straps. Tips are designed to slid in/out of the central bar, thus allowing for easy adjustment should the tow cart be positioned off center. The AT46 is a low version of this unit to fit the low V610.

### AT47

For:  
**EC135, 145, BK117**

**\*i.e. helicopters  
that require  
attachment to  
vertical struts**



The AT47 allows a fast set-up, adapts to most skid tube diameters and shapes and holds the helicopter tightly. The system is actually triple axle to match specific helicopter needs. It comprises of the yellow central support bar, a pair of inverted 45 degree adjustable angle bars, complete with cranking system, cups and straps.

### AT120

For:  
**EC120**



AT120 block attaches to the central bar under the cabin. This popular block is a favorite with EC120 operators. The unit is locked by tightening with a clamping system.

### AT412

For:  
**B412 with  
Pop-Out floats**



The AT412 tips have been developed for Bell helicopters equipped with pop out floats. This attachment tip is inserted into the AT45 system. It locks to the loop ring on the skid. The AT412 requires the use of the AT45. It is used as an addition to this system.

Tow Hook for **PLANES**

**OATL** for V500, V614

**OAT** for V204, V201, V404



Tow carts can be used to tow planes. Tow hooks were developed for this application. The operator hooks his own aircraft tow bar (not included) to the tow cart hook for easy ground handling.

Specifications 4 Wheel Drive	V404 (& Low V403)	V500	V614 (& Low V610)
<b>Capacity</b>	8800lbs (4000kg)	16000lbs (7 200kg)	18000lbs (8 200kg)
<b>Min retracted height</b> (including AT45 or AT46 attachment system)	V404: 16 1/4"(41cm) V403: 12 1/4"(31cm)	15 3/4"(40cm)	V614: 15"(38cm) V610: 11 1/4"(28.5cm)
<b>Ground Clearance</b>	V404: 3"(7.5cm) V403: 1 1/4"(3cm)	3"(7.5cm)	V614: 3 1/8"(7.9cm) V610: 2"(5cm)
<b>Traction</b>	4x 300 watts motors	4x 300 watts motors & De-rated mechanic	4x 300 watts motors & De-rated mechanic
<b>Wheels</b>	Pneumatic 2x Swivel 6" (15cm) & 4x Traction wheels V404: 13"x6" (33x15cm) V403: 10"x3" (25x7cm)	Pneumatic 2x Swivel 6" (15cm) & 2x Traction 13"x6" (33x15cm)	Pneumatic Swivel: na  V614: 4x Traction 13"x6" (33x15cm) V610: 4x Traction 10"x3" (25x7cm)
<b>Batteries</b>	12 volts deep cycle  4 x Group 24 70-85 amps hour  10 7/8"x6 3/4"x9 7/8" (28x17x25cm) Not included	12 volts deep cycle  4x Group 27 80-105 amps hour  12 3/4"x6 3/4"x9 7/8" (33x17x25cm) Not included	12 volts deep cycle  6x Group 40 40-50 amps hour  7 3/4"x6 5/8"x6 7/8" (20x17x19cm) Not included
<b>Battery charger</b>	8amps, 115/230v included	8amps, 115/230v included	8amps, 115/230v included
<b>Color</b>	Black	Red	Red
<b>Control Panel</b>	Control box set up on folding arm with throttle button & speed & direction dial	Joystick on cable & Folding arm	Joystick on cable
<b>Lift</b>	Electrical V movement	Electrical Telescopic With 300 watts motor	Electrical Telescopic With 300 watts motor
<b>Brakes</b>	Set to OFF position for free wheel mode (Can be put in ON position for slope operation)	Set to ON (Triggered when joystick throttle is released)	Set to ON (Triggered when joystick throttle is released)
<b>Option Power Supply (APU kit) (option)</b>	Model OPSB Includes basket for cables	Model OPS	Model OPS
<b>Tow Hook for Wheeled helicopter &amp; Aircraft (option)</b>	Model OAT	Model OATL	Model OATL
<b>Extra weight kit (option)</b>	Model OWK 170lbs/77kg weight kit to optimize traction	na	na
<b>Crate Size (shipped assembled)</b>	72"x36"x28" (183x92x71cm)	87"x48"x28" (220x121x71cm)	72"x48"x20" (183x121x51cm)
<b>Crate weight (crated without attachment or batteries)</b>	530lbs (241kg)	800lbs (363kg)	660lbs (300kg)

Specifications 2 Wheel Drive	V102	V204	V201
<b>Capacity</b>	R22 & R44 only	R22 & R44 only	5500lbs (2500kg)
<b>Min retracted height</b> (including AT45 attachment system)	na	na	16.25"(41cm)
<b>Ground Clearance</b>	1.25"(3cm)	3"(7.5cm)	3"(7.5cm)
<b>Traction</b>	2x 300 watts motors	2x 300 watts motors	2x 300 watts motors
<b>Wheels</b>	Hard 2x Swivel 4" (10cm)  Pneumatic 2x Traction 10"x3" (25x7cm)	Pneumatic 2x Swivel 6" (15cm)  2x Traction 13"x6" (33x15cm)	Pneumatic 2x Swivel 6" (15cm)  2x Traction 13"x6" (33x15cm)
<b>Batteries</b>	12 volts deep cycle 2x Group 24 70-85 amps hour  10 7/8"x6 3/4"x9 7/8" (28x17x25cm)Not included	12 volts deep cycle 2x Group 24 70-85 amps hour  10 7/8"x6 3/4"x9 7/8" (28x17x25cm)Not included	12 volts deep cycle 2x Group 24 70-85 amps hour  10 7/8"x6 3/4"x9 7/8" (28x17x25cm)Not included
<b>Battery charger</b>	4amps, 115/230v included	4amps, 115/230v included	4amps, 115/230v included
<b>Color</b>	Black	Black	Black
<b>Control Panel</b>	Control box set up on folding arm with throttle button & speed & direction dial	Control box set up on folding arm with throttle button & speed & direction dial	Control box set up on folding arm with throttle button & speed & direction dial
<b>Lift</b>	Manual Hydraulic V movement	Manual Hydraulic V movement	Electrical V movement
<b>Brakes</b>	Set to OFF position for free wheel mode (Can be put in ON position for slope operation)	Set to OFF position for free wheel mode (Can be put in ON position for slope operation)	Set to OFF position for free wheel mode (Can be put in ON position for slope operation)
<b>Option Power Supply (APU kit) (option)</b>	na	na	Model OPSB Includes basket for cables
<b>Tow Hook for Wheeled helicopter &amp; Aircraft (option)</b>	Model OAT	Model OAT	Model OAT
<b>Extra weight kit (option)</b>	na	na	Model OWK 146lbs/66kg weight blocks to optimize traction
<b>Crate Size</b> (shipped assembled)	48"x31"x25" (120x79x64cm)	48"x31"x25" (120x79x64cm)	48"x31"x25" (120x79x64cm)
<b>Crate weight</b> (approx. values)	256lbs (116kg)	310lbs (141kg)	310lbs (141kg)

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