



Since 1907



Jumboelectric Tow Truck

Three Wheel Industrial Tow Trucks (AC / DC Drive)
(Capacity 2000 / 3000 / 5000 Kg)

- MOSFET STEPLESS SPEED CONTROLLER AND HEAVY DUTY CONTACTORS
- TOWING CAPACITY UP TO 5000 KG
- POLLUTION FREE AND USER FRIENDLY
- EASY AND COMFORTABLE TO RIDE

The Jost's Electric Tow Truck is a Three-Wheel Battery Operated Material Handling Equipment used for towing load up to 5000 kg over long distances on asphalt or smooth concrete road. It is ideal for use in inter-plant transportation, factories, airports, railways and large processing plants. Josts leads the way with tough, dependable industrial towing trucks. Josts Tow Trucks with AC technology provides additional advantage of reduced maintenance, improved power utilization and improved battery life



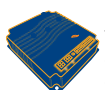
OPERATOR AREA:

Comfortable seat (with backrest ergonomically) is positioned over battery cover to provide easy reach to the steering handle. Seat has optimum leg-space (with suitable footrest) so that accelerator and brakes can be easily accessed. The control switches on the panel are easily visible and accessible.



DRIVE AND TRANSMISSION:

Equipment is driven by an DC/AC motor of suitable rating with class 'F' insulation and is powered by suitable traction battery. The two-stage (self-contained completely enclosed) transmission gear unit transmits the power efficiently. It is coupled with the motor shaft on one side and is directly fitted on the front wheel on other side



DRIVE CONTROL:

The Microprocessor-based MOSFET controller provides smooth and stepless control of speed and acceleration. The high life cycle contactors is used in the controller circuit to enhance dependability and productivity. Alternatively, four-step resistance control can also be provided as an option.



CONTROL PANEL:

The control panel is provided with ON - OFF key switch, forward and reverses switch, emergency power cut-off switch, and battery discharge indicators. These are conveniently located and simple to controls . Battery level indicator with an hour meter display can also be supplied as an option.



CHASSIS:

The chassis consists of robust welded steel frames. The tow truck has small platform at the rear for keeping the materials like tools etc. A separate trolley with a roller bed can also be supplied as an option for easy loading/unloading of batteries. Optionally Hand Lever operated self-return towing arrangement can also be provided at the rear of the truck which can be operated by the operator without dismantling from the seat. The chassis is adequately balanced for towing the specified loads without any problem.



SUSPENSION:

The standard model comes with the front suspension to provide adequate cushion to shocks. It is made of helical coil springs



STEERING:

The directly mounted steering handle with low friction bearings ensures comfortable steering within the narrow aisle. The steering can be operated in the range of 90° on either side. The steering handle is wide enough for the operator to steer the vehicle with little effort.



BRAKES:

Internally expanding foot-operated hydraulic brakes on rear wheels ensures smooth braking within adequate distance, without the collision of the towing trolley. Parking brake is actuated by hand-operated lever on the left-hand side of the operator's seat. Truck comes to halt automatically with the removal of the foot from the acceleration pedal. With 3 phase AC motor, the regenerative function of the motor provides additional braking during the operation



WHEELS:

Solid rubber-moulded tyres are provided on both drive wheel and the rear axle for operating over a variety of surface conditions. Non-marking tyres can also be supplied as an option on customer's request.



ACCESSORIES:

The truck comes with head, tail, brake, lights and horn as a standard. The truck can also be provided with beakon lights, reverse buzzer, side indicators, canopy, battery roller bed, and battery changing trolley as an option.



SAFETY:

The parking brake enables the vehicle to park on slopes without any kind of movement. The emergency power cut-off switch isolates the battery from the control panel to prevent any situation in an emergency. Adequate braking distance prevents collisions of the trailing trollies at the time of braking. Safety accessories like beakon lights, reverse buzzer, side indicators, and canopy can also be supplied with the truck as an option.



SERVICING:

The modular service-friendly design with easily removable front/top cover provides easy access to all components for servicing, thus saving valuable time during maintenance.



BATTERY:

The truck is supplied with lead acid traction batteries of 24V / 330Ah (AC model) and 30V / 289Ah (DC model) for 2000 kg model and 36V / 299Ah for both 3000 kg and 5000 kg Model as a standard. Maintenance-free batteries can also be supplied as an option.



CHARGER:

The truck is supplied with a high frequency constant current charger of suitable rating as a standard.

JUMBOLECTRIC TOW TRUCK

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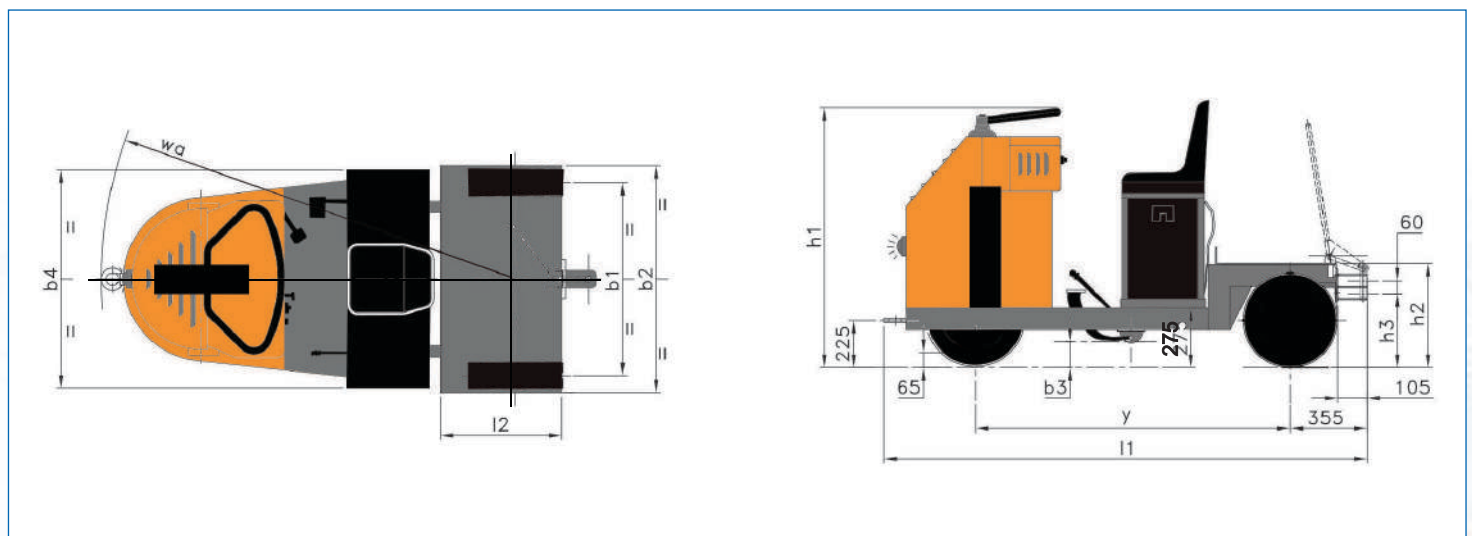
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(Capacity 2000 / 3000 / 5000 Kg)

Performance Data

Identification	1.1 Model	Nos.	JETW – 20	JETW – 30	JETW – 50		
1.2	Type of Operation	type	Seated	Seated	Seated		
1.3	Towing Capacity*	Kg	2000	3000	5000		
1.4	Wheelbase	y = mm	1320	1320	1550		
2.1	Service weight incl. battery (Apx.)	Kg	800	925	1100		
2.2	Battery weight (Apx.)	Kg	350	450	450		
3.1	Tyres	type	Solid Rubber	Solid Rubber	Solid Rubber		
3.2	Tyre size, Front	mm	Ø438 x 127	Ø438 x 127	Ø438 x 127		
3.3	Tyre size, Rear	mm	Ø438 x 127	Ø438 x 127	Ø438 x 127		
3.4	Wheels, Front / Rear (x = driven wheels)	nos.	1 x 2	1 x 2	1 x 2		
3.5	Track width, Rear	b1 = mm	850	850	850		
4.1	Overall height	h1 = mm	1170	1170	1170		
4.2	Overall length	l1 = mm	2110	2110	2360		
4.3	Battery compartment width	b4 = mm	865	945	945		
4.4	Overall width	b2 = mm	1000	1000	1000		
4.5	Ground clearance	b3 = mm	95 [®]	95 [®]	95 [®]		
4.6	Turning radius	Wa = mm	1720	1720	1960		
4.7	Platform Size	l2 x b2=mm	400 x 1000	400 x 1000	660 x 1000		
4.8	Platform / Towing height [#]	h2 / h3 = mm	480 / 350	480 / 350	480 / 350		
5.1	Travel speed : Laden (min.)	kmph	8.0	6.0	8.0	6.0	7.0
5.2	Unladen (min.)	kmph	10.0	9.0	10.0	9.0	10.0
5.3	Gradient performance : Laden	Max. %	8	7	8	7	5
5.4	Unladen	Max. %	12	10	12	10	16
5.5	Service brake	type	Hydraulic		Hydraulic		Hydraulic
5.6	Parking brake	type	Hand operated		Hand operated		Hand operated
6.1	Drive motor rating S2 = 60 min.	Kw	1.5	1.7	2.6	2.6	3.6
6.2	Drive	type	3 phase AC	©Series DC	3 phase AC	©Series DC	3 phase AC
6.3	Battery voltage, nominal capacity	V / Ah	24 / 330	30 / 289	36 / 299		36 / 299
6.4	Charger (Single Phase) (Automatic)	V / Amp.	24 / 35	30 / 30	36 / 40		36 / 40
7.1	Drive control	type	Stepless MOSFET		Stepless MOSFET		Stepless MOSFET
7.2	Sound level at driver's ear	db(A)	85		85		85

- Note : 1. * = Towing Capacity includes trolley weight plus pay load weight.,
 2. @ = Unladen Condition.,
 3. © = Resistance Controller available with DC series drive motor on request .,
 4. # = Towing arrangement is for towing the vehicle only.



• For any special requirements, Please contact Jost's H.O., Dimensions indicated here are subject to variations of ± 20 mm and performance $\pm 10\%$. Service weight ± 50 kg. Right to make changes and technical improvement reserved.



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