



BYD FORKLIFT

**RTR16**

REACH TRUCK  
WAREHOUSE SERIES

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**NEW ENERGY FORKLIFT LEADER**

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## AVAILABLE FEATURES

### Safety

- Electric braking system
- Slope protection
- Turning speed limit
- Programmable automatic speed limit
- Multi-functional seat with safe belt
- High loading position speed protection
- Overload protection
- Power-off protection
- Charger protection
- Strobe light and reversing alarm
- Front-rear movement buffer
- Cylinder lifting end buffer
- Cylinder lowering speed limit
- Operator Presence Sensing
- LED headlights

### Performance

- Iron-phosphate battery
- AC drive system
- AC hydraulic lift system
- Small turning radius
- Battery rapid charging & opportunity charging
- Programmable performance
- Digital (LCD) multifunction display
  - Time & date
  - OPS time accumulator
  - Battery capacity indicator
  - Over-discharge warning (lift interrupt)
  - Parking brake indicator
- Direction indicator
- Maintenance indicator
- Height & weight indicator
- Error code alarm
- Built-in analyzer
- Self-diagnostics

### Operability & Ergonomics

- Strategically configured instrument
- Electric directional shift control
- Automatic fork-leveling control
- Seat-mounted finger-switch Hydraulic Controls
- Dash-mounted cup holder
- Dash-mounted USB port
- Heavy-duty slip-resistant floor mat
- Parking brake alarm

### Serviceability

- AC drive motor (no brushes or commutator)
- AC hydraulic motor (no brushes or commutator)
- Charging port analyzing connection
- Easy-access no-tools floorboard
- Maintenance - free sealling battery case
- Easy-lift battery hood
- Hydraulic fluid level check
- Easy-access controllers
- CAN-bus controller wiring

## OPTIONAL EQUIPMENT

### Load Handling (Wide visible mast)

- Standard lift 2-stage mast (Duplex standard)
- Full free-lift 3-stage 3-cylinder mast (Triplex FFL)
- Lifting buffer
- Customized fork
- Customized load backrest
- Customized fork sleeve

### Load Handling (Hose & Valve Assembly)

- 3-way valve achieve 4 functions
- Cascade hang-on side shifter
- Forward/backward shifting

### Lights & Indicators

- Front & rear headlight
- Strobe light
- LED Distance Warning spot Light
- LED Distance Warning laser Light
- Back up buzzer

### Body

- Operator presence sensing unit
- Fork camera
- USB port
- Panoramic rearview mirror
- Hydraulic weighing & display
- Overload protection
- Fan
- Fire extinguisher
- Special key

### Wheels & Tires

- Standard polyurethane wheel
- Anti-skid wheel

**REACH TRUCK SPECIFICATIONS**

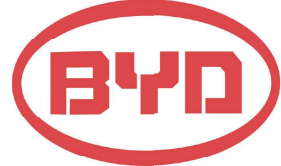
Characteristic	Manufacturer			BYD		
	Model			RTR16		
	Power Unit			Electric		
	Operation			Seat		
	Load Capacity	Q	lbs	kg	3527	1600
	Load Centre	c	in	mm	24	600
	Axle Centre To Fork Face ( Mast extended/retrieved )	x	in	mm	7/16	188/400
	Wheel Base	y	in	mm	58	1470
Weights	Service Weight		lbs	kg	8973	4070
	Axle Load, Fork Outreached, With load, Front/rear		lbs	kg	1649/1085	1748/4922
	Axle Load, Fork Retracted, With Load, Front/rear		lbs	kg	4709/7791	2136/3534
	Axle Load, Fork Retracted, Without Load, Front/rear		lbs	kg	3682/5291	1670/2400
	Axle Load, Fork Outreached, Without Load, Front/rear		lbs	kg	5331/3642	2418/1652
Wheels	Tyre Rubber, SE, Pneumatic, Polyurethane			Polyurethane		
	Tyre Size, Front			Φ343×136		
	Tyre Size, Rear			Φ340×100		
	Auxiliary Wheels (Dimensions)			-		
	Wheels, Number Front/rear (x = driven)			1x/2		
	Track Width, Front	b10	in	mm	-	
	Track Width, Rear	b11	in	mm	46	1170
Dimensions	Mast/fork Carriage Tilt, Forward/backward	α/β	(°)	(°)	2/4	
	Height Of Mast, Lowered	h1	in	mm	111	2811
	Free Lift	h2	in	mm	63	1611
	Lift	h3	in	mm	254	6450
	Height Of Mast, Extended	h4	in	mm	303	7696
	Height Of Tiller Arm In Operating Position, Min/max	h14	in	mm	-	
	Height Of Overhead Guard (Cabin)	h6	in	mm	92	2345
	Height Of Seat/stand On Platform	h7	in	mm	40	1020
	Height Of Reach Legs	h8	in	mm	14	360
	Fork Retracted Height	h13	in	mm	0.5	12
	Overall Length	l1	in	mm	101	2555
	Length To Fork Face	l2	in	mm	53	1355
	Overall Width	b1	in	mm	50	1270
	Fork Dimensions	s/e/l	in	mm	2/4/47	40/100/1200
	Fork Carriage To ISO 2328, Class/type A, B				2A	
	Width Of Fork Carriage	b3	in	mm	29	730
	Fork Spread, Min/max	b5	in	mm	17/27	430/678
	Width Between Reach Legs	b4	in	mm	37	930
	Reach Travel	l4	in	mm	23	588
	Ground Clearance, Below Mast	m1	in	mm	3	73
	Ground Clearance, Centre Of Wheelbase	m2	in	mm	3	80
	Aisle Width With Pallet 1000 x 1200 Across Forks	Ast	in	mm	112	2848
	Aisle Width With Pallet 800 x 1200 Along Forks	Ast	in	mm	114	2904
	Turning Radius	Wa	in	mm	69	1758
Length Of Chassis	l7	in	mm	76	1930	
Performance	Travel Speed, With/without Load		mph	Km/h	8/8	13/13
	Lifting Speed, With/without Load		ft/min	mm/s	75/134	380/680
	Lowering Speed, With/without Load		ft/min	mm/s	108/108	550/550
	Reach Speed, With/without Load		ft/min	mm/s	35/35	180/180
	Mast Retrieve Speed, With/without Load		ft/min	mm/s	35/35	180/180
	Maximum Climbing Ability, with/without Load		%	%	12/12	
	Service Brake				Electro-magnetic / hydr.	
Drive	Drive Motor, 60 Minute Rating		HP	kW	9	6.8
	Lift Motor, Rating at S3 15%		HP	kw	16	12
	Battery Voltage/rated Capacity		V/Ah	V/Ah	80/270	
	Battery Weight		lbs	kg	937	425
Others	Type Of Drive Control				AC	
	Operating Pressure For Attachments		bar	bar	210	
	Noise Level At Operator's Ear		dB(A)	dB(A)	≤75	



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**MAST SPECIFICATIONS**

RTR16	Maximum Fork Height (h3)	With Standard Load backrest (h2)	Lowered (h1)	Extended with standard Load backrest (h4)	h8	FWD( $\alpha$ )	BWD( $\beta$ )	Load capacity at 20 inch (510mm) load center
	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	deg	deg	lbs (kg)
<b>Standard Mast</b>	106(2700)	2(40)	78(1971)	155(3946)	47(1200)	2°	4°	\
	118(3000)	2(40)	84(2121)	167(4246)	47(1200)	2°	4°	3527(1600)
	138(3500)	2(40)	93(2371)	187(4746)	47(1200)	2°	4°	\
	150(3800)	2(40)	99(2521)	199(5046)	47(1200)	2°	4°	\
	157(4000)	2(40)	103(2621)	207(5246)	47(1200)	2°	4°	\
	177(4500)	2(40)	113(2871)	226(5746)	47(1200)	2°	4°	\
	189(4800)	2(40)	119(3021)	238(6046)	47(1200)	2°	4°	\
197(5000)	2(40)	123(3121)	246(6246)	47(1200)	2°	4°	\	
<b>Three- Stages Fully Free Mast</b>	209(5300)	2(40)	129(3271)	258(6546)	47(1200)	2°	4°	\
	177(4500)	38(961)	85(2161)	226(5746)	47(1200)	2°	4°	\
	189(4800)	42(1061)	89(2261)	238(6046)	47(1200)	2°	4°	\
	201(5100)	46(1161)	93(2361)	250(6346)	47(1200)	2°	4°	\
	219(5550)	52(1311)	99(2511)	268(6796)	47(1200)	2°	4°	\
	236(6000)	58(1461)	105(2661)	285(7246)	47(1200)	2°	4°	\
	254(6450)	63(1611)	111(2811)	303(7696)	47(1200)	2°	4°	3527(1600)
	266(6750)	69(1761)	117(2961)	315(7996)	47(1200)	2°	4°	\
	283(7200)	75(1911)	122(3111)	333(8446)	47(1200)	2°	4°	3197(1450)
	301(7650)	81(2061)	128(3261)	350(8896)	47(1200)	2°	4°	\
	319(8100)	87(2211)	134(3411)	368(9346)	47(1200)	2°	4°	\
335(8500)	90(2296)	138(3496)	384(9746)	47(1200)	2°	4°	2425(1100)	



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