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ROYAL R-SERIES ELECTRIC STACKER

For more intensive applications, Royal R-series models come equipped with a foldable operator platform and safety guides, making them suitable for longer-distances and more demanding operations.

ROYAL R-SERIES ELECTRIC PALLET TRUCK

Royal R-series models are pedestrian trucks with load capacities from 2000 up to 2500 kilograms. The smallest model – the P20 – is ideal for carrying on-board a vehicle as an alternative to a hand pallet truck, whilst the largest – the P25 – makes safe handling of the heaviest palletised loads easy. The Royal R-series models are built for durability, and are easy to operate, makes safe handling of the heaviest palletised loads easily.

EASY TO OPERATE

Royal --- model equipped with the Royal EPS(Electronic Power Steering) system, ensures smooth,progressive control at all times, perfect for use in confined area.

- The ergonomic handle designed to be equally accessible to the right and left hand, all essentials are within fingertip reach.
- The control arm equipped EPS system and offers easy, intuitive operation. The 210° handle rotation makes the P20-P25 an manoeuvrable truck.
- Multi-function display meter,with Hourmeter, BDI(Battery Discharge Indicator) and error indicator on time informs operator of recharge requirments.
- Fork tips are clearly visible from the operating position for extra safety and ease of use.



DESIGN FOR SAFETY

Royal --- two emergency controls: Emergency brake switch and the belly button rounded profile helps it get round the tightest corners,low skirt protects the operator's feet without impeding access to ramps and gradients.

- Easy-Touch Emergency brake switch at up-right side on truck frame, immediately disconnects the drive power and applies the brake to take immediate action for any unexpected situation.
- The belly button on the handle tip, reverses the direction of travel to prevent an operator from being trapped by the truck.
- Built-in pressure relief valve protects the trucks from overload.
- Automatic speed reduction on swerving, it can reduce the accidents due to high travelling speed at a bigger turning angle.
- Safety ramp restraint provides automatic electronic braking that restricts vehicle movement while in neutral, or roll-back on ramps when loading and unloading.
- The foldable platform and safety guides increase operator with safety and reduce fatigue.

SERVICEABILITY

- Controller with self-diagnosis system, makes it easier for trouble-shooting.
- One-piece lightweight cover conveniently bolt on and off for easy access to all major and key components, reducing service time when inspection.
- Battery cover is easy to open, convenient to fill distilled water or electrolyte of the battery.
- AC Drive Motor, brushless, high reliability and performance, drastically reduced maintenance time and labor cost.
- Vertical motor ensures convenience inspection and maintenance of motor and brake, providing much better maintainability than horizontal motor.
- CANbus technology reduce wiring complexity and increase reliability, easy to maintain.

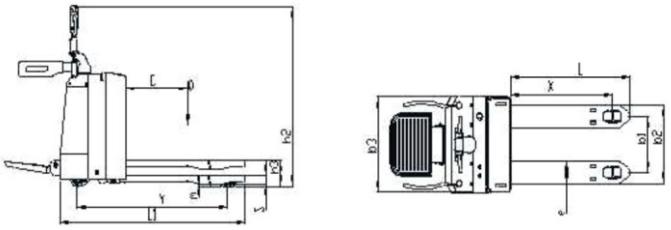


HIGH PRODUCTIVITY & DURABILITY

- High-strength frame design, suitable for tough workplaces, ensures longer service life.
- The P20-P25 has a five-point suspension chassis for optimum stability and control, with castors that rotate within the profile of the truck.
- Imported CURTIS AC controller, industrial grade, with multiple automatic protection, protect the vehicle control from circuit overvoltage, under voltage, over current, excess temperature, Short circuit etc..
- Advanced AC drive system offers quick response with accurate control, excellent performance. Regenerated braking with energy-saving function,improve working efficiency by prolonging working hours.
- World-class hydraulic system with low noise, few vibration and excellent leak tightness, ensures smooth and reliable lifting and lowering.
- Automatic lifting limit, with lifting limit switch to shut off pump motor at max. lifting height, to prevent damage to the motor.

P20-P25

with 2000KGS and 2500KGS capacity, is dedicated to the most labor intensity condition, equipped with a foldable operator platform and safety guides, making them suitable for longer-distances and more demanding operations.



Characteristics			
1.1 Manufacturer	Royal	Royal	Royal
1.2 Model designation	P20	P25	P25
1.3 Drive unit	Battery	Battery	Battery
1.4 Operator type	Stand on	Stand on	Stand on
1.5 Load capacity	Q (kg)	2000	2500
1.6 Load center	c (mm)	600	600
1.8 Wheelbase	y (mm)	1449	1449
Weights			
2.1 Service weight with battery	kg	840	840
Wheels, Chassis			
3.1 Wheel type	Pu	Pu	Pu
3.2 Driving wheel size, operator side	Φ230x75	Φ230x75	Φ230x75
3.3 Bearing wheel size, load side	Φ85x70 (double wheels)	Φ85x70 (double wheels)	Φ85x70 (double wheels)
3.4 Balance wheel size, load side	Φ130x55	Φ130x55	Φ130x55
3.5 Wheels number Driving/Balance/Bearing wheel	1 / 2 / 4	1 / 2 / 4	1 / 2 / 4
Dimensions			
4.4 Lift height	h3 (mm)	120	120
4.9 Height of tiller arm in operating position, min/ max	h14 (mm)	1380	1380
4.15 Fork height, lowered	h13 (mm)	85	85
4.19 Overall length	l1(mm)	1780	1780
4.20 Length to face of forks	l2 (mm)	620(+70folded)(+440unfolded)	620(+70folded)(+440unfolded)
4.21 Overall width	b1 (mm)	735	735
4.22 Fork dimensions	s/ e/ l (mm)	50/ 170/ 1150 (1200)	50/ 170/ 1150 (1200)
4.25 Fork spread, min/ max	b5 (mm)	540/600/685	540/600/685
4.32 Ground clearance, center of wheelbase	m2 (mm)	15	15
4.33 Aisle width, 1000×1200 pallet crossways	Ast(mm)	2046/2435	2046/2435
4.34 Aisle width, 800×1200 pallet lengthways	Ast(mm)	2077/2458	2077/2458
4.35 Outer turning radius	Wa (mm)	1640	1640
Performance			
5.1 Travel speed, laden/ unladen	km/ h	5/6	5/6
5.2 Lifting speed, laden/ unladen	mm/ s	27/35	25/35
5.3 Lowering speed, laden/ unladen	mm/ s	42/27	30/27
5.8 Maximum gradeability, laden/ unladen	%	8/10	8/10
5.10 Service brake		Electromagnetic	Electromagnetic
Drive			
6.1 Drive motor rating S2 60 min.	kW	1.5	1.5
6.2 Lift motor rating at S3 15%	kW	2	2
6.3 Steering motor	kW	0.165	0.165
6.4 Battery voltage/ rated capacity (5h)	V/ Ah	24 / 210	24 / 240
6.5 Battery weight	kg	245	245
Battery compartment dimensions	l/ w/ h mm	610x280x470	610x280x470
Battery type		Industry battery	Industry battery
Others			
8.1 Type of drive control	AC	AC	AC
Manufacturer	CURTIS	CURTIS	CURTIS
8.4 Sound level at operator's ear dB (A)		67	67
8.6 Steering	Power steering	Power steering	Power steering

With 1500KGS capacity, lifting height up to 6M, is dedicated to the most labor intensity condition.

Equipped Royal EPS(Electronic Power Steering) system with foldable operator platform, making them suitable for long distance transporation, designed to be easy to use each day.

EASY TO OPERATE

Royal --- model equipped with the Royal EPS system, ensure smooth, progressive control at all times, perfect for use in confined area. Family design with 1500kgs capacity, lifting height from 2m to 6m, much easier for maintenance and service.

- The ergonomic handle designed to be equally accessible to the right and left hand, all essentials are within fingertip reach.
- The control arm equipped EPS system and offers easy, intuitive operation. The 210°handle rotation makes the S15 an manoeuvrable truck.
- Multi-function display meter,with Hourmeter, BDI(Battery Discharge Indicator) and error indicator on time informs operator of recharge requirments.
- Wider view mast ensures the operator better vision, fork tips are clearly visible from the operating position to reduce the risk of collision, enable the safety and comfort to operator.



DESIGN FOR SAFETY

Royal --- two emergency controls: Emergency brake switch and the belly button rounded profile helps it get round the tightest corners,low skirt protects the operator's feet without impeding access to ramps and gradients.

- Easy-Touch Emergency brake switch at up-right side on truck frame, immediately disconnects the drive power and applies the brake to take immediate action for any emergent happens.
- The belly button on the handle tip, reverses the direction of travel to prevent an operator from being trapped by the truck.
- The truck switches to low speed mode automatically when lifting higher than 0.5m ensures more safety.
- Safety ramp restraint provides automatic electronic braking that restricts vehicle movement while in neutral, or roll-back on ramps when loading and unloading.
- Automatic speed reduction on swerving, it can reduce the accidents due to high travelling speed at a bigger turning angle.
- Explosion-proof valve installed under lifting cylinder, prevent the mast from going down quickly if the oil pipe broken.
- The foldable platform and safety guides increase operator safety and reduce fatigue.

HIGH PRODUCTIVITY AND DURABILITY

- The S15 has a five-point suspension chassis for optimum stability and control, with castors that rotate within the profile of the truck.
- Imported CURTIS AC controller, industrial grade, with multiple automatic protection, protects the vehicle control from circuit overvoltage, under voltage, over current, excess temperature, short circuit etc..
- Advanced AC drive system offers quick response with accurate control, excellent performance. Regenerated braking with energy-saving function, improve working efficiency by prolonging working hours.
- World-class hydraulic system ensures smooth and reliable lifting and lowering.
- Built-in pressure relief valve protects the trucks from overload.
- Automatic lifting limit, with lifting limit switch to shut off pump motor at max. lifting height, to prevent damage to the motor.
- High-strength frame design, suitable for tough workplaces, ensures longer service life.



SERVICEABILITY

- Controller with self-diagnosis system, make trouble-shooting easier.
- One-piece lightweight cover conveniently bolt on and off for easy access to all major and key components, reducing service time when inspection.
- Battery cover is easy to open, convenient to fill distilled water or electrolyte of the battery.
- AC Drive Motor, brushless, high reliability and performance, drastically reduced maintenance time and labor cost.
- Vertical motor ensures convenience inspection and maintenance of motor and brake, providing much better maintainability than horizontal motor.
- CANbus technology reduce wiring complexity and increase reliability, easy to maintain.

Characteristics		
1.1 Manufacturer		Royal
1.2 Model designation		S15
1.3 Drive unit		Battery
1.4 Operator type	Q (kg)	Rider
1.5 Load capacity	c (mm)	1500
1.6 Load center	y (mm)	600
1.8 Wheelbase		1500
Weights		
2.1 Service weight with battery	kg	1110
Wheels, Chassis		
3.1 Wheel type		Pu
3.2 Driving wheel size, operator side		Φ250x65
3.3 Bearing wheel size, load side		Φ80x70 (double wheels)
3.4 Balance wheel size, load side		Φ130x55
3.5 Wheels number Driving/Balance/Bearing wheel		1 / 2 / 4
Dimensions		
4.1 Height, mast lowered	h1 (mm)	2136
4.2 Lift height	h3 (mm)	3000
4.3 Height, mast extended	h4 (mm)	3500
4.4 Fork height, lowered	h13 (mm)	85
4.5 Overall length	l1 (mm)	2100
4.6 Length to face of forks	l2 (mm)	900
4.7 Overall width	b1 b2 (mm)	856
4.8 Fork dimensions	s/ e/ l (mm)	60/ 185/ 1150 (1200)
4.9 Fork carriage width	b3 (mm)	700/ 700/ 953
4.10 Fork spread, min/ max	b5 (mm)	570/ 685
4.11 Ground clearance, laden, below mast	m1 (mm)	25
4.12 Ground clearance, center of wheelbase	m2 (mm)	25
4.13 Aisle width, 1000x1200 pallet crossways	Ast (mm)	2160/ 2540
4.14 Aisle width, 800x1200 pallet lengthways	Ast (mm)	2130/ 2520
4.15 Outer turning radius	Wa (mm)	1650
Performance		
5.1 Travel speed, laden/ unladen	km/ h	6/ 5.5
5.2 Lifting speed, laden/ unladen	mm/ s	115/ 125
5.3 Lowering speed, laden/ unladen	mm/ s	120/ 110
5.4 Maximum gradeability, laden/ unladen	%	5/ 7
5.5 Service brake		Electromagnetic
Drive		
6.1 Drive motor rating S2 60 min.	kW	1.5
6.2 Lift motor rating at S3 15%	kW	3
6.3 Steering motor	kW	0.165
6.4 Battery voltage/ rated capacity (5h)	V/ Ah	24/ 210
6.5 Battery weight	kg	190
Battery compartment dimensions	l/ w/ h mm	650x248x550
Battery type		Industry battery
Others		
8.1 Type of drive control		AC
Manufacturer		CURTIS
8.2 Sound level at operator's ear dB (A)		70
8.3 Steering		Power steering

- The ergonomic handle designed to be equally accessible to the right and left hand, all essentials are.
- The specification in the table are for standard models only. For further information please contact us.
- Specification are subject to change without notice.

