



**CUSHMAN**



**MODEL: SHUTTLE™ 4**  
**TYPE: ELECTRIC POWERED PERSONNEL CARRIER**  
**MODEL YEAR: 2016**  
Part No: 618850

**PRODUCT SPECIFICATION**

**CONFIGURATION HIGHLIGHTS**

**Precision Drive System™ (PDS):** Factory programmable to application

- Solid State continuously variable separately excited speed controller
- Dash mounted direction selector switch (Forward-Neutral-Reverse)
- Anti-roll back, walkaway braking and alarm
- Anti-stall motor protection
- Regenerative 'Pedal Down' and/or 'Pedal Up' braking
- Eight, 6 Volt Deep Cycle
- Full torque, reduced speed reverse
- Inductive throttle sensor
- Diagnostic indicator
- Factory selectable performance options

**Battery Charger:** 48 VDC. H120/230 VAC 50/60 Hz. Underwriters Laboratories (U.L.) Listed, (C.S.A. Certified)

**Motor:** 48 volt DC shunt wound, brazed armature, solid copper windings. Intermittent Horsepower 18.1 hp (13.5 kW) at 1900 rpm (1hour)

**Drive Train:** Direct motor shaft connected to transaxle pinion shaft

**Electrical System:** 48 Volt DC, eight, 6 volt deep cycle storage batteries (107 minute, 225 amp-hour @ 20 hr. discharge rate)

**Transaxle:** Differential with helical gears

**Brakes:** Dual rear wheel mechanical self-adjusting drum brakes. Automatic single point park brake release with self-compensating system

**PRODUCT OVERVIEW**

**Dimensions**

Overall Length	135.0 in (343 cm)
Overall Width	48.5 in (123 cm)
Overall Height (No Canopy)	48.6 in (123 cm) (Top of steering wheel)
Overall Height (With Canopy)	72.0 in (183 cm)
Wheel Base	93.5 in (237 cm)
Front Wheel Track	34.2 in (86.7 cm)
Rear Wheel Track	38.0 in (97 cm)
Gnd Clearance @ Differential	4.3 in (11 cm)
Cargo Box Width (inside)	42.5 in (108 cm)
Cargo Box Length (inside)	32.0 in (80 cm)
Cargo Box Depth (inside)	11.5 in (29 cm)
Cargo Box Capacity	9 cu ft (.25 m3)
Cargo Box material	Wood Stake Sides

**Vehicle Power**

Power Source	48 Volts DC
Motor Type	Shunt Wound
Continuous Horsepower (kW)	2.5 hp (1.9 kW)
Intermittent Horsepower (kW)	18.1 hp (13.5 kW) @ 1900 rpm
Electrical System	48 Volt
Batteries (Qty, Type)	Eight, 6 Volt Deep Cycle
Key or Pedal Start	Pedal Start
Battery Charger	48 VDC, 120/230 VAC, UL & CSA
Speed Controller	400 Amp Precision Drive System (PDS)
Drive Train	Motor Shaft Direct Drive
Transaxle	Differential with helical gears
Gear Selection	Dash Mounted Forward-Neutral-Reverse

**Rear Axle Ratio** 14.7:1

**Performance**

Seating Capacity	4 Person
Dry Weight	720 lb (325 kg) (Without Batteries)
Curb Weight	1200 lb (545 kg)
Bed Load Capacity	400 lb (180 kg)
Vehicle load capacity	1200 lb (545 kg)
Outside Clearance Circle	25.5 ft (7.8 m)
Intersecting Aisle Clearance	N/A
Speed (Level Ground)	13 mph ± 0.5 mph (21 kph ± 0.8 kph)

**Steering & Suspension**

Steering	Self-compensating rack and pinion
Front Suspension	Leaf springs with hydraulic shock absorbers
Rear Suspension	Leaf springs with hydraulic shock absorbers
Service Brake	Rear wheel mechanical self-adjusting drum
Parking Brake	Self-compensating, single point engagement
Front Tires	18 x 8.50 - 8 (4 Ply Rated)
Rear Tires	18 x 8.50 - 8 (4 Ply Rated)

**Body & Chassis**

Frame	Welded steel. DuraShield™ powder coat
Body & Finish	Injection molded TPO
Seat Pod	Fiberglass & Gelcoat
Standard Color	Patriot Blue

*Some items shown may be optional equipment*



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**OPTIONS & FIELD INSTALLED ACCESSORIES (Installation not included)\***

Item	Std	Opt	Fld
<b>TIRES &amp; WHEELS:</b>			
<b>Front:</b>			
18 x 8.50 - 8 (4 Ply Rated)	X		
Trail 18 x 8.50 - 8 (Load Range C)		X	
<b>Rear:</b>			
18 x 8.50 - 8 (4 Ply Rated)	X		
Trail 18 x 8.50 - 8 (Load Range C)		X	
<b>Wheel Covers:</b>			
Spoke, Gold		X	
Spoke, Silver		X	
Chrome 6 in (15 cm)		X	

<b>COLORS:</b>			
Body Color - Patriot Blue	X		
Body Color - Hunter Green		X	
Body Color - Champagne		X	
Body Color - Yellow		X	
Custom Body Color (upon request)		X	

<b>Pin Stripes:</b>			
Pewter		X	
Black		X	
Silver		X	

<b>Seating:</b>			
Seat Color - Oyster	X		
Seat Color - Gray		X	
Seat Color - Tan		X	
Seat Color - White		X	
Custom Seat Color (upon request)		X	

<b>Battery Chargers:</b>			
120/230 VAC, 48 VDC, 10 ft (3 m) DC Cord	X		
120/230 VAC, 48 VDC, 18 ft (5.5 m) DC Cord		X	
Battery Charger Delete		X	

<b>Batteries</b>			
Batteries Trojan T105	X		
Batteries Trojan T105 w/ Battery Fill System		X	
Batteries Trojan T145		X	
Batteries Trojan T145 w/ Battery Fill System		X	

Item	Std	Opt	Fld
<b>ELECTRICAL:</b>			
Head Lights	X		
Horn	X		
State of Charge Meter	X		
LED Headlights		X	
Brake Lights		X	
Turn Signals with 4-Way Flashers		X	
DC/DC Converter		X	
Hour Meter		X	
Individual Key Switch		X	

<b>OTHER PERFORMANCE:</b>			
Ash Tray		X	
Front Disc Brakes		X	
CE Kit		X	

<b>TRANSAXLE</b>			
Limited Slip Differential		X	

<b>WEATHER PROTECTION:</b>			
Sun Canopy 118 in (300 cm) (Beige)			X
Sun Canopy 118 in (300 cm) (White)			X
Sun Canopy 118 in (300 cm) (Black)			X
Windshield Flat			X
Windshield Fold Down			X
Rear View Mirror (Sun Canopy Required)			X
Soft Enclosure, White			X