

Electric Rider Pallet Stacker

EVV20-P

RATED CAPACITY AT $c = 600$ mm

2000 kg

LIFT HEIGHT

2500-6500 mm

KEY FEATURES

- Heavy-duty rider stacker with AC travel and electric lift.
- Electric power steering (EPS).
- Fold-down rider platform and padded side arms.
- Multi-function BDI display and hour meter.
- Side-access battery compartment.
- Automatic deceleration and stepless speed control.
- Emergency reversing control and low-speed switch.
- Special heavy-duty configuration for 6500 mm lift.



Triplex mast configuration illustrated with supporting legs. Duplex masts are supplied without supporting legs.

REFERENCED STANDARDS & DIRECTIVES

ISO 3691-1 · EN 1175:2020 · EN 12053
EN 16307-1 · EN 12100 · EMC EN 12895
2006/42/EC · 2014/30/EU

Capacity depends on lift height and load centre; refer to the load chart.

Design, controls & configurations

EVV20-P

SAFETY AND PRODUCTIVITY

- Brushless AC motor eliminates carbon-brush replacement.
- Multi-function display with BDI and hour meter.
- Side-access battery for easier maintenance.
- Damping cushion supports low-noise operation.
- Emergency reversing device in the tiller.
- Automatic deceleration function.
- Built-in pressure-relief valve for overload protection.
- Braking is applied with the tiller upright or horizontal.
- Emergency power disconnect switch.
- Low-speed (turtle) switch.
- Stepless speed control.
- Triplex masts have supporting legs on both sides; duplex masts have none.

STRUCTURAL DESIGN

- Low centre of gravity for stable operation.
- Vertical drive wheel for easy servicing and a small turning radius. Water- and dust-resistant motor construction supports motor and brake durability.
- Mast and frame can be separated and exchanged.
- Full free lift for low-clearance applications.

SERVICEABILITY

- Low-voltage protection supports battery life.
- Grouped electronic components simplify circuits and access for installation, adjustment and servicing.
- CANbus technology reduces wiring complexity and improves reliability.
- Hall-effect sensing reduces component wear and extends service life.

TRIPLEX SUPPORT DETAIL



Supporting legs on both sides of the triplex mast.

6500 mm SPECIAL CONFIGURATION



Special heavy-duty chassis base.
695 mm fork width; without stabilizer.

With EPS, drive-wheel dimensions are 250 x 80 mm.

Technical specifications

EVV20-P

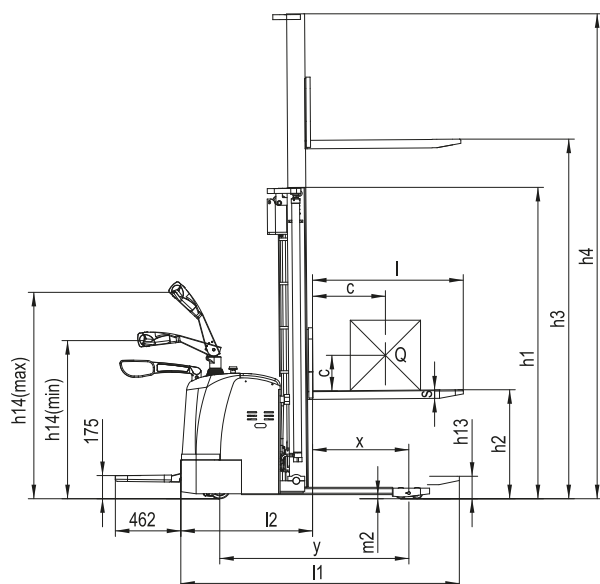
Ref.	Parameter	Symbol / unit	EVV20-P 2500-5600 mm	EVV20-P 6500 mm
GENERAL INFORMATION				
1.2	Model		EVV20-P	EVV20-P
1.3	Drive type		Electric	Electric
1.4	Operator type		Standing	Standing
1.5	Rated capacity/rated load	Q (kg)	2000	2000
1.6	Load centre distance	c (mm)	600	600
1.8	Load distance, centre of drive axle to fork	x (mm)	697	697
1.9	Wheelbase	y (mm)	1378	1408
WEIGHT				
2.1	Service weight	kg	1280/1320/1350/1640/1680/1720/2020	1850
2.2	Axle loading, laden front/rear	kg	1890/1660	2090/1760
2.3	Axle loading, unladen front/rear	kg	1070/480	1270/580
TYRES				
3.1	Tyre material		Polyurethane	Polyurethane
3.2	Tyre size, front		Φ250x80	Φ250x80
3.3	Tyre size, rear		Φ80x84	Φ80x84
3.4	Additional wheels (dimensions)		Φ150x60	Φ150x60
3.5	Wheels, number front/rear (x = driven wheels)		1x+1/4	1x+1/4
3.6	Tread, front	b10 (mm)	540	540
3.7	Tread, rear	b11 (mm)	405/525	405/525
DIMENSIONS				
4.2	Height, mast lowered	h1 (mm)	1735/1985/2135/2235/2050/2210/2410	2710
4.3	Free lift	h2 (mm)	1300/1550/1700/1800/1570/1740/1940	2240
4.4	Lift height	h3 (mm)	2500/3000/3300/3500/4500/5000/5600	6500
4.5	Height, mast extended	h4 (mm)	2955/3455/3755/3955/5030/5510/6110	7050
4.9	Height drawbar in driving position min./max.	h14 (mm)	1150/1450	1150/1450
4.10	Height of wheel arms	h8 (mm)	81	81
4.15	Height, lowered	h13 (mm)	90	90
4.19	Overall length	l1 (mm)	2020(2100)	2100(2180)
4.20	Length to face of forks	l2 (mm)	950	950
4.21	Overall width	b1/b2 (mm)	850	900
4.22	Fork dimensions DIN ISO 2331	s / e / l (mm)	60/180/1070(1150)	60/180/1070(1150)
4.25	Fork spread	b5 (mm)	570/695	570/695
4.32	Ground clearance, centre of wheelbase	m2 (mm)	31	31
4.34.1	Aisle width for pallets 1000 × 1200 crossways	Ast (mm)	2535	2615
4.34.2	Aisle width for pallets 800 × 1200 lengthways	Ast (mm)	2515	2595
4.35	Turning radius	Wa (mm)	1655	1735
PERFORMANCE DATA				
5.1	Travel speed, laden/unladen	km/h	7.0/7.1	7.0/7.1
5.2	Lift speed, laden/unladen	m/s	0.11/0.16	0.11/0.16
5.3	Lowering speed, laden/unladen	m/s	0.12/0.11	0.12/0.11
5.8	Max. gradeability, laden/unladen	%	6/15	6/15
5.10	Service brake		Electromagnetic	Electromagnetic
MOTORS				
6.1	Drive motor rating S2 60 min	kW	1.5(AC)	1.5(AC)
6.2	Lift motor rating at S3 15%	kW	3.0	3.0
6.4	Battery voltage/nominal capacity K5	(V)/(Ah) or kWh	24/300	24/300
6.5	Battery weight	kg	260	260
ADDITIONAL DATA				
10.7	Sound pressure level at the driver's seat	dB (A)	70	70

Read slash-separated and bracketed values in the order shown. Dimensions and weights depend on configuration. Blank cells indicate an unspecified unit.

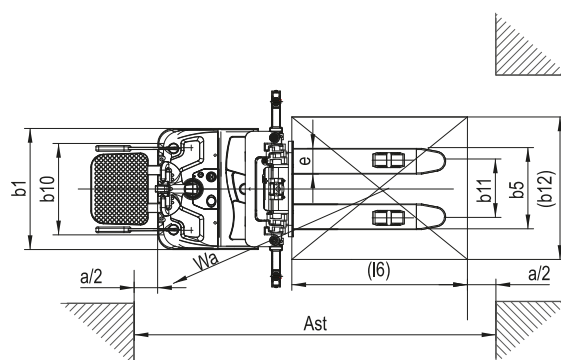
Dimensions & load capacity

EVV20-P

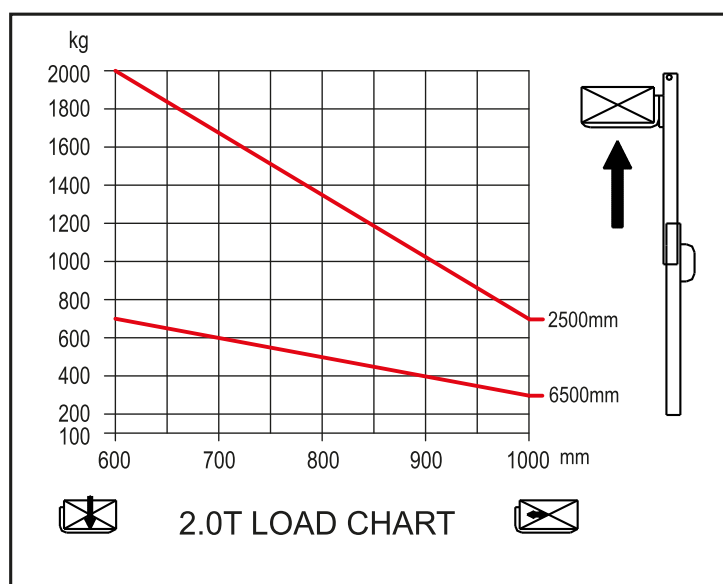
SIDE VIEW



TOP VIEW



RESIDUAL CAPACITY



EXTENDED MAST



Capacity depends on lifting height and load centre. Use the applicable load chart for the selected configuration.

Extended mast illustrated with side stabilizers. Chassis and support arrangement depend on configuration.