

HC FORKLIFT AMERICA CORPORATION

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XF Series Diesel / LPG Pneumatic Tire Trucks

with capacities of 11,000 to 15,500lbs





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.



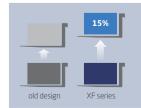
By optimizing the transmission design, the maximum driving speed is increased by 20%





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.

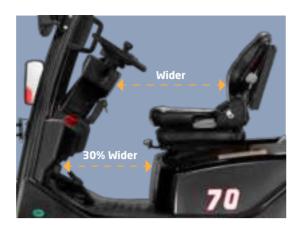




The new dynamic load sensing hydraulic steering system requires 10% less hydraulic oil while providing a 15% increase in lifting speed.

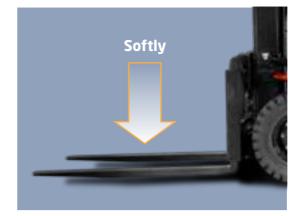
Operator Comfort

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.



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".

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.
- 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, operato centered experience.



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.







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 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.





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.

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.



There's 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, damper, and parking brake fo the operator's safety.



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

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

				UANGGUA CROUP CO LTD								
	1.1	Manufacturer	HANGCHA GROUF	P CO.,LTD.								
		HCFA Model		FD50	FP50	FD60	FP60	FD70	FP70			
S S	1.2	Manulacturer's Type Designation		CPCD50-XW14	CPYD50-XW68	CPCD60-XW14	CPYD60-XW68	CPCD70-XW14	CPYD70-XW68			
Mar	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas		Diesel	LPG	Diesel	LPG	Diesel	LPG			
Distinguishing Marks	1.4	Operator Type: hand, pedestrian, standing, seated, order-picker		Seated	Seated	Seated	Seated	Seated	Seated			
guis	1.5	Rated Capacity/Rated Load	Q (lb)	11000	11000	13500	13500	15500	15500			
istin	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			
±	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			
3	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	hı (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	hз (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	h7 (in)	53	53	53	53	53	53			
	4.12	Coupling Height	h10 (in)	17	17	17	17	17	17			
	4.19	Overall Length	lı (in)	185	185	186	186	189	189			
ions	4.20	Length to Face of Forks	Iz (in)	138	138	139	139	142	142			
Dimensions	4.21	Overall Width	bı(in)	80.7	80.7	80.7	80.7	80.7	80.7			
Ö	4.22	Fork Dimensions	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	Fork Carriage DIN 15173, class/type A, B		IV A	IV A	IV A	IV A	IV A	IV A			
	4.24	Fork-Carriage Width	bз (in)	67	67	67	67	67	67			
	4.31	Ground Clearance, laden, mast	mı (in)	7.5	7.5	7.5	7.5	7.5	7.5			
	4.32	Ground Clearance, centre of wheelbase	m² (in)	10.6	10.6	10.6	10.6	10.6	10.6			
	\vdash	Aisle Width for Pallets 39"x47" Crossways	Ast (in)	198	198	200	200	203	203			
	-	Aisle Width for Pallets 31.5"x47" Lengthways	Ast (in)	206	206	208	208	211	211			
	4.35	Turning Radius	Wa (in)	127	127	129	129	132	132			
	4.36	Internal Turning Radius	b13 (in)	48	48	48	48	48	48			
	5.1	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			
ata	5.2	Lift Speed, laden/unladen	ft/min	108.3/114.2	85/90.2	108.3/114.2	85/90.2	98.4/104.3	75.2/79.2			
uce [5.3	Lowering 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			
Performance Data	5.5	Drawbar Pull,laden/unden	ibf	18884/5719	11240/5719	18884/6007	11240/6007	18884/6182	11240/6182			
Perfo	5.7	Gradeability, laden/unladen	%	48/20	38/20	43/20	33/20	36/20	27/20			
_	5.10	Service Brake		Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic			
e (7.1	Engine Manufacturer/Type		ISUZU 6BG1QP	PSI 4.3L	ISUZU 6BG1QP	PSI 4.3L	ISUZU 6BG1QP	PSI 4.3L			
Combustion Engine	7.2	Engine Power According to DIN ISO 1585	HP	113	103	113	103	113	103			
tion (7.3	Rated Speed	r/min	2200	2300	2200	2300	2200	2300			
bust	7.4	No. of Cylinders/Displacement	(-) / (in³)	6/396.3	V6/262.4	6/396.3	V6/262.4	6/396.3	V6/262.4			
Com	<u> </u>	Transmission Manufacturer		Hangcha	Hangcha	Hangcha	Hangcha	Hangcha	Hangcha			
<u>_</u>	10.1	Operating Pressure for Attachments	bar	195	195	195	195	195	195			
Additional Data	10.2	Oil Volume for Attachments	I/min	120	120	120	120	120	120			
Add		Towing Coupling, type DIN 15170		Pin	Pin	Pin	Pin	Pin	Pin			
	1 20.0											

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

			0	verall Height		Free	Lift		Tilt Range	Capacity			
Туре		Max. Fork		Extended				Load Distance,	Tilt Range	Load capacity at 24 in			
		Height	Lowered		Withou	Without Backrest	With Backrest	Centre of Drive Axle to Fork	FWD/BWD		Double Tire		
	Model	_		Backrest	Backrest	Dackiest	Dackiest	AXIE LUTUIK		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	
imited 2 Stag	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	
ee Lift e 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 Free Lift 2 Stage Mast	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	
3.5	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.

