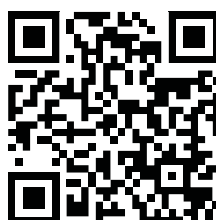


- **Headquarter**
- **Manufacturer**
- **Branch**
- **Dealers**



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**Royal Rough Terrian  
 Diesel Forklift Truck**

**4.0-5.0ton**



[www.ryforklift.com](http://www.ryforklift.com)





# 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 4000 kgs to 5000 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

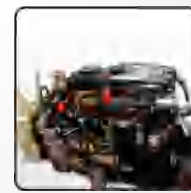
Multi-Functional Combined Switch  
Mast Intelligent Buffering System  
Multi-Functional Safe Seat  
Buzzer & Electric Horn  
Front Combined Lamp  
Rear Combined Lamp  
Reverse Alarm Light  
Rearview Mirror



## PRODUCTIVITY & PERFORMANCE

### Engine

Royal rough terrain forklifts adopt PERKINS 1104C-44T engine, produces its peak power (41.5kW) and torque (413Nm) at engine speeds as low as 1350rpm for great responsiveness. Timed glow could start in cold climates allows faster warm up and fuel savings.



#### PERKINS

Type:WP  
Model:1104C-44T  
Rated output:41.5kw/2200rpm  
Rated torque:413N.m/1350rpm  
No.of cylinder:4  
Bore×Stroke:105×127mm  
Displacement:4.4L

### 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.



### 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 43.6° to 70° with very small turning radius.



### 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) T40P-30% T50P-30%



### 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.

## 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.

### 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.

### Central Integrated Electric System

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



## RELIABLE RY FORKLIFT

### Reliable Forklift Quality



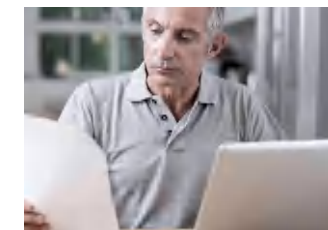
With the international testing standard, more reliable supplier chain, higher quality control to ensure the stability and quality of forklifts.

### 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.



## 4.0T & 5.0T rough terrain forklift mast

Rough terrain diesel forklift										
General	1	Model				T40P		T50P		
	2	Power type				Diesel				
	3	Rated capacity			Kg	4000		5000		
	4	Load centre			mm	600				
Characteristic&Dimension	5	Lift height			mm	3000				
	6	Free lift height			mm	145		145		
	7	Fork size	L×W×T		mm	1220x150x50		1220x150x50		
	8	Fork regulating range	Min./Max.		mm	300-1954		300-1954		
	9	Mast tilt angle	F/R		Deg	15°/15°				
	10	Front overhang			mm	732		732		
	11	Rear overhang			mm	764				
	12	Min. ground clearance				320				
	13	Overall dimensions		Length to face of fork (without fork)		mm	3622		3622	
	Overall length(with fork)			mm	4837		4837			
	Mast lowered height			mm	2565		2565			
	Mast extended height (with backrest)			mm	4170		4170			
	16	Overhead guard height			mm	2545		2545		
	17	Min. turning radius			mm	3540		3540		
	Performance	19	Speed		Travel(Unladen/Laden)		Km/h	22/21		22/21
Lifting(Unladen/Laden)		mm/s			570/500		570/500			
Lowering(Unladen/Laden)		mm/s			400/500		400/500			
22		Max. Drawbar pull(Laden/unladen)			KN	50		50		
23		Max. Gradeability(Loaden)			%	30		30		
24		Pressure		Laden lifting(normal/max)		Mpa	15. 6/19		15. 6/19	
Unladen lifting(normal/max)				Mpa	2. 6/19		2. 6/19			
Tyre	26	Tyre	Front			445-65-22.5PR/1175		445-65-22.5PR/1175		
	Rear			12.5/80-18/958		12.5/80-18/958				
	27	Tread		Front		mm	1620			
	Rear			mm	1720					
	28	Tyre pressure		Front		Kpa	550		550	
	Rear			Kpa	370		370			
29	Seat to ceiling inside height			mm	≥1050		≥1050			
30	Wheelbase			mm	2125					
Weight	31	Self weight			kg	7960		8450		
	32	Weight Distribution		Front Axle		kg	10350		11700	
	Rear Axle			kg	1600		1750			
	FrontAxle			kg	3320		3550			
	Rear Axle			kg	4630		4900			
Power&Transmission	36	Battery	Voltage/Capacity		V/Ah	24/160		24/160		
	37	Engine		Model			1104C-44T			
	Manufacture				PERKINS					
	Rated output/r.p.m.			Kw	74.5/2300					
	Rated torque/r.p.m.			N.m	415/1350					
	No. of cylinder				4					
	Bore×Stroke			mm	105×127					
	Displacement			L	4. 4					
	Fuel tank capacity			L	127					
	45	Transmission		Manufacture			China			
	Type				YQXD45VIPM					
	47			Stage	F/R			2/1		
48	Operating pressure(For attachments)			Mpa	16		19			

Type	Model	Max. fork height	Overall height		Free lift				Front Overhang		Tilt range		Capacity			
			Lowered		With backrest		Without backrest		4.0t	5.0t	FWD	BWD	capacity at max. height			
													Without side shift carriage		With side shift carriage	
			4.0t	5.0t	4.0t	5.0t	4.0t	5.0t	4.0t	5.0t	4.0t	5.0t	4.0t	5.0t	4.0t	5.0t
		mm	mm	mm	mm	mm	mm	mm	mm	Deg	Deg	kg	kg	kg	kg	
Wide view 2-stage mast	M300	3000	2565	2565	145	145	145	145	727	732	15	15	4000	5000	3600	4700
	M330	3300	2715	2715	145	145	145	145	727	732	15	15	4000	5000	3600	4700
	M350	3500	2815	2815	145	145	145	145	727	732	15	15	4000	5000	3600	4700
	M370	3700	2915	2915	145	145	145	145	727	732	15	15	4000	5000	3600	4700
	M400	4000	3115	3115	145	145	145	145	727	732	15	15	4000	5000	3600	4700
	M450	4500	3365	3365	145	145	145	145	727	732	15	15	3600	4500	3240	4050
	M500	5000	3615	3615	145	145	145	145	727	732	15	15	3200	4000	2800	3600
Full free 3-stage mast	TFM400	4000	2560	2560	1000	1000	1350	1350	760	765	15	15	4000	5000	3600	4500
	TFM435	4350	2685	2685	1125	1125	1475	1475	760	765	15	15	3600	4500	3240	4050
	TFM450	4500	2736	2736	1176	1176	1526	1526	760	765	15	15	3200	4000	2880	3600
	TFM470	4700	2802	2802	1242	1242	1592	1592	760	765	15	15	2950	3700	2680	3350
	TFM500	5000	2935	2935	1375	1375	1725	1725	760	765	10	15	2640	3300	2360	2950
	TFM540	5400	3060	3060	1500	1500	1850	1850	760	765	10	15	1920	2400	1720	2150
	TFM600	6000	3300	3300	1740	1740	2090	2090	760	765	10	15	1600	2000	1400	1800

