



Anhui Royal Forklift CO., LTD.

www.ryforklift.com

Add / No.18, Xingye Road, Baochanshan Industrial Park, Ma'anshan City, Anhui Province, P.R. China 238100
 TEL / (86)512-65916195 FAX / (86)512-65915205 Email / info@ryforklift.com

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Royal Rough Terrain
 Diesel Forklift Truck

2.0-3.5ton





ROYAL R-SERIES ROUGH TERRAIN FORKLIFTS

Are a reliable, versatile and easy-to-use solution.

Ideal for virtually any rehandling environment from docks to yards, special events, timber forestry, construction sites and builders' merchants etc..

Our R-series are designed for high mobility and superb productivity in rough terrain area.

ROUGH TERRAIN SPECIALIST

- 2- wheel drive models
- Capacity 2000 kgs to 3500 kgs
- Lifting height from 3m to 6m

OPTIONAL EQUIPMENT

Mast Variations

3-Stage Full Free Mast

Valve & Pipe

3rd Valve & Pipe/4th Valve & Pipe

Attachment

Cabin & Heater & Air Conditioner
Widen Carriage and Backrest
Hand Brake Alarming Device
Finger Tip Control System
Seat Belt Alarming Device
Special Attachment
Fire Extinguisher
Suspension Seat
Fork Positioner
Extended Forks
Side Shifter

Productivity

Bar Type Forks & Load Backrest
2-Stage 3m Wide View Mast
Large Volume Water Tank
Large Exhaust Window
2nd Valve and Pipe
Engine Cover Lock
NOK Seals

STANDARD EQUIPMENT

Driverability

Adjustable Steering Wheel
Suspension Chassis
Luxurious Floor Mat
Large Floorboard
Double Air Filter
Cup Holder

Safety

Multi-Functional Combined Switch
Mast Intelligent Buffering System
Multi-Functional Safe Seat
Buzzer & Electric Horn
Front Combined Lamp
Rear Combined Lamp
Reverse Alarm Light
Rearview Mirror

COMFORT & ERGONOMICS

Ergonomic Designed Operation Handler

Right Positioned Operation Handler decreases much more tiredness from continuous operation, providing the operator with the best comfort and better visibility.



Excellent Visibility

- Newly designed backrest and fork carriage with excelled fork tip visibility
- Newly designed overhead guard with wide upward visibility
- Super Wide view mast with hidden hose design dramatically improves the front and lifting visibility, ensures the safety of operation.
- The side angle designed counter weight clearly views the surroundings



Low Vibration & Noise

Fully suspension chassis and engine technology is completely applied to RY forklift. Divide-body design of chassis with rubber mouting between the unitary overhead guard and chassis,full floating dampng device of engine, turning bridge connected flexibly and full-curve acoustic absorption, totally reduce the vibration and noise by 30% compared to conventional forklifts.With this design, it can benefit in protecting the operator and improve the operation comfort entirely.



ⓐ Suspension

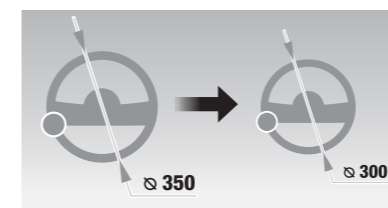
Compared with conventional forklifts,suspension cab design can lower 30% vibration during driving.

ⓑ Powertrain Suspension

Powertrain suspension structure limits the vibration from operation system,it can significantly reduce drivers fatigue.

Smaller Steering Wheel

300mm Smaller Steering Wheel,easy to operate and reduce the operator's arm and shoulder's workload.



Enlarged Operation Space with adjustable

steering wheel and adjustable Toyota style seat, provides operators with a surprisingly comfortable way to enjoy each working minute.



COMFORT & ERGONOMICS

Multifunctional LCD Display Meter Panel

The large and easy-to-see Multifunctional LCD Display Meter Panel can have the operator check on all operational status at a glance, and meet the standard of rain-proof and dust proof level.



New Brake System



The productivity has been enhanced. Ergonomics suspension brake system to increase the braking effect and safety.

PRODUCTIVITY & PERFORMANCE

Engine

Royal rough terrain forklifts adopt Yanmar 4TNE98 engine, produces its peak power (42.1kW) and torque (206Nm) at engine speeds as low as 1700rpm for great responsiveness. Timed glow plug could start in cold climates allows faster warm up and fuel savings.



Transmission

Power shift transmission with torque convertor features two (2) pedal inching and brake control and full reversal allowing faster cycle times. The limited slip differential is specifically designed for rough terrain features automatic differential lock providing ultimate traction during inclement weather conditions and rough operating surfaces.



Tyre

Royal rough terrain forklift front tyre are a special heavy truck tyre with a wide footprint giving it a greater stability and lift capacity in rough work environments.



High Ground Clearance

High ground clearance offers greater maneuverability and keeps the machine moving in the roughest applications. Max. Gradeability (full load) T25Y-20% T35Y-16%



Steer Axle

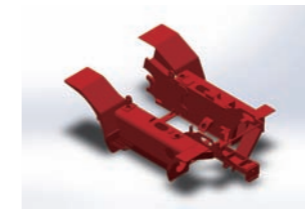
Oscillating steer axle allows either wheel to step over obstacles keeping the machine and load level. Floatation drive & steer tires provide excellent traction and stability. The steering angle is from 54° to 78° with very small turning radius.



SAFETY OPERATION

Integral Heavy Duty Chassis

An integral heavy duty chassis provides the driver with 20% more protection from falling loads.



System of Active Stability

With the SAS, the wheel and tyre can be provided from swerving up and down according to the working condition to stay stability.



Mast Self-locking Device (Option)

For conventional forklifts, when mast extended and powered off, the operator can still lower the mast. For RY forklift, with optional mast self-locking device, the forklift will be locked and lifting & lowering can not be operated in order to avoid from some unexpected accidents.



Mast Intelligent Buffering System



With intelligently declining buffer sensor on the two ends of the cylinder, the falling speed of the fork slows down automatically before it is 10cm from the ground, and the lifting speed to the top also slows down to avoid quick hit on the top, it super increases the safety of the goods and forklifts.

Operator Presense Security System (Option)

With operator presense security system, RY forklift can have the forklift stop moving forward when the operator leaves the seat which ensure the safety of goods and people around at emergency situation.



Parking Brake Warning Buzzer (Option)



An automatic-style parking brake ensures of the convenience and safety. With a warning buzzer sounding when the operator leaves the seat without setting the park brake.

EASY TO MAINTENANCE



Newly Designed Engine Cover Structure

With stronger and high intensity spring, the newly designed engine cover can be open at 75 degree to provide super wide space for inspection and service.

Easy Service & Maintenance Design

The bolt mounted foot step cover can be easily taken off to do inspection and service.



Reliable Hydraulic System



With reliable international standard of hydraulic design and components, the hydraulic components are with high durability which can lower the cost in repair and replacement.

Central Integrated Electric System

The central integrated design of the electric system make the service to be more easier and faster.



Easy to Fill Diesel and Hydraulic Oil



It's easy to get to the diesel tank on one of our new forklift and it can be filled from ground level. The hydraulic tank is easily accessible and can be filled from ground level.

RELIABLE RY FORKLIFT

Reliable Forklift Quality



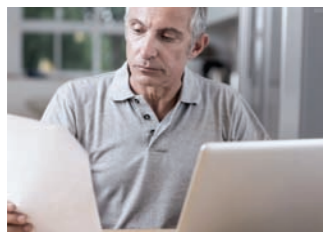
With the international testing standard, more reliable supplier chain, higher quality control to ensure the stability and quality of forklifts.

Experienced Support Team



There are very experienced technical support team in RY forklift to provide professional training to clients from different country.

Comprehensive Parts Supply System

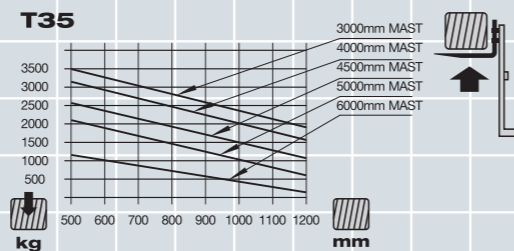
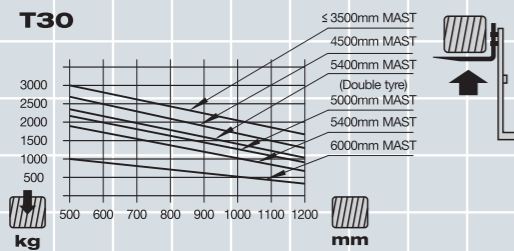
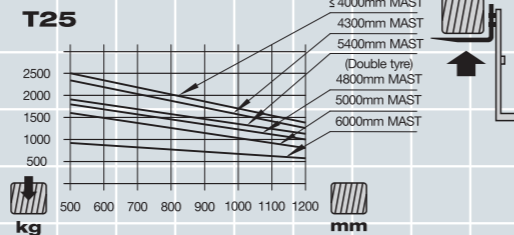
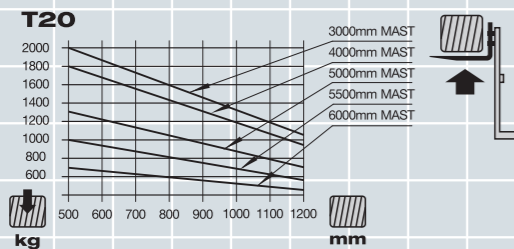
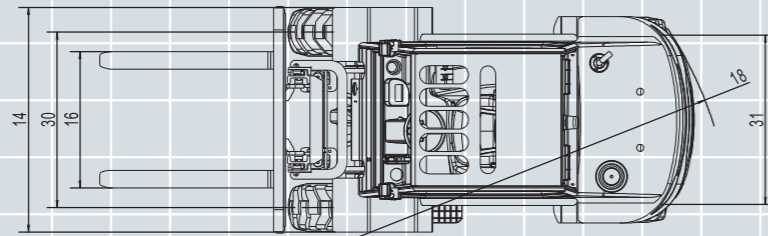
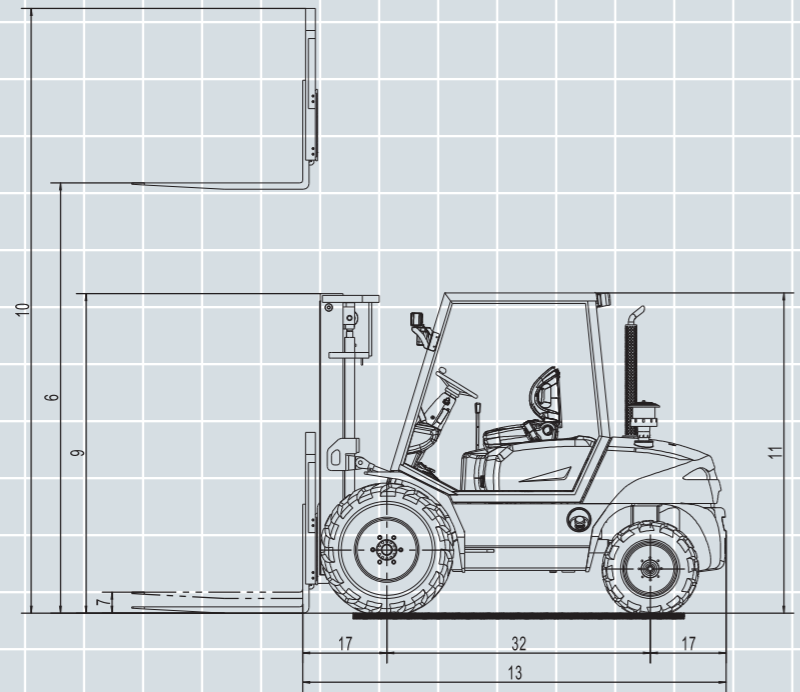


Parts supply system complied with multi-functional parts warehouse and I-NET system, RY forklift can provide clients with different type spare parts in time and accuracy.

Perfect After Sales Service System

With perfect after sales service and I-NET system, RY forklift can analyze each forklift issue easier, faster and more accurate.





GENERAL	1	Manufacturer	RY	RY	
	2	Model	T20Y/T25Y	T30Y/T35Y	
	3	Power Type	Diesel	Diesel	
	4	Rated Load Capacity	kg	2500	3500
	5	Load Centre	mm	500	500
CHARACTERISTIC & DIMENSION	6	Rated Lift Height	mm	3000	3000
	7	Free Lift Height	mm	140	150
	8	Mast Tilt Angle (F/R, $\alpha^\circ / \beta^\circ$)	Deg	10°/12°	10°/12°
	9	Mast Lowered Height	mm	2270	2270
	10	Mast Extended Height (With Backrest)	mm	4335	4335
	11	Overhead Guard Height	mm	2225	2275
	12	Ground Clearance (Bottom of Mast)	mm	270	270
	13	Length to Face of Fork (Without Fork)	mm	2889/2991	2997/3001
	14	Overall Width	mm	1600	1600
	15	Fork Size (LxWxT)	mm	1220x125x40	1220x125x50
	16	Fork Overhang (Wheel Center to Fork Face)	mm	586	606
	17	Rear Overhang	mm	540	540
	18	Turning Radius (Outside)	mm	2785	2785
19	"Min.Right Angle Stacking Aisle Width (Add Load Length and Clearance)"	mm	4750/4800	4805/4810	
PERFORMANCE	20	Travel Speed (No Load)	km/h	20	22
	21	Travel Speed (Full Load)	km/h	18	22
	22	Lifting Speed (Full Load)	mm/sec	570	450
	23	Lowering Speed (Full Load)	mm/sec	445	500
	24	Max.Drawbar Pull (Full Load)	KN	17	17
	25	Max.Gradeability (Full Load)	%	20	16
	26	Service Brake (Operation/Control)		Foot/Powershift	Foot/Powershift
27	Parking Brake (Operation/Control)		Hand/Mechanical	Hand/Mechanical	
CHASSIS	28	Tyre (Front x 2)	mm	12-16.5-14PR	14-17.5-14PR
	29	Tyre (Rear x 2)	mm	23x9-10-12PR	27X10-12-12PR
	30	Front Tread	mm	1250.5	1250.5
	31	Rear Tread	mm	1205	1205
	32	Wheelbase	mm	1880	1880
WEIGHT	33	Total Weight	kg	4250/4465	4950/5180
	34	Front Axle Weight Distribution (Full Load)	kg	5990	7630
	35	Rear Axle Weight Distribution (Full Load)	kg	975	1050
	36	Front Axle Weight Distribution (No Load)	kg	1785	2070
	37	Rear Axle Weight Distribution (No Load)	kg	2680	3110
POWER & TRANSMISSION	38	Battery	V/Ah	12/90	12/90
	39	Engine Model		4TNE98-BQFLC	4TNE98-BQFLC
	40	Engine Manufacturer		YANMAR	YANMAR
	41	Rated Output / r.p.m.	kw	42.1/2300	42.1/2300
	42	Rated Torque / r.p.m.	N-m	186-206/1700	186-206/1700
	43	No.of Cylinder		4	4
	44	Bore x Stroke	mm	98x110	98x110
	45	Displacement	cc	3.318	3.318
	46	Fuel Tank Capacity	L	65	65
	47	Transmission Type		YQXD30-XH	YQXD40MKS-XH
	48	Transmission Stage (FWD/RVS)		1/1	1/1
	49	Operating Pressure (For Attachments)	Mpa	17.5	17.5

* Specifications and characteristics are subject to change without notice.

Please contact us for detailed information.

RY Forklift retains the right to interpret.