



T2500

25 Tonne Tow Tractor

80 volt AC controller

Cabbed & Un-cabbed

4 Wheels

BRADSHAW
ELECTRIC • VEHICLES

FEATURES



COMFORT

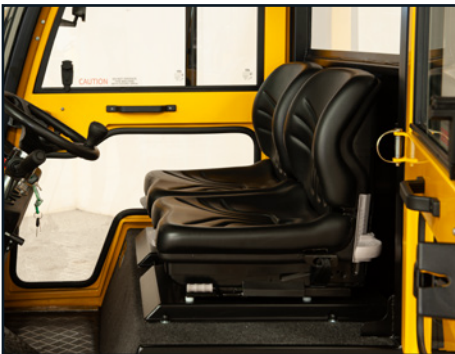
- Full suspension driver's, standard suspension passenger seats complete with arm rests.
- Safety seat cut out, (OPS). Vehicle will not operate unless driver is seated.

80 VOLT AC CONTROLLER

- A range of heavy duty 80 volt battery options including gel maintenance free batteries.
- Optional side access battery extraction and or rollers to allow for roll-out side and quick battery change.

BRAKING SYSTEMS

- Drum brakes to front wheels and inboard oil immersed disc brakes to rear wheels.
- Electronic regenerative braking under deceleration.
- Dynamic speed sensing to prevent over-speeding in all driving conditions.
- Automatic hill hold. Controller holds vehicle on incline without driver input.
- Automatically applied transmission parking brake.





LIGHTING

- Twin headlights
- Twin side lights
- Twin tail and brake lights
- Indicators
- Hazard warning lights
- Twin reverse light
- 7 pin trailer socket
- Cab option includes high level rear lighting
- Amber flashing beacon



TOW HITCHES

- Includes 40mm pin multi jaw tow hitch as standard. Optional tow hitches include combined ball and single jaw Rockinger autolock and front two jaw pin tow hitch
- External inching buttons on rear near side to assist with trailer coupling

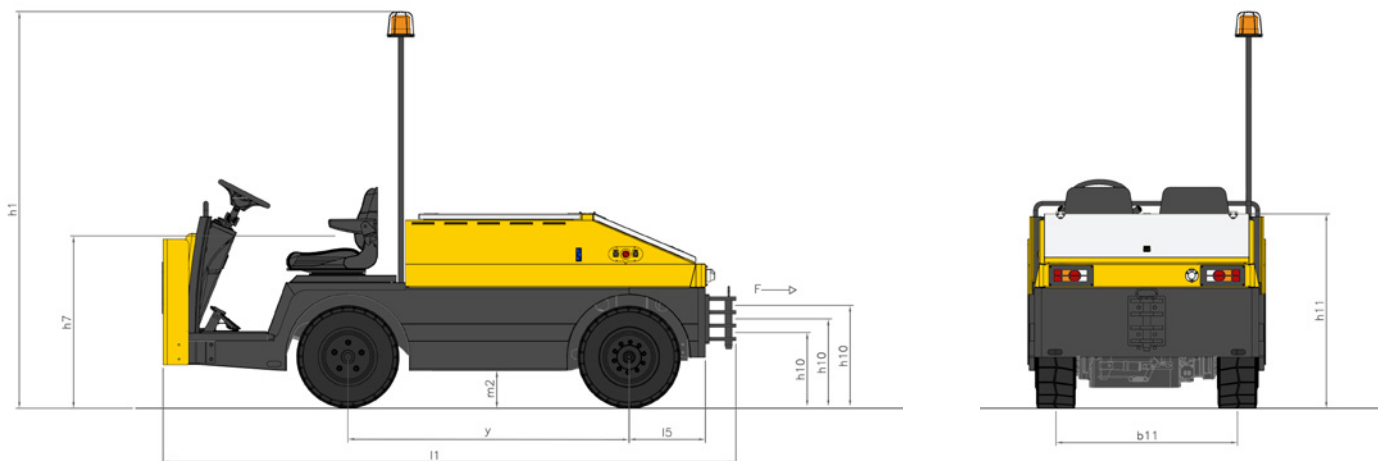
STANDARD EQUIPMENT & OPTIONS

	MODEL	T2500
VEHICLE OVERVIEW	Configuration	4 wheel
	Power unit: 80 volt AC controller	•
	Tow load capacity	25000kg
	Power steering	•
	Suspension front and rear	•
	Welded steel chassis, painted	•
	Rear drive axle with limited slip differential	•
Standard ambient operating temperatures -10 to +40	•	
BATTERIES & ACCESSORIES	80v 500Ah lead acid (40 x 4PzS500)	○
	80v 620Ah lead acid (40 x 4PzS620)	○
	80v 520Ah gel maintenance free (40 x 4PzV520)	○
	Chassis conversion to allow for side access battery extraction	○
	Optional rollers fitted to chassis to allow for roll-out side battery extraction	○
	Battery fill system (BFS) and low electrolyte level indicator (Blinky)	○
	Battery auto filler - option 1. Pressurised topping bottle with manual pump	○
Battery auto filler - option 2. Mobile 12-volt hydrofill battery watering cart with charger	○	
BRAKING SYSTEMS	Drum brakes to front wheels and inboard oil immersed disc brakes to rear wheels	•
	Servo assisted brakes	○
	Electronic regenerative braking under deceleration	•
	Dynamic speed sensing to prevent over-speeding in all driving conditions	•
	Automatic hill hold. Controller holds vehicle on incline without driver input	•
	Automatically applied transmission parking brake	•
	Hydraulic trailer braking system, includes single quick release hydraulic coupling (excludes servo assisted brakes)	○
Air trailer braking system (does not include servo assisted brakes) System includes; <ul style="list-style-type: none"> • Chassis conversion to accept electric motor driven compressor • Air tanks • Air dryer • Twin air couplings and emergency service line 	○	
LIGHTING / ACCESSORIES	Lighting includes <ul style="list-style-type: none"> • Twin headlights • Twin side lights • Twin tail and brake lights • Indicators • Hazard warning lights • Twin reverse light • 7 pin trailer socket (Cabbed option includes high level rear lighting)	•
	Amber flashing beacon mounted on pole or cab	•
	Blue spot warning light - front only	○
	Blue spot warning light - front & rear	○
	Rear mounted 12 volt working light	○
CONTROLS / AUDIBLE WARNINGS	Maximum speed can be pre-set between 8-20kph (Please specify speed setting at time of order)	•
	High / Low speed switch on dashboard (Please specify speed settings at time of order)	○
	Safety seat cut out, (OPS). Vehicle will not operate unless driver is seated	•
	Emergency stop button	•
	Horn	•
	Automatic audible warning in reverse	•
Automatic white noise audible warning in forward	○	
INSTRUMENTS	Battery discharge indicator	•
	Dash mounted lamp to indicate when park brake is applied	•
	Digital speedometer	•
	Hour meter	•
	Keypad in place of standard key switch	○
Dash mounted 12 volt charging socket	○	

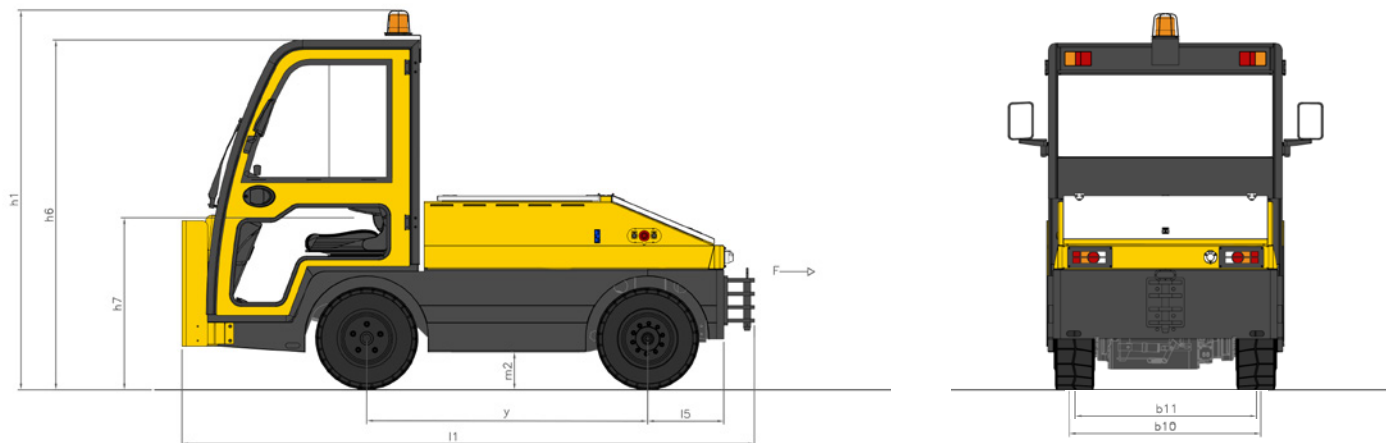
	MODEL	T2500
TYRES	(PPS) pneumatic profiled soft solid puncture proof Front: 6.50 x 10 Rear: 23 x 10-12	●
	Pneumatic: Front 6.50 x 10 Rear: 23 x 10-12	○
	(PPS) pneumatic profiled soft solid puncture proof non marking Front 6.50 x 10 Rear 23 x 10-12	○
TOW HITCH / FEATURES	No tow hitch fitted	○
	20mm pin multi jaw tow hitch	○
	25mm pin multi jaw tow hitch	○
	40mm pin multi jaw tow hitch	●
	Combined 50mm ball and 25mm single jaw	○
	Rockinger autolock which can be released by lever beside driver's seat	○
	Rockinger hitch only	○
	50mm ball tow hitch	○
	50mm ball adapter fits in any one of the three jaws on the standard tow hitch	○
	Front two jaw 20mm pin tow hitch	○
	Front two jaw 40mm pin tow hitch	○
Tow hitch specific for site requirement	○	
Inching buttons on rear near side of vehicle	●	
CAB	Left hand drive	●
	Un-cabbed	○
	Steel cab no doors	○
	Steel cab PVC roll up weather proof doors	○
	Steel cab lockable slam metal doors	○
	Right hand drive option	○
	Front wiper (cab option only)	●
	Rear wiper (cab option only)	○
	Screen wash system for front screen only (cab option only)	○
	Screen wash system for front and rear screen, must be ordered with rear wiper (cab option only)	○
	Electric heater with 3 directional nozzles and 3 speed blower (available on T2504 only)	○
Rear mounted camera with display screen	○	
SEATING	Full suspension driver's, standard suspension passenger seats complete with arm rests	●
	Upgraded to full suspension vinyl drivers seat with arm rests	○
	Upgraded to cloth drivers seat with arm rests	○
	Twin inertia lap seat belt	○
	Twin high visibility inertia lap seat belts (interlock fitted to drivers seat only)	○
MIRRORS	Interior mirrors (cab option only)	●
	Exterior mirrors (cab option only)	●
	Exterior mirrors (un-cabbed only)	○
	Large extendible exterior mirrors (cab option only)	○
	Large extendible exterior mirrors (un-cabbed only)	○
Interior fish eye mirror (cab option only)	○	
MISC	1kg dry powder fire extinguisher	○
	Category L registered for road. Category L classification allows the use of only the vehicle on public highway and does not cover the use of any trailer or trialled load	○
COLOUR	Chassis: Black	●
	Panels: Safety Yellow BS356	●
	Custom colour. Chassis black. Panels to customer's single colour specification. RAL number to be supplied at time of order	○
	Custom colour. Chassis black. Panels and cab doors to customer's single colour specification. RAL number to be supplied at time of order. (available on T2504 only)	○

TECHNICAL SPECIFICATIONS

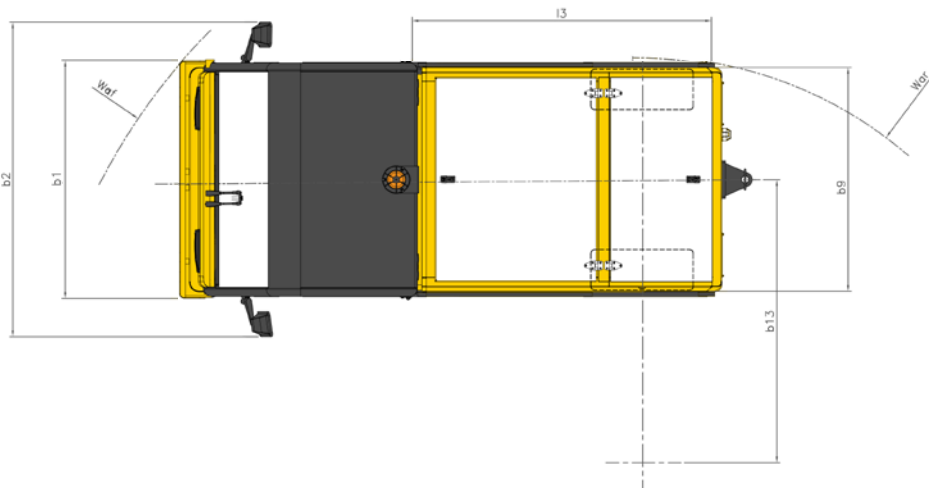
T2501-01 UN-CABBED TOW TRACTOR



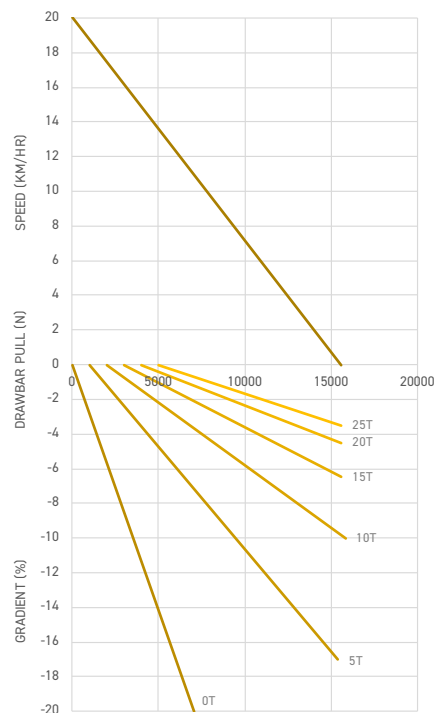
T2504-01 - CABBED TOW TRACTOR



TURNING CIRCLE



PERFORMANCE CHART



TECHNICAL DATA

VDI 2198	TECHNICAL FEATURES		T2501-01	T2504-01
DISTINGUISHING MARK	1.1	Manufacturer (abbreviation)	BEV	BEV
	1.2	Manufacturer's type designation	T2501-01	T2504-01
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas	Battery	Battery
	1.4	Operator type: hand, pedestrian, standing, seated	Seated	Seated
	1.5	Rated capacity / Rated load ⁽¹⁾	Q (t)	25
	1.7	Rated drawbar pull ⁽²⁾	F (N)	5000
	1.9	Wheelbase	y (mm)	1605
WHEELS / TYRES	3.1	Tyres: SE=Pneumatic Shape Solid, SC=Supercushion	SE	SE
	3.2	Tyre size, front	ø x width (mm)	570 x 160
	3.3	Tyre size, rear	ø x width (mm)	570 x 160
	3.5	Wheels, number front / rear (x = driven wheels)		2 / 2X
	3.6	Tread / track, front	b 10 (mm)	1061
	3.7	Tread / track rear	b 11 (mm)	1009
	3.9	Wheels braked service brake, number		4
	3.10	Wheels braked parking brake		2 x Rear
DIMENSIONS	4.2.1	Overall height	h 1 (mm)	2210
	4.7	Height of overhead guard (cabin)	h 6 (mm)	-
	4.8	Seat height relating to SIP / stand height	h 7 (mm)	960
	4.12	Coupling height	h 10 (mm)	423 / 498 / 573
	4.13	Loading height, unladen	h 11 (mm)	1083
	4.16	Length of loading surface	l 3 (mm)	1670
	4.17	Overhang	l 5 (mm)	425
	4.18	Width of loading surface	b 9 (mm)	1247
	4.19	Overall length	l 1 (mm)	3191
	4.21	Overall width	b 1 / b 2 (mm)	1322
	4.32	Ground clearance, centre of wheelbase	m 2 (mm)	210
	4.35	Turning radius	W a F (mm)	3320
	4.35	Turning radius	W a R (mm)	2130
4.36	Internal turning radius	b 13 (mm)	1440	
PERFORMANCE	5.1	Travel speed, laden / unladen	(km/h)	8 / 20
	5.1.1	Travel speed, laden / unladen, backwards	(km/h)	4 / 10
	5.5	Drawbar pull (S2 60 minute rating)	(N)	10,000
	5.6	Max drawbar pull (with 80v / 620Ah battery)	(N)	18,036
	5.8	Max. gradeability, laden / unladen	(%)	5 / 25
	5.10	Service brake		Hydraulic
DRIVE	8.1	Type of drive unit		A/C Motor
	8.10	Transfer of power		Helical Gears
	8.11	Service brake		Hydraulic Drums
	8.12	Parking brake		EM Brake on Motor
MISC	10.7	Sound pressure level at the driver's seat	dB (A)	54.7

BATTERY SIZE & VEHICLE WEIGHTS			T2501-01 UN-CABBED			T2504-01 CABBED			
BATTERY		Battery Type	(kW)	Lead	Lead	Gel MF	Lead	Lead	Gel MF
	6.1	Drive motor S2 60 minute rating	(kW)	20	20	20	20	20	20
	6.4	Battery voltage	(V/Ah)	80 / 500	80 / 620	80 / 520	80 / 500	80 / 620	80 / 520
	6.5	Battery weight	(kg)	1200	1544	1524	1200	1544	1524
WEIGHTS	2.1.1	Service weight excluding battery	(kg)	1770	1770	1770	1918	1918	1918
	2.1.0	Service weight including battery	(kg)	2970	3314	3294	3118	3462	3442
	2.3	Axle loading, unladen front / rear	(kg)	1440 / 1530	1595 / 1719	1586 / 1708	1588 / 1530	1743 / 1719	1734 / 1708

NOTE
 These values may vary +/- 5%. ⁽¹⁾ It is our recommendation that braked trailers are used for trailer loads exceeding 8000kg on level ground and for all trailer loads when operating on a gradient. Performance is affected by both the condition of the vehicle and towed equipment, as well as the surface and weather conditions within the operating area. ⁽²⁾ Based on 200N/tonne rolling resistance on a level dry surface.



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All data and specifications are in accordance with information available at the time of publication and are subject to change without notice.

Some of the vehicles shown are may be fitted with optional equipment or accessories that are available at extra cost.

This brochure supersedes all previous publications.
Issue: July 2020

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