



**HANGCHA GROUP CO., LTD.**

**Factory site:** 666 Xiangfu Road,  
Hangzhou, Zhejiang, China (311305)

Tel: +86-571-88926735 88926755  
Fax: +86-571-88926789 88132890

sales@hcforklift.com  
www.hcforklift.com



Follow us on  
Facebook



Follow us on  
YouTube



Follow us on  
WeChat



Download "Hangcha  
Forklift" App



ISO45001:2018



ISO14001:2015



ISO9001:2015



HANGCHA trucks conform  
to the European Safety  
Requirements.

2024 VERSION 1.1 COPYRIGHT 2024/03

HANGCHA GROUP CO., LTD. reserves the right to make any changes without notice concerning colors, equipment, or specifications detailed in this brochure, or to discontinue individual models. The colors of trucks, delivered may differ slightly from those in brochures.



## X Series Internal Combustion Tractor

with capacities of 3,500 to 8,000kg

*The World of Hangcha*  
SINCE 1956



# X Series Internal Combustion Tractor

Representing the design concept of safety, reliability, comfort and environmental protection, Hangcha's X series 3.5-8.0 ton internal combustion tractor has the features of high power, large traction force, high operating efficiency, etc. and is suitable for medium and short distances and point-to-point logistics transportation.



## Exterior

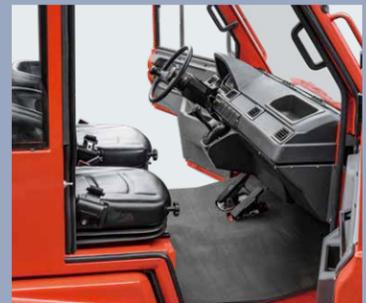
- / The body has a stylish profile formed by a combination of large arcs and streamlined curved surfaces. The easy pass-through chassis and the cab are arranged appropriately, bringing visual tension and sense of power and following the latest international trend of exterior design.
- / The vehicle is 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 20mm thick steel plates and the welded body, all have high strength and are suitable for pushing operations.
- / Two sets of independent air-push-liquid all-wheel braking systems, with double pipelines arranged in an X shape and front and rear partial pressure, enable safe, stable and reliable braking and are suitable for remote control of trailer braking. With the air cylinder design, they can even brake reliably when not powered.
- / The foolproof self-limited gear shifter 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.

## 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.
- / Special forklift technologies such as a horizontal cylinder steering axle, a full hydraulic steering gear, etc. are used and the steering force is less than 10N.
- / The advanced 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. It is equipped with a cooling and heating air conditioner to improve the driver's comfort and operating ease.



## 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.

## Maintainability

- / With the design of a wide-opened hood, when the hood is opened, the engine, fuel tank, water tank, oil pump, steering gear, etc. are all exposed to facilitate repair and maintenance.
- / The electrical controllers, battery, etc. are arranged concentratedly and the fuses are installed separately to facilitate maintenance.

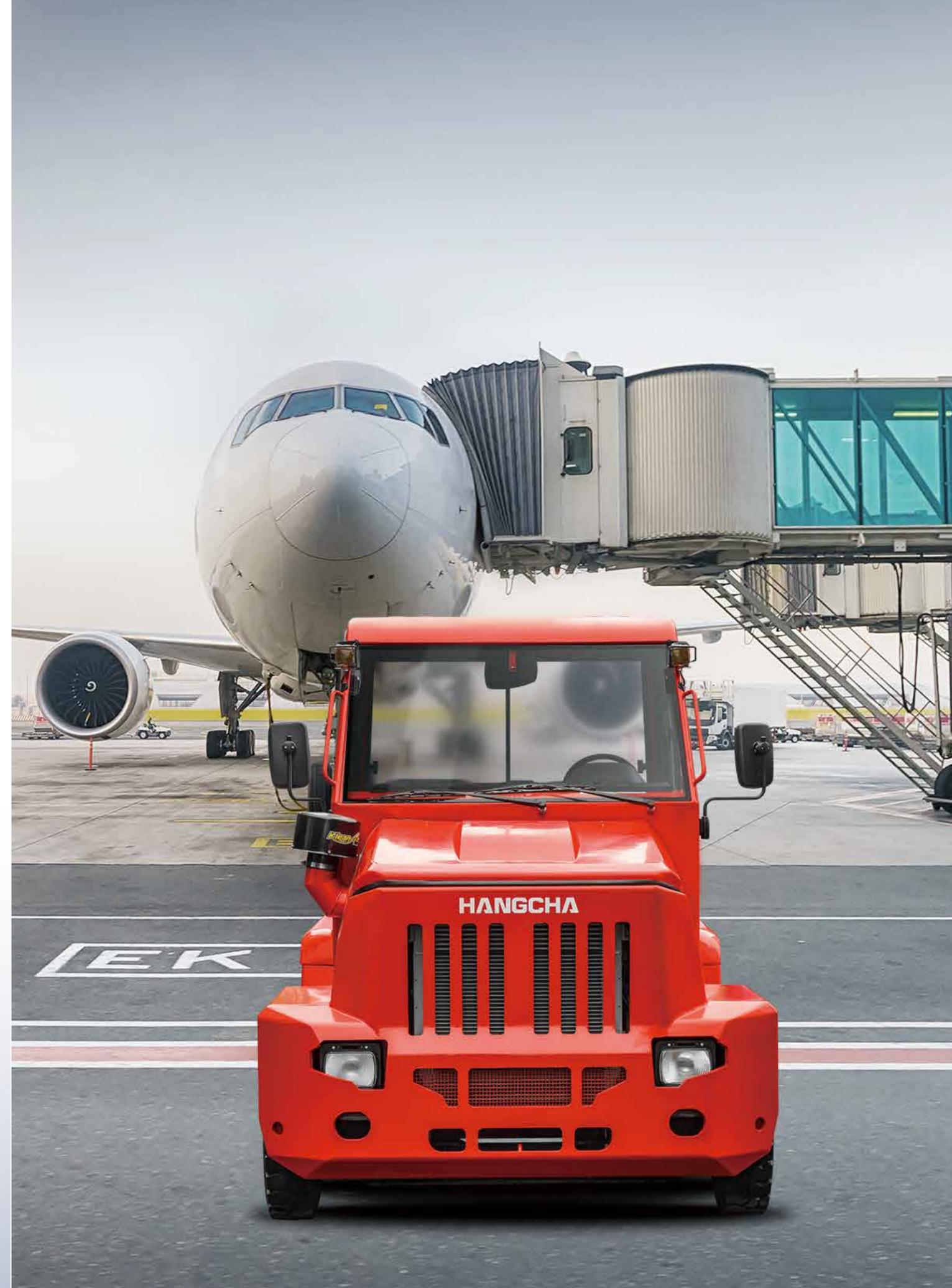


## Standard Specification

- / 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
- / Fully-suspended seat
- / Electric horn
- / Reverse buzzer
- / Main power switch
- / Speedometer
- / Cup holder
- / Fire extinguisher
- / Front wiper
- / Reflective mirror
- / Rearview mirror
- / Ceiling light
- / Large integral rubber pedal pads
- / Boarding handle
- / Fully hydraulic steering
- / Steering wheel adjusting device
- / Air-push-liquid braking system
- / Heater
- / Front glass defroster
- / Neutral gear safety switch

## Options

- / Police light
- / Rear work light
- / Speed limit alarm
- / Traction pin height scheme
- / Awning
- / Front wiper
- / Air conditioner
- / Fuel tank cap locked
- / Front hook
- / Solid tire
- / Remote trailer braking and electrical output
- / User specified colors
- / Tool box



# X Series 3.5-8.0t Internal Combustion Tractor Specification

|                     |                    | HANGCHA GROUP CO.,LTD.                                       |                      |                  |            |                |             |             |                |             |            |                |            |             |                               |             |           |  |  |  |
|---------------------|--------------------|--|----------------------|------------------|------------|----------------|-------------|-------------|----------------|-------------|------------|----------------|------------|-------------|-------------------------------|-------------|-----------|--|--|--|
| Distinguishing mark | 1.1                | Manufacturer   |                      |                  |            |                |             |             |                |             |            |                |            |             |                               |             |           |  |  |  |
|                     | 1.2                | Manufacturer's type designation                              | QCD35-XG87           | QCD40-XG87       | QCD45-XG87 | QCD50-XG87     | QCD35-XG87B | QCD40-XG87B | QCD45-XG87B    | QCD50-XG87B | QCD60-XG90 | QCD70-XG90     | QCD80-XG90 | QCD60-XG90B | QCD70-XG90B                   | QCD80-XG90B |           |  |  |  |
|                     | 1.3                | Drive: electric (battery or mains), diesel, petrol, fuel gas | Diesel               |                  |            |                |             |             |                |             |            |                |            |             |                               |             |           |  |  |  |
|                     | 1.7                | Rated drawbar pull   | N                    | 35000            | 40000      | 45000          | 50000       | 35000       | 40000          | 45000       | 50000      | 60000          | 70000      | 80000       | 35000                         | 40000       | 45000     |  |  |  |
|                     |                    | Towing Weight(one pallet)                                    | kg                   | 47000            | 53000      | 60000          | 66000       | 47000       | 53000          | 60000       | 66000      | 80000          | 90000      | 100000      | 47000                         | 53000       | 60000     |  |  |  |
|                     |                    | Towing Weight(Two pallet)                                    | kg                   | 70000            | 80000      | 90000          | 100000      | 70000       | 80000          | 90000       | 100000     | 120000         | 135000     | 150000      | 70000                         | 80000       | 90000     |  |  |  |
| Weight              | 1.9                | Wheelbase  | y (mm)               | 2170             | 2170       | 2170           | 2170        | 2170        | 2170           | 2170        | 2170       | 2170           | 2170       | 2170        | 2170                          | 2170        |           |  |  |  |
|                     | 2.1                | Service Weight   | kg                   | 5800             | 6300       | 6800           | 7300        | 5800        | 6300           | 6800        | 7300       | 8600           | 9600       | 10600       | 8600                          | 9600        | 10600     |  |  |  |
| Tyres, chassis      | 2.3                | Axle loading, unladen front/rear                             | kg                   | 1750/4050        | 1750/4550  | 1750/5050      | 1750/5550   | 1750/4050   | 1750/4550      | 1750/5050   | 1750/5550  | 1750/6850      | 1750/7850  | 1750/8850   | 1750/6850                     | 1750/7850   | 1750/8850 |  |  |  |
|                     | 3.2                | Tyre size, front   | 2-7.00-12-12PR       |                  |            |                |             |             |                |             |            |                |            |             |                               |             |           |  |  |  |
|                     | 3.3                | Tyre size, rear  | 4-7.50-16-14PR       |                  |            | 4-8.25-15-14PR |             |             | 4-7.50-16-14PR |             |            | 4-8.25-15-14PR |            |             | 4-9.00-20-14PR 4-8.25-15-14PR |             |           | 4-9.00-20-14PR 4-8.25-15-14PR 4-8.25-15-14PR |  |  |
|                     | 3.6                | Tread, front   | b10 (mm)             | 1740             |            |                |             |             |                |             |            |                |            |             |                               |             |           |  |  |  |
| Dimensions          | 3.7                | Tread, rear  | b11 (mm)             | 1420             |            |                |             |             |                |             |            |                |            |             |                               |             |           |  |  |  |
|                     | 4.7                | Height of overhead guard (cabin)                             | h6 (mm)              | 2422             |            |                |             |             |                |             |            |                |            |             |                               |             |           |  |  |  |
|                     | 4.12               | Coupling height  | h10 (mm)             | 470              |            |                |             |             |                |             |            |                |            |             |                               |             |           |  |  |  |
|                     | 4.19               | Overall length   | l1 (mm)              | 3825             |            |                |             |             |                |             |            |                |            |             |                               |             |           |  |  |  |
|                     | 4.21               | Overall width  | b1 (mm)              | 1930             |            |                |             |             |                |             |            |                |            |             |                               |             |           |  |  |  |
|                     | 4.32               | Ground clearance, centre of wheelbase                        | m2 (mm)              | 200              |            |                |             |             |                |             |            |                |            |             |                               |             |           |  |  |  |
|                     | 4.35               | Turning radius   | Wa (mm)              | 3850             |            |                |             |             |                |             |            |                |            |             |                               |             |           |  |  |  |
| Performance data    | 5.1                | Travel speed, laden/unladen                                  | km/h                 | -/22             |            |                |             |             |                |             |            |                |            |             |                               |             |           |  |  |  |
|                     | 5.7                | Gradeability, laden/unladen                                  | %                    | -/30             |            |                |             |             |                |             |            |                |            |             |                               |             |           |  |  |  |
|                     | 5.10               | Service brake  |                      | Steam Push Fluid |            |                |             |             |                |             |            |                |            |             |                               |             |           |  |  |  |
|                     |                    | Parking brake  |                      | Mechanical       |            |                |             |             |                |             |            |                |            |             |                               |             |           |  |  |  |
| Combustion-engine   | 7.1                | Engine manufacturer/type                                     | YUCHAI/YCA05115-T480 |                  |            |                |             |             |                |             |            |                |            |             |                               |             |           |  |  |  |
|                     |                    | Emission STD.  | CN Stage IV          |                  |            |                |             |             |                |             |            |                |            |             |                               |             |           |  |  |  |
|                     | 7.2                | Engine power according to DIN ISO 1585                       | kw                   | 85               |            |                |             |             |                |             |            |                |            |             |                               |             |           |  |  |  |
|                     | 7.3                | Rated speed  | min                  | 2200             |            |                |             |             |                |             |            |                |            |             |                               |             |           |  |  |  |
|                     | 7.4                | Number of cylinders/displacement                             | (-)/(cm³)            | -/4837           |            |                |             |             |                |             |            |                |            |             |                               |             |           |  |  |  |
|                     | 7.10               | Battery voltage/nominal capacity                             | V/Ah                 | 24/90            |            |                |             |             |                |             |            |                |            |             |                               |             |           |  |  |  |
|                     |                    | Rated Torque   | Nm/(r/min)           | 480/1600-1800    |            |                |             |             |                |             |            |                |            |             |                               |             |           |  |  |  |
|                     |                    | Bore×Stroke  | mm                   | 108×132          |            |                |             |             |                |             |            |                |            |             |                               |             |           |  |  |  |
|                     |                    | Transmission Manufacture                                     |                      | CHINA            |            |                |             |             |                |             |            |                |            |             |                               |             |           |  |  |  |
|                     |                    | Transmission Type  |                      | Powershift       |            |                |             |             |                |             |            |                |            |             |                               |             |           |  |  |  |
|                     | Gear Fwd/Rvs       |  | 2/1                  |                  |            |                |             |             |                |             |            |                |            |             |                               |             |           |  |  |  |
| 10.4                | Fuel tank capacity | liter  | 165                  |                  |            |                |             |             |                |             |            |                |            |             |                               |             |           |  |  |  |

