

X Series IC Forklift Truck

with capacities of 12,000 to 16,000kg



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The World of Hangcha



X SERIES IC FORKLIFT TRUCK

Professional industrial exterior design, high product recognition, compact and smooth modelling, modern industrial aesthetics. The concealed arrangement of exposed parts makes the exterior cleaner and neater.

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The key parts of the old products have been verified to be reliable and durable by the market for many years, and with modular and standardized design, the main parts are verified step by step in advance, so that the vehicle is highly mature. Structural parts such as the frame, mast, etc. are upgraded and optimized on the basis of existing products, and are verified through CAE analysis and testing.

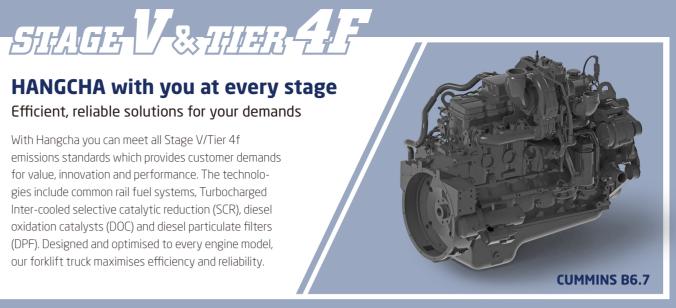
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The degree of digitization is improved. With bus architecture and several built-in diagnosis and management functions, a central controller is added to the vehicle to enable a central fault alarm, simplified operations, easy diagnosis and flexible configuration of electrical functions.

B







OKAMURA gear box with microelectronic control provides for twoshift power shifting, travelling is stable and accurate.



Optional imaging system with front and rear camera, increasing the safety greatly.



Battery compartment is easy to open for easy maintenance.



The newly designed LCD instrument has more comprehensive functions and more stable performance. It can display the important information such as truck status and engine faults... So that the operator can understand the truck status more intuitively and facilitate maintenance.



Thanks to the unique design, cab can be tilt without any tools, major service items can be reached easily by tilting the cabin, maximized access is possible.



Excellent all round visibility is achieved by the overall design.



Suspended seat with fingertip system that can be easily adjusted to suit each customer.



Heavy-duty traction axle, two-stage deceleration; Wet brake, maintenancefree; Hydraulic release spring action parking brake, safe and reliable.



Comfort

The compact integral joystick enables accurate remote control. The optimized hydraulic braking curve enables smooth easy-to-control braking. The suspended seat and ergonomically-movable multidirectional adjustable console enable comfortable control.

High Performance

The configuration is improved. A new cab, wet braking drive axle, hydraulic adjustable fork, LCD bus instruments, cooling and heating air conditioner, vehicle LED lights, snail horn and reversing radar and other equipment are provided for the standard configuration. With reserved design, the optional equipment is greatly increased.

Performance is improved and the average operation efficiency is increased by more than 10%.

The overturnable cab, wide-opened hood, devices enable easy access to the oil and water, and the easy-to-dismount large electric control cover plate, make maintenance more convenient.



Fully-suspended all-round vision cab

The new fully-suspended all-round vision cab (HPC) and optimized vehicle outline enable all-round sight and view. Performance of the air conditioner is improved to enable uniform conditioned air blowing from the air outlet and a strong cooling effect. The waterproof, dust-proof, heatproof, soundproof, noise-reducing sealing design improves driving comfort. The molded interior parts enable a more comfortable feel. The integral frame is constituted by profiled steel pipes. The structural parts have higher strength.





The fully-suspended seat, ergonomic steering wheel and control platform make driving a pleasure.

A wide view reduces hidden safety hazards caused by blind corners when the vehicle is driving. A spindle and a hydraulic self-locking mechanism are used to connect the cab and the vehicle frame. When the electric or manual hydraulic pump is started, the hydraulic lock is automatically opened and at the same time, the hydraulic cylinder at the bottom of the cab sticks out so that the cab is flipped sideways over the center of gravity, improving the dimension. Safety and convenience of maintenance are improved.

Ergonomic Design

operation.

Safety



The fully enclosed suspended cab has a curved front window that enables a large viewing angle and has its sides cut in a way different from that for the prior window. The cab doors are all glass, which increases the overall visual range. The exterior design of the whole vehicle is at the forefront of the development of forklift design. Being sturdy and elegant in appearance, the vehicle is practical and stylish. The integrated interior design is simple and comfortable, presenting visual enjoyment to the driver.



The steering wheel, joystick, control buttons, pedals and seat are all ergonomically designed for easier



Standard Specification

- / Duplex wide-view mast
- / Hydraulic prong adjustment
- / Standard fork
- / Cab
- / Cooling and heating air conditioner
- / Fully hydraulic power steering
- / Quadruple multiway valve
- / Chair sensing system
- / Armrest's multi-directional adjustment device
- / Steering wheel adjusting device
- / Self-locking valve in the tilting fuel circuit
- / Speed limit valve in the lifting fuel circuit
- / High-position emission device
- / Traction device
- / Main power switch
- / Reversing radar
- / LCD bus instrument
- / Neutral indicator
- / Parking braking indicator
- / Charge indicator
- / Preheating indicator
- / Engine oil pressure alarm
- / Air filter alarm
- / Accumulator low pressure alarm
- / Hydraulic oil filter alarm
- / Oil-water separator alarm
- / Engine failure alarm
- / Vehicle LED lights
- / Water thermometer
- / Oil gauge
- / Oil temperature meter
- / Engine hour counter
- / Pneumatic tire
- / Reverse buzzer
- / Snail horn
- / Manual tipping pump
- / Vehicle toolkit
- / Cab fan



Options

- / User specified color
- / Forks of other specifications
- / Masts of other specifications
- / Solid tire
- / Vehicle intercom
- / Reverse voice buzzer
- / Electronic alarm light (with\without a control switch)
- / Rearview system (optionally with a memory)
- / Front and rear view systems (optionally with a memory, respectively)
- / Spark arrester
- / Fire extinguisher (2kg \ 4kg)
- / Automatic fire extinguisher
- / Mast LED operation light
- / Four-channel driving record system
- / Speed limit
- / Blue light
- / Weighing system
- / Air prefilter
- / Electrostatic belt
- / Electric tipping pump

X Series IC Forklift Truck 12-16t Specification

	11	Manufacturer		HANGCHA GROUP CO.,LTD.													
	1.2	Manufacturer's type designation		CPCD1 20 VPVC5 7P					CPCD140-XRXW25B	CPCD140-XRXH13B	CPCD160-XRXG57B	CPCD160-XRXW25B				CPCD160-XRMW25B	CPCD160-XRMH13B
Distinguishing mark	L	Drive: electric (battery or mains), diesel, petrol, fuel gas		Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
				Seated	Seated	Seated	Seated	Seated	Seated	Seated	Seated	Seated	Seated	Seated	Seated	Seated	Seated
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		12000	12000	12000	12000	14000	14000	14000	16000	16000	16000	16000	16000	16000	16000
		Rated capacity/rated load	Q (kg)														
Dis	1.6	Load centre distance	c (mm)	600	600	600	900	600	600	600	600	600	600	600	750	750	750
	1.8	Load distance, centre of drive axle to fork	x (mm)	745	745	745	835	825	825	825	825	825	825	825	880	880	880
	1.9	Wheelbase	y (mm)	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3300	3300	3300
Weight	2.1	Service Weight	kg	16000	16000	16000	16900	18200	18200	18200	19200	19200	19200	19200	20300	20300	20300
Tyres, chassis	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic
	3.2	Tyre size, front		10.00-20-14PR	10.00-20-14PR	10.00-20-14PR	10.00-20-14PR	11.00-20-18PR	11.00-20-18PR	11.00-20-18PR	12.00-20-20PR	12.00-20-20PR	12.00-20-20PR	12.00-20-20PR	12.00-20-20PR	12.00-20-20PR	12.00-20-20PR
	3.3	Tyre size, rear		10.00-20-14PR	10.00-20-14PR	10.00-20-14PR	10.00-20-14PR	11.00-20-18PR	11.00-20-18PR	11.00-20-18PR	12.00-20-20PR	12.00-20-20PR	12.00-20-20PR	12.00-20-20PR	12.00-20-20PR	12.00-20-20PR	12.00-20-20PR
	3.5	Wheels, number front / rear (x = driven wheels)		4×/2	4×/2	4×/2	4×/2	4×/2	4×/2	4×/2	4×/2	4×/2	4×/2	4×/2	4×/2	4×/2	4×/2
	3.6	Tread, front	b10 (mm)	1780	1780	1780	1780	1780	1780	1780	1780	1780	1780	1780	1780	1780	1780
	3.7	Tread, rear	b11 (mm)	1890	1890	1890	1890	1890	1890	1890	1890	1890	1890	1890	1890	1890	1890
	4.1	Tilt of mast/fork carriage forward/backward	α/β(°)	6/12	6/12	6/12	6/12	6/12	6/12	6/12	6/12	6/12	6/12	6/12	6/12	6/12	6/12
	4.2	Height, mast lowered	h1 (mm)	3180	3180	3180	3270	3270	3270	3270	3290	3290	3290	3290	3290	3290	3290
	4.3	Free lift	h₂ (mm)	0	0	0	0	0	0	0	0	0	90	0	0	0	0
	4.4	Lift	h₃ (mm)	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000
	4.5	Height, mast extended	h4 (mm)	4695	4695	4695	4790	4790	4790	4790	4790	4790	4790	4790	4790	4790	4790
	4.7	Height of overhead cabin	h6 (mm)	3265	3265	3265	3265	3280	3280	3280	3300	3300	3300	3300	3300	3300	3300
su	4.8	Seat height relating to SIP	h7 (mm)	1930	1930	1930	1930	1945	1945	1945	1965	1965	1965	1965	1965	1965	1965
	4.12	Coupling height	h10 (mm)	600	600	600	600	615	615	615	635	635	635	635	635	635	635
	4.19	Overall length	lı (mm)	6190	6190	6190	6580	6260	6260	6260	6380	6380	6380	6380	6930	6930	6930
Dimensions	4.20	Length to face of forks	Iz (mm)	4690	4690	4690	4780	4760	4760	4760	4880	4880	4880	4880	5130	5130	5130
l ner	4.21	Overall width	b1/b2(mm)	2460/2200	2460/2200	2460/2200	2460/2200	2460/2200	2460/2200	2460/2200	2460/2200	2460/2200	2460/2200	2460/2200	2460/2200	2460/2200	2460/2200
- in the second	<u> </u>	Fork dimensions	s/e/l (mm)	80×200×1500	80×200×1500	80×200×1500	100×200×1800	90×200×1500	90×200×1500	90×200×1500	90×200×1500	90×200×1500	85×200×1500	90×200×1500	100×200×1800	100×200×1800	100×200×1800
		Fork-carriage width	b₃ (mm)	2370	2370	2370	2370	2370	2370	2370	2370	2370	2370	2370	2370	2370	2370
	<u> </u>	•	bs (mm)	520/2200	520/2200	520/2200	520/2200	520/2200	520/2200	520/2200	520/2200	520/2200	520/2200	520/2200	520/2200	520/2200	520/2200
	4.31	Ground clearance, laden, below mast	m1 (mm)	250	250	250	250	250	250	250	270	270	270	270	270	270	270
	L	Ground clearance, centre of wheelbase	m2 (mm)	310	310	310	310	325	325	325	345	345	345	345	345	345	345
	4.34.1	Aisle width with load length 1500mm	Ast (mm)	6800	6800	6800	7190	6875	6875	6875	6975	6975	6975	6975	7630	7630	7630
	<u> </u>	Aisle width with load length 1800mm	Ast (mm)	7100	7100	7100	7190	7175	7175	7175	7275	7275	7275	7275	7630	7630	7630
	4.35	Turning radius	Wa (mm)	4350	4350	4350	4350	4350	4350	4350	4450	4450	4450	4450	4750	4750	4750
		Minimum pivoting point distance	b13 (mm)	1480	1480	1480	1480	1480	1480	1480	1480	1480	1480	1480	1480	1480	1480
	5.1	Travel speed, laden/unladen	km/h	24/28	24/28	24/28	24/28	25/29	25/29	25/29	25/29	25/29	22/27	25/29	25/29	25/29	25/29
đ	5.2	Lift speed, laden/unladen	m/s	0.34/0.36	0.34/0.36	0.34/0.36	0.34/0.36	0.35/0.38	0.35/0.38	0.35/0.38	0.35/0.38	0.35/0.38	0.32/0.35	0.35/0.38	0.35/0.38	0.35/0.38	0.35/0.38
data		Lowering speed, laden/unladen	m/s	0.45/0.40	0.45/0.40	0.45/0.40	0.45/0.40	0.45/0.40	0.45/0.40	0.45/0.40	0.45/0.40	0.45/0.40	0.45/0.35	0.45/0.40	0.45/0.40	0.45/0.40	0.45/0.40
L S		Drawbar pull, laden/unladen	N	115000/-	115000/-	115000/-	115000/-	115000/-	115000/-	115000/-	115000/-	115000/-	100000/-	115000/-	115000/-	115000/-	115000/-
ual		Gradeability, laden/unladen	%	20/-	20/-	20/-	20/-	20/-	20/-	20/-	20/-	20/-	20/-	20/-	20/-	20/-	20/-
Lo I	<u> </u>	Service brake		Wet disc brake	Wet disc brake	Wet disc brake	Wet disc brake	Wet disc brake	Wet disc brake	Wet disc brake	Wet disc brake	Wet disc brake	Wet disc brake	Wet disc brake	Wet disc brake	Wet disc brake	Wet disc brake
Performance	5.10	Parking brake		spring applied, hydraulic release multi-disc brake				spring applied, hydraulic release multi-disc brake			spring applied. hydraulic release multi-disc brake			spring applied, hydraulic release multi-disc brake			
ı-engine	7.1	Engine manufacturer/type		YC6J160-T300	QSB 6.7-C160	B6.7	B6.7	YC6J160-T300	QSB 6.7-C160	B6.7	YC6J160-T300	QSB 6.7-C160	QSB6.7	B6.7	YC6J160-T300	QSB 6.7-C160	B6.7
	7.2	Engine power	kW	118	119	116	116	118	119	116	118	119	118	116	118	119	116
	7.3	Rated speed	r/min	2200	2300	2200	2200	2200	2300	2200	2200	2300	2100	2200	2200	2300	2200
	7.4	Number of cylinders/displacement	(-)/(cm ³)	6/6500	6/6700	6/6700	6/6700	6/6500	6/6700	6/6700	6/6500	6/6700	6/6700	6/6700	6/6500	6/6700	6/6700
		Emission Std.			StagelIIA/Tier3	Stage V/Tier 4	Stage V/Tier 4		StagelIIA/Tier3	Stage V/Tier 4		StageIIIA/Tier3	StagelV/Tier4F	Stage V/Tier 4		StageIIIA/Tier3	Stage V/Tier 4
tion	7.9	Vehicle electrical system voltage	V	24	24	24	24	24	24	24	24	24	24	24	24	24	24
	7.10	Battery voltage/nominal capacity	V/Ah	2×12/120	2×12/120	2×12/120	2×12/120	2×12/120	2×12/120	2×12/120	2×12/120	2×12/120	2×12/120	2×12/120	2×12/120	2×12/120	2×12/120
Combus		Rated torque	N·m/r/min	650/1600~1800	731/1500	746/1300	746/1300	650/1600~1800	731/1500	746/1300	650/1600~1800	731/1500	746/1300	746/1300	650/1600~1800	731/1500	746/1300
<u>ں</u>		Transmissions Manufacturer		Okamura	Okamura	Okamura	Okamura	Okamura	Okamura	Okamura	Okamura	Okamura	Okamura	Okamura	Okamura	Okamura	Okamura
		Transmissions Type		Y63270X	Y63270X	Y63270X	Y63270X	Y63270X	Y63270X	Y63270X	Y63270X	Y63270X	Y63270X	Y63270X	Y63270X	Y63270X	Y63270X
		Stage FWD/RVS		2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1
	10.1	Operating pressure for attachments	bar	150	150	150	150	150	150	150	150	150	150	150	150	150	150
E		Oil volume for attachments	l/min	110	110	110	110	110	110	110	110	110	110	110	110	110	110
Addition data		Hydraulic Tank - capacity (drain & refill)	liter	320	320	320	320	320	320	320	320	320	320	320	350	350	350
		Fuel tank capacity	liter	320	320	320	320	320	320	320	320	320	320	320	370	370	370
	<u> </u>	Sound pressure level at the driver's seat	dB (A)	78	78	78	78	78	78	78	78	78	78	78	78	78	78
	10.7	sound pressure revenue are anven a sear	0000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	/0			,,,	/0	,,,	,,,	70	,,,		/0	70	

X Series IC Forklift Truck 12-16t Mast:(Pneumatic)

Type	Model	Max. fork height		Overal	height		Tilt Range	Capacity							
			Lowered		Extended		F/R	Load capacity at 600mm	Load capacity at 600mm Load capacity at 600mm		Load capacity at 750mm				
	Hodel		12t	14t/16t	12t	14t/16t	F/K	12t	14t	16t	16t				
		mm	mm	mm	mm	mm	(°)	kg	kg	kg	kg				
	GXRX120/160/161M300	3000	3180	3290	4695	4790	6/12	12000	14000	16000	16000				
	GXRX120/160/161M330	3300	3330	3440	4995	5090	6/12	12000	12000 14000		16000				
	GXRX120/160/161M360	3600	3480	3590	5295	5390	6/12	12000	14000	16000	16000				
v mast	GXRX120/160/161M400	4000	3680	3790	5695	5790	6/12	12000	14000	16000	16000				
	GXRX120/160/161M430	4300	3880	3990	6030	6140	6/12	12000	14000	16000	16000				
viev	GXRX120/160/161M450	4500	3980	4090	6230	6340	6/12	12000	14000	16000	16000				
Wide	GXRX120/160/161M480	4800	4130	4240	6530	6640	6/6	12000	14000	16000	16000				
3	GXRX120/160/161M500	5000	4230	4340	6730	6840	6/6	12000	14000	16000	16000				
	GXRX120/160/161M550	5500	4530	4640	7280	7390	3/6	10500	12500	14500	14500				
	GXRX120/160/161M600	6000	4780	4890	7780	7890	3/6	9000	11000	13000	13000				
	GXRX120/160/161M650	6500	5080	5190	8330	8440	3/6	7500	9500	11500	11500				

