



**NEW!**

**LOW PROFILE 2.5 TONNE ROUGH TERRAIN FORKLIFT  
1990MM OVERALL HEIGHT**



**ROYAL R-SERIES ROUGH TERRAIN  
DIESEL FORKLIFTS**

Royal R-Series Rough Terrain Forklifts are reliable, versatile and an easy-to-use solution. Ideal for virtually any rehandling environment from docks to yards, special events, timber forestry, construction sites, builders and more.

Our R-Series are designed for high mobility and superb productivity in rough terrain areas. The Low Profile Design is ideal for underground car parks and unloading standard containers.



## **LOW PROFILE 2.5T ROUGH TERRAIN DIESEL FORKLIFT**

### **MAIN FEATURES**

- 2500kg Low Profile 1990mm Overall Height
- 2-Wheel Drive Rough Terrain
- Capacity 2500kg
- Lifting Height from 2.7m to 6m
- 1220mm Tynes

### **OPTIONAL EQUIPMENT**

#### **Mast Variations**

- Duplex 2 Stage
- Triplex 3 Stage

#### **Valve And Pipe**

Third Valve And Pipe / Fourth Valve And Pipe

#### **Attachments**

- Cabin with Heater and Air Conditioner
- Wide Carriage and Backrest
- Hand Brake Alarming Device
- Fingertip Control System
- Seat Belt Alarming Device
- Special Attachment
- Fire Extinguisher
- Suspension Seat
- Fork Positioner
- Extended Forks
- Side Shifter
- Rotator

#### **Productivity**

Lifting Height 2.7m - 6m

### **STANDARD EQUIPMENT**

#### **Driveability**

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

#### **Safety**

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





## LOW PROFILE 2.5T ROUGH TERRAIN DIESEL FORKLIFT

### COMFORT AND ERGONOMICS

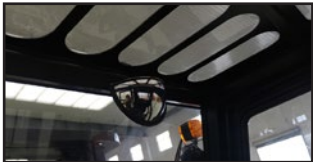
#### Ergonomically Designed Operation Handler

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 fort 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, ensuring the safety of operation
- The side angle designed counterweight clearly views the surroundings



Upward Visibility



Forward Visibility



Fork Tip Visibility



Rear Visibility



#### Low Vibration and Noise

Fully suspension chassis and engine technology is completely applied to Royal R-Series forklifts. Divide-body design of chassis with rubber mounting between the unitary overhead guard and chassis, full floating damping 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.

#### (A) (B) Suspension

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

#### Smaller Steering Wheel



300mm smaller steering wheel, easy to operate and reduce the operator's arm and shoulder's workload.

#### (C) Powertrain Suspension

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





## LOW PROFILE 2.5T ROUGH TERRAIN DIESEL FORKLIFT

### COMFORT AND ERGONOMICS

#### Multifunctional LCD Display Metre Panel

The large and easy-to-see Multifunctional LCD Display Metre 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 AND 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 that starts in cold climates allows faster warm up and fuel savings.



#### Transmission

Powershift 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, and features automatic differential lock providing ultimate traction during inclement weather conditions and rough operating surfaces.



#### Tyre

Royal Rough Terrain forklift front tyre is a special heavy truck tyre with a wide footprint, giving it a greater stability and lift capacity in rough work environments.



#### Steer Axle

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



#### High Ground Clearance

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





## **LOW PROFILE 2.5T ROUGH TERRAIN DIESEL FORKLIFT**

### **SAFETY OPERATION**

#### **Integral Heavy Duty Chassis**



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

#### **System of Active Stability**

with the SAS, the wheel and tyre can be prevented from swerving up and down according to the working conditions to stay stable.

#### **Mast Self-Locking Device (Optional)**

For conventional forklifts, when mast extended and powered off, the operator can still lower the mast. For Royal Forklifts, with optional mast self-locking device, the forklift will be locked, and lifting and lowering cannot be operated in order to avoid 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. This super increases the safety of the goods and forklifts.

#### **Operator Presence Security System (Optional)**

With operator presence security system, Royal Forklifts can have the forklift stop moving forward when the operator leaves the seat, which ensures the safety of goods and people around in an emergency situation.

#### **Parking Brake Warning Buzzer (Optional)**

An automatic-style parking brake ensures convenience and safety. A warning buzzer will sound when the operator leaves the seat without setting the park brake.





## EASY TO MAINTAIN



### Newly Designed Engine Cover Structure

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

### Easy to Service Maintenance Design

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



### Reliable Hydraulic System

With reliable international standards of hydraulic design and components, the hydraulic components feature high durability which can lower repair and replacement costs.

### Central Integrated Electric System

The central integrated design of the electric system makes servicing easier, faster and efficient.



### Easy to Fill Diesel and Hydraulic Oil

It's easy to reach the diesel tank on one of our new forklifts, and it can be filled from ground level.

## RELIABLE FORKLIFTS AUSTRALIA ROYAL BRAND



### Reliable Forklift Quality

With the international testing standard in place, a more reliable supplier chain and a higher quality control ensures the stability and quality of our forklifts.

### Experienced Support Team

Forklifts Australia has a highly experienced technical support team to provide professional training to clients all around the world.



### Comprehensive Parts Supply System

Forklifts Australia can provide clients nationally with different type spare parts efficiently and accurately from their dedicated warehouse.

### After-Sales Support

Forklifts Australia can provide you with excellent after-sales support to ensure your forklift enjoys a long life.





## LOW PROFILE 2.5T ROUGH TERRAIN DIESEL FORKLIFT

GENERAL SPECIFICATIONS	
Model	T25Y
Power Type	Diesel
Rated Load Capacity (kg)	2500
Load Centre (mm)	500
CHARACTERISTICS AND DIMENSIONS	
Rated Lift Height (mm)	2700
Free Lift Height (mm)	80
Mast Tilt Angle (F/R, α°/β°) (Deg)	10°/12°
Low Profile Overall Height (mm)	1990
Mast Extended Height (with Backrest) (mm)	3919
Overhead Guard Height (mm)	1990
Ground Clearance (Bottom of Mast) (mm)	220
Overall Width (mm)	1600
Fork Size L x W x T (mm)	1220 x 125 x 40
Fork Overhang (Wheel Center to Fork Face)	586
Rear Overhang (mm)	540
Turning Radius (Outside) (mm)	2785
PERFORMANCE	
Travel Speed (No Load) (km/h)	20
Travel Speed (Full Load) (km/h)	18
Lifting Speed (Full Load) (mm/sec)	570
Lowering Speed (Full Load) (mm/sec)	445
Max. Drawbar Pull (Full Load) (KN)	17
Max. Gradeability (Full Load) (%)	20
Service Brake (Operation/Control)	Foot/Powershift
Parking Brake (Operation/Control)	Hand/Mechanical
CHASSIS	
Tyre (Front x 2) (mm)	12 - 16.5 - 14PR
Tyre (Rear x 2) (mm)	23 x 9 - 10 - 12PR
Front Tread (mm)	1205.5
Rear Tread (mm)	1205
Wheelbase	1880
WEIGHT	
Front Axle Weight Distribution (Full Load) (kg)	5990
Rear Axle Weight Distribution (Full Load) (kg)	975
Front Axle Weight Distribution (No Load) (kg)	1785
Rear Axle Weight Distribution (No Load) (kg)	2680
POWER AND TRANSMISSION	
Battery (V/Ah)	12/90
Engine Model	4TNE98 - BQFLC
Engine Manufacturer	YANMAR
Rated Output/rpm (kW)	42.1/2300
Rated Torque/rpm (N·m)	186-206/1700
No. of Cylinders	4
Bore x Stroke (mm)	98 x 110
Displacement (cc)	3.318
Fuel Tank Capacity (L)	65
Transmission Type	YQXD30 - XH
Transmission Stage (FWD/RVS)	1/1
Operating Pressure (For Attachments) (Mpa)	17.5

