



# ESP 30



## STÖCKLIN – YOUR ADVANTAGES

Maximum performance with minimum dimensions. High comfort.

- **Unique 3,000kg initial lift as standard feature**
- **Minimum aisle widths**
- **Ideal for block storage**
- **High turnover capacity**
- **Ideal handling**

State-of-the-art technology

- **High performance AC propulsion/steering drive**
- **Power reserves thanks to powerful lifting motor**
- **CAN BUS technology for high speed data flow**
- **Safe handling even on slopes**
- **Always optimum traveling and lifting characteristics**
- **Power saving**

Sturdy Swiss Quality

- **Optimum quality and long service life**
- **High serviceability**
- **Optimum price/benefit ratio**
- **Rational prices for spare/replacement parts**
- **Favorable TCO (Total Cost of Ownership)**

## 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 motors 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.

## ERGONOMICS AND SAFETY

Easy and safe operation due to proprietary rigid multi-function handle. Two level steering-angle dependent speed reduction. Speed-dependent steering wheel sensitivity. Insulated floor panel. Comfortably 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.

Lead-acid battery 24V – 465/620 Ah or safe Li-ion battery 25.6 V – 240-450 Ah with display.

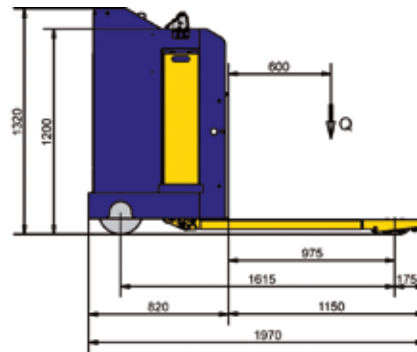
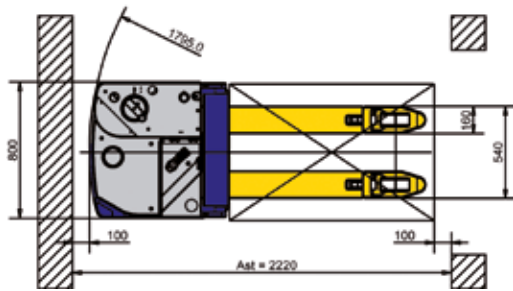
Options:

- Protective grid
- Client-specific load parts
- Double support roller
- Various specific drive wheels

**Stocklin**

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## TECHNICAL DATA



### 1.2 Model ESP 20

Performance data			
1.5	Load capacity/Initial lifting load	Q[kg]	3000
1.6	Distance to centre of gravity of load	c[mm]	600
5.1	Top speed with/without load	[km/h]	12,0/13,0
5.2	Lifting speed with/without load	[m/s]	0,04/0,05
5.3	Lowering speed with/without load	[m/s]	0,05/0,04
5.8	Max. gradient with 3000 kg / 2000 kg /without load	[%]	4,0/8,0/17,0

### Dimensions

1.8	Load distance	x [mm]	975
1.9	Wheel base	y [mm]	1615
4.4	Initial lifting	h3 [mm]	110
4.15	Forks lowered	h [mm]	90
4.19	Overall length	L [mm]	1970
4.20	Length of front pad	L2 [mm]	820
4.21	Overall width	B [mm]	800
4.22	Dimensions of forks	s/e/l [mm]	55/160/1150
4.25	Distance between outer edge of forks	B3 [mm]	540
4.32	Floor clearance in lowered position	m2 [mm]	30
4.34	Width pallet service zone (800x1200) VDI3597	branch [mm]	2220
	Safety distance	a/2 [mm]	100
4.35	Turning radius	Wa [mm]	1795

### ESP 30

#### Weight (battery 465 Ah, 2000 kg)

2.1	Weight of vehicle with battery	[kg]	1040
2.2	Weight on front/rear axle with load	[kg]	1280/1760
2.3	Weight on front/rear axle without load	[kg]	840/200

#### Wheels

3.1	Tyres of all wheels	Vulkollan
3.2	Drive wheel	1x254/100
3.3	Load rollers	4x83/70
3.4	Support rollers	1x150/80

#### 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]	50

#### Battery

6.3	Type of battery		PPV-DIN
6.4	Battery voltage, capacity	[V/Ah]	24/465 (620*)
	Type of battery	lead-acid	[Ah] 3PzS465 (4PzS620*)
		Li-ion	[Ah] 240-450
6.6	Power consumption VDI cycle	[kWh/h]	1,25

\* Lengths L and L2 + 85 mm

Subject to technical modifications.

**Stöcklin, or one of our partners in your region, will be pleased to advise you.**

## Stöcklin

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SWISS QUALITY / ISO 9001