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A Series Internal Combustion Forklift

with capacities of 20,000 to 25,000kg

The World of Hangcha
SINCE 1956



A Series Internal Combustion Forklift

The A series 20-25t forklifts are an independently developed new series of internal combustion counterweight forklifts. With the key parts of domestically renowned brands, the cost-effective vehicle has stable performance and reliable quality. The all-purpose products are suitable for ports, railways, steel mills, mines, shipyards and rental markets.



Mature/ Reliable



The Weichai common rail engine has strong power, low fuel consumption and a low failure rate

- / High torque at low speeds, good performance of acceleration at medium and high speeds.
- / The four-air-valve structure has high air intake efficiency, full combustion and good economy.
- / Direct injection in the cylinder improves combustion efficiency and effectively reduces engine fuel consumption and vibration.
- / A super long oil change interval of 500 hours enables a low use cost.
- / Can be used in an environment of -35°C —50°C and an altitude of above 5000m.



The paralleled aluminum plate-fin heat dissipaters and the original hyperboloidal fan of the engine provide reliable heat dissipation

- / The heat dissipation systems are independent of each other to avoid heat dissipation interference.
- / The engine's original large-diameter, low-speed (fan shaft deceleration ratio) hyperboloidal suction fan has good matching, stable operations and large heat dissipation power.
- / The independent hydraulic oil heat dissipater ensures the normal operations of the system under heavy-duty operation conditions.
- / Through the heat balance test under two kinds of operating conditions it has been verified to meet the requirements of special operating conditions.



A special gearbox of a domestically renowned brand

- / The double-turbine hydraulic torque converter has a wide range of high efficiency and a large torque conversion ratio. Whether or not the main and auxiliary turbines output at the same time is determined according to the load change, so that a larger torque ratio is available to adapt to the current operating conditions where the actual two-forward-gear and one-reverse-gear mode is equivalent to the four-forward-gear and two-reverse-gear mode.
- / The parking brake is integrated with the gearbox, simple and reliable.
- / With a large market share, high reliability, fast parts supply and good economy.



Domestic heavy-duty caliper drive axle

- / With a low failure rate, the caliper brake provides fully hydraulic power braking and large braking force.
- / The welded axle housing optimized by CAE analysis enables a high static load safety factor and a large load bearing capacity of the axle.
- / With a main gearbox for heavy-duty trucks and mine cart wheels, mature and reliable.

The optimized frame structure makes the frame lighter and stronger

- / The bent C-shaped beam of the frame has high strength and neat appearance.
- / The optimized inner rib-equipped structure of the frame reduces the weight and increases the strength.

Safety

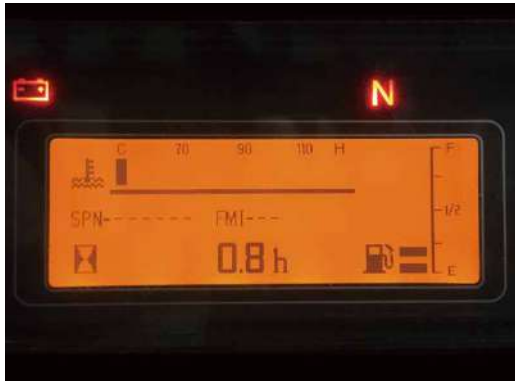
- / Neutral start protection is provided. An optional OPS seat sensing system is provided to improve operating safety.
- / The multiway valves are obliquely connected to form a back pressure valve, which has a mast forward tilting self-locking function.
- / Fully hydraulic power braking and a large-capacity accumulator are used to ensure safe and reliable braking.
- / The counterweight profile is optimized to improve the rear view. An optional visual reverse radar is provided to improve operation safety.

Energy and efficient

- / The fully hydraulic load-sensing steering and dual-pump merging technologies enable higher operation efficiency and less system pressure loss and energy consumption.
- / The vehicle is equipped with LED illuminators for the standard configuration, which have high performance, a long life and low energy consumption.

Maintenance

- / With the LCD instruments to display the relevant information of the vehicle and an engine fault to facilitate troubleshooting, the running status of the vehicle can be monitored.
- / The overturnable cab and left and right swing-up hoods form an open maintenance space and the vulnerable parts such as the oil filter, air filter, etc. are provided in easy-to-reach positions, to enable easy maintenance of the vehicle.
- / A cloud smart module provided for the standard configuration enables remote control and diagnosis.



Comfort

- / The ergonomic joystick with a good feel and integrated functions enables easy and comfortable combined operations.
- / The fully-suspended seat with an adjustable turning device and the cab equipped with a cooling and heating air conditioner and a reading light make the driving experience more comfortable.
- / Electro-hydraulic steering enables easy operations and less driving fatigue.



Standard Specification

- / Standard fork
- / Standard fork carriage
- / Integral prong-adjustable side shift fork
- / Duplex wide-view mast
- / Cabin
- / Cab front wiper
- / Cab rear wiper
- / Suspended seat
- / Vehicle toolkit
- / Traction device
- / Rearview mirror
- / Air filter
- / High-position exhaust
- / Electro-hydraulic steering
- / Steering wheel adjusting device
- / Fully hydraulic power braking
- / Hydraulic oil level meter
- / Self-locking valve in the tilting fuel circuit
- / Speed limit valve in the lifting fuel circuit
- / Quadruple multi-way valve

- / Cable-type stop brake
- / Hydraulic oil suction filter
- / Hydraulic oil heat dissipater
- / Neutral gear safety switch
- / Main power switch
- / Water thermometer
- / Electric horn
- / Reverse buzzer
- / Combination headlights
- / Combination tail lights
- / Warning light
- / LCD instruments
- / Engine hour counter
- / Oil gauge
- / Pre-heating indicator
- / Charge indicator
- / Engine oil pressure alarm light
- / Oil-water separator indicator
- / Keyed engine flameout
- / Cloud smart module

Options

- / User specified color
- / Solid tire
- / Fuel tank cap locked
- / Basin-shaped double air filters
- / Exhaust fire protection device
- / Fire extinguisher
- / Blue light
- / Rear work light
- / Speed limit alarm device
- / Weighing system
- / Rearview system
- / Forks of other specifications

