



ESI 12.5/16



DRIVE

Maintenance-free, smooth-running three-phase AC motor with high torque at lowest speed. Charging during electronic brake application. The centre drive with two lateral spring mounted and damped support rollers ensures high stability and optimum traction in materials handling. All wheels (load rollers inclusive) made of durable Vulkollan.

ELECTRONIC SYSTEM

User-programmable microprocessor controller. The AC travel and steering motor as well as the variable-speed DC hoisting motor are energy saving. The electric steering does not require any potentiometer. CAN bus technology with best screening. LOS (Limited Operating Strategy) system – Emergency travel program after standstill due to failure. The operational response and other parameters can be easily adapted to the customer's individual requirements by means of a manual programming device.

DIMENSIONS

Constructed using the latest in 3D computer aided design, it is extremely compact. What it lacks in size, is made up for in serviceability. The chassis cut-outs facilitate the maintenance of the wheels.

STÖCKLIN – YOUR ADVANTAGES

Compact and easy to handle

- **Higher productivity**
- **Ideal handling**
- **High degree of flexibility**

Modern electronic control

- **A.C. drive motor with CAN BUS technology** 
- **Safe handling even on slopes**
- **Smooth transport of materials and reduced vehicle wear**
- **Optimum response at all times**
- **Power saving**
- **Emergency driving system**

Sturdy Swiss Quality

- **Best quality and long service life**
- **High serviceability**
- **Best value for money**
- **Reasonable spare part prices**

ERGONOMICS AND SAFETY

Easy and safe operation due to proprietary rigid multi-function handle. The perceptible resistance of the steering wheel can be mechanically adjusted. Two level steering-angle dependent speed reduction. Speed-dependent steering wheel sensitivity. Insulated floor panel. Padded back rest.

STRUCTURE AND EQUIPMENT

Developed from a new complex modular system with multiple use of standard components. Very rugged despite its compact design. Axle and bolts of the load wheels and the hoisting gear made of stainless steel. Various fork-lift frames available on stock. EMERGENCY STOP button, combined working hours meter, battery controller with error code indicator. Battery 24V–465Ah. Battery change from the side.

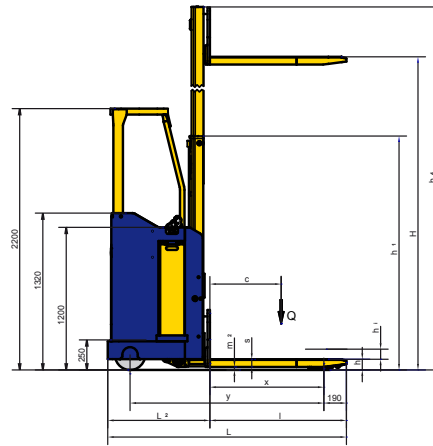
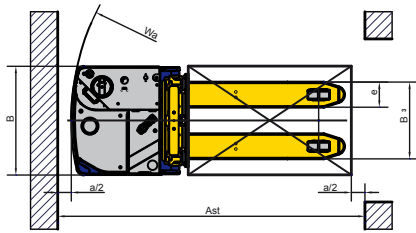
Options:

- Battery 24V – 620Ah
- Protective grid
- Client-specific load parts
- Double support roller
- Various specific drive wheels
- Initial lifting 3000 kg
- Two level platform up to a total of 3000 kg

Stocklin

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TECNICAL DATA



1.2

ESI

Model			
Performance data			
1.5	Load capacity/Initial lifting load	Q[kg]	2000
1.6	Load capacity/Fork lifting load	Q[kg]	1250/1600
	Distance to centre of gravity of load	c[mm]	600
5.1	Top speed with/without load	[km/h]	11,0/12,0
5.2	Lifting speed with/without load	[m/s]	0,15/0,3
5.3	Lowering speed with/without load	[m/s]	0,5/0,3
5.8	Max. gradient with/without load	[%]	10,0/17
Dimensions			
1.8	Load distance	x [mm]	960
1.9	Wheel base	y [mm]	1633
4.4	Initial lifting	h _i [mm]	110
4.15	Forks lowered	h [mm]	90
4.19	Overall length	L [mm]	2013
4.20	Length of front pad	L ₂ [mm]	863
4.21	Overall width	B [mm]	800
4.22	Dimensions of forks	s/e/l [mm]	60/185/1150
4.25	Distance between outer edge of forks	B ₃ [mm]	565
4.32	Floor clearance in lowered position	m ₂ [mm]	30
4.34	Width pallet service zone (800x1200 VD12198)	Ast [mm]	2273
	Safety distance	a/2 [mm]	100
4.35	Turning radius	Wa [mm]	1823

Load capacity 1600kg: dimensions L, L₂ + 15mm | *Lengths L, L₂ + 15mm
Subject to technical modifications.

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Weight (Mast A 18, battery 465 Ah, 1250 kg)			
2.1	Weight of vehicle with battery	[kg]	1310
2.2	Weight on front/rear axle with load	[kg]	1205/1355
2.3	Weight on front/rear axle without load	[kg]	930/380
Wheels			
3.1	Tyres of all wheels		Vulkollan
3.2	Drive wheel		1x254/100
3.3	Load rollers		4x83/70
3.4	Support rollers		1x2x140/40
Drive and control			
6.1	Driving motor A.C.	[kW]	2,5
6.2	Lifting motor D.C.	[kW]	3,0
8.1	Combined driving and lifting control	[A]	350
5.10	Driving brake		motor/counter current
	Parking brake, electro-mechanical	[Nm]	55
Battery			
6.3	Type of battery		PPV-DIN
6.4	Battery voltage, capacity	[V/Ah]	24/465 (620*)
	Battery designation		3EPzS465 (4EPzS 620*)

ESI	Mast models	4.2
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