## Characteristics

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<th>HELI</th>
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## Dimensions

| 3.01 Lifting height (standard) | mm     | 3000  |
| 3.02 Mast tilting angle (front/rear) | o8 deg | 6/12 | 6/12 |
| 3.03 Min. Turning radius | mm     | 2255  | 2130  | 2400  | 2440  |
| 3.04 Overall length (with forks) | L mm   | 3500  | 3708  | 3818  | 3836  |
| 3.05 Overall width | W1 mm  | 1159  | 1225  |
| 3.06 Overall height (overhead guard) | H6 mm  | 2159  | 2170  |
| 3.07 Wheel base | L1 mm  | 1699  | 1700  |
| 3.08 Tread(front/rear) | W3/W2 mm | 900/970 | 1000/970 |
| 3.09 Overhang(front/rear) | L2L3 mm | 473/457 | 473/515 | 478/570 | 496/570 |
| 3.10 Min. Under clearance | H5 mm  | 110   | 135   |
| 3.11 Lateral fork adjustment (outside of fork) | W5 mm  | 244/1030 | 250/1060 |
| 3.12 Fork length | L4 mm  | 920   | 1070  |
| 3.13 Fork width/thickness | W7/W8 mm | 122/440 | 125/550 | 125/550 |

## Performance

| 4.01 Lifting speed (loaded) | mm/s  | 540    | 500    | 400    |
| 4.02 Lowering speed (loaded) | mm/s  | 450    | 450    | 350    |
| 4.03 Traveling speed (loaded/unloaded) | km/h | 17/19 | 19/20 | 19/19 |

## Engine and Gearbox

| 5.01 Engine manufacturer/model | ISUZU C240PG-30  |
| 5.02 Cyl. Number/Displacement | 4  | 4.2369 |
| 5.03 Rated power speed | kW rpm | 36.4/2500 |
| 5.04 Max. Torque speed | Nm rpm | 139/81800 |
| 5.05 Gearbox | Special gearbox for HELI  |
HIGH QUALITY PRODUCT

H series is proudly launched adhering to the principle of repaying the society with high quality product and vision of being century-old enterprise. To HELI, the H series is the culmination and milestone in pursuit of mastery in the development and manufacture of forklift over the years.

Elaborately built H series will provide you high level driving experience with environment friendliness, outstanding comfort, safety and reliability, easy maintenance and excellent working efficiency.

Environment friendliness
Low noise and exhaust emissions make H series environment friendly.

Outstanding comfort
Operation comfort is improved through ergonomic design, enlarged operation space and reasonable layout.

Safety and reliability
It is designed to be tougher and more durable.

Easy maintenance
It is easy to carry out maintenance and thus prolongs truck service life.

Excellent working efficiency
The operating performance and efficiency are improved.
A. Environment-friendliness
Clean and environment-friendly power meeting international emission standard is assembled on the H series to reduce harmful emissions and be environment-friendly. Meanwhile, H series effectively reduce truck vibration and noise. Compared with H2000 series, vibration is reduced by more than 30% and the noise around ear is reduced by 3dB.

A1 Suspension cab
Cushion connection between the frame and cab and wholly suspension cab absorb whole truck’s vibration effectively. Fully-closed panel-mounted cab isolates the noise.

A2 Suspension foot pedal
It isolates the vibration transmitted from the chassis to the operating devices. No opening on the floor board improves the sealing performance and isolates chassis noise.

A3 Mast lowering buffering device
It reduces shock and vibration to the mast and avoids crash noise caused by goods falling to the ground.

A4 Fully-closed cab
Fully-closed cab, using of thick sealing materials and acoustic material on the engine hood reduce the noise.
B. Outstanding comfort
During the development of H series, we attached importance on improving driving comfort. Ergonomic designs, optimized operating device structure and layout improve driving experience and ensure long hours of efficient operation.

B.1 Enlarged operating space
Tilting cylinder located below the floor board, 30mm widened low anti-skidded step and 45% enlarged operation space at floor provide comfort entry, exit and operation. 80mm heightened overhead guard and large arc shape of the overhead guard’s front leg enlarge operating space and reduce operating fatigue.

• Hidden tilting cylinder
• Comfortable space

B.2 Semi-suspension seat, optional full-suspension seat
It reduces the transmission of vibration. The seat can adjust forward and backward to fit different operators’ need.

B.3 Outstanding visibility
With three-stage free lift mast, front view width is increased by 30mm; with 15mm lowered instrument panel, the visibility of fork and goods is increased by 20mm. CAE optimized counter weight structure improve rear view.

• Visibility at the fork tip and goods 20mm increased
• Front view 30mm enlarged

B.4 Operator-friendly steering wheel
Automobile type combined switch, 60mm to 300mm reduced steering wheel diameter and optimized vertical distance between the steering wheel and operating knob make operations easy and quick and reduce 10% of the driver’s left shoulder fatigue. High installed adjusting mechanism of the steering column is easy for operation and satisfies different operators.

B.5 LED combined instrument
With the clear displaying and right installment of the instrument, the operator can know the truck information in time.

B.6 Rear assist handle (optional)
The assist grip with a horn enhances comfort by offering easy horn operation while travelling in reverse.
C. Safety and reliability

HELI keeps improving truck safety and reliability to ensure the safety of people, machine and goods.

C.5 Ratchet type parking brake
Different braking force can be achieved on slope and flat ground. The brake is safe and reliable.

C.6 Automobile type oil adding cap structure
The cap use screw to protect it from loose and its structure is simple.

C.7 Double-lip elastic sealing gasket
The innovative design solves the problem of oil seeping completely.

C.8 High installed rear combined LED lights
It is energy saving and stylish. It effectively solves the problem of lights short service life and lamphade melt phenomenon. It extends light service life.

C.1 Improved cooling performance
The hot air reflow isolating device, aluminum plate-fin type radiator, 60mm backward muffler and optimized thermal dissipation duct improve cooling ability and ensure engine work reliability to meet the requirements of working under harsh and high temperature environment better. Compared with the truck with same capacity of H2000 series, the water temperature is 19% reduced, transmission oil temperature 21% reduced and hydraulic oil temperature 21% reduced.

C.2 Key parts
The optimal design of key parts like frame, mast and overhead guard improve the whole truck’s safety and reliability.

C.3 Fully-closed panel-mounted cab
Fully-closed panel-mounted cab with high strength ensures the safety of people and machine fully.

C.4 Casting axle
The key rotation parts are protected from water and dust to extend their maintenance period. With the using of casting axle, the bearing load carrying ability is improved and the truck structure is simple and reliable. The service life is prolonged.
D. Easy maintenance

Easy maintenance which is good for maintaining the optimal condition of key parts and completed truck and ensures safe and work efficiency is the necessary character of a good product.

D1. Large engine hood opening angle
Engine hood lock integrated on the hood is convenient for opening and close during maintenance.
The gas spring has optimized arrangement, improved load carrying ability, opening angle, prolonged gas spring service life and improved opening comfort.

D2. Front and rear floor board
It is easy to be disassembled and assembled and is easy to maintain engine and transmission system.

D3. Compositional radiator heat flow baffle
It is connected with bolts and can be disassembled without disassembling counter weight.

D4. Brake liquid reservoir
Remove the upper cover of the instrument panel to observe the brake liquid level and add if necessary.

D5. Optimized mast pipeline
Oil return pipelines are fixed onto the middle beam with skid mounted clamp. It is easy to install, maintain and is good for oil returning.

E. Excellent working efficiency

With high efficiency, the truck perfectly guarantees the material handling work at port, dock, and railway station. It can meet the requirements for various kinds of complicated work conditions.

E1. High stability
With lowered and backward center of gravity, truck stability is 5% improved and thus the truck is more stable during loading and unloading and traveling. Through optimizing the key parts, the truck loading capacity is 5% improved.

E2. Quick responding steering wheel
With 100% pivot steering and returning, the truck has good maneuverability in narrow space. The truck has small turning radius, easy steering, good gradability and flexible maneuverability.

E3. Constant load sensing steering system
It increases lifting speed, reduces hydraulic oil temperature, improves working efficiency and extends seals service life. Compared with the truck with same capacity of H2000 series, the lifting speed without load is 14% improved, the lifting speed with load is 12% increased and the hydraulic oil temperature is 21% reduced.