



ERD 20 / EJD 20

(AC Drive)

Electric Double pallet Truck / stacker

(Capacity 2000 Kg)

- MOSFET PROGRAMMABLE STEPLESS SPEED CONTROLLER.
- VERSATILE: DOUBLE DECK LOADING OR PALLET TRUCK / STACKER OPERATION.
- MULTIFUNCTION TILLER HEAD WITH ENHANCED SAFETY.
- UNIQUE LINKAGE MECHANISM TO PROVIDE JERK FREE LIFT OF LOADED PALLET.
- FULLY- INTEGRATED AC TRACTION SYSTEMS

Josts ERD / EJD electric double pallet truck/stacker is extremely versatile when it comes to handling two loads simultaneously. Along with double-deck loading / unloading, It is widely used in various other applications like transportation over long distances, stack/retrieve loads and block stacking. ERD is ideally suited to both pedestrian and ride-on operation. When compared with simple pedestrian models, ERD can provide higher throughput and speed on stand-on mode, thus goods can be cost-effectively transported. In double-deck mode two pallets (each containing 1000 kg) can be transported on top of each other. Josts also offer walk -behind pedestrian operated EJD model for double pallet handling where the ride-on feature is not designed. Josts Double Pallet Truck / Stackers with AC technology provides the advantage of reduced maintenance, improved power utilisation, and improved battery life

OPERATOR AREA:



Stand-on foldable platform of ERD provides excellent comfort and safety. Dampening spring mechanism provides the required cushioning effect that "swallows" the bumps on the surface. Rubberized anti-skid mat provides good grip on stand-on mode that enhances 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 over load capacity efficiently drives a low noise, two-stage compact gear unit mounted directly on to the drive wheel.



CHASSIS:

Robust Construction and stable five-point contact design enhances stability during turning. Rounded enclosed contours permit safe maneuvering in confined spaces. Battery holding compartment in the chassis is provided with suitable roller bed for easy removal of the battery.



DRIVE CONTROL:

Microprocessor based MOSFET controller provides smooth and step-less control of speed and acceleration. It also helps in obtaining fault diagnostic information quickly and easily. High life cycle contactors are used in the controller circuit to enhance dependability and productivity. Controller enable dual setting for different speed limits in both pedestrian and stand-on mode (optional).



WHEELS:

All wheels are made of polyurethane material as standard. These wheels enable noiseless smooth ride over a variety of surfaces and cause less damage to expensive flooring. It gives better ability to withstand impact loads while rolling over bumps on the surfaces. Tandem load wheel configuration ensures smooth rollover with continuous contact on the floor and enables easy negotiation over small bumps without a jerk. These wheels also enable easy entry into closed pallets.



TILLER HEAD:

Multi-function tiller head provide highest operator comfort and safety. It has ergonomically arranged operating elements for traveling, lifting, lowering and horn at fingertips. It has a belly button that provides additional safety in case of emergencies.



STEERING:

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



BRAKE:

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

HYDRAULICS:



Compact power pack unit with high-pressure pump is driven by 3 Kw sturdy compound wound motor .The motor forms the heart of hydraulic system which enables smooth and efficient lifting and lowering operations to various stacking heights. It operates via lifting mechanism comprises of a low lift hydraulic cylinder and loads wheel linkages to provide the required ground clearance for the bottom load.



MAST:

Equipment is fitted with two-stage mast that can lift up to 2400 mm. Mast section is rolled from quality steel with smooth and straight rolling surface.



CARRIAGE & FORKS:

Equipment comprises of two sets of forks for double-deck handling. Upper fork is used for lifting the pallet up to 2400 mm. These forks are welded to a robust steel fabricated carriage which moves inside the mast. Individual moving components of the mast assembly like pulley, chain, and bearings are accurately selected, manufactured and fitted for trouble-free performance. Bearings located in the carriage assembly and masts enable jerk-free smooth vertical movements thus ensures safe and stable lifting of the load. Bottom forks is fabricated from robust structure with a capacity of 2000 kg. It is supported underneath by load wheel link mechanism.



SAFETY:

Equipment has lowering brake valve to provide gradual lowering. It automatic lift cut off at 80% battery discharge condition for enhanced safety. It has emergency power cut-off switch on chassis panel and anti-collision switch on tiller head. Hydraulic circuit has safety feature similar to hose burst valve, pressure relief valves and non- return valves.



SERVICING:

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

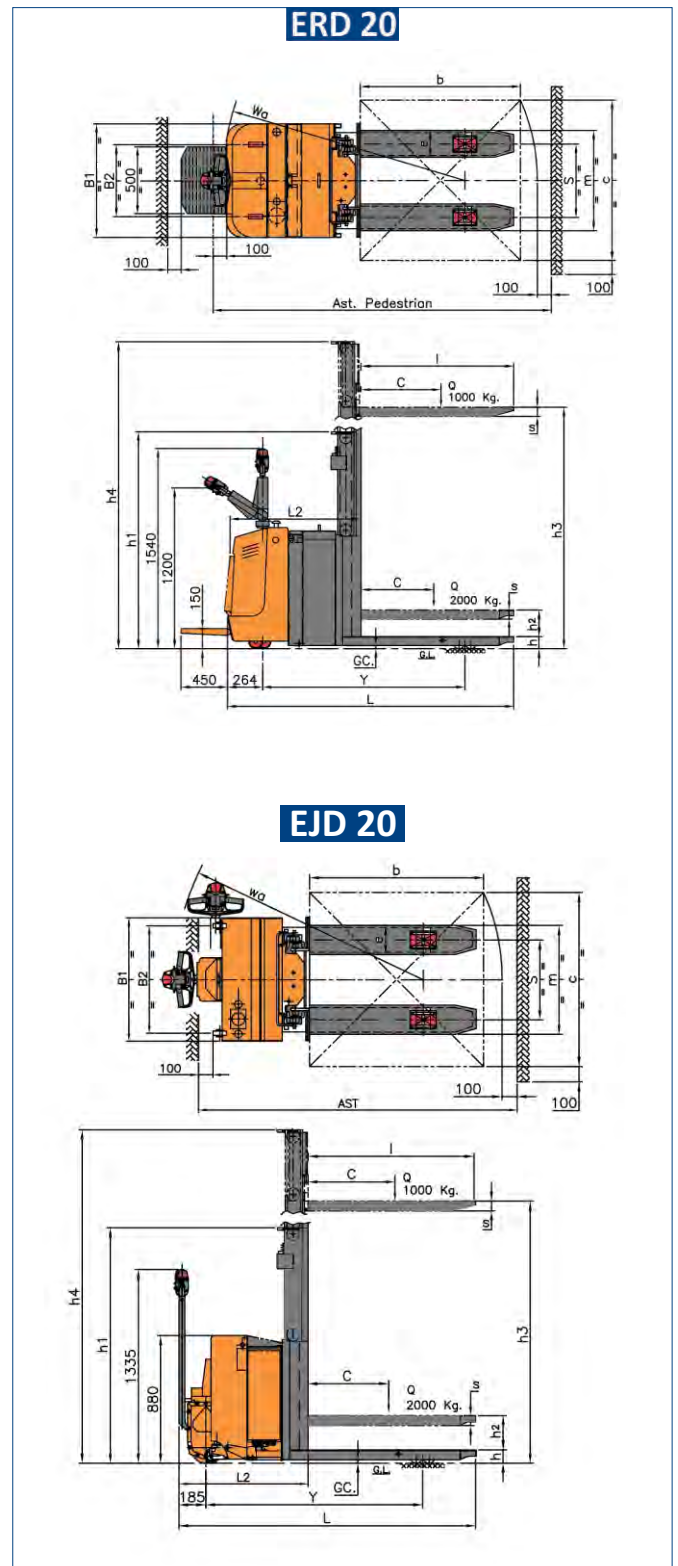


BATTERY & CHARGER

Equipment comes with 24V/ 195Ah traction battery to ensure a steady power supply. High frequency constant automatic charger of 24V/ 20 Amp is supplied as a standard. For longer work cycles and heavy-duty applications, higher capacity traction batteries can be supplied as an option on request, depending on the usage.

Performance Data

Model		ERD 20	EJD 20
Identification	Drive type	AC	AC
	Operator type	Ride-on	Pedestrian
	Residual capacity lift	Q = Kg. 1000	1000
	Load capacity mast lift	Q = Kg. 1000	1000
	Load capacity support arm lift	Q = Kg. 2000	2000
	Load center for rated capacity	c = mm 600	600
	Wheelbase	Y = mm 1520	1450
Weights	Battery weight	Kg. 210	210
	Service weight incl. Battery	Kg. 950	900
Wheels, Chassis	Tyres	Polyurethane	Polyurethane
	Load wheel	mm $\varnothing 85 \times 75W$	$\varnothing 85 \times 75W$
	Side support wheel	mm $\varnothing 150 \times 50W$	$\varnothing 100 \times 50W$
	Drive wheel	mm $\varnothing 200 \times 85W$	$\varnothing 200 \times 85W$
	Wheels, number front / rear (x=driven wheels)	nos. 1 x +2/4	1 x +2/4
	Load wheel track rear	B2 = mm 606	670
	Load wheel track front	S = mm 370 / 470 / 550	370 / 470 / 550
Basic Dimensions	Lift (standard mast)	h3 = mm 1590 / 2490	1590 / 2490
	Closed mast height	h1 = mm 1335 / 1785	1335 / 1785
	Height, mast extended	h4 = mm 2050 / 2950	2050 / 2950
	Initial lift	h2 = mm 125	125
	Height lowered	h = mm 90	90
	Length of fork	L2 = mm 1040	900
	Truck length	L = mm 2200	2050
	Width over forks	m = mm 570 / 670 / 750	570 / 670 / 750
	Overall Width	B1 = mm 850	850
	Fork dimensions mast lift	s / e / l = mm 65 / 200 / 1150	65 / 200 / 1150
	Fork dimensions arm lift	s / e / l = mm 60 / 160 / 1100	60 / 160 / 1100
	Ground clearance, center of wheel base	GC = mm 25	25
	Ast. width for 1000 x 1200 cross / length ways	c x b = mm 2420 / 2430	2300 / 2300
Turning radius	Wa = mm 1830	1690	
Performance	Travel speed, laden	Max. km / h 4 4.5	3 3.5
	Travel speed, unladen	Max. km / h 5 5.5	4 4.5
	Lift speed, laden / unladen	m / s 0.10 / 0.13	0.10 / 0.13
	Gradient performance, laden / unladen	Max.% 8% / 16%	8% / 16%
	Service brake		Electro-magnetic Electro-magnetic
Power	Drive motor rating S2 60 min.	Kw 1.5	1.5
	Lift motor rating S3 15%	Kw 3	3
	Battery voltage, nominal capacity	V / Ah 24 / 195	24 / 195
	Battery charger (Automatic)	V / A 24 / 20	24 / 20
Others	Sound level	85	85



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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