



Let's grow together



ES16-16RAS/ES20-20RAS Stand-on  
Electric Stacker 1.6-2t

# Performance

- 1.The innovative AC system offers quick response, accurate control, impact structure, excellent performance, longer battery service life.
- 2.World-class hydraulic power pack, with low noise, few vibration and excellent leak tightness automatically adjusts the rate of decline whether loaded or unloaded, and ensures smooth lifting.
- 3.The latest AC controller , high reliability , with regenerated braking , anti-roll back and adjustable settings , ensures the best performance in the different states.



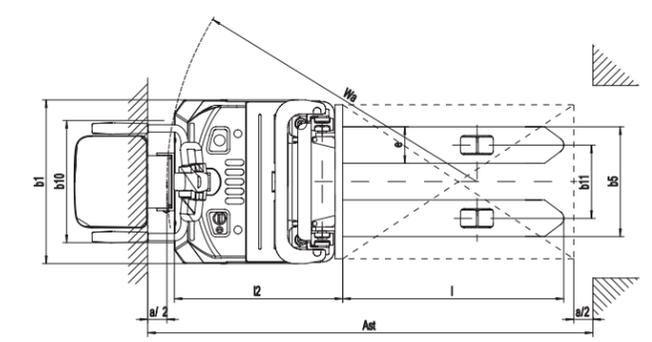
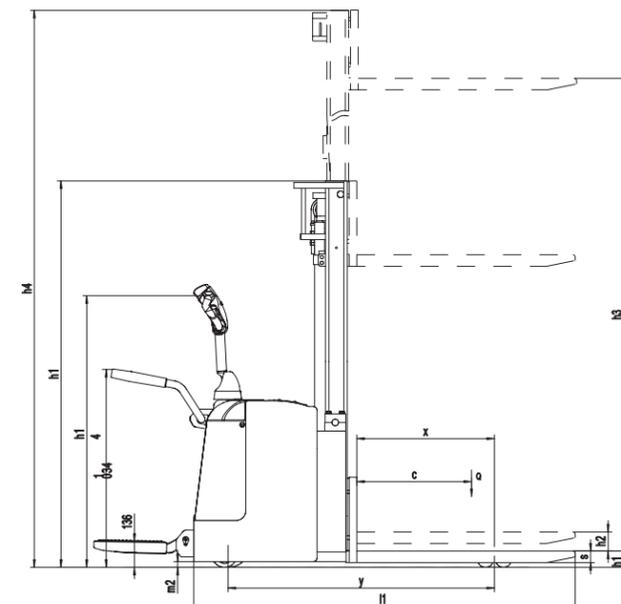
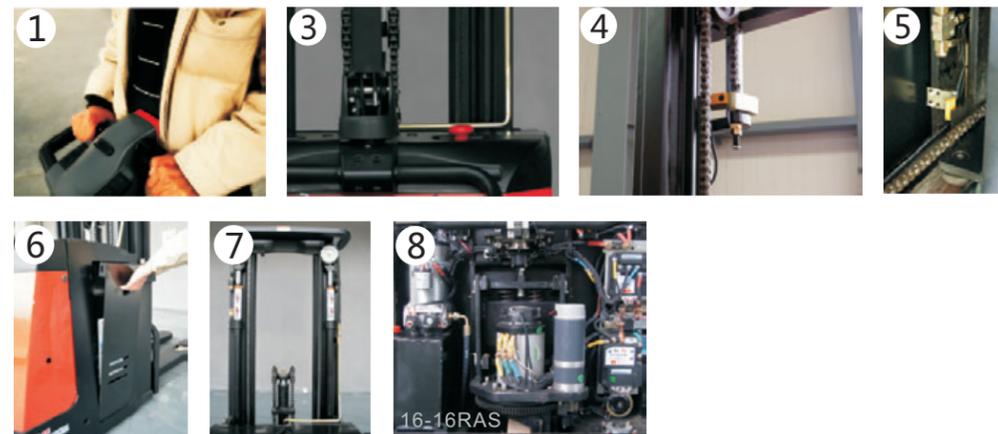
# Seviceability

- 1.American AMP connectors with top quality , prevents moisture and contaminants from interrupting truck operation in all environments , plus all the wires and cables reliably protected and fixed , greatly reduces the electrical error.
- 2.Opening board just with coin, make it easy to check motor, etc.



# Operability and safety

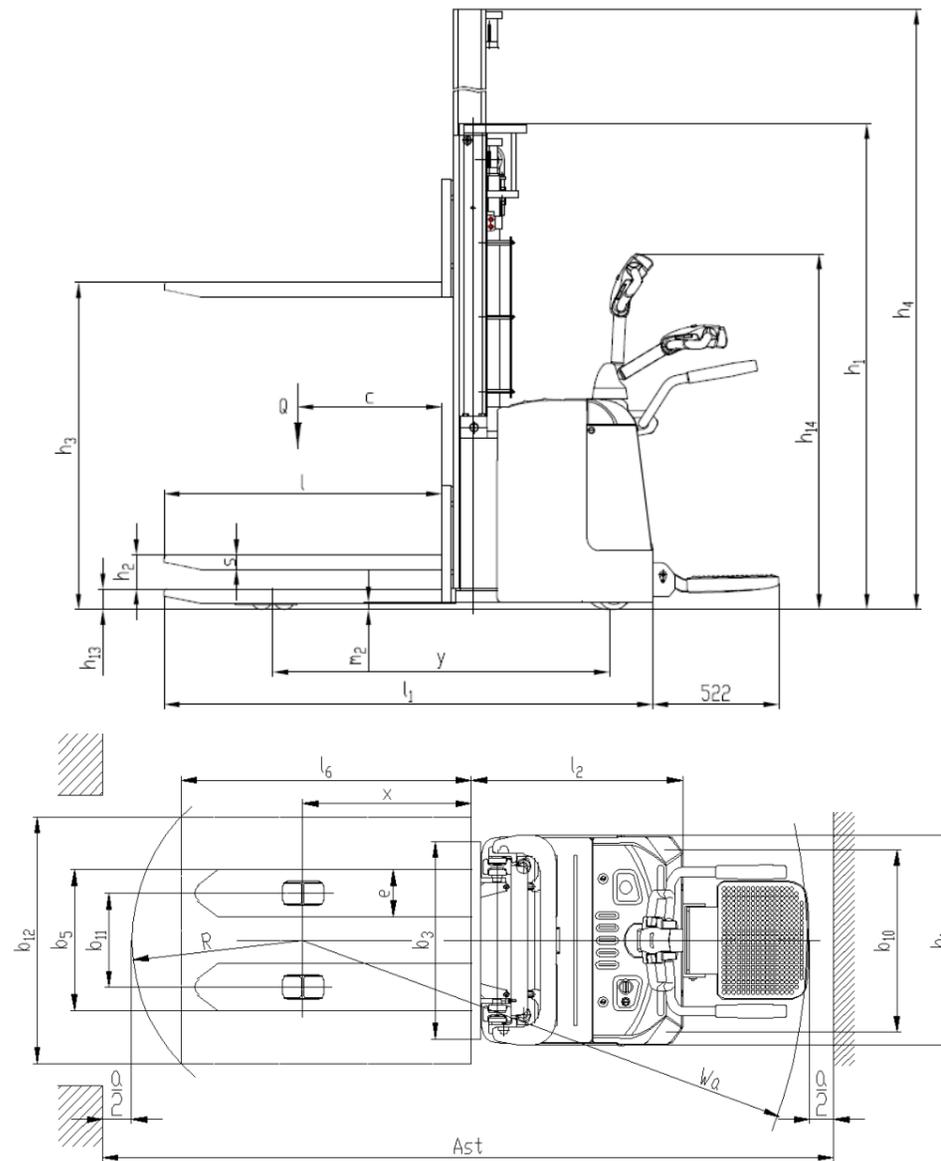
- 1.Anti-roll back available as standard to prevent uncontrolled traveled travel speed or roll-back on ramps when loaded or unloaded.
- 2.Creep speed control enabled when tiller/handle in vertical position allows the operator to work more efficient in a confined space.
- 3.Emergency plug mounted at up-right side on truck frame, all power can be cut off by simply pulling emergency plug and the truck stops immediately.
- 4.Lift limit switch which mounted on top of mast, stops the hydraulic motor at maximum lift height to reduce unnecessary strain on the lift components and preserve battery life.
- 5.The truck switches to low speed mode automatically when lifting higher than 0.5M, more secure.
- 6.Sideways battery extraction as standard to ensure the battery changing simply and efficiently.
- 7.Wider view mast ensures the operator better vision.
- 8.Dual control electric power steering system , quick response , easy control, more safe.for EPT16-16RAS.



V High lift pallet truck and high lift pallet truck with auxiliary lift

a=200mm

1.1	Manufacturer				EP
1.2	Model designation				ES20-20RAS
1.3	Drive unit				Battery
1.4	Operator type				Standing
1.5	rated capacity	Q	lb.	kg	2000
1.6	Load center distance	c	in.	mm	600
1.8	Load distance, centre of drive axle to fork	x	in.	mm	693
1.9	Wheelbase	y	in.	mm	1394
<b>重量 Weight</b>					
2.1	Service weight (include battery)		lb.	kg	1350
2.2	Axle loading, laden driving side/loading side		lb.	kg	1035/2315
2.3	Axle loading, unladen driving side/loading side		lb.	kg	950/400
<b>轮胎, 底盘 Types, Chassis</b>					
3.1	Tyre type Driving wheels/Loading wheels				PU/ PU
3.2	Tyre size, driving wheels (diameterxwidth)		in.	mm	Φ230×75
3.3	Tyre size, loading wheels (diameterxwidth)		in.	mm	Φ85×70
3.4	Tyre size, caster wheels (diameterxwidth)		in.	mm	Φ130×55
3.5	Wheels, number driving, caster/loading (x=drive wheels)		in.	mm	1x +2/4
3.6	Track width, front, driving side	b <sub>10</sub>	in.	mm	634
3.7	Track width, rear, loading side	b <sub>11</sub>	in.	mm	380
<b>尺寸 Dimensions</b>					
4.2	Height, mast lowered	h <sub>1</sub>	in.	mm	2020
4.3	Free lift	h <sub>2</sub>	in.	mm	100
4.4	Lift height	h <sub>3</sub>	in.	mm	2950
4.5	Height, mast extended	h <sub>4</sub>	in.	mm	3465
4.9	Height drawbar in driving position min./max.	h <sub>14</sub>	in.	mm	1150/1480
4.15	Lowered height	h <sub>13</sub>	in.	mm	88
4.19	Overall length	l <sub>1</sub>	in.	mm	2525
4.20	Length to face of forks	l <sub>2</sub>	in.	mm	860
4.21	Overall width	b <sub>1</sub>	in.	mm	850
4.22	Fork dimensions	s/ e/ l	in.	mm	60×190×1150
4.24	Fork carriage width	b <sub>3</sub>	in.	mm	800
4.25	Distance between fork-arms	b <sub>5</sub>	in.	mm	570
4.32	Ground clearance, center of wheelbase	m <sub>2</sub>	in.	mm	28
4.34.1	Aisle width for pallets 1000 × 1200 crossways	A <sub>st</sub>	in.	mm	2610/2971
4.34.2	Aisle width for pallets 800 × 1200 lengthways	A <sub>st</sub>	in.	mm	2580/2941
4.35	Turning radius	W <sub>a</sub>	in.	mm	1738/2099
<b>性能参数 Performance data</b>					
5.1	Travel speed, laden/ unladen		mph	km/ h	5.5/6.0
5.2	Lifting speed, laden/ unladen		fpm	m/ s	0.1/ 0.16
5.3	Lowering speed, laden/ unladen		fpm	m/ s	0.19/ 0.18
5.8	Max. gradeability, laden/unladen		%		8/16
5.10	Service brake type				Electromagneti
<b>电动机 Electric-engine</b>					
6.1	Drive motor rating S2 60 min		hp	kW	1.5
6.2	Lift motor rating at S3 15%		hp	kW	3.0
6.3	The maximum allowed size battery		in.	mm	815×208×630
6.4	Battery voltage/nominal capacity K5		V/ Ah		24/280
6.5	Battery weight		lb.	kg	240
<b>其他数据 Addition data</b>					
8.1	Type of drive unit				AC
10.5	Steering type				Electronic
10.7	Sound pressure level at the driver's ear			dB (A)	74



AST3 
$$A_{st} = W_a + R + a = W_a + \sqrt{(l_6 - x)^2 + \left(\frac{b_{12}}{2}\right)^2} + a$$

