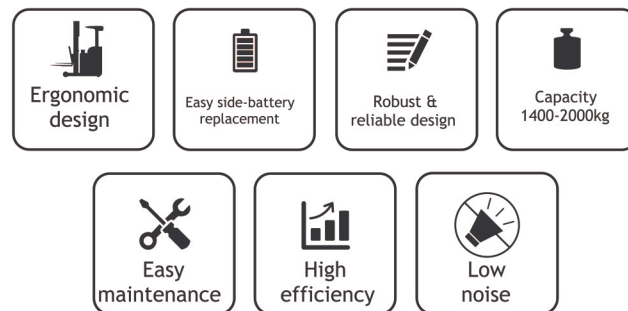


# R14/R16/R20

## R Series Reach Truck

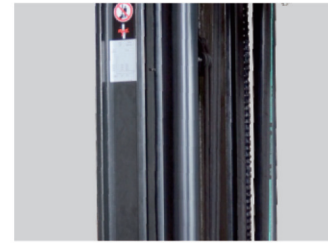
### With capacity 1400/1600/2000 kg

RT series Sit-on Reach Truck is a high performance truck with high efficiency and excellent safety. It is design to cope with the most demanding stacking operations for goods between 1400kg and 2000kg with maximum lift height up to 8m or 10.5m. Equipped with intelligent system and integrated with safety components to ensure the most efficient operations in big warehouses.

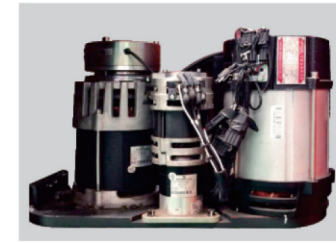


#### Advantages:

- Smart and easy side-battery replacement
- Excellent ergonomic design
- High stability without loss-of-load until 5.3m
- Easy and efficient maintenance
- Mast buffering for lowering for safety and reliability
- Low energy consumption with high performance
- Top brand key components ensures excellent performance
- Fast speed of travelling and lifting/lowering
- Extremely small turning radius and aisle width



Germany-imported HOESCH channel steel mast for excellent stability.



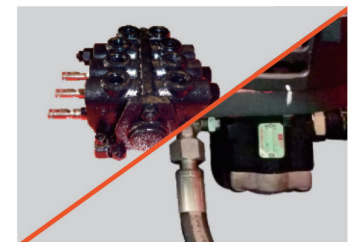
German Schabmuller Drive motor and steering motor.



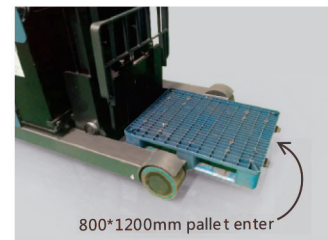
American Curtis Controller for smooth and smart control with diagnosable signals.



Germany -imported ZF gear box for excellent acceleration.



Japanese Shimadzu Multi Control Valve for accurate and safe control of the hydraulics.



#### High Efficiency

The inner diameter of the legs allows the 800x1200mm pallet enter, no need to reach forward to lower the pallet to the ground



#### High capacity battery with low energy consumption

The inner diameter of the legs allows the 800x1200mm pallet enter, no need to reach forward to lower the pallet to the ground DIN Standard High Capacity battery optional 360/40/480/600AH, low energy consumption with approximately 2.52 kwh/h, 20% energy saving comparing to competitors



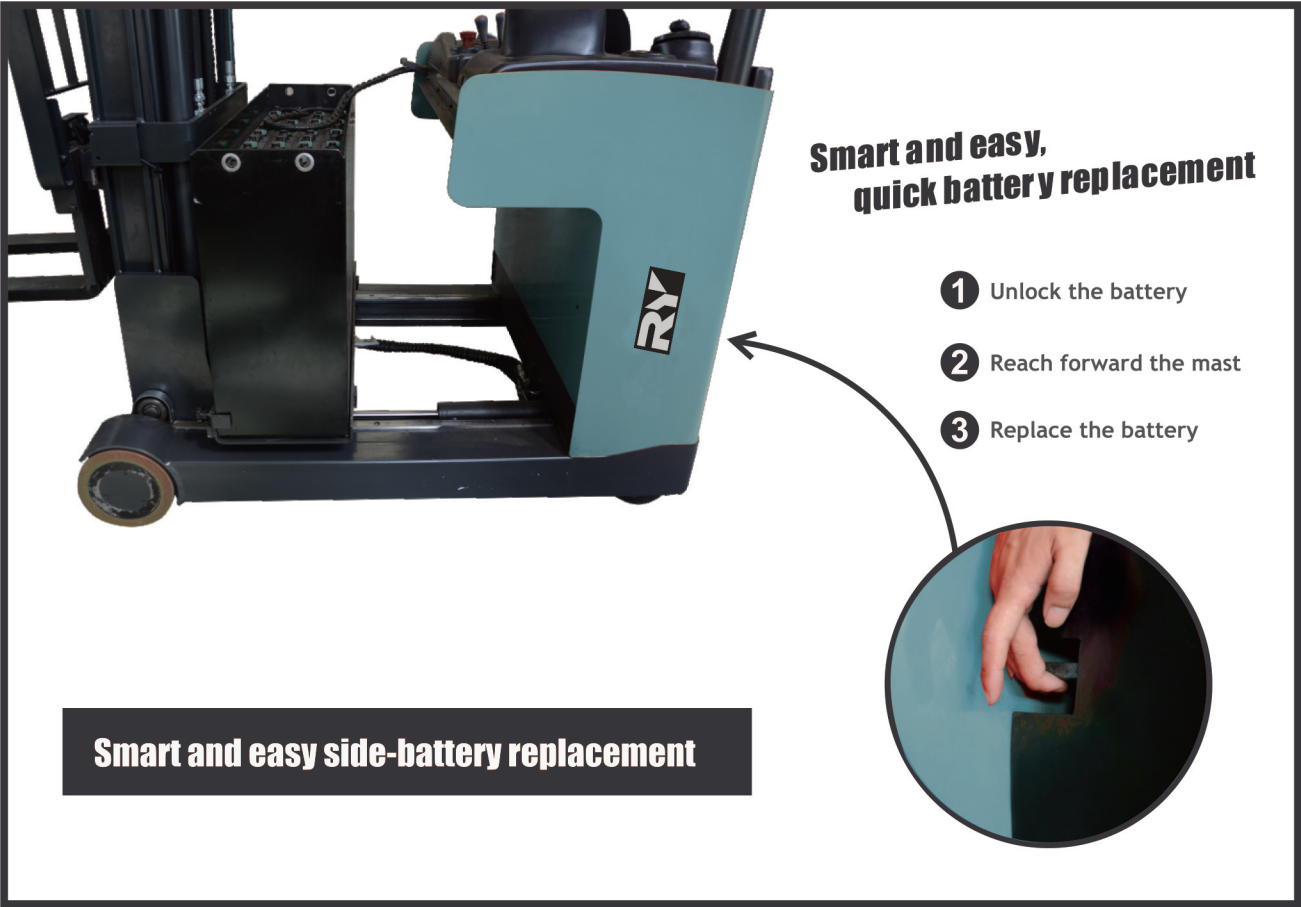
#### Ergonomic design

Comfortable adjustable seat allows the operator to find the best position and reduce fatigue for long time operation, overhead guard gives operator protection as well as



Mast table R series

R20				
Designation	Lift height h3 mm	Free lift height h2 mm	Lowered mast height h1 mm	Extended mast height h4 mm
Two-stage mast	2500	140	1830	3415
	2700	140	1930	3615
	3000	140	2080	3915
	3300	140	2230	4215
	3600	140	2380	4515
	4000	140	2580	4915
	4500	140	2830	5415
Three-stage mast FFL	4500	1254	2167	5415
	5000	1420	2335	5915
	5300	1520	2435	6215
	5500	1585	2502	6415
	5800	1685	2602	6715
	6000	1755	2667	6915
	6500	1920	2835	7415
	7000	2095	2992	7915
	7500	2255	3167	8415
	8000	2420	3335	8915
	8500	2585	3502	9415
	9000	2755	3667	9915
	9500	2920	3835	10415
	10000	3085	4002	10915
	10500	3255	4167	11415



Type sheet for industrial truck acc. to VDI 2198 1KG=2.2LB 1INCH=25.4MM

Distinguishing mark	1.1	Brand		ROYAL	ROYAL	ROYAL
	1.2	Manufacturer' type designation		R20	R16	R14
	1.3	Drive(electric,diesel,petrol,gas,main electric)		Battery	Battery	Battery
	1.4	Type of operation(hand,pedestrian,stand on,rider picker)		Seated	Seated	Seated
	1.5	Load capacity/rated load	Q (t)	2.0	1.6	1.4
	1.6	Load center distance	c (mm)	600	600	600
	1.8	Load distance,centre of drive axle to fork	x (mm)	180	180	180
	1.9	Wheelbase	y (mm)	1500	1400	1350
	1.9	Wheelbase	y (mm)	1500	1400	1350
Weight	2.1	Service weight incl.battery	kg	3400	3000	2900
	2.3	Axle loading,unladen front/rear	kg	2200/1200		
	2.4	Axle loading,fork advanced,laden front/rear	kg	600/4800		
	2.5	Axle loading,fork retraced,laden front/rear	kg	1900/3500		
Tyres, chassis	3.1	Tyres(solid rubber,superelastic,pneumatic,polyurethane)		Polyurethane (PU)	Polyurethane (PU)	Polyurethane (PU)
	3.2	Tyres size,front	φxW (mm)	313 × 125	313 × 125	313 × 125
	3.3	Tyres size,rear	φxW (mm)	267 × 135	267 × 135	267 × 135
	3.5	Wheels,number rear /front (x=driven wheels)		2/1x	2/1x	2/1x
	3.7	Track width ,rear/front	b11 (mm)	1124	1124	1124
Dimensions	4.1	Mast/fork carriage tilt forward/backward	α/β (°)	2/4	2/4	2/4
	4.2	Lowered mast height	h1 (mm)	2335	2335	2335
	4.3	Free lift	h2 (mm)	1420	1420	1420
	4.4	Lift height	h3 (mm)	5000	5000	5000
	4.5	Extended mast height	h4 (mm)	5915	5915	5915
	4.7	Overhead load guard(cab)height	h6 (mm)	2160	2160	2160
	4.19	Overall length	l1(mm)	2350	2285	2260
	4.20	Length to face of forks	l2 (mm)	1280	1215	1190
	4.21	Overall width	b1 (mm)	1260	1260	1260
	4.22	Fork dimensions	s/e/l (mm)	40/120/1070	35/100/1070	35/100/1070
	4.25	Width over forks (min/max)	b5 (mm)	240/760	200/760	200/760
	4.28	Reath distance	l4 (mm)	630	600	570
	4.31	Ground clearance	m1 (mm)	75	75	75
	4.34	Aisle width for pallets 800X1000 cossways	Ast (mm)	2790	2730	2700
	4.35	Turning radius	Wa (mm)	1750	1655	1600
	4.37	Length across wheel arms	l7 (mm)	1865	1765	1700
Performance data	5.1	Travel speed,laden/unladen	km/h	10.5/10.5	10.5/10.5	10.5/10.5
	5.2	Lift speed,laden/unladen	m/s	0.27/0.38	0.27/0.38	0.27/0.38
	5.3	Lowering speed,laden/unladen	m/s	0.35/0.35	0.35/0.35	0.35/0.35
	5.4	Reath speedm,laden/unladen	m/s	0.1/0.1	0.1/0.1	0.1/0.1
	5.8	Max.gradient performance,laden/unladen	%	10/15	10/15	10/15
	5.10	Service brake		Electric	Electric	Electric
Electric- engine	6.1	Drive motor rating S2 60 min	kW	6.4	6.4	6.4
	6.2	Lift motor rating at S3 15%	kW	12.5	12.5	12.5
	6.3	Battery acc.to DIN 43531/35/36 A,B,C,no		A, 4Pzs	A, 4Pzs	A, 4Pzs
	6.4	Battery voltage,nominal capacity K5	V/Ah	48/480~600	48/360~450	48/360~450
	6.5	Battery weight	kg	939	750	750
Additional data	8.1	Type of drive control		AC-Speed Control	AC-Speed Control	AC-Speed Control
	8.2	Operating pressure for attachments	(bar)	150	150	150
	8.3	Oil volume for attachments	l/min	38	35	35
	8.4	Sound level at driver's ear according to EN 12053	dB(A)	<70	<70	<70

