

# Royal Gasoline & LPG Forklift



## Gasoline & LPG Forklift Presentation

# Product Overview

Capacity	2.0-2.5Ton	3.0-3.5Ton
 <p>皇 珑 叉 车 ROYAL FORKLIFT</p>		



# Applications

- **Powered Type:** Gasoline & LPG
- **Rated Capacity:** 2.0T/2.5T/3.0T/3.5T/4.0T
- **Maximal Lift Height:** 6.5M



# Advantages

- High Performance
- Reliability
- Safety
- Ergonomics
- Easy Service and Maintenance



# High Performance -I

Item	Nissan K25 engine	Unit
Rated Torque	186.2/1600	N.M/rpm
Rated Output	44.2/2500	Kw/rpm
Displacement	2472	CC

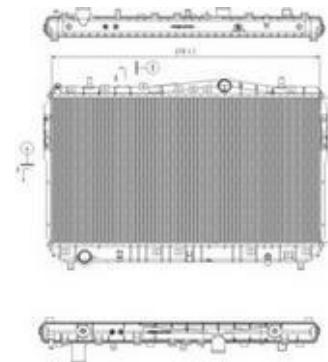
High Torque and high output at Low rpm to make sure the high performance.



# High Performance -II

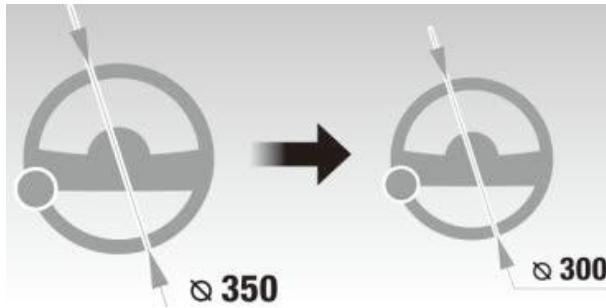
Excellent Cooling System  
and Heat Releasing System

- Large Capacity Water Tank. 25% bigger
- Extra Water Tank
- Great Power Engine Fan
- Reasonably Big Designed Air Guide sleeve



# High Performance -III

Royal Steering Design changes the traditional steering with steer joint, enables the steering to be very light and not easy to break.

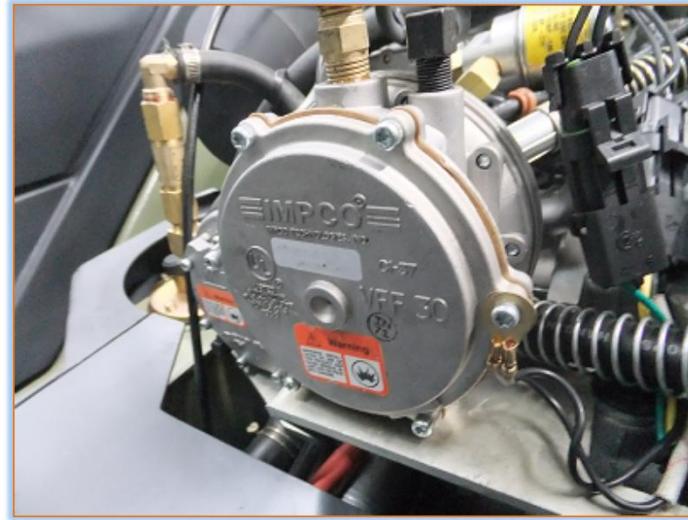


# High Performance -IV

USA IMPCO convertor

➤improve the efficiency of converting and also improve the usage of gas

Change Gas tank within one minute



# Reliability -I

Royal use high quality components like international forklifts brand, which makes our Royal forklifts quality stay the same level with western/ Japanese brand.

Engine	Transmission	Drive axle	Steering axle	Hydraulic
Original Japanese	TCM Technology Hydraulic Top 1 in Chinese forklifts	ANQING Brand Top 1 in China	ANQING Brand Top 1 in China	Japanese Shimadzu Hydraulic pump / valve
				
Hydraulic Pipe	Cylinder	Seal kits	Tires	Paint
USA Brand GATES	Same supplier with TOYOTA China	Japanese Original NOK	USA Carlisle Brand	USA DuPont Brand Car Paint
				

# Reliability -II

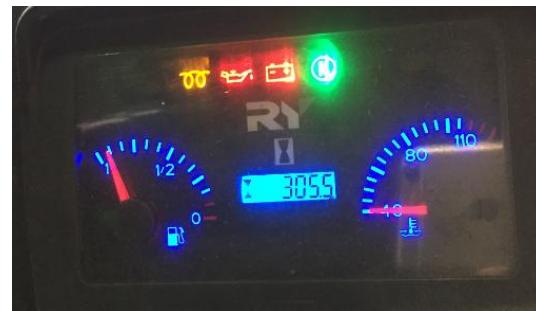
## 24 Degree Cone Hydraulic Pipe

- can stand high pressure. with the oil seal, it reduce a lot frequency of oil leaking problem.
- And If there is any oil leaking problem, only o-ring needs to be replaced, but not the whole oil pipe which allows more maintenance and service cost to be saved.



## Multi-functional LCD display meter

- can have the operator check all on all operational status at a glance.
- The key components and connectors have been protected to meet rain-proof and dust-proof standard.



## Internal cylinder with rubber cover

- better protection



# Safety -I

## Integral Heavy Duty Chassis

➤ROYAL forklift chassis is 15% heavier than conventional forklifts, provides the driver the driver with 20% more protection from falling loads.



## Low Truck Gravity

➤According to the Gravity Balance Principle, low gravity design is applied to RY Forklift to ensure the stable and safe operations.



## 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.



# Safety -II

wide visibility

High intensity

overhead guard  
and mast



➤ High intensity Mast with More Lift Height at Higher Lifting Height

➤ Special Tubes of overhead Guard with double strength than normal overhead guard, better to enclose cabin.

*Each side of Cab can be easily disassembly and assembly*



# Safety -III

Two big and multi angle review mirror to review the working conditions around.



LED light, Reverse Flashing Light and Buzzer Can Warn People Around.



Handler to get on the forklift



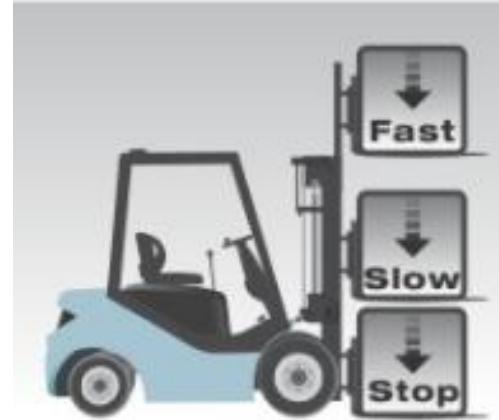
Anti-slippery Foot Step



# Safety -IV

## Mast Buffering Function

➤when mast is lowered to about 10cm above the ground, the lowering will speed down automatically to make sure the forks steady.



## OPSS (Operator Presence Security System)

➤with OPSS, 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.



# Safety -V

## Mast Self-locking Device

- Engine power off, Mast will be self-locked.
- Operator leave, Mast will be self-locked.



## Parking Brake Warning Buzzer

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



# Safety -VI

## Mast Tilt-controlled Device



- with mast tilt-controlled device, RY forklift can decelerate as the lifting height increase when the tilt angle over 3M.
- it can prevent the cargo from falling when lifting and avoid unnecessary loss and accidents.



# Ergonomics -I

Full suspension system allows more vibration and noise to be reduced and offers a more comfortable driving.



## A&B: Suspension cabin

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



## C: Powertrain Suspension

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



# Ergonomics -II

with heat proof and noise proof cotton inside of engine hood  
Noise around 76 dB(A)



Fully adjustable steering wheel



Ergonomics handler and lock



Fully adjustable comfort Toyota style seat



Enlarges the foot operation space by 25% compared to conventional forklifts



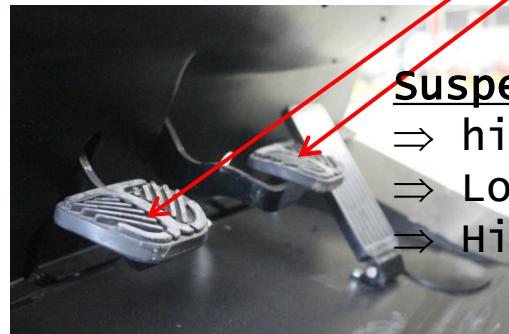
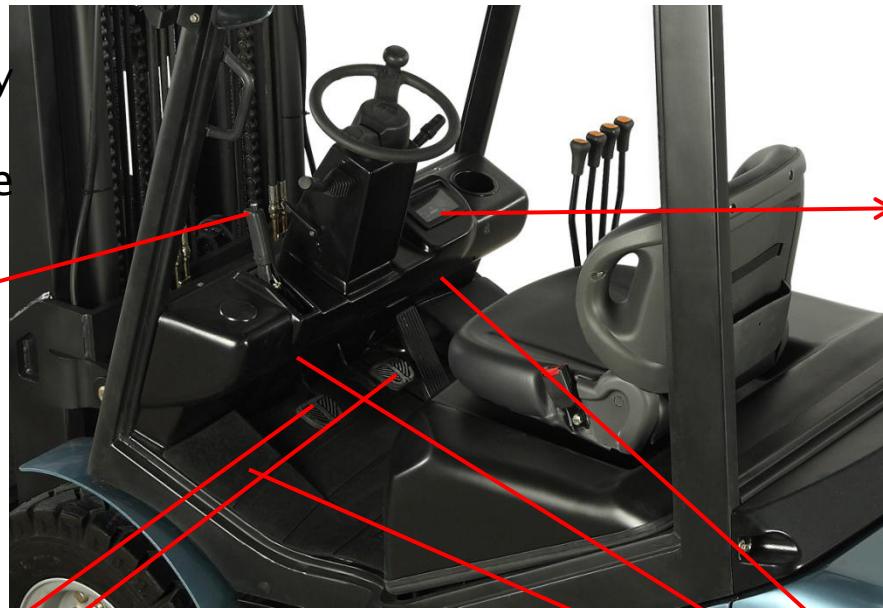
Right Positioned Operation Handler decrease much more tiredness after continuous operation.



# Ergonomics -III

## Light Hand brake with locked button

- Easy and safety to operate
- Low maintenance Cost



### Suspension Brake Pedal

- ⇒ high efficiency, safety
- ⇒ Low maintenance Cost
- ⇒ High Comfort, like car

### Display Meter Panel

Placed in the front right side of steer wheel.

⇒ Very easy to view.

⇒ LCD, easy to read at night.

### Closed Plastic Cover

- ⇒ Nice and Quality performance
- ⇒ Dust Proof
- ⇒ Moulded Floor Mat

# Easy Service & Maintenance -I

## Big Service Space.

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



Easy Check of Brake Well Placed Components with Multi-function Fluid.



# Easy Service & Maintenance -II

In Royal forklift, both upper exhaust and lower exhaust can be exchangeable.

➤ If customer wants lower exhaust, we will stuck the upper one and connect the lower exhaust by the screw and plate design.

otherwise the same.

➤ No need to disassemble the silencer when replace the exhaust.



Available design for upper exhaust

Lower exhaust

Large space for Maintenance and replacement of radiator.

➤ By taking the radiator cover the radiator be replaced , and no need to take off counter weight and engine cover.



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