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XF Series LPG Cushion Tire Forklift

with capacities of 4,000 to 6,500lbs

The World of Hangcha



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

57.1 INCHES
Short Wheelbase



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.



Low LPG fuel warning indicator

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.



Full-view rear view mirror

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



Safety lock for engine hood

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

Reliable hydraulic system

Optimized hydraulic breather structure, with built-in return oil filter, increases service life of hydraulic oil system;

Load-sensing hydraulic steering system is highly energy efficient.

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.





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.



Tilt-back LP bracket (Opt.)

Tilt-back cylinder holder is easy for replacing LPG cylinder and opening engine hood for maintenance.



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.



Large hand grip

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



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.



Hood plate with large open angle

The hood plate has a large open angle, easy for maintenance.

XF series LPG cushion tire forklift truck 4000-6500lbs specification

Distinguishing mark	1.1	Manufacturer			HANGCHA GROUP CO.,LTD.			
	1.2	Manufacturer's type designation			CPYD20-XW71F-C	CPYD25-XW71F-C	CPYD30-XW71F-C	CPYD32-XW71F-C
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas			LPG	LPG	LPG	LPG
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker			Seated	Seated	Seated	Seated
	1.5	Rated capacity/rated load	Q	lb (kg)	4000 (1800)	5000 (2250)	6000 (2700)	6500 (2950)
	1.6	Load centre distance	c	in(mm)	24 (600)	24 (600)	24 (600)	24 (600)
	1.7	Load distance, centre of drive axle to fork	x	in(mm)	16.8 (427)	16.8 (427)	17.7 (450)	17.7 (450)
	1.8	Wheelbase	y	in (mm)	57.1 (1450)	57.1 (1450)	57.1 (1450)	57.1 (1450)
Weight	2.1	Service Weight		lb(kg)	7880 (3575)	8640 (3920)	9570 (4340)	9900 (4490)
	2.2	Axle loading, laden front/rear		lb(kg)	10210/1670 (4610/765)	11830/1810 (5350/820)	13500/2070 (6100/940)	14220/2180 (6450/990)
	2.3	Axle loading, unladen front/rear		lb(kg)	3050/4830 (1385/2190)	3215/5425 (1460/2460)	3090/6480 (1400/2940)	3200/6700 (1450/3040)
Tyres, chassis	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane			Cushion	Cushion	Cushion	Cushion
	3.2	Tyre size, front			21×7×15	21×7×15	21×8×15	21×8×15
	3.3	Tyre size, rear			16×6×10.5	16×6×10.5	16×6×10.5	16×6×10.5
	3.4	Wheels, number front / rear (x = driven wheels)			2×/2	2×/2	2×/2	2×/2
	3.5	Tread, front	b10	in (mm)	35.4(900)	35.4(900)	36.2(920)	36.2(920)
	3.6	Tread, rear	b11	in(mm)	36.2(920)	36.2(920)	36.2(920)	36.2(920)
Dimensions	4.1	Tilt of mast/fork carriage forward/backward	α/β	(°)	6/8	6/8	6/8	6/8
	4.2	Height, mast lowered	h1	in (mm)	77.6(1970)	77.6(1970)	77.6(1970)	77.6(1970)
	4.3	Free lift	h2	in(mm)	5.5(140)	5.5(140)	5.3(135)	5.3(135)
	4.4	Lift	h3	in (mm)	118.1(3000)	118.1(3000)	118.1(3000)	118.1(3000)
	4.5	Height, mast extended	h4	in (mm)	159.3(4046)	159.3(4046)	163.2(4145)	163.2(4145)
	4.6	Height of overhead guard	h6	in (mm)	83.3(2115)	83.3(2115)	83.3(2115)	83.3(2115)
	4.7	Seat height relating to SIP	h7	in (mm)	41.7(1060)	41.7(1060)	41.7(1060)	41.7(1060)
	4.8	Coupling height	h10	in (mm)	11.8(300)	11.8(300)	11.8(300)	11.8(300)
	4.9	Overall length	l1	in (mm)	132.5(3367)	135.1(3432)	138(3505)	139(3530)
	4.10	Length to face of forks	l2	in (mm)	90.4(2297)	93(2362)	95.7(2435)	96.7(2460)
	4.11	Overall width (without backrest)	b1	in(mm)	42.5(1080)	42.5(1080)	44.2(1123)	44.2(1123)
	4.12	Fork dimensions	s/e/l	in (mm)	1.6×4.8×42(40×122×1070)	1.6×4.8×42(40×122×1070)	1.8×4.8×42(45×122×1070)	1.8×4.8×42(45×122×1070)
	4.13	Fork carriage DIN 15 173 --- ISO 2328, class/type A,B			Class A	Class A	Class A	Class A
	4.14	Backrest width	b2	in (mm)	43 (1094)	43 (1094)	45.5 (1156)	45.5 (1156)
	4.15	Fork-carriage width	b3	in(mm)	40.9(1038)	40.9(1038)	43.3(1100)	43.3(1100)
	4.16	Distance between fork-arms	b5	in (mm)	8.9-39.7(226-1008)	8.9-39.7(226-1008)	9.9-42.6(252-1082)	9.9-42.6(252-1082)
	4.17	Ground clearance, laden, below mast	m1	in (mm)	3.5(90)	3.5(90)	3.5(90)	3.5(90)
	4.18	Ground clearance, centre of wheelbase	m2	in (mm)	5.1(130)	5.1(130)	5.1(130)	5.1(130)
	4.19.1	Aisle width for pallets 1000 x 1200 crossways	Ast	in (mm)	139.8(3552)	142.4(3617)	145(3685)	146.1(3710)
	4.19.2	Aisle width for pallets 800 x 1200 lengthways	Ast	in (mm)	147.7(3752)	150.3(3817)	153(3885)	153.9(3910)
	4.20	Turning radius	Wa	in(mm)	75.8(1925)	78.3(1990)	80.3(2035)	81.1(2060)
	4.21	Minimum pivoting distance	b13	in(mm)	23.4(595)	23.4(595)	23.4(595)	23.4(595)
Performance Data	5.1	Travel speed, laden/unladen		mph (km/h)	10.9/11.5 (17.5/18.5)	10.9/11.5 (17.5/18.5)	10.9/11.5 (17.5/18.5)	10.9/11.5 (17.5/18.5)
	5.2	Lift speed, laden/unladen		ft/min (m/s)	122/128 (0.62/0.65)	122/128 (0.62/0.65)	98.4/104.3 (0.50/0.53)	98.4/104.3 (0.50/0.53)
	5.3	Lowering speed, laden/unladen		ft/min (m/s)	88.6/98.4 (0.45/0.50)	88.6/98.4 (0.45/0.50)	88.6/98.4 (0.45/0.50)	88.6/98.4 (0.45/0.50)
	5.4	Drawbar pull, laden/unladen		N	23000/9000	23000/9000	23000/9000	23000/9000
	5.5	Gradeability, laden/unladen		%	30/20	30/20	25/20	25/20
	5.6	Service brake			Hydraulic	Hydraulic	Hydraulic	Hydraulic
	5.7	Parking brake			Mechnical	Mechanical	Mechanical	Mechanical
Combustion- engine	6.1	Engine manufacturer/type			GCT GK25 LPG CERT	GCT GK25 LPG CERT	GCT GK25 LPG CERT	GCT GK25 LPG CERT
	6.2	Engine power		hp (kW)	61.4(45.8)	61.4(45.8)	61.4(45.8)	61.4(45.8)
	6.3	Rated speed		r/min	2700	2700	2700	2700
	6.4	Number of cylinders/displacement		(-)/(cm ³)	4/2488	4/2488	4/2488	4/2488
	6.5	Generator		V	12	12	12	12
	6.6	Vehicle electrical system voltage		V	12	12	12	12
	6.7	Battery voltage/nominal capacity		V/Ah	12/60	12/60	12/60	12/60
	6.8	Rated torque		N·m/r/min	187/1600	187/1600	187/1600	187/1600
	6.9	Transmissions Manufacturer			China	China	China	China
	6.10	Transmissions Type			Powershift	Powershift	Powershift	Powershift
	6.11	Stage FWD/RVS			1/1	1/1	1/1	1/1
Addition data	7.1	Operating pressure for attachments		psi (MPa)	2538(17.5)	2538(17.5)	2538(17.5)	2538(17.5)
	7.2	Hydraulic Tank - capacity (drain & refill)		gal (liter)	11(42)	11(42)	11(42)	11(42)
	7.3	Fuel tank capacity		gal (liter)	NA	NA	NA	NA

