

XF Series Diesel / LPG Pneumatic Tire Trucks

with capacities of 11,000 to 15,500lbs



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Making Material Handling Easier SINCE 1956





XF Series Pneumatic Tire Forklifts

Efficient, reliable solutions to meet your demands.

Over 40 years of building forklifts have culminated in the XF series from Hangcha Group. This experience, combined with the latest in forklift technology, the result is a line of forklifts that are efficient, comfortable, reliable, and safe. The XF Series represents the true do it all forklift from Hangcha Group.



Productivity

Thanks to a series of technological innovations, the efficiency of the truck is improved and the energy consumption is reduced.

By optimizing the transmission design, the maximum driving

speed is increased by **20%**



The new efficient lighting system uses LEDs and a new type of reflector to reduce energy consumption. This significantly improves illumination performance while also prolonging operation time.



The new dynamic load sensing hydraulic steering system requires 10% less hydraulic oil while providing a 15% increase in lifting speed.



Operator Comfort

While developing the XF Series, comfort and ease of operation were carefully considered. The engineers decreased vibration levels by using a compound engine damper and full-floating seat and cabin. The forklift was made more comfortable because a comfortable operator leads to increased operational productivity.



The foot space is now 30% wider to significantly reduce operator fatigue. The new wide, non-slip step makes getting in and out of the forklift safe and easy.

The easy-to-operate levers provide total load handling operation. The armrest is provided to reduce fatigue. The optional electro-hydraulic proportional control system gives the forklift the ability to make load handling more sensitive and precise.



In addition to the soft landing system, the soft lifting system is adopted (front lifting cylinders of the full free lift 2 & 3 stage masts). As a result, the noise and shock of the mast significantly decrease when lowering materials.

10.6

Comfortable Operation

- **1.** The new relocated, easy-to-see LCD insturment display lets the operator check on all aspects of operational status with a glance.
- **2.** The new automobile-style light/turn-signal stalk and the forward-reverse lever are ergonomically designed and arranged to improve comfort and productivity.
- **3.** The parking brake was developed to reduce the operational force by 30%.
- **4.** The small diameter steering wheel, with tilt adjustment, provides an optimal driving position for the operator. The superior responsiveness of the steering wheel optimizes maneuverability even in narrow spaces.
- **5.** The automobile-style suspended pedals provide a more ergonomic, operator centered experience.



The mast was redesigned to provide broad forward visibility. This was done by increasing the distance between the inside of the mast by 2.34".



Reliability

By focusing on enhancing reliability and reducing downtime, the XF Series is able to increase productivity for the end-users.



The new stamped air cleaner featuring tangential intake, double seal with safety filter is durable, corrosion-free, and vibration-resistant provides better filter efficiency and lower intake resistance than the previous.



The brake and steering hydraulic systems are separated to prevent interference between eachother. By using the dynamic load sensing steering system, the forklift is easier to operate and more energy efficient.

The patented plated-fin aluminum radiator is used to increase cooling and improved the forklifts capability in harsh, hot environments.





The chassis, mast, and front/rear axle designed to be strong. These components are also made with durable components. This is all done to increase the safety and reliability of the truck when for use in high strength applications.



Easy Maintenance



Designed for easy inspection and servicing. The XF Series' quick and easy maintenance reduces downtime and operational costs.



The location of the air filter allows for easy reach and replacement when the filter needs to be changed.

The engine oil level dipstick, hydraulic filter, and water separator are easy to reach and allow for easy maintenance.

The gas spring support for the front cover of the radiator auto-opens when the rear cover of the radiator is opened.

Safety

A wide range of technology is applied to ensure absolute safety for both the operator and those in the vicinity.



neres an energy accumulator in the braking system. This allows for the brakes to continue to function after the engine is shut off.



There is a locking mechanism found on the engine hood, Jamper, and parking brake for he operator's safety.



Dampening pads are placed where the chassis meets the steering axle, engine, torque converter, and the overhead guard. The suspension seat also comes standard. This is all included in the design to reduce the amount of vibration to the operator and increase operator comfort.



The controllers, relays, and safety fuses are all placed in the dust and water-free controller box. The main electronic components are also all waterproof. This allows the operator to use the forklift in wet environments.



- The Operator Presence Sensing System (OPS) incorporates a lifting, tilting, and traveling stop function. When the operator leaves the seat, the system automatically locks the lifting/tilting functions and disables the forklift from traveling to ensure safety.
- **2.** The throttling device locks the mast in place if there is a hydraulic failure. This adds to the operational saftey of the truck.

Standard Specification

Transmission	Steering	Chassis	Control	Hydraulic
/ ZF Transmission	/ Full Hydraulic Power Steering	/ Anti-Slip, Rubber Pedal	/ Power Steering	/ Dynamic Load Sending Control Valve
/ Suspension Transmission	/ Smaller Diameter Steering Wheel	/ Engine Compartment	/ Suspension Pedal	/ Hydraulic Oil Filter
/ Oil Filter	/ Adjustable Steering Wheel	Hood Strut	/ Integrated Combination Switch	/ Tilt Cylinder Self-Lock Valve
/ Dipstick			/ Parking Brake	/ Hydraulic Oil Dipstick
/ Oil Cooler				/ Accumulator
/ Non-Asbestos Brake Pads				
/ Wet Brakes				

Truck	Power	Electronics	Mast	
/ Traction Device	/ Large Capacity Aluminum Radiator	/ LED Front Lights	/ Pre-Heat Indicator	/ Limited Free Lift 2 Stage Mast
/ Hand Grip	/ Whirlwind Air Cleaner	/ LED Rear Lights	/ Charging Indicator	/ Standard Forks
/ Standard Seat	/ Safety Filter	/ Maintenance-Free Battery	/ Engine Fuel Pressure Warning	/ Standard Fork Carriage
/ Standard Overhead Guard	/ Highly Efflcient Intake Muffler	/ Combination Controller	/ Oil Temperature Gauge	/ Standard Load Back Rest
/ Waterproof Cover on the Guard	/ Highly Efflcient Exhaust Muffler	/ LCD Display	/ Horn	/ Mast Speed Limiting Valve
/ Rearview Mirror	/ Overhead Gaurd Exhaust System	/ Neutual Switch	/ Reversing Buzzer	/ Load Safety Valve
/ Air Pneumatic Tires	/ Fan Gaurd	/ Hour Meter	/ Air Filter with Jam Sensor	/ Soft Landing System
/ Tilt Cylinder Boot		/ Fuel Gauge	/ Emergency Cut Off Switch	/ Soft Lifting System
		/ Water Temperature Gauge		/ Side Roller

Options

/ Full Cabin

- / Cabin Heater
- / Front Window
- / Solid Pneumatic Tires
- / Non-Marking Tires
- / Suspension Seat
- / Fire Extinguisher
- / Custom Colors / Counterweight Grill
- / Operator Presence Sensing System (OPS)
- / Air Pre-Cleaner
- / Radiator Screen
- / Auxiliary Hydraulic Valve
- / Electro-Hydraulic Proportional Control System
- / Front Working Light
- / Rear Working Light
- / Different Masts
- / Different Size Forks
- / Wider Load Backrests / Wider Carriage
- / Various Optional Attachments



XF Series Pneumatic Forklift 11,000-15,500lb Specification

	1.1	Manufacturer	HANGCHA GROUP CO.,LTD.								
		HCFA Model		FD50	FP50	FD60	FP60	FD70	FP70		
s	1.2	Manulacturer's Type Designation		CPCD50-XW14	CPYD50-XW68	CPCD60-XW14	CPYD60-XW68	CPCD70-XW14	CPYD70-XW68		
Distinguishing Marks	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas		Diesel	LPG	Diesel	LPG	Diesel	LPG		
hing	1.4	Operator Type: hand, pedestrian, standing, seated, order-picker		Seated	Seated	Seated	Seated	Seated	Seated		
guis	1.5	Rated Capacity/Rated Load	Q (Ib)	11000	11000	13500	13500	15500	15500		
listin	1.6	Load Centre Distance	c(in)	24	24	24	24	24	24		
	1.8	Load Distance, centre of drive axle to fork	x(in)	23.5	23.5	23.5	23.5	23.8	23.8		
	1.9	Wheelbase	y(in)	90.5	90.5	90.5	90.5	90.5	90.5		
t	2.1	Service Weight	lb	17630	17630	18800	18800	20600	20600		
Weight	2.2	Axle Loading, laden front/rear	lb	24890/3770	24890/3770	28190/3830	28190/3830	32230/3700	32230/3700		
\$	2.3	Axle Loading, unladen front/rear	lb	8530/9100	8530/9100	8260/10530	8260/10530	8150/12340	8150/12340		
	3.1	Tires: solid rubber, superelastic, pneumatic, polyurethane		Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic		
sis	3.2	Tire size, front		8.25-15-14PR	8.25-15-14PR	8.25-15-14PR	8.25-15-14PR	8.25-15-14PR	8.25-15-14PR		
has	3.3	Tire size, rear		8.25-15-14PR	8.25-15-14PR	8.25-15-14PR	8.25-15-14PR	8.25-15-14PR	8.25-15-14PR		
Tires & Chassis	3.5	Wheels, number front rear (x = driven wheels)		4x/2	4x/2	4x/2	4x/2	4x/2	4x/2		
Tire	3.6	Tread, front	b10 (in)	58.6	58.6	58.6	58.6	58.6	58.6		
	3.7	Tread, rear	b11 (in)	66.9	66.9	66.9	66.9	66.9	66.9		
	4.1	Tilt of Mast/Fork Carriage Forward/Backward	α/β(°)	6/12	6/12	6/12	6/12	6/12	6/12		
	4.2	Height, mast lowered	h1 (in)	98.4	98.4	98.4	98.4	98.4	98.4		
	4.3	Free Lift	hz (in)	6.3	6.3	6.3	6.3	6.3	6.5		
	4.4	Lift	h₃ (in)	118	118	118	118	118	118		
	4.5	Height, mast extended	h4 (in)	174	173.5	174	173.5	174	173.5		
	4.7	Height of Overhead Guard	hs (in)	95.7	95.7	95.7	95.7	95.7	95.7		
	4.8	Seat Height	h⁊ (in)	53	53	53	53	53	53		
	<u> </u>	Coupling Height	h10 (in)	17	17	17	17	17	17		
	<u> </u>	Overall Length	l1 (in)	185	185	186	186	189	189		
ions	<u> </u>	Length to Face of Forks	Iz (in)	138	138	139	139	142	142		
Dimensions	4.21	Overall Width	b1(in)	80.7	80.7	80.7	80.7	80.7	80.7		
ō	⊢		s/e/l (in)	2.4x5.9x47.2	2.4x5.9x47.2	2.4x5.9x48	2.4x5.9x48	2.6x5.9x48	2.6x5.9x48		
	4.23			IV A	IV A	IV A	IV A	IV A	IV A		
	4.24	Fork-Carriage Width	ba (in)	67	67	67	67	67	67		
	4.31	Ground Clearance, laden, mast	m1 (in)	7.5	7.5	7.5	7.5	7.5	7.5		
	4.32	Ground Clearance, lader, mast	m2 (in)	10.6	10.6	10.6	10.6	10.6	10.6		
	<u> </u>	Aisle Width for Pallets 39"x47" Crossways	Ast (in)	198	198	200	200	203	203		
		Aisle Width for Pallets 33.547 Clossways Aisle Width for Pallets 31.57x47" Lengthways	Ast (in)	206	206	208	208	211	211		
	<u> </u>	Turning Radius	Wa (in)	127	127	129	129	132	132		
			b13 (in)	48	48	48	48	48	48		
	4.36 5.1	Internal Turning Radius Travel Speed, laden/unladen	mph	17.4/18.6	18.5/19.3	17.4/18.6	17.5/19.3	15.9/18.6	16.8/19.3		
ıta	<u> </u>		ft/min	108.3/114.2	85/90.2	108.3/114.2	85/90.2	98.4/104.3	75.2/79.2		
Performance Data	5.2	Lift Speed, laden/unladen	ft/min	94.5/82.7	94.5/82.7	94.5/82.7	94.5/82.7	94.5/82.7	94.5/82.7		
mant	5.3	Lowering Speed, laden/unladen Drawbar Pull,laden/unden	ibf	18884/5719	11240/5719	18884/6007	11240/6007	18884/6182	11240/6182		
erfor	5.5		%	48/20	38/20	43/20	33/20	36/20	27/20		
å	5.7	Gradeability, laden/unladen		Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic		
<i>6</i> 1	5.10	Service Brake		ISUZU 6BG1QP	PSI 4.3L	ISUZU 6BG1QP	PSI 4.3L	ISUZU 6BG1QP	PSI 4.3L		
ngine	7.1	Engine Manufacturer/Type	HP	113	103	113	103	113	103		
Combustion Engine		Engine Power According to DIN ISO 1585	r/min	2200	2300	2200	2300	2200	2300		
ousti		,		6/396.3	V6/262.4	6/396.3	V6/262.4	6/396.3	V6/262.4		
Comt	7.4	No. of Cylinders/Displacement	(-) / (in³)								
		Transmission Manufacturer	bar	Hangcha	Hangcha	Hangcha 195	Hangcha	Hangcha	Hangcha		
Additional Data	10.1	Operating Pressure for Attachments	bar I/min	195	195	195	195	195	195		
Vdditi Da	10.2	on volume for Accounteries		120 Din	120 Din	120 Dia	120 Din	120 Din	120 Din		
٩	10.8	Towing Coupling, type DIN 15170		Pin	Pin	Pin	Pin	Pin	Pin		

11,000-15,500lb XF Series Mast:

	Model .	Max. Fork	Overall Height		Free Lift		Load Distance, Centre of Drive	Tilt Range	Capacity			
Type			Extended		Without With			Load capacity at 24 in				
		Height	Lowered	Without	With	Backrest	Backrest Backrest	Axle to Fork	FWD/BWD	Double Tire		
				Backrest	Backrest					11000lb	13500lb	15500lb
		in	in	in	in	in	in	in	(°)	lb	lb	lb
	X50/70M330	129.9	104.3	169.1/175.9	185.3	6.3	6.3	23.5/23.8	6/12	11000	13500	15500
	X50/70M360	141.7	110.2	180.9/187.7	197.1	6.3	6.3	23.5/23.8	6/12	11000	13500	15500
±_	X50/70M400	157.5	118.1	196.7/203.4	213	6.3	6.3	23.5/23.8	6/12	11000	13500	15500
Limited Free Lift 2 Stage Mast	X50/70M450	177.1	130	216.5/223.1	232.6	6.3	6.3	23.5/23.8	6/6	11000	13500	15500
Limited 2 Sta	X50/70M500	196.9	139.8	236.2/242.8	252.2	6.3	6.3	23.5/23.8	6/6	11000	13500	15500
	X50/70M550	216.5	151.6	257.9/262.5	272	6.3	6.3	23.5/23.8	3/6	10400	12500	14500
	X50/70M600	236.2	161.4	277.5/282.1	291.6	6.3	6.3	23.5/23.8	3/6	9800	11900	14100
	X50/70U300	118.1	96.5	155.7/162	162.9	58.9/52.6	51.7	24.5/25	6/12	11000	13500	15500
Full Free Lift 2 Stage Mast	X50/70U330	130	102.4	167.5/173.8	174.7	64.8/58.5	57.6	24.5/25	6/12	11000	13500	15500
Full Fr 2 Stag	X50/70U360	141.7	108.3	179.3/185.6	186.5	70.7/64.4	63.5	24.5/25	6/12	11000	13500	15500
	X50/70U400	157.5	116.1	195.1/201.4	202.2	78.5/72.2	71.4	24.5/25	6/12	11000	13500	15500
	X50/70N450	177.2	107.3	225.8	232.6	59	52.3	26.3/26.5	6/6	9900	12300	14000
Lift	X50/70N480	189	111.2	237.6	244.4	63	56.2	26.3/26.5	6/6	9901	12300	13800
Full Free Lift 3 Stage Mast	X50/70N500	196.9	113.2	244.6	252.2	65.8	58.2	26.3/26.5	6/6	9902	12100	13800
a Fu	X50/70N550	216.5	121.1	267.1	272	70.9	66.1	26.3/26.5	3/6	9200	11400	6100
	X50/70N600	236.2	127	284.8	291.6	78.7	72	26.3/26.5	3/6	8800	11000	12100

With sideshifter, subtract 1102lbs. With integral sideshifter, subtract 882lbs.







