



## X Series Internal Combustion Tractor

with capacities of 2,000 to 3,000kg



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ISO45001  
ISO45001:2018



ISO14001  
ISO14001:2015



ISO9001  
ISO9001:2015



HANGCHA trucks conform  
to the European Safety  
Requirements.

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# X Series Internal Combustion Tractor

Representing the design concept of safety, reliability, comfort and environmental protection, the X series 2-3 ton internal combustion tractor has been completely improved in safety, comfort and reliability through a new design and the performance of the vehicle has been greatly improved compared with the prior products.

## Appearance

- / The body has a stylish profile formed by a combination of large arcs and streamlined curved surfaces. The low chassis and the cab are arranged appropriately, bringing visual tension and sense of power and following the latest international trend of exterior design.
- / The vehicle is compact in appearance and the exposed parts are environmentally friendly large stamped metal parts, which are robust and reliable. The interior is composed of large injection molded parts, which are integrally molded, fully cover the inside and are luxurious and generous.

## Safety and reliability

- / The front part, beam, etc., which are molded with 16mm thick steel plates, and the welded body, all have high strength and are suitable for pushing operations.
- / The foolproof self-limited gear shifter (hydraulic transmission) makes gear shifting easy and reliable.
- / The traction device with a safety buckle and self-locking function provides double protection and prevents the traction pin from jumping or being mis-operated.
- / With the electrical main switch, emergency shut-off and stalling can be performed safely and reliably.
- / A load-sensing proportional vacuum booster-equipped braking system, which is a double-chamber and double-pipeline all-wheel braking system with front and rear partial pressure, a large boost ratio and dynamically adjusted brake pressure, enables safe, stable and reliable braking. The large-capacity vacuum cylinder designed can even reliably assist braking when the vehicle is unpowered.

## Environmental protection

- / Well matching the high-efficiency gearbox, the low-speed and high-torque engine provides strong power and enables high efficiency and good economy of the vehicle.
- / The emission complies with national standards, and a higher level of environmental protection configuration is optional (in compliance with the national test standard IV).
- / Asbestos-free materials, which can be recycled and reused, are used for the vehicle.





## Comfort

- / With the human-machine interaction system that consists of compact and reliable novel digital multifunctional instruments with clear liquid crystal displays, a combination rocker switch and a standard speedometer, the operations of the vehicle can be shown clearly.
- / A synchronous steering system with a hand wheel automatic rebounding function, good stability and a steering force of less than 10N operates according to road conditions, and is especially applicable to long-distance roads such as airports.
- / An optional automatic gear shifting system (hydraulic transmission) is easier to operate.
- / The advanced low-chassis elastic suspension technology and the long wheelbase and large flexibility design enable a great ride comfort.
- / The wide-view cab with an integral frame is flexibly connected to the body, and has good sealing, sound insulation, vibration isolation and heat insulation, etc. to improve the driver's comfort and operation easiness.

## Standard Specification

- / Headlights (high-beam and low-beam)
- / Turn signal lights
- / Combination LED tail lights
- / Oil gauge
- / Water thermometer
- / Engine hour counter
- / Engine oil pressure alarm
- / Gearbox oil temperature alarm
- / Gearbox oil pressure meter
- / Electric horn
- / Reverse buzzer
- / Main power switch
- / Speedometer
- / Front wiper
- / Reflective mirror
- / Rearview mirror
- / Large integral rubber pedal pads
- / Boarding handle
- / Synchronous steering system
- / Steering wheel adjusting device
- / Vacuum assistant braking system
- / Neutral gear safety switch

## Maintainability

- / With the design of a wide-opened hood, when the hood is opened, the engine, fuel tank, water tank, oil pump, steering gear, brake master cylinder, etc. are all exposed to facilitate repair and maintenance.
- / The electrical controllers are arranged concentratedly and the fuses are installed separately to facilitate maintenance.
- / Three large check openings are provided. Open the easy-to-remove bottom plate and then the steering gear, vacuum cylinder, gearbox, fuel system, etc. are all exposed to facilitate maintenance.

## Options

- / Police light
- / Rear work light
- / Speed limit alarm
- / Traction pin height scheme
- / Full closed cab
- / Awning
- / Front wiper
- / Air conditioner
- / Fuel tank cap locked
- / Front hook
- / Solid tire
- / User specified colors
- / Cup holder
- / Fire extinguisher
- / Tool box



# X Series 2.0-3.0t Internal Combustion Tractor Specification

|                       |                    | HANGCHA GROUP CO.,LTD.                                       |                        |                    |              |              |                    |              |              |                    |              |              |                    |              |              |                    |              |  |
|-----------------------|--------------------|--|------------------------|--------------------|--------------|--------------|--------------------|--------------|--------------|--------------------|--------------|--------------|--------------------|--------------|--------------|--------------------|--------------|--|
| Distinguishing mark   | 1.1                | Manufacturer   | HANGCHA GROUP CO.,LTD. |                    |              |              |                    |              |              |                    |              |              |                    |              |              |                    |              |  |
|                       | 1.2                | Manufacturer's type designation                              | Model                  | QCD20-XEH8         | QCD25-XEH8   | QCD30-XEH8   | QCD20-XH8B         | QCD25-XH8B   | QCD30-XH8B   | QCD20-XH5B         | QCD25-XH5B   | QCD20-XG99B  | QCD25-XG99B        | QCD30-XG99B  | QCD20-XEG99  | QCD25-XEG99        | QCD30-XEG99  |  |
|                       | 1.3                | Drive: electric (battery or mains), diesel, petrol, fuel gas |                        | Diesel             | Diesel       | Diesel       | Diesel             | Diesel       |  |
|                       | 1.7                | Rated drawbar pull   | F(N)                   | 20000              | 25000        | 30000        | 20000              | 25000        | 30000        | 20000              | 25000        | 20000        | 25000              | 30000        | 20000        | 25000              | 30000        |  |
| Weight                |                    | Towing Weight(one pallet)                                    | kg                     | 26000              | 33000        | 36000        | 26000              | 33000        | 36000        | 26000              | 33000        | 26000        | 33000              | 36000        | 26000        | 33000              | 36000        |  |
|                       |                    | Towing Weight(Two pallet)                                    | kg                     | 39000              | 49000        | 54000        | 39000              | 49000        | 54000        | 39000              | 49000        | 39000        | 49000              | 54000        | 39000        | 49000              | 54000        |  |
|                       | 1.9                | Wheelbase  | y (mm)                 | 1700               | 1700         | 1700         | 1700               | 1700         | 1700         | 1700               | 1700         | 1700         | 1700               | 1700         | 1700         | 1700               | 1700         |  |
| Tyres, chassis weight | 2.1                | Service Weight(Including cab)                                | kg                     | 3330               | 3610         | 4080         | 3330               | 3610         | 4080         | 3330               | 3610         | 3330         | 3610               | 4080         | 3330         | 3610               | 4080         |  |
|                       | 2.3                | Axle loading, unladen front/rear                             | kg                     | 1080/2250          | 1030/2680    | 1010/3070    | 1080/2250          | 1030/2680    | 1010/3070    | 1070/2260          | 1030/2580    | 1070/2260    | 1030/2580          | 1010/3070    | 1070/2260    | 1030/2580          | 1010/3070    |  |
|                       | 3.2                | Tyre size, front   |                        | 6.50-10-10PR       | 6.50-10-10PR | 6.50-10-10PR | 6.50-10-10PR       | 6.50-10-10PR |  |
| Dimensions            | 3.3                | Tyre size, rear  |                        | 7.00-12-12PR       | 7.00-12-12PR | 28×9-15-14PR | 7.00-12-12PR       | 7.00-12-12PR | 28×9-15-14PR | 7.00-12-12PR       | 7.00-12-12PR | 7.00-12-12PR | 7.00-12-12PR       | 28×9-15-14PR | 7.00-12-12PR | 7.00-12-12PR       | 28×9-15-14PR |  |
|                       | 3.6                | Tread, front   | b10 (mm)               | 1322               | 1322         | 1322         | 1322               | 1322         | 1322         | 1322               | 1322         | 1322         | 1322               | 1322         | 1322         | 1322               |              |  |
|                       | 3.7                | Tread, rear  | b11 (mm)               | 1280               | 1280         | 1260         | 1280               | 1280         | 1260         | 1280               | 1280         | 1280         | 1280               | 1260         | 1280         | 1280               |              |  |
| Performance data      | 4.7                | Height of overhead guard                                     | h6 (mm)                | 1890               |              |              | 1890               |              |              | 1890               |              |              | 1890               |              |              | 1890               |              |  |
|                       | 4.12               | Coupling height  | h10 (mm)               | 450                |              |              | 450                |              |              | 450                |              |              | 450                |              |              | 450                |              |  |
|                       | 4.19               | Overall length   | l1 (mm)                | 3080               |              |              | 3080               |              |              | 3080               |              |              | 3080               |              |              | 3080               |              |  |
|                       | 4.21               | Overall width  | b1(mm)                 | 1480               |              |              | 1480               |              |              | 1480               |              |              | 1480               |              |              | 1480               |              |  |
|                       | 4.32               | Ground clearance, centre of wheelbase                        | m2 (mm)                | 120                |              |              | 120                |              |              | 120                |              |              | 120                |              |              | 120                |              |  |
| Combustion-engine     | 4.35               | Turning radius   | Wa (mm)                | 3250               |              |              | 3250               |              |              | 3250               |              |              | 3250               |              |              | 3250               |              |  |
|                       | 5.1                | Travel speed, laden/unladen                                  | km/h                   | -/25               | -/25         | -/26         | -/28               | -/28         | -/29         | -/27               | -/27         | -/28         | -/28               | -/29         | -/28.5       | -/28.5             | -/23         |  |
|                       | 5.7                | Gradeability, laden/unladen                                  | %                      | -/30               |              |              | -/30               |              |              | -/30               |              |              | -/30               |              |              | -/30               |              |  |
|                       | 5.10               | Service brake  |                        | Vacuum power brake |              |              | Vacuum power brake |              |              | Vacuum power brake |              |              | Vacuum power brake |              |              | Vacuum power brake |              |  |
| Performance data      |                    | Parking brake  |                        | Mechanical         |              |              | Mechanical         |              |              | Mechanical         |              |              | Mechanical         |              |              | Mechanical         |              |  |
|                       | 7.1                | Engine manufacturer/type                                     |                        | XINCHAI/4E30       |              |              | XINCHAI/4E30       |              |              | Cummins/F2.8CS449  |              |              | Cummins/F2.8CS449  |              |              | Xinchai/4E30       |              |  |
|                       |                    | Emission STD.  |                        | Euro V             |              |              | Euro V             |              |              | /                  |              |              | /                  |              |              | /                  |              |  |
|                       | 7.2                | Engine power according to DIN ISO 1585                       | kw                     | 55.8               |              |              | 55.8               |              |              | 36                 |              |              | 36                 |              |              | 55.8               |              |  |
|                       | 7.3                | Rated speed  | min                    | 2600               |              |              | 2600               |              |              | 2500               |              |              | 2500               |              |              | 2600               |              |  |
|                       | 7.4                | Number of cylinders/displacement                             | (-)/(cm³)              | -/2970             |              |              | -/2970             |              |              | -/2800             |              |              | -/2800             |              |              | -/2970             |              |  |
|                       | 7.10               | Battery voltage/nominal capacity                             | V/AH                   | 12/90              |              |              | 12/90              |              |              | 12/90              |              |              | 12/90              |              |              | 12/90              |              |  |
|                       |                    | Rated Torque   | N·m/(r/min)            | 268/1700-1900      |              |              | 268/1700-1900      |              |              | 186/1500           |              |              | 186/1500           |              |              | 268/1700-1900      |              |  |
|                       |                    | Bore×Stroke  | mm                     | 94×107             |              |              | 94×107             |              |              | 94×100             |              |              | 94×100             |              |              | 94×107             |              |  |
|                       |                    | Transmission Manufacture                                     |                        | china              |              |              | OKAMURA            |              |              | OKAMURA            |              |              | OKAMURA            |              |              | China              |              |  |
|                       | Transmission Type  |  | Hydraulic              |                    |              | Hydraulic    |                    |              | Hydraulic    |                    |              | Hydraulic    |                    |              | Hydraulic    |                    |              |  |
|                       | Gear Fwd/Rvs       |  | 2/1                    |                    |              | 2/1          |                    |              | 2/1          |                    |              | 2/1          |                    |              | 2/1          |                    |              |  |
| 10.4                  | Fuel tank capacity | liter  | 80                     |                    |              | 80           |                    |              | 80           |                    |              | 80           |                    |              | 80           |                    |              |  |

Remark: The maximum drawbar pull in the table are measured in dry concrete level off the road(Attachment coefficient of 0.8), the maximum drawbar will change as Attachment coefficient.

