



XF Series LPG Cushion Tire Forklift

with capacities of 13,500 to 15,500lbs

The World of Hangcha
SINCE 1956



CONCEPT

XF Series LPG Cushion Tire Forklift is developed on basis of existing XF series by Hangcha, with world-leading technologies, a world-class forklift that can meet your demand in all dimensions thanks to the overall upgrading in appearance modeling, energy conservation and environmental protection, comfort, safety, and reliability. Application of new technologies including load-sensing hydraulic system, energy-efficient lighting system, low-emission engine, effective noise and vibration control, and brand-new control system offers higher efficiency and lower cost for your work.



LED lighting system and environmentally-friendly materials for entire truck



LED lights are applied for entire truck. It saves power and energy, with significantly increased performance and service life of lights.

Environmentally-friendly materials are applied for the entire truck to minimize damage to environment.

Visualized LCD instrument panel



Newly developed LCD meters have more complete functions and more stable performance. Important information including running status of the entire truck and failure of the engine (electronically controlled engine) can be displayed completely, so that the operator can understand status of the truck in a visualized manner, for easy maintenance.



Suspension Seat

72 INCHES
Short Wheelbase

TOUGH TRUCKS





North America certified engine

High power and high torque, favorable clean emission, and excellent fuel economy;
Emission standard of the engine is in compliance with EPA/CARB Tier2;
Electronically controlled engine.



New generation of integrated electrical box

The new generation of integrated electrical box is applied, with reasonable layout, easy for service and maintenance, with better waterproof performance.
The entire truck is equipped with waterproof connectors, with increased waterproof performance.



The OKAMURA transmission is provided with the Power Take-Off (PTO), the gear pump driving is reliable and has high efficiency.



Special drive axle, two-stage deceleration, higher safety factor, better reliability. Standard wet brake, better braking effect, less heat, maintenance-free.

Safety lock for engine hood

It is safe for driving by the operator, and can be opened easily.

Cooling system of optimized design

Aluminum plate-fin radiator of stronger cooling performance and higher structural strength is applied, with independent oil radiator, optimized heat transfer channel, and counterweight with dual-hole ventilation, which improve cooling efficiency substantially, increase reliability for heavy-load operation, and guarantee reliable work of the engine.

Reliable hydraulic system

The truck adopts high pressure hydraulic system and steering load sensing technology, which can effectively improve operation efficiency. The multi-way valve uses the double pump confluence, the single pump discharge system, reduces gives off heat, the standard matches the hydraulic pressure oil to dissipate heat, enhances the hydraulic pressure system reliability.





Low LPG fuel
warning indicator





Wide-view mast offering better visibility

New type of steel channels and mast system of brand-new design are applied to increase visibility in front of the driver.



Large hand grip

Large hand grip of optimized design enables easier access to the truck.



Full-view rear view mirror

Full-view rear view mirror provides wider rear view, safer for operation.



New steering wheel adjusting mechanism

Small-diameter steering wheel and electro-hydraulic steering (hydraulic transmission) design, and car-like combination switch of double handles, increase operator comfort substantially.



High-strength suspension overhead guard

The overhead guard is fabricated with specially-shaped steel tubes, with high strength; integral overhead guard, easy for repair and disassembly; flexible connection is applied between overhead guard and truck frame, with small vibration, which increases operator comfort substantially.



Steering axle

Large-sized conical bearing is applied at master pin of the steering axle, together with a large-diameter steering cylinder, and buffer blocks at top, which increase reliability of the steering axle substantially.

Standard Configuration

- / Traction unit
- / Small-diameter steering wheel
- / Integrated combination switch
- / Extended hand grip
- / Steering wheel adjusting device
- / Cable-type parking brake (with self-lock)
- / Suspension seat with safety belt
- / Large-capacity aluminum radiator
- / Dynamic load sensing system
- / Suspension integral overhead guard
- / Whirlwind high-efficiency air filter
- / Hydraulic oil suction filter element
- / Rain cover of overhead guard
- / Safe filter element
- / Inclined oil way latching valve
- / Full-view rear view mirror
- / High-efficiency exhaust muffler
- / Hydraulic oil dipstick
- / Access/exit safe step
- / High-efficiency LED combination front lamp
- / Large rubber pedal pad
- / High-efficiency LED combination rear lamp
- / Full floating transmission
- / Maintenance-free battery
- / Transmission oil filter element
- / Hydraulic oil radiator
- / Combined LCD meters
- / Gearbox dipstick
- / Engine hood spring
- / Integrated controller
- / Gearbox oil cooler
- / File folder
- / Alarm light
- / Wet brake
- / Electro-hydraulic steering
- / Charging reminder
- / Suspension operation pedal
- / Oil gauge
- / Water thermometer
- / Cup holder
- / Preheating indication
- / Duplex wide-view mast
- / Standard fork
- / Timer
- / Standard carriage
- / Engine oil pressure alarm
- / Standard back rest
- / Gearbox oil temperature alarm
- / Maintenance reminder
- / Load safety valve
- / Horn
- / Soft landing system
- / Reversing buzzer
- / Mast lifting buffer device
- / Tilt piston rod jacket
- / Fan protector
- / Reversing assist grip with horn button
- / Front acoustic hood of steering wheels
- / Low LPG fuel warning indicator
- / Double soundproof pad of hood
- / Swing down LPG bracket
- / Smooth cushion tyre
- / Counter weight net

Optional Accessories

- / Paper roll clamp
- / Rotating bale clamp
- / Load stabilizer
- / Multi-drum clamp
- / Bale clamp
- / Drum clamp
- / Dumping clamp
- / Crane arm
- / String Pole
- / Sideshifter
- / Rotating forks
- / Fork extensioner
- / Load release device
- / Carton clamp
- / Push-pull device
- / Bucket
- / Hook
- / Lengthened fork

Options

- / Customized painting
- / Emergence power switch
- / LED rear work light
- / Auxiliary hydraulic valve group
- / Over-speed alarm
- / Engine hood lock
- / Fire extinguisher
- / OPS system
- / High-low overhead guard
- / Radiator screen
- / Pre-cleaner
- / Blue light
- / Non-marking cushion

Special Mast Devices

- / Special duplex wide-view mast
- / Triplex wide-view full-free mast
- / Wider carriage
- / Special fork



HANGCHA

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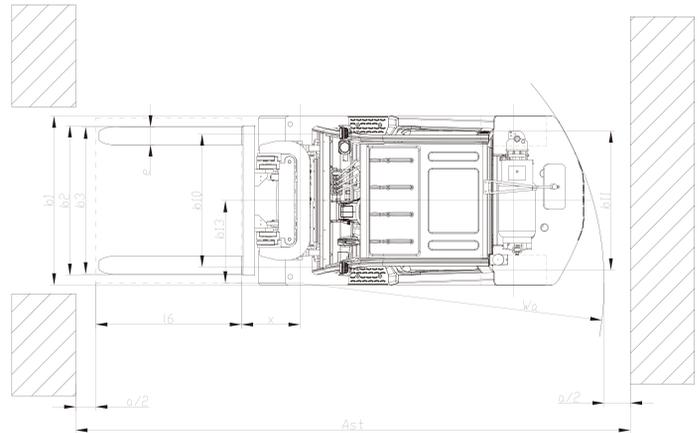
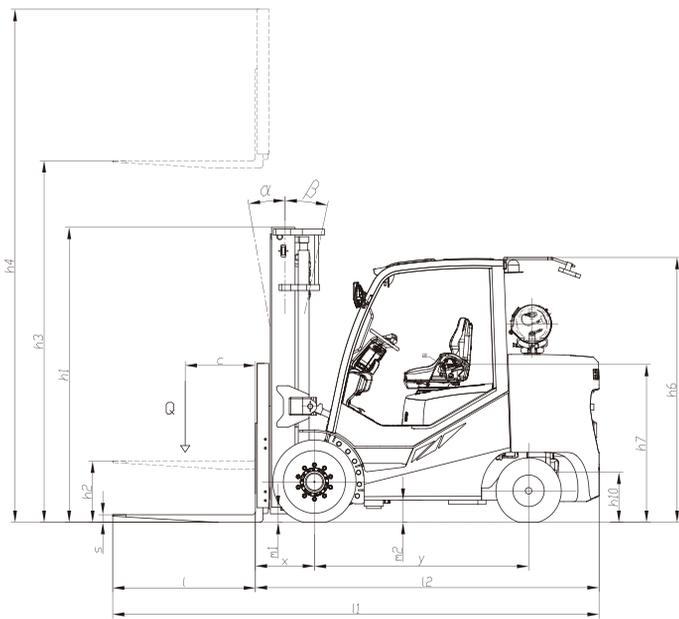
XF Series LPG Cushion Tire Forklift Specification

				HANGCHA GROUP CO.,LTD.		
Distinguishing mark	1.1	Manufacturer		HANGCHA GROUP CO.,LTD.		
		HCFA Model		FP60C	FP70C	
	1.2	Manufacturer's type designation		CPYD60-XW24B-C	CPYD70-XW24B-C	
	1.3	Drive		LPG	LPG	
	1.4	Operator type		Seated	Seated	
	1.5	Load capacity/rated load	Q	lb (kg)	13500(6000)	15500(7000)
	1.6	Load centre distance	c	in(mm)	24(600)	24(600)
	1.7	Load distance, centre of drive axle to fork	x	in(mm)	19.6(498)	19.8(503)
1.8	Wheelbase	y	in(mm)	72(1830)	72(1830)	
Weight	2.1	Service weight		19510(8850)	21060(9550)	
	2.2	Axle loading, laden front/rear		28880/3860(13100/1750)	32170/4320(14590/1960)	
	2.3	Axle loading, unladen front/rear		6570/12940(2980/5870)	7100/13960(3220/6330)	
Tyres, chassis	3.1	Tyres		Cushion	Cushion	
	3.2	Tyre size, front		28×12×22	28×12×22	
	3.3	Tyre size, rear		22×10×16	22×10×16	
	3.4	Wheels, number front rear (x = driven wheels)		2×/2	2×/2	
	3.5	Tread, front	b10	in(mm)	44.6(1133)	44.6(1133)
	3.6	Tread, rear	b11	in(mm)	46.6(1184)	46.6(1184)
Dimensions	4.1	Tilt of mast/fork carriage forward/backward		α/β (°)	6/10	
	4.2	Height, mast lowered		h1	in(mm)	
	4.3	Free lift		h2	in(mm)	
	4.4	Lift		h3	in(mm)	
	4.5	Height, mast extended		h4	in(mm)	
	4.6	Height of overhead guard(cabin)		h6	in(mm)	
	4.7	Seat height		h7	in(mm)	
	4.8	Coupling height		h10	in(mm)	
	4.9	Overall length		l1	in(mm)	
	4.10	Length to face of forks		l2	in(mm)	
	4.11	Overall width		b1	in(mm)	
	4.12	Fork dimensions		s/e/l	in(mm)	
	4.13	Fork carriage DIN 15 173, class/type A, B				
	4.14	Backrest width		b2	in(mm)	
	4.15	Fork-carriage width		b3	in(mm)	
	4.16	Distance between fork-arms		b5	in(mm)	
	4.17	Ground clearance, laden, below mast		m1	in(mm)	
	4.18	Ground clearance, centre of wheelbase		m2	in(mm)	
	4.19.1	Aisle width for pallets 1000 x 1200 crossways		Ast	in(mm)	
	4.19.2	Aisle width for pallets 800 x 1200 lengthways		Ast	in(mm)	
	4.20	Turning radius		Wa	in(mm)	
4.21	Internal turning radius		b13	in (mm)		
Performance Data	5.1	Travel speed, laden/unladen		mph(km/h)	13/13.7(21/22)	
	5.2	Lift speed, laden/unladen		ft/min(m/s)	94.5/100.4(0.48/0.51)	
	5.3	Lowering speed, laden/unladen		ft/min(m/s)	98.4/74.8(0.500/0.380)	
	5.4	Drawbar pull, laden/unladen		N	44000/	
	5.5	Gradeability, laden/unladen 1mph(1.5km/h)		%	26/	
	5.6	Service brake			Hydraulic	
	5.7	Parking brake			Mechanical	
Combustion-engine	6.1	Engine manufacturer/type			PSI 4.3L LPG CERT	
	6.2	Engine power acc.to ISO 1585		hp(kW)	105(77)	
	6.3	Rated speed		r/min	2300	
	6.4	No. of cylinders/displacement		(-)/(cm³)	6/4294	
	6.5	Generator		A	70	
	6.6	Vehicle electrical system voltage		V	12	
	6.7	Battery voltage/nominal capacity		V/Ah	12/60	
	6.8	Rated torque		N·m/r/min	332.85/1400	
	6.9	Transmissions Manufacturer			OKAMURA	
	6.10	Transmissions Type			Powershift	
	6.11	Stage FWD/RVS			1/1	
Addition data	7.1	Operating pressure for attachments		psi(MPa)	3132(21.6)	
	7.2	Hydraulic Tank - Capacity (drain & refill)		gal(liter)	26.4(100)	
	7.3	Fuel Tank - Capacity (Gasoline or Diesel-Powered Units Only)		gal(liter)	NA	

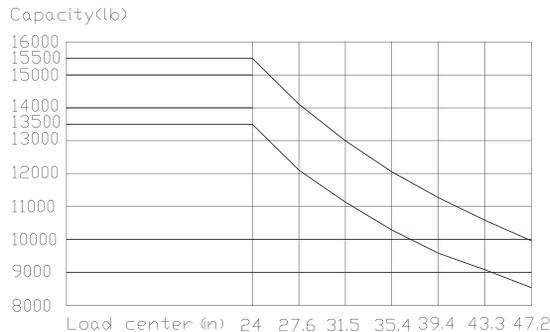
13,500-15,500lbs XF series mast:(Cushion)

Type	Model	Max. fork height in (mm)	Overall height				Free lift		Front Overhang		Tilt range F/R (°)	Capacity	
			Lowered in (mm)	Extended		Without backrest in (mm)	With backrest in (mm)	6t in (mm)	7t in (mm)	Load capacity at 24 in (600mm)			
				Without backrest in (mm)	With backrest in (mm)					13500lb(6000kg)		15500lb(7000kg)	
Wide view view mast	XBC70M250	98.4(2500)	88.6(2250)	139.5(3543)	151.9(3857)	6.7(170)	6.7(170)	19.6(498)	19.8(503)	6/10	13500(6000)	15500(7000)	
	XBC70M300	118.1(3000)	98.4(2500)	159.2(4043)	171.5(4357)	6.7(170)	6.7(170)	19.6(498)	19.8(503)	6/10	13500(6000)	15500(7000)	
	XBC70M330	129.9(3300)	104.3(2650)	171(4343)	183.3(4657)	6.7(170)	6.7(170)	19.6(498)	19.8(503)	6/10	13500(6000)	15500(7000)	
	XBC70M340	133.9(3400)	106.3(2700)	174.9(4443)	187.3(4757)	6.7(170)	6.7(170)	19.6(498)	19.8(503)	6/10	13500(6000)	15500(7000)	
	XBC70M360	141.7(3600)	110.2(2800)	182.8(4643)	195.2(4957)	6.7(170)	6.7(170)	19.6(498)	19.8(503)	6/10	13500(6000)	15500(7000)	
	XBC70M440	173.2(4400)	127.6(3240)	214.4(5445)	226.7(5757)	6.7(170)	6.7(170)	19.6(498)	19.8(503)	6/10	13500(6000)	15500(7000)	
	XBC70M500	196.9(5000)	139.4(3540)	238(6045)	250.3(6357)	6.7(170)	6.7(170)	19.6(498)	19.8(503)	6/10	13500(6000)	15500(7000)	
Wide view full free triplex mast	XBC70M540	212.6(5400)	147.2(3740)	253.7(6445)	266(6757)	6.7(170)	6.7(170)	19.6(498)	19.8(503)	6/10	13500(6000)	15500(7000)	
	XBC70N360	141.7(3600)	86.6(2200)	189.5(4813)	195.2(4957)	39.3(997)	33.6(853)	21.5(546)	21.7(551)	6/6	13500(6000)	15500(7000)	
	XBC70N400	157.5(4000)	92.5(2350)	205.2(5213)	210.9(5357)	45.2(1147)	39.5(1003)	21.5(546)	21.7(551)	6/6	13500(6000)	15500(7000)	
	XBC70N430	169.3(4300)	96.1(2440)	217(5513)	222.7(5657)	48.7(1237)	43(1093)	21.5(546)	21.7(551)	6/6	13500(6000)	15500(7000)	
	XBC70N470	185(4700)	101.2(2570)	232.8(5913)	238.5(6057)	53.8(1367)	48.1(1223)	21.5(546)	21.7(551)	6/6	13500(6000)	15500(7000)	
	XBC70N500	196.9(5000)	105.1(2670)	244.6(6213)	250.3(6357)	57.8(1467)	52.1(1323)	21.5(546)	21.7(551)	6/6	13500(6000)	15500(7000)	
	XBC70N550	216.5(5500)	111.8(2840)	264.3(6713)	270(6857)	64.4(1637)	58.8(1493)	21.5(546)	21.7(551)	6/6	13500(6000)	15500(7000)	
	XBC70N560	220.5(5600)	113(2870)	268.2(6813)	273.9(6957)	65.6(1667)	60(1523)	21.5(546)	21.7(551)	6/6	13500(6000)	15500(7000)	
	XBC70N600	236.2(6000)	118.1(3000)	284(7213)	289.6(7357)	70.7(1797)	65.1(1653)	21.5(546)	21.7(551)	6/6	13000(5900)	15200(6900)	
	XBC70N620	244.1(6200)	122.8(3120)	291.9(7413)	297.5(7557)	75.5(1917)	69.8(1773)	21.5(546)	21.7(551)	6/6	12800(5800)	15000(6800)	

With sideshifter minus 880lb(400kg),with integral sideshifter minus 1100lb(500kg).



$$Ast=l6+x+Wa+a \quad a=200mm$$





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