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ISO9001:2015



ISO14001:2015

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X Series Pneumatic Tire Forklift

with capacities of 44,000 to 55,000lbs

Making Material Handling Easier
SINCE 1956





Appearance

- / The exterior's compact and smooth styling show off the forklift's modern industrial aesthetics.
- / Thanks to the modular and standardized design of the X Series platform, the main parts are verified step by step, so that the vehicle is dependable from the first day of operation on.
- / Parts from well known brands are used to ensure the reliability and durability of the forklift.
- / Structural parts such as the frame, mast, etc. are upgraded, optimized, and verified through CAE analysis and testing.

Effcient

- / The hydraulic load-sensing system enables on-demand supply, less continuous load on the engine, less energy consumption, and emissions. The efficiency of the forklift is also improved by more than 15% thanks to this system.



Reliable



The ZF transmission, with micro-electronic control, provides stable, accurate, and reliable travel with its three-speed power shifting feature.



The single double-acting transverse cylinder, steering axle, full hydraulic power steering and load-sensing steering gear all work together to allow the operator to easily steer the forklift.



The forklift features a heavy-duty, drive axle, two-speed deceleration, wet brakes, and hydraulic release spring action parking brake for safe and reliable operation.



Maintenance

- / The newly designed LCD instrument display uses CAN-BUS system architecture and offers more comprehensive functions and more stable performance. It displays important information on the truck's status as well as engine faults.
- / The tiltable cab and wide-opened hood enable easy access to the oil and water, and make maintenance more convenient.



The Newly Designed LCD Instrument Display



The battery compartment provides easy and convenient access to the battery.



Comfort

The cabin has been redesigned to provide a better overall view and is fully suspended. The ergonomic integral joystick enables accurate control of the forklift. Combined with the integrated fingertip control system, operators can precisely operate up to 55,000lbs. The optimized hydraulic braking system enables smooth, easy-to-control, braking. The suspension seat and adjustable armrest allow for the operator to find their ideal driving position. Together all of these features create a more comfortable operating experience for the operator.



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

Safety



Excellent all round visibility is achieved by the overall design.



Optional front and rearview camera systems improve visibility and increase operational safety.



Floating Cab & Great Visibility

The new floating cabin is designed to promote comfort and safety for the operator. The cab offers a waterproof and dustproof design to keep the operator out of the elements. The cab also designed to reduce the noise coming in the cabin. The air conditioner has been redesigned to enable better performance and more uniform cabin cooling. The interior features molded components to provide the operator with a more comfortable and ergonomic operating environment. The cab also features a new integral frame made up of steel to increase strength and safety. Finally, the cab and the forklift's profile have been optimized to increase visibility and enable the operator to see all around the truck.



Standard Specification

- / Limited Free Lift 2 Stage Mast
- / Hydraulic Prong Adjustment
- / Standard Forks
- / Full Cabin
- / Air Conditioner & Heater
- / Fully Hydraulic Power Steering
- / Quadruple Multiway Valve
- / Operator Presense Sensing System (OPS)
- / Multi-Directional Adjustable Armrest
- / Adjustable Steering Wheel
- / Tilting Hydraulic System Self-Locking Valve
- / Lifting Hydraulic System Speed Limit Valve
- / Overhead Gaurd Exhaust
- / Tow Device
- / Main Power Switch
- / Reverse Camera
- / LCD Instrument Display
- / Neutral Indicator
- / Parking Braking Indicator
- / Charge Indicator
- / Pre-heating Indicator
- / Oil Pressure Alarm for the Engine
- / Air Filter Alarm
- / Low Pressure Alarm for the Accumulator
- / Hydraulic Oil Filter Alarm
- / Oil-Water Separator Alarm
- / Engine Failure Alarm
- / Highly Efficient LED Lights
- / Water Thermometer
- / Oil Gauge
- / Oil Temperature Meter
- / Engine Hour Meter
- / Air Pneumatic Tires
- / Reverse Alarm
- / Manual Cabin Tilting
- / Mast Installed LED Working Light
- / Vehicle Toolkit

Options

- / Customized Color
- / Various Fork Sizes
- / Various Mast Specifications
- / Solid Pneumatic Tires
- / Vehicle Intercom
- / Reverse Alarm
- / Strobe Light
- / Front & Rearview Camera (with optional memory)
- / Spark Arrester
- / Fire Extinguisher (4.4lb/8.7lb)
- / Automatic Fire Extinguishing Device
- / Speed Limiter
- / Blue Light
- / Scale
- / Air Pre-Cleaner
- / Operator Fan
- / Electric Cabin Tilting



44,000-55,000lbs X Series Mast:

Type	Model	Max. Fork Height in (mm)	Overall Height		Tilt Range (°)	Capacity	
			Lowered in (mm)	Extended in (mm)		Load Capacity at 47in lb (kg)	Load Capacity at 47in lb (kg)
			44,000lbs 55,000lbs	44,000lbs 55,000lbs	44,000lbs 55,000lbs	44,000lbs 55,000lbs	44,000lbs 55,000lbs
Limited Free Lift 2 Stage Mast	GXR250M330	129.92 (3300)	139.76 (3550)	199.8 (5075)	6/10	44000 (20000)	55000 (25000)
	GXR250M360	141.73 (3600)	145.66 (3700)	214.56 (5450)	6/10	44000 (20000)	55000 (25000)
	GXR250M400	157.48 (4000)	153.54 (3900)	234.25 (5950)	6/10	44000 (20000)	55000 (25000)
	GXR250M430	169.29 (4300)	159.44 (4050)	249.01 (6325)	6/10	44000 (20000)	55000 (25000)
	GXR250M450	177.16 (4500)	163.38 (4150)	258.85 (6575)	6/10	44000 (20000)	55000 (25000)
	GXR250M480	188.97 (4800)	169.29 (4300)	273.62 (6950)	6/10	44000 (20000)	55000 (25000)
	GXR250M500	196.85 (5000)	175.19 (4450)	284.44 (7225)	6/10	44000 (20000)	55000 (25000)
	GXR250M550	216.53 (5500)	185.03 (4700)	309.05 (7850)	3/6	40792 (18500)	51817 (23500)
	GXR250M600	236.22 (6000)	196.85 (5000)	334.64 (8500)	3/6	37485 (17000)	48510 (22000)
	GXR250M650	255.9 (6500)	206.69 (5250)	359.25 (9125)	3/6	33075 (15000)	44100 (20000)
	GXR250M700	275.59 (7000)	218.5 (5550)	384.84 (9775)	3/6	28665 (13000)	39690 (18000)

X Series Pneumatic Tire Forklift 44,000-55,000lb Specification

Distinguishing Marks	1.1	Manufacturer	HANGCHA GROUP CO.,LTD.	
	1.2	HCFA Type Designation	FD200 FD250	
	1.3	Manufacturer's Type Designation	CPCD200-XRW83G	CPCD250-XRW83G
	1.4	Drive: electric (battery or mains), diesel, petrol, fuel gas	Diesel	Diesel
	1.5	Operator Type: hand, pedestrian, standing, seated, order-picker	Seated	Seated
	1.6	Rated Capacity/Rated Load	Q lb(kg)	44000 (20000) 55000 (25000)
	1.7	Load Centre Distance	c in(mm)	47.24 (1200) 47.24 (1200)
	1.8	Load Distance, centre of drive axle to fork	x in(mm)	43.3 (1100) 43.3 (1100)
	1.9	Wheelbase	y in(mm)	167.32 (4250) 167.32 (4250)
Weight	2.1	Service Weight	lb(kg)	73867 (33500) 78277 (35500)
	3.1	Tires: solid rubber, superelastic, pneumatic, polyurethane	Pneumatic	Pneumatic
Tires & Chassis	3.2	Tire Size, front	14.00-24-28PR	14.00-24-28PR
	3.3	Tire Size, rear	14.00-24-28PR	14.00-24-28PR
	3.5	Wheels, number front / rear (x = driven wheels)	4x/2	4x/2
	3.6	Tread, front	b ₁₀ in(mm)	86.61 (2200) 86.61 (2200)
	3.7	Tread, rear	b ₁₁ in(mm)	90.55 (2300) 90.55 (2300)
	4.1	Tilt of Mast/Fork Carriage Forward/Backward	α/β(°)	6/10 6/10
	4.2	Height, mast lowered	h ₁ (mm)	153.54 (3900) 153.54 (3900)
Dimensions	4.3	Free Lift	h ₂ in(mm)	0 (0) 0 (0)
	4.4	Lift	h ₃ in(mm)	157.48 (4000) 157.48 (4000)
	4.5	Height, mast extended	h ₄ in(mm)	234.25 (5950) 234.25 (5950)
	4.7	Height of Overhead Cabin	h ₅ in(mm)	140.94 (3580) 140.94 (3580)
	4.8	Seat Height Relating to SIP	h ₆ in(mm)	88.58 (2250) 88.58 (2250)
	4.12	Coupling Height	h ₁₀ in(mm)	28.34 (720) 28.34 (720)
	4.19	Overall Length	l ₁ in(mm)	342.12 (8690) 342.12 (8690)
	4.20	Length to Face of Forks	l ₂ in(mm)	246.06 (6250) 246.06 (6250)
	4.21	Overall Width	b ₁ /b ₂ in(mm)	120.07/108.26 (3050/2750) 120.07/108.26 (3050/2750)
	4.22	Fork Dimensions	s/e/l in(mm)	4.33x9.84x94.48 (110x250x2400) 4.33x9.84x94.48 (110x250x2400)
	4.24	Fork-Carriage Width	b ₃ in(mm)	118.11 (3000) 118.11 (3000)
	4.25	Distance between Fork & Arms	b ₅ in(mm)	35.43/102.36 (900/2600) 35.43/102.36 (900/2600)
	4.31	Ground Clearance, laden, below mast	m ₁ in(mm)	11.81 (300) 11.81 (300)
	4.32	Ground Clearance, centre of wheelbase	m ₂ in(mm)	15.74 (400) 15.74 (400)
	4.34.1	Aisle Width with Load Length 71"	A _{st} in(mm)	375.59 (9540) 375.59 (9540)
	4.34.2	Aisle Width with Load Length 94.5"	A _{st} in(mm)	375.59 (9540) 375.59 (9540)
	4.35	Turning Radius	W _a in(mm)	228.34 (5800) 228.34 (5800)
	4.36	Minimum Pivoting Point Distance	b ₁₃ in(mm)	81.88 (2080) 81.88 (2080)
Performance Data	5.1	Travel Speed, Laden/Unladen	mph(km/h)	16.8/19.3 (27/31) 16.2/18.6 (26/30)
	5.2	Lift Speed, laden/unladen	f/min (m/s)	68.9/74.8 (0.35/0.38) 66.9/70.9 (0.34/0.36)
	5.3	Lowering Speed, laden/unladen	f/min (m/s)	88.6/80.7 (0.45/0.41) 88.6/80.7 (0.45/0.41)
	5.5	Drawbar Pull, laden/unladen	lbf(N)	35969 (160000)/- 35969 (160000)/-
	5.7	Gradeability, laden/unladen	%	25/- 25/-
	5.10	Service Brake		Wet Disc Brake Wet Disc Brake
		Parking Brake		Spring Applied, Hydraulic Release Multi-Disc Brake Spring Applied, Hydraulic Release Multi-Disc Brake
Combustion Engine	7.1	Engine Manufacturer/Type		VOLVO TAD851VE VOLVO TAD851VE
	7.2	Engine Power	hp(kW)	248 (185) 248 (185)
	7.3	Rated Speed	r/min	2200 2200
	7.4	Number of Cylinders/Displacement	(-)/in ³ (cm ³)	6/469.9(7700) 6/469.9(7700)
	7.9	Vehicle Electrical System Voltage	V	24 24
	7.10	Battery Voltage/Nominal Capacity	V/Ah	2x12/150 2x12/150
		Rated Torque	N·m/r/min	1160/1350 1160/1350
		Transmission Manufacturer		ZF ZF
		Transmission Type		3WG 211 3WG 211
		Stage FWD/RVS		3/3 3/3
Additional Data	10.1	Operating Pressure for Attachments	bar	230 230
	10.2	Oil Volume for Attachments	gal/min (l/min)	79.3 (300) 79.3 (300)
	10.3	Hydraulic Tank - Capacity (drain & refill)	gal (liter)	111 (420) 111 (420)
	10.4	Fuel Tank Capacity	gal (liter)	111 (420) 111 (420)
	10.7	Sound Pressure Level at the Driver's Seat	dB (A)	76 76



