

# HELI

## 3-3.5t

### HYDROGEN FUEL CELL FORKLIFT TRUCK

#### CPDF 25/30 GA2C



#### HYDROGEN FUEL CELL FORKLIFT TRUCK VS LITHIUM BATTERY FORKLIFT TRUCKS & LEAD-ACID BATTERY FORKLIFT TRUCK

- **Zero emission, environment friendly:** hydrogen fuel cell exhaust emission is only water, which is green and pollution-free; Unlike batteries, there are no environmental problems caused by the disposal of batteries.
- **Quick refueling, uninterrupted operation ensured by fast refueling and long battery duration:** hydrogen fuel cell refueling only takes 3 to 5 minutes, lithium battery charging takes about 2 hours, lead acid battery charging takes longer.



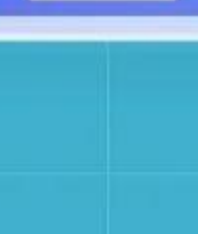
- **Suitable for low temperature and cold storage:** Lithium battery or lead-acid battery forklift truck can only discharge 60 percent of the normal capacity at low temperatures, the low temperature environment has no effect on power generation of hydrogen fuel cell.



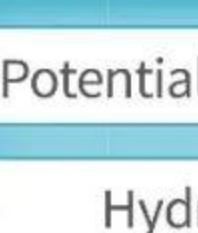
#### HIGH STANDARD GRADE OF PARTS AND PERFECT ALARM FUNCTION OF EACH SYSTEM, THE SAFETY OF OPERATION IS GUARANTEED.



The onboard hydrogen system all adopts the automotive grade parts, and conforms to GB/T 35544 and GB/T 26779.



The onboard hydrogen storage system is mainly composed of high-pressure hydrogen storage bottle, hydrogen bottle valve, hydrogen filling port, pressure relief valve, pressure sensor, pressure reducing valve, pipe joint and etc..



Basic functions of hydrogen storage system include hydrogen supply function, filling function, emptying function and safety protection function.

#### Hydrogen safety

FUEL CELL

Potential static electricity elimination

Output overload alarm

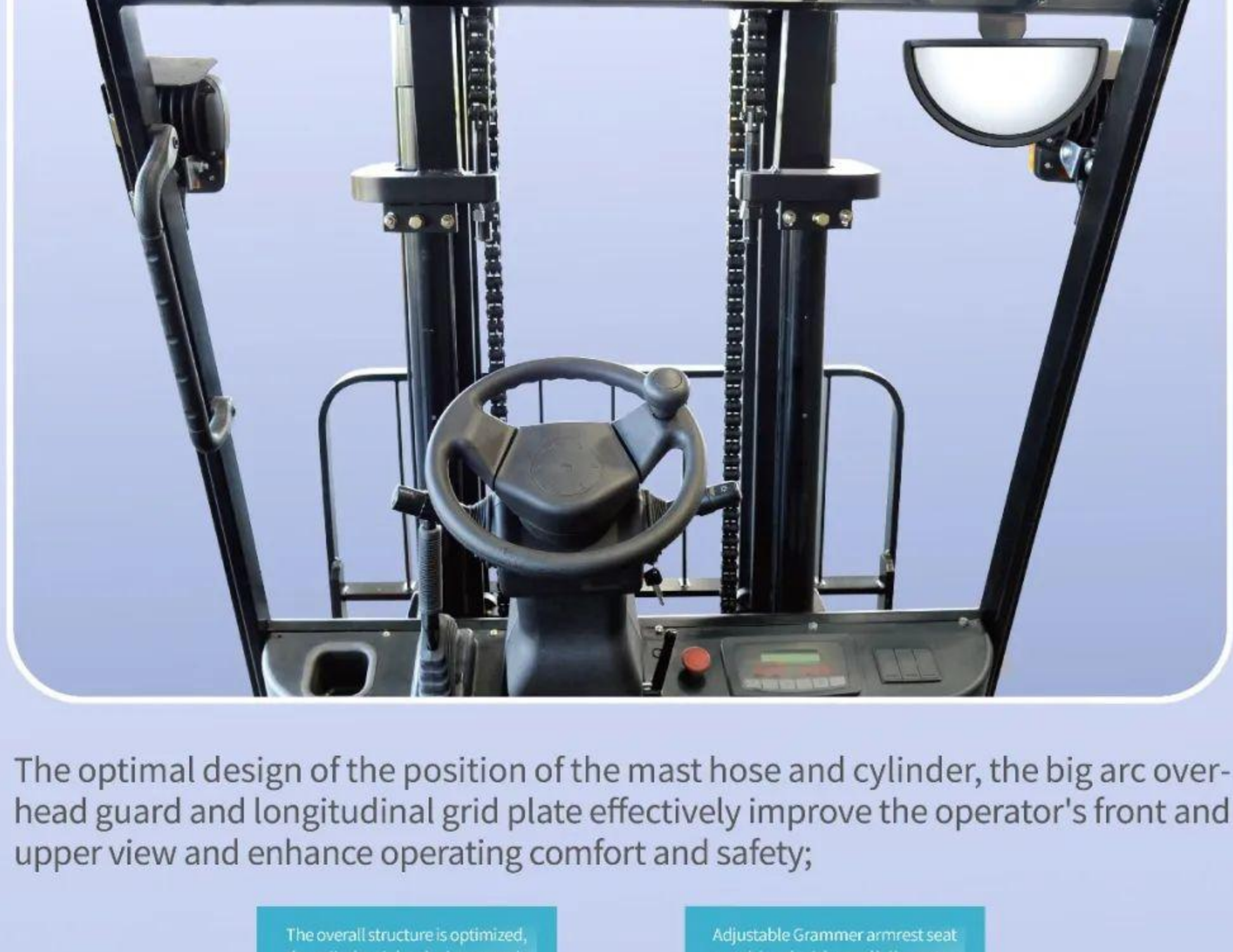
Hydrogen pressure anomaly

Temperature too high/low

System overvoltage/undervoltage

Alarm on hydrogen leakage

#### HUMAN MACHINE OPTIMIZATION, COMFORT DRIVING



The optimal design of the position of the mast hose and cylinder, the big arc overhead and longitudinal grid plate effectively improve the operator's front and upper view and enhance operating comfort and safety;

The overall structure is optimized, the cylinder sinks, the leg space is increased, and the driving is more comfortable;



Adjustable Grammer armrest seat combined with small diameter steering wheel effectively improve driving comfort;



The rear armrest have the horn, the operator astern posture is stable, safe and comfortable;



The ratchet type parking brake handle is more labor-saving, by using different braking force on ramps and flat lands;



The steering column can be adjusted forward and backward to increase the operating space;



Hydrogen filling port is set on the left side which conforms to man-machine operation habits;



Extra large left and right pedals are more comfortable and convenient for access and egress.

#### SAFE AND RELIABLE



- OPS system: when the operator leaves the seat, the truck stops automatically to ensure the safety of operation;
- The design of no side plates on both sides of the fuel cell makes the fuel cell dissipate heat better and improves the safety of the fuel cell and the reliability of the truck;
- Optimized design of key structural parts such as frame, mast, overhead guard and steering axle to comprehensively improve the safety and reliability of the truck.

#### Other information:

The truck is equipped with HELI or ZF double motor drive unit, large speed ratio reduction box, high-power IP54 protection class AC motor, and oil-cooled multi-disc brake offering the characteristics of being powerful, high efficient, low noisy, reliable and free maintenance.

Battery box lock protection: If the battery box is not locked, the truck will not start to avoid accidents caused by careless operation.