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"Hangcha Forklift"  
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ISO14001  
ISO14001:2015



ISO9001  
ISO9001:2015



HANGCHA trucks conform  
to the European Safety  
Requirements.

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## X Series Internal Combustion Tractor

with capacities of 2,000 to 3,000kg

*The World of Hangcha*  
SINCE 1956



# 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	Diesel	Diesel	Diesel	Diesel	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	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	6.50-10-10PR	6.50-10-10PR	6.50-10-10PR	6.50-10-10PR	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.

