

ERB 15/17

(AC Drive)
Electric Stand-on Straddle
Stacker (1500/1700 Kg.)



- MOSFET programmable stepless speed controller.
- Lift heights up to 6000 mm (standard). Lift above 6000 mm available on request.
- Enhanced safety with dual speed operation (optional).
- High visibility mast fore excellent visibility of load during operation.

The Jost's Electric Stand-on Straddle Stacker, type ERB has been designed specially for the flexible handling of palletised loads in dual mode either as pedestrian or stand-on stacker. Through its widened straddle arms and forks which can be lowered almost to the ground, it can be used to pick up unit loads on closed pallets where the support straddle cannot be taken underneath the pallets. **Jost's Stackers with AC technology provides additional advantage of reduced maintenance, improved power utilisation and improved battery life.**

Operator Area : The stand-on foldable platform provides excellent comfort and safety. The dampening spring mechanism provides the required cushioning effect that "swallows" the bumps on the surface. The rubberized anti-skid mat provides good grip on stand-on mode enhancing the safety. Emergency stop button provides maximum safety for the operator.

Drive : Powerful 1.5 Kw high performance AC motor of 1 hour rating with high overload capacity efficiently drives a low noise, two stage compact gear unit mounted directly on to the drive wheel and provides excellent traction with low steering forces.

Drive Control : Microprocessor based MOSFET controller provide smooth and stepless control of speed and acceleration. It also helps in obtaining fault diagnostic information quickly and easily. The high life cycle contactors used in the controller circuit enhances dependability and productivity. The controller can also enable dual setting for different speed limits in pedestrian as well as stand-on mode (optional).

Chassis : Robust steel construction and the stable five point contact design permits high residual capacities and enhances stability during turning. The rounded enclosed contours permits safe maneuvering in confined spaces. The integrated support straddle welded to main chassis frame provide excellent stability during operation. Various inner straddle width configurations are available depending on the pallets to be handled. The battery holding compartment in the chassis is provided with suitable roller bed for easy removal of the battery.

Wheels : All wheels (Drive wheel $\varnothing 200 \times 85$ mm wide, load wheels $\varnothing 100 \times 50$ mm wide tandem, support castors $\varnothing 150 \times 50$ mm wide) are made of polyurethane material as standard. These enable noiseless smooth ride over variety of surfaces and cause less damage to expensive flooring. The tandem load wheel configuration ensures smooth roll over with continuous contact on the floor and enables easy negotiation over small bumps and jerks.

Tiller Head : Multifunction tiller head with ergonomically arranged operating elements for travel, lift, lowering and horn at finger tips provide highest operator comfort and safety. It also has a belly button that provides additional safety in case of emergencies.

Steering : The tiller control handle configuration enable easy and effortless steering in both stand-on as well as pedestrian mode. Steering lock at 90° on either side and can be operated only in limited range of handle inclinations comfortable to operator. This provides additional operational safety.

Brake : Electromagnetic disc brake with hard wearing, asbestos free liner provides quick braking. When the handle is close to vertical or horizontal position, the brake becomes operational with simultaneous power cut-off.

Hydraulics : Compact power pack unit with high pressure pump driven by 3.0 Kw sturdy Series / compound wound motor forms the heart of hydraulic system which enables smooth and efficient lifting and lowering operations to various stacking heights. During stacking and retrieval, the operator can operate lifting / lowering push button on tiller head without leaving the driving position.

High Visibility Mast : The truck is fitted with either a three stage mast (PD) with high free lift or two stage mast (PT) as a standard and can provide lift up to 6000 mm. The construction of mast is such that it provides excellent visibility of the load carriage / fork during all operations. The PD mast configuration is suitable for operation within containers. For lift requirements above 6000 mm, please refer HO.

Carriage & Forks : Robust steel fabricated carriage with forged adjustable solid forks ensure durable service. The individual moving components like pulley, chain and bearings are accurately selected, manufactured and fitted for trouble free performance. The bearings in the carriage assembly and the inner masts enable jerk free smooth vertical movements ensuring safe and stable lift of the load. The fork ends are suitably tapered to provide better maneuverability while turning in confined spaces and smooth entry into pallets.

Safety : The truck is equipped with lowering brake valve for gradual lowering, automatic lift cut off at 80% battery discharge condition for enhanced safety and anti-collision switch on tiller head. The hydraulic circuit has safety feature like hose burst valve, pressure relief valves and non return valves. The controller can also be set for dual travel speed limit (optional) for creep speed setting while stacking and retrieving with the raised load.

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

Battery : The equipment comes with 24V / 195Ah traction battery as a standard for lift height up to 5250 mm and 24V / 330Ah traction battery beyond 5250 mm to ensure steady power supply with trouble free battery maintenance.

Charger : High frequency constant current automatic charger of 24V / 20Amp for 24V / 195Ah battery (lift up to 5250 mm) and 24V / 35Amp for 24V / 330Ah (beyond 5250 mm lift) traction battery is supplied as a standard.

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Performance Data

Identification	Model	nos.	ERB 15	ERB 17
	Drive	type	AC	AC
	Operator	type	Stand-on	Stand-on
	Capacity	Q=Kg	1500	1700
Weight	Load center for rated capacity	C=mm	600	600
	Wheelbase	Y=mm	1320	1320
Wheels/Chassis	Battery weight (apx.)	Kg.	210	210
	Service weight with 2800 PT mast and 195 Ah traction battery (apx.)	Kg.	1100	1200
Basic Dimensions	Wheels	type	Polyurethane	Polyurethane
	Load wheel	mm	Ø100x50W	Ø100x50W
	Side support castor wheel	mm	Ø150x50W	Ø150x50W
	Drive wheel	mm	Ø200x85W	Ø200x85W
	Wheels, number front/rear (x= driven wheels)	nos.	1x+2/4	1x+2/4
Performance	Height of Straddle (lower height)	h=mm	100	100
	Length to face of forks with PT mast #	L2=mm	1020	1020
	Truck length upright with PT mast #	L=mm	2170	2170
	Width over forks (adjustable)	m=mm	250 - 980	250 - 980
	Overall Width	B1=mm	1400	1400
	Drive track	B2=mm	606	606
	Width between Straddles*	B = mm	1250	1250
	Distance between tandem load wheels	d = mm	108	108
	Fork thickness	s=mm	40	40
	Fork width	e=mm	100	100
	Standard fork length	l=mm	1150	1150
	Ground clearance, center of wheel base (unladen)	GC=mm	50	30
	Front over hang	G=mm	264	264
	Turning radius (Pedestrian mode)	Wa=mm	1640	1640
	Turning radius (Ride - on mode)	Wb=mm	2050	2050
Power	Travel speed, laden	km/h	5	5
	Travel speed, unladen	km/h	5.5	5.5
	Lift speed, laden / unladen	cm/s	11 / 15	10 / 14
	Lowering speed , laden / unladen	cm/s	8 / 6	8.5 / 6
	Gradient performance, laden / unladen	max.%	8 / 16	7 / 16
	Service brake	type	Electromagnetic	
	Sound level at driver's ear	db(A)	85	85
	Drive motor rating S2 = 60 min.	kW	1.5	1.5
	Lift motor rating S2 = 5min. S3 = 9%	kW	3	3

Note: (1) For lift requirements above 6000 mm, pls. refer HO.

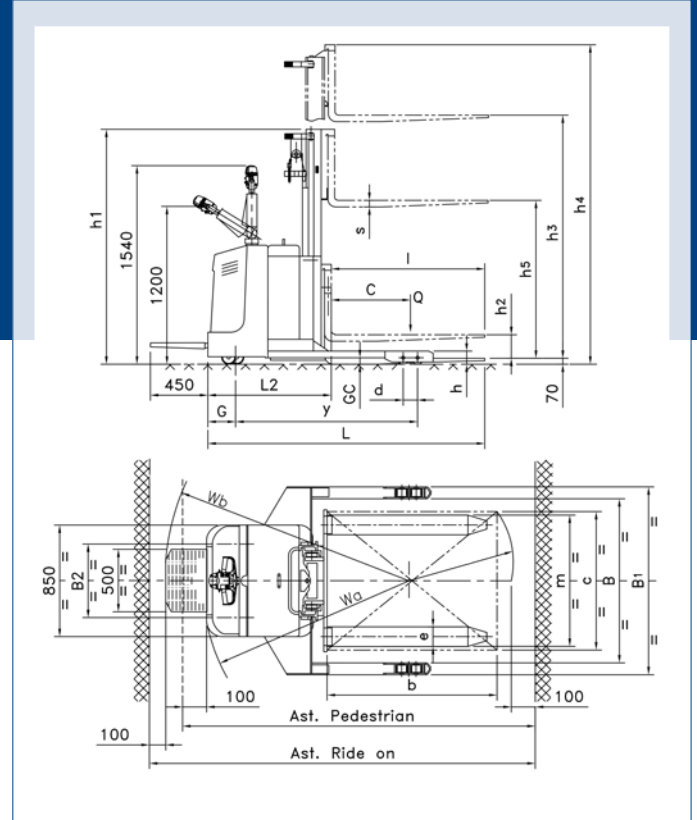
(2) # = L & L2 for PD mast, add 25mm.

(3) * = Customised straddle inner-width can be made available on request.

Residual Capacity Chart		
Model	ERB 15	ERB 17
Width over forks, min. - max. (adjustable) (mm)	250 - 980	
Straddle Inner Width (adjustable forks) (mm)	1250	1250
Fork Length (mm)	1150	1150
Body Width (mm)	850	850
Lift (mm)	Residual Capacity (Kg)	
2000	1500	1700
2400	1500	1700
2800	1500	1700
3600	1250	1450
4200	1050	1300
4500	950	1200
5250	750	1000
6000	500	800

• For lift requirements above 6000 mm, pls. refer HO.

• The residual capacity beyond 5250 mm lift height is with 330Ah battery.



- h1 – Closed mast height
- h2 – Normal free lift
- h3 – Lift
- h4 – Extended mast height
- h5 – High free lift
- h – Height of straddle (lower height)

Standard Mast Designs (mm)

2 – Stage Mast (PT) ERB – 15/17				1 – Stage Mast (SX) ERB – 15/17		
h1	h3	h2	h4	h1	h3	h4
1950	2800	100	3450	1300	800	1450
2300	3500	100	4150	1900	1400	2050
2650	4200	100	4850	2000	1500	2150

3 – Stage Mast (PD) ERB – 15/17				3 – Stage Mast (PD) ERB – 15/17			
h1	h3	h5	h4	h1	h3	h5	h4
1750	3600	1250	4250	2350	5250	1800	5900
1950	4200	1450	4850	2650	6000	2100	6650
2100	4500	1550	5150				

Note : Non standard lift height may be available on request.
For lift requirements above 6000 mm, pls. refer HO.

Working Aisle Width Ast. (mm) Incl. 200 mm Safety Clearance

Pallet size cxb	Position	Working aisle width*
800 x 1200	Lengthways	2600
1000 x 1200	Lengthways	2660
1200 x 1200	Lengthways	2720

Note: 90° stacking aisle width., * - Pedestrian mode

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

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