



CUSHMAN



MODEL: SHUTTLE™ 4
TYPE: ELECTRIC POWERED PERSONNEL CARRIER
MODEL YEAR: 2017
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	ABS, Painted
Standard Color	Patriot Blue

Some items shown may be optional equipment



CUSHMAN

OPTIONS & FIELD INSTALLED ACCESSORIES (Installation not included)*

Item	Std	Opt	Fld
TIRES & WHEELS:			
Front:			
18 x 8.50 - 8 (4 Ply Rated)	X		
Improved Surface 18 x 8.50 - 8 (Load Range C)		X	
Rear:			
18 x 8.50 - 8 (4 Ply Rated)	X		
Improved Surface 18 x 8.50 - 8 (Load Range C)		X	
Wheel Covers:			
Spoke, Gold		X	
Spoke, Silver		X	
COLORS:			
Body Color - Patriot Blue	X		
Body Color - Forest Green		X	
Body Color - Ivory		X	
Body Color - Safety Yellow		X	
Body Color - Black		X	
Body Color - Inferno Red		X	
Body Color - Bright White		X	
Body Color - Flame Red		X	
Body Color - Platinum		X	
Body Color - Burgundy		X	
Body Color - Almond		X	
Body Color - Electric Blue		X	
Body Color - Steel Blue		X	
Body Color - Metallic Charcoal		X	
Body Color - Sunburst Orange		X	
Body Color - British Racing Green		X	
Body Color - Monster Green		X	
Body Color - Barley Gold		X	
Body Color - Oasis Green		X	
Body Color - Java Brown		X	
Pin Stripes:			
Pewter		X	
Black		X	
Silver		X	
Seating:			
Seat Color - Oyster	X		
Seat Color - Gray		X	
Seat Color - Tan		X	
Seat Color - White		X	
Custom Seat Color (upon request)		X	

Item	Std	Opt	Fld
ELECTRICAL:			
Electrical Other:			
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
Battery Chargers:			
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
Batteries			
Batteries Trojan T105		X	
Batteries Trojan T105 w/ Battery Fill System			X
Batteries Trojan T145			X
Batteries Trojan T145 w/ Battery Fill System			X
OTHER PERFORMANCE:			
Fender Flare		X	
Brush Guard		X	
Front Hydraulic Disc Brakes			X
CE Kit			X
TRANSAXLE			
Limited Slip Differential			X
WEATHER PROTECTION:			
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