



CUSHMAN

MODEL: 8K TUG
TYPE: ELECTRIC TOW TRACTOR
MODEL YEAR: 2014
OPTION PART NO: 634659 for Base Tug (628518)



PRODUCT SPECIFICATION

Configuration Highlights

Speed Control: Programmable Solid State 300 amp controller. SRO Capable

- **Direction Selector:** Dash mounted (Forward-Neutral-Reverse)
- **Batteries:** Six, 6 Volt Deep Cycle
- **State of Charge Meter:** Dash Mounted

Battery Charger: 36 Volt On-Board. Fully line compensating. Underwriters Laboratories (U.L.) Recognized, and CE Marked

- **Input:** 100 – 240 Volt, 50/60 Hz, 12/6A
- **Output:** 36 Volt 21A, 17A @ 100Volts

Motor: 36 Volt DC SepEx, brazed armature, solid copper windings. Horsepower: 11.1 hp (8.28 kW) @ 1942 rpm

Drive Train: Triple 'V' belt connected to differential pinion shaft

Electrical System: 36 VDC, six, 6 volt deep cycle batteries (105 minute minimum, 225 amp-hour @ 20 hr. discharge rate)

Rearaxle: Differential with worm pinion gear

Brakes: 2 wheel hydraulic drum brakes; Front Hyd drum brake optional. Hand operated mechanical park brake (rear wheels)

Convenience: Cargo area with plywood deck that raises to provide access to powertrain. Seat with operator presence switch on adjustable track mounting

Steering: Handlebars come standard. Optional steering wheel available

Towing: Normal Draw Bar Pull 170 lb (77 kg)(755N). Maximum Draw Bar Pull 1245 lb (565 kg)(5537N) (Per ANSI B56.9)

PRODUCT OVERVIEW

Dimensions		Performance	
Overall Length	76.0 in (193 cm)	Seating Capacity	1 Person
Overall Width	34.5 in (87.6 cm)	Dry Weight	571 lb (259 kg)
Overall Height	37.0 in (94 cm) (Top of handlebars)	Curb Weight	940 lb (426 kg) with T 105 batteries
Wheel Base	52.5 in (133.4 cm)	Vehicle load capacity	650 lb (295 kg)
Front Wheel Track	N/A	Inside Clearance Circle (handlebar)	Turnabout rear wheel
Rear Wheel Track	29.7 in (75.4 cm)	Outside Clearance Circle (handlebar)	9 ft (2.8 m)
Cargo Box Width (inside)	33.5 in (85 cm)	Intersecting Aisle Clearance	55 in (140 cm) minimum
Cargo Box Length (inside)	21.0 in (53 cm)	Speed (Level Ground)	Up to 6.0 mph (9.6 kmh)
Cargo Box Depth (inside)	1.75 in (4.4 cm)	Towing Capacity	8000lbs (3636kg)
Cargo Box material	Heavy Duty Plywood	Steering & Suspension	
Vehicle Power		Steering	Handlebar. Optional steering wheel
Power Source	36 Volts DC	Front Suspension	Torsion Block
Motor Type	SepEx	Rear Suspension	Coil springs with hydraulic shock absorber
Rated Power	AU2500 S2 1.66 KW 60min	Service Brake	2 wheel hydraulic drum; Front wheel optional
Electrical System	36 Volt	Parking Brake	Hand lever, mechanical rear brakes
Batteries (Qty, Type)	Six, 6 Volt Deep Cycle	Front & Rear Tires	USA Trail 4.80 x 8 (Load range B) Industrial
Key or Pedal Start	Pedal	Body & Chassis	
Battery Charger	36 VDC On-board	Frame	Welded Steel with DuraShield™ powder coat
Speed Controller	300 amp rated. Programmable. SRO capable	Body & Finish	1 piece, 4-way embossed diamond pattern
Drive Train	Triple 'V' belt	Standard Color	Safety Yellow
Differential	Worm gear driven	Noise & Vibration	
Gear Selection	Dash Mounted Forward-Neutral-Reverse	Noise	Sound pressure; continued A-weighted ≤ 70 db(A)
Final Drive Ratio	29.88:1	Vibration, WBV	Highest RMS value of weighted acceleration is less than 2.5 m/s
		Vibration, HAV	Highest RMS value of weighted acceleration is less than 2.5 m/s

The uncertainty of measurement is 0.12 m/s
Measurement methods were applied per the ISO 2631 and ISO 5349 standards under conditions of typical vehicle surfaces.

Type E and EE Vehicles certified to UL583

Some items shown may be optional equipment



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OPTIONS & FIELD INSTALLED ACCESSORIES (Installation not included)*

Item	Std	Opt	Fld
TIRES & WHEELS:			
USA Trail 4.80 x 8 (Load range B) Industrial	X		
USA Trail 4.80 x 8 (Load range B) Industrial (Foam filled)		X	
4 x 8 Solid Non-Marking		X	

COLORS:

Body:

Item	Std	Opt	Fld
Body Color (Safety Yellow)	X		
Burlington Green		X	
Custom Body Color		X	

Seating:

Item	Std	Opt	Fld
Seat Color (Grey)	X		

OTHER PERFORMANCE:

Item	Std	Opt	Fld
Hitch, Clevis		X	
Hitch, Pintle		X	
Steering Wheel		X	X
Front Hydraulic Brake		X	

Miscellaneous:

Item	Std	Opt	Fld
Type 'E' Certification		X	
Type 'EE' Certification		X	
E-Stop (Standard w/ CE Option)		X	
CE Option (Requires Front Brake Option)		X	

Item	Std	Opt	Fld
ELECTRICAL:			
Battery Chargers:			
Battery Chgr 36 VDC 100-240 VAC 50/60 Hz (On Board)	X		
Battery Charger 36 VDC 115 VAC 30 Amp (Portable)		X	
Battery Charger Delete		X	

Battery Trays/Batteries:

Item	Std	Opt	Fld
Lift Out Battery Tray (Not available for CE Option)		X	X
Heavy Duty Batteries (T-145)		X	

Electrical:

Item	Std	Opt	Fld
Brake Light	X		
State of Charge Meter	X		
Horn	X		
Hour Meter		X	X
Headlight		X	X

GRADEABILITY

Vehicle Speed**	Drawbar Pull†	Maximum % of Grade/Payload*					
		0%	5%	10%	15%	20%	25%
mph/kmh	lbs/kg	lbs/kg	lbs/kg	lbs/kg	lbs/kg	lbs/kg	lbs/kg
2.0/3.2	1030/467	33383/15142	11941/5416	7011/3180	4834/2193	3614/1639	2838/1287
4.0/6.4	509/231	16034/7273	5430/2463	2992/1357	1915/869	1312/595	928/421
5.0/8.0	266/121	7937/3600	2392/1085	1116/506	553/251	238/108	-
6.0/9.6	162/74	4467/2026	1089/494	313/142	-	-	-

Grades designated in this chart indicate "climbing ability" of the vehicle with one operator and no bed load. Other considerations such as braking, road surface, type of load and stability must be made for safe operation.

*Payload - Vehicle payload must not exceed vehicle payload rating. Balance of load must be trailed weight (trailer weight plus load on trailer).

**Vehicle speed at Peak Torque.

†Formula: Weight to be pulled multiplied by .03 equals Drawbar Pull required except where gradeability exceeds max allowable trailer weight.