A Series Premium Version Reach Truck
with capacities of 1,200 to 2,000kg

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ISO9001:2015
ISO14001:2015

The World of Hangcha
SINCE 1956
10 reasons choose A series reach truck

- **Appearance**: Beautiful / Compact / Ergonomic
- **High Performance**: Transmission system / Motor
- **Renewable Energy Technologies**: Hydraulic system
- **Perfect Residual Load Capacity**: Mast system
- **Flexibility**: Steering system
- **Excellent Ergonomic & Comfort**: Fingertip system
- **Advance**: INMOTION control system
- **Visibility**: Overhead guard
- **Reliability**: Plastic oil tank / Braking system
- **Maintenance**: Battery side roll-out
A SERIES PREMIUM VERSION REACH TRUCK

After several years of design, development, and manufacturing, Hangcha launched a new product lately—the A Series Premium Version Reach Truck: CQD12/14/16/20-AD2H. This truck is mainly used in multi-level warehouse. CQD20-AD2H rated load capacity is 2 tons, maximum lifting height is 12.5m, and the load capacity can reach 1100kg at the maximum lifting height. Its technical parameters and configuration are close to that of similar products of international manufacturers including Crown, Linde, Jungheinrich, and Hyster. This product (A series premium version reach truck) together with standard reach truck constitute the entire family of A Series reach truck of Hangcha. These products supplement with each other in rated tonnage, cover different prices together, and can satisfy different demands in prices, functions, and configuration from various users.

APPEARANCE

Top appearance design teams from Europe and China are engaged to carry out brand new optimized design for this product. It features beautiful appearance and European design elements, excellent ergonomics, and man-computer interaction functions, and inherits appearance elements of A Series electric trucks.

HIGH PERFORMANCE

The drive system includes the ZF® gearbox imported from Germany with original packaging, the imported Schabmuller® AC drive motor, and the Schabmuller® electric steering motor, with excellent performance, as well as drive system, AC motor, EPS (Electric Power Steering) system, and electromagnetic braking system of same configuration as that of imported brands such as Jungheinrich, Hyster, and other leading manufacturers. All core parts are ZF products imported from Germany.
The mast system is made of imported steel channels, and new optimized design is applied for the carriage system, which thoroughly eliminates the problem of shaking and large gap that are detected in previous home-made masts, effectively improves residual load capacity, and increases load capacity reducing height. Maximum lifting height is 12.5m, and load capacity can reach 1100kg at the maximum height.

Automatic select height level function is also optional for the mast system, which can pre-select height automatically according to height of the user’s shelf, and the forks lifting will slow down and stop when required height is reached. It is very convenient for stacking work, and can reduce labor intensity and psychological burden of the operator significantly.
Electric Power Steering (EPS) system is a standard configuration, which can be switched between 360-degree and 180-degree operations according to the user’s habit. The upgraded EPS system effectively avoids the impact of hydraulic control, can reduce operator fatigue, and its minimum steering force can reach 3N (that of regular forklifts is about 10N).

In the mode of 360-degree steering, when steering exceeds 270 degrees, the reverse is switched to forward, no reversing is required, and the truck is switched to advance automatically, with no parking required, higher efficiency.

Whichever of the above two modes the operator wants to select, there is a button for switching operation to activate the mode required, which can be selected freely by the operator according to his/her habit.

Whether of above two modes the operator wants to select, there is a button for switching operation to activate the mode required, which can be selected freely by the operator according to his/her habit. The electric steering wheel is small and light. The operator can adjust it by moving backward or forward to find a suitable position. The steering wheel is equipped with a built-in damper, and has reliable signal transmission of the stepping motor.

In the mode of 180-degree steering, the truck must be reversed until it stops completely, and the direction must be switched before the truck can travel forward, with lower efficiency.

Fingertip system is a standard feature for the truck (with imported SAUER-DANFOSS hydraulic valve), with four finger control functions of lifting/lowering, mast forward and backward movement, tilt, and sideshift, and seven major functions including direction switching, emergency power off and horn. It offers comfortable operation for the operator, with soft armrest. The fingertip system communicates by CAN Bus system, which is reliable and fast. The armrest can be adjusted forward and backward, fingertip system enables more accurate control than mechanical valve.

Fingertip system integrated control system, with good man-machine function.

The truck is equipped with 4 INMOTION controllers, drive controller, oil pump controller, steering controller and valve controller, all controllers communicate by CAN Bus system. Controllers have advanced program and outstanding control strategy (same as that of imported trucks). All core parts are imported or of joint-venture brands, with reliable quality. The entire truck is equipped with waterproof connectors.

Fully-open pedal structure, electrical parts are fully exposed, which is convenient for maintenance.
**VISIBILITY**

The overhead guard enables panoramic visibility. There are two pieces of tempered glass of 25mm thickness on top of the overhead guard, which is infilled with glue, offering excellent impact resistance. The visibility above the operator is incomparable and excellent, with reduced psychological burden for the operator.

**RELIABILITY**

The ULD PE plastic oil tank, which increases quality and cleanliness of oil effectively, together with hydraulic filter element from German HYDAC, providing much higher cleanliness of entire hydraulic system. The oil tank features large volume, fast heat exchange, together with electronic fan within the housing, achieving thermal equilibrium quickly of hydraulic oil at most suitable working temperature.

The reach truck is equipped with electromagnetic braking system, including three separate brakes, two sets of MARTIX electronic drive brake imported from UK, and one set of INTORQ Electric Parking Brake system from Germany. Braking force is proportional to depth of electronic pedal, the braking performance is gentle and reliable.

**MAINTENANCE**

DIN standard battery is a standard configuration with capacity up to 48V/ 600Ah, and the maximum capacity available as an option is 775Ah, with powerful endurance. Battery side roll-out is a standard feature, which is convenient for maintenance.

Optional: Overhead guard with panoramic glass offers excellent visibility for elevated location.

Standard configuration: Battery side roll-out + trolley(optional)
Options
/ S.O~12.5M full free triplex mast is made of imported steel channels
/ Camera system
/ Height level selection/Fork height display
/ GPS system
/ Panoramic glazed overhead guard
/ Big capacity battery according DIN STD
/ Various length forks
/ Drive in rack overhead guard
/ GRAMMER MSG531 seat

Standard specification
/ SCHABMULLER AC traction motor
/ SCHABMULLER AC steering motor
/ HEPU AC pump motor
/ Electric Parking Brake (EPB) system
/ Load wheel adopts electromagnetic proportional braking technology
/ INMOTION control system
/ Real-time shifting between 360°steering mode and 180°steering mode
/ Electric Power Steering (EPS) system
/ GRAMMER Fingertip system
/ PU tyre
/ LED headlamp
/ Alarm lamp
/ 4 modes power selection
/ SM full free triplex mast
/ SAUER-DANFOSS 4 spools control valve
/ Load backrest
/ PE LLD material oil tank
/ Imported lower noise gear pump
/ Energy regenerating during deceleration
/ Battery side roll-out
/ Buffering on lifting limit
/ Soft landing system
/ Blue spot
/ Automatic limit on speed and accelerated speed when steering
/ Lift top buffering (Triplex mast)
/ Mast move forward/backward buffering
/ Automatic speed reduction when the mast lifting high position (Triplex mast)

BATTERY OPTION

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Note: ● Standard ○ Optional x Cannot choose