

XF Series Diesel Pneumatic Tire Forklift

with capacities of 17,500 to 22,000lbs





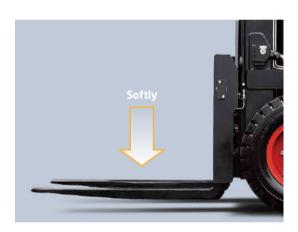


Comfortable Operation

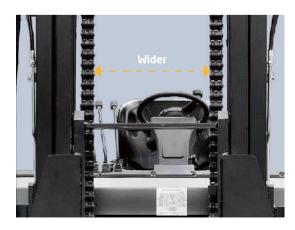
In developing the XF 17500-22000lbs series, comfort and easy operation is always considered, for example, inproved vibrating levels, compound engine damper and full floationg seat and cabin are applied.

Comfortable also contribute to increased productivity.





In addition to the soft landing system, the soft lifting system is adopted (front lifting cylinders of triplex mast and full free duplex mast), as a result, the noise and shock of the mast significantly decreases.



The new design mast provides broad forward visibility due to outside located hydraulic pipes of fork positioner.



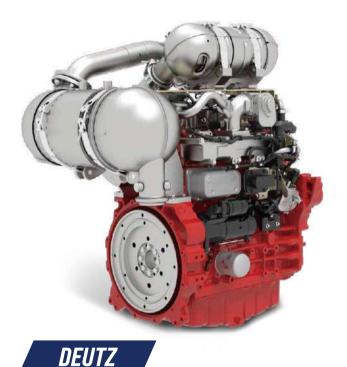
The extra foot space is provided to reduce operator fatigue significantly. The new wide-open, non-slip step makes getting in and out easy and safe.

The optional Electro-hydraulic proportional control system contributes more sensitive and precise load handling. The easy-to-operate levers provide total load handling operation. An armrest is provided to reduce fatigue.



HANGCHA be with you at every stage

Efficient, reliable solutions for your demands





With Hangcha you can meet all Tier 4f emissions standards which provides customer demands for value, innovation and performance. The technologies include common rail fuel systems, diesel oxidation catalysts (DOC) and diesel particulate filters (DPF). Designed and optimised to every engine model, our forklift truck maximises efficiency and reliability.

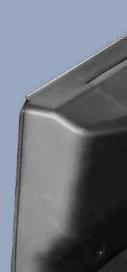




The applied optimized exhaust muffler, intake muffler and the noise shield technologies are reduced 3dB at the driver's ear noise level.

Comfortable Operation

- **1.** The new, relocated easy-to-see LCD meter lets the operator check on all aspects o operational status at a glance.
- The new automobile-style light/turn-signal lever and forward-reverse lever are ergonomically designed and arranged to improve comfort and productivity.
- **3.** Only 90N parking brake force is required
- **4.** The small diameter steering wheel with tilt adjustment provides the ideal operating position. The superior responsiveness of the steering wheel optimizes maneuverability even in narrow spaces.
- The automobile-style suspended pedals provide more ergonomic operation



Productivity

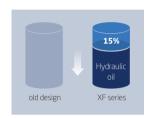
Thanks to the series technological innovations, the efficiency of the truck is improved, the energy consumption is reduced.

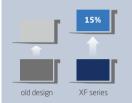


By optimizing transmission design, the power train provides higher efficiency, and the Max. driving speed is increased **20%**



The new efficiency LED lighting system and new type reflector reduce energy consumption, improve illumination performance and prolong working life.







Reliability

By focusing on enhancing reliability, reducing downtime, the XF series is able to make the greater productivity for customer.

The patent plated-fin type aluminum radiator is applied, the heat exchanging is approved, and improves the capability for operation in severe environments.







There're four levels shock absorption applied to reduced the vibration from the road to the driver. The damping pad is applied reduce the vibration, Like between the steering axle and the chassis, The engine, torque convertor and the chassis, the overhead guard and the chassis. And the suspension seat is another vibration reduction.

High strength chassis, mast and front/rear axle are to make sure the reliability of the truck, even for high strength application.





All the controllers, relays, and safety fuses are allocated in the controller box, free to water and dust.

The main electronic components are waterproof, which is capable operater in severe environment.



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 battery is located above the fuel tank, there's battery box and adiabatic plate between them to prolong the battery's workling life.





Add return oil filter of gearbox and multi-valve, improving the cleaness of transmission and hydraulic oil.

Easy Maintenance









Careful design facilitates inspection and servicing. Easy maintenance reduces the amount of downtime and helps to reduce cost also.

The location of the air-filter is easy to reach, and it's very easy to replace the filter.

Brake drum is installed outside of wheel hub, easy to remove and install when we replace the brake shoes.

All the locations of the engine oil level dipstick, filter of hydraulic, water separator are easy to reach, and very easy for engineer to check.

There's gas spring support for the front cover of radiator, and it can auto-open when the rear cover of radiator is opened.

Safety

A wide range of technologies are applied to ensure absolute safety for both the operator and those in the surrounding. Independent braking and steering circuit without interference.



There's an energy accumulator applied in the braking system, which means when the engine is shut down,it can also provides more than 4 times emergency brake.



The locking device of the engine hood damper and parking brake help add to safety.



- OPS system incorporates lifting/tilting and traveling locking function. When the operator leaves the seat, the system automatically locks lifting/tilting and disables traveling to ensure safety.
- **2.** A throttling device is adopted to avoid the mast being out of control even some pipes are broken.

Standards

Transmission	Steering	Chassiss	Control	Hydraulic
/ Suspension transmission	/ Full hydraulic power steering	/ Skidproof pedal	/ Power steering	/ Dynamic load sending control valve
/ Oil filter	/ Smaller diameter steering wheel	/ Rubber pedal	/ Suspension pedal	/ Hydraulic oil filter
/ Dipstick	/ Adjuster of steering wheel	/ Engine hood spring	/ Integrated combination switch	/ Tilt cylinder self-lock valve
/ Oil cooler	/ Shock absorber of steering axle		/ Parking brake	/ Hydraulic oil dipstick
/ Non-asbesttos bake				/ Accumulator
/ Wet brake				/ Hydraulic oil radiator

Truck	Power	Electronics	Mast	
/ Traction device / Hand grip / Standard seat / Floating overhead guard / Waterproof cover on the guard / Back view mirror / Air pneumatic tyres / Toolbox	/ Big capacity aluminum radiator / Whirlwind air cleaner / Safety filter / High-efficient intake muffler / High-efficient exhaust muffler / High-positioned exhaust system	/ LED headlamp / High-efficient LED rear lights / Service-free start 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 / Horn / Reversing buzzer / Air-filter with jam sensor / Emergency power off	/ Standard wide view duplex mast / Standard forks / Standard fork carriage / Mast speed limiting valve / Load safety valve / Mast down buffer device / Mast up buffer device / Side roller / Fork positioner

Options

Truck	Power	Hydraulic	Electronics	Mast
/ Full cabin / Cabin heater / Front window / Super pneumatic tyre / Non-mark tyre(white/green) / Suspension seat / Fire extinguisher / Special given color / Boot for tilt cylinder / Counter weight net / OPS	/ Overhead exhaust system / Air pre-cleaner / Radiator screen / Fan protector	/ Auxiliary hydraulic valve / Elecctro-hydraulic / Proportional control system	/ Front working light / Rear working light / Warning lamp	/ Duplex wide view free-lift mast / Triplex wide view free-lift mast / Special forks / Wider fork carriage / Widerload back rest

Optional Attachments

/ Paper roll clamp / Sideshifter

/ Rotating bale clamp / Rotating forks

/ Load stabilizer / Fork extensioner

/ Multi-drum clamp / Load release device

/ Bale clamp / Carton clamp

/ Drum clamp / Push-pull device

/ Dumping clamp / Bucket

/ Crane arm / Hook

/ String Pole / Lengthened fork

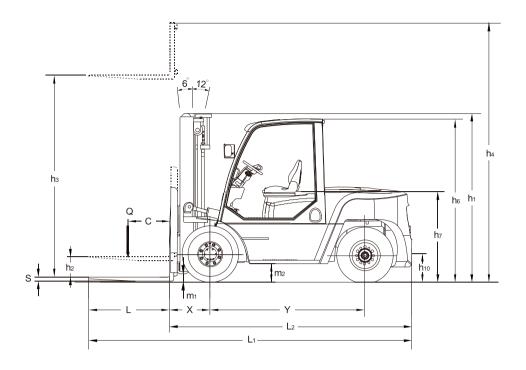


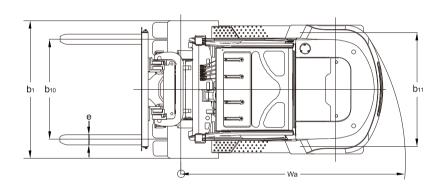
17500/22000lbs XF series mast: (pneumatic)

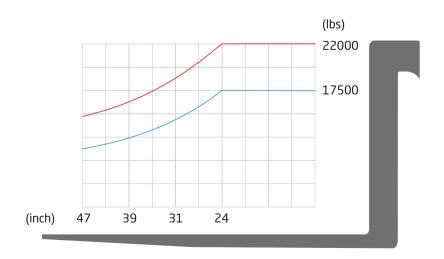
			30110311			,		1	
Туре	Model	Max.fork height	Overal Lowered	Extended Without backrest	Free lift Without backrest	Load distance, centre of drive axle to fork	Titl range FWD/BWD	Load capacity Load capacity at 24inch Double tire	
		in	in	in	in	in	(°)	8t Ib	10t lb
	X80M250	98	96	146	7.8	28.1	6/12	17637	1
	X80M270	106	100	154	7.8	28.1	6/12	17637	1
	X80M300	118	106	166	7.8	28.1	6/12	17637	1
	X80M330	130	112	178	7.8	28.1	6/12	17637	,
	X80M350	138	116	185	7.8	28.1	6/12	17637	,
	X80M360	142	118	189	7.8	28.1	6/12	17637	/
	X80M400	157	126	205	7.8	28.1	6/12	17637	/
	X80M430	169	134	217	7.8	28.1	6/6	17637	/
	X80M450	177	138	225	7.8	28.1	6/6	17637	/
	X80M480	189	144	237	7.8	28.1	6/6	17637	,
	X80M500	197	148	244	7.8	28.1	6/6	17637	/
#		217		265	7.8	28.1	3/6	16314	/
шаг	X80M550		159						
plex	X80M600	236	169	285	7.8	28.1	3/6	15432	1
N DE	X80M650	256	181	307	7.8	28.1	3/6	12787	72045
Wide view Duplex mast	X100M250	98	102	160	7.8	28.6	6/12	1	22046
۸ide	X100M270	106	106	168	7.8	28.6	6/12	/	22046
_	X100M300	118	112	179	7.8	28.6	6/12	/	22046
	X100M330	130	118	191	7.8	28.6	6/12	/	22046
	X100M350	138	122	199	7.8	28.6	6/12	/	22046
	X100M360	142	124	203	7.8	28.6	6/12	/	22046
	X100M400	157	132	219	7.8	28.6	6/12	/	22046
	X100M430	169	140	231	7.8	28.6	6/6	1	22046
	X100M450	177	144	238	7.8	28.6	6/6	1	22046
	X100M480	189	150	250	7.8	28.6	6/6	/	22046
	X100M500	197	154	258	7.8	28.6	6/6	1	22046
	X100M550	217	165	278	7.8	28.6	3/6	1	19872
	X100M600	236	175	297	7.8	28.6	3/6	1	17637
	X100M650	256	187	317	7.8	28.6	3/6	/	14771
	X80U230	91	93	138	45	28.3	6/12	17637	1
	X80U250	98	96	146	49	28.3	6/12	17637	1
	X80U270	106	100	154	53	28.3	6/12	17637	1
	X80U300	118	106	166	59	28.3	6/12	17637	1
Ħ	X80U330	130	112	177	65	28.3	6/12	17637	1
x mast	X80U360	142	118	189	71	28.3	6/12	17637	1
	X80U400	157	126	205	79	28.3	6/12	17637	1
Full free duple	X100U230	91	98	151	38	29.3	6/12	/	22046
¥	X100U250	98	102	159	42	29.3	6/12	1	22046
Œ	X100U270	106	106	167	45	29.3	6/12	/	22046
	X100U300	118	112	179	51	29.3	6/12	1	22046
	X100U330	130	118	191	57	29.3	6/12	/	22046
	X100U360	142	124	203	63	29.3	6/12	1	22046
	X100U400	157	131	218	71	29.3	6/12	/	22046
	X80N450	177	108	227	58	29.9	6/6	15432	1
	X80N480	189	112	239	62	29.9	6/6	15432	/
	X80N500	197	116	250	63	29.9	6/6	14330	1
	X80N550	217	122	268	71	29.9	3/6	13448	/
	X80N600	236	128	286	78	29.9	3/6	12346	1
mas	X80N650	256	139	309	87	29.9	3/6	11023	/
Full free triplex mast	X80N700	276	146	327	94	29.9	3/6	9259	1
e tri	X100N450	177	112	238	51	31.3	6/6	/	18739
II fre	X100N480	189	116	250	55	31.3	6/6	/	18739
Ξ	X100N500	197	120	258	59	31.3	6/6	/	18078
	X100N550	217	126	278	65	31.3	3/6	1	16976
	X100N530	236	132	297	71	31.3	3/6	/	15432
	X100N650	256	143	317	82	31.3	3/6	1	13669
	VT0014030		173	517	OL.	31.3	3,0		13303

XF series 17500/22000lbs forklift specification:

HiCFA Model	
1.3 Drive electric (battery or mains), diesel, petrol, fuel gas Diesel Diesel Diesel	ıG
18 Load distance, centre of drive axide to fork X(in) 28 29	 W75G
18 Load distance, centre of drive axide to fork X(in) 28 29	
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18 Laad distance, centre of drive axie to fork X(in) 28 29	
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2.1 Service weight 1b 26455 30423 47432/50	
1986 20 20 20 20 20 20 20 2	
10 39639/4453 47432/50	3
A Aske loading, unladen front/rear D 10626/15829 1417/5162	 015
Section Sect	5248
September Sept	
September Sep	
3.7 Tread, rear bii (in) 66.9 66.9 4.1 Tilt of mast/fork carriage forward/backward α/β(*) 6/12 6/12 4.2 Height mast lowered hi (in) 106.3 112.2 4.3 Free lift h2 (in) 7.9 7.9 4.4 Lift h3 (in) 118 118 4.5 Height mast extended h4 (in) 165.2 178.9 4.7 Height of overhead guard h6 (in) 101.6 101.6 4.8 Seat height h7 (in) 59.3 59.3 4.12 Coupling height h10 (in) 19.9 19.9 4.19 Overall length h1 (in) 216 226 4.20 Length to face of forks l2 (in) 157 167 4.21 Overall width b1 (in) 85.2 85.2 4.22 Fork dimensions s/e/I (in) 3.0x63x59.1 3.1x6.3x51 4.24 Fork-carriage width b3 (in) 78.7 78.7 4.31 Ground clearance, laden, mast m1 (in) 7.3 7.3 4.32 Ground clearance, centre of wheelbase m2 (in) 13.3 13.3 4.34.1 Aisle width for pallets 1000 x 1200 crossways Ast (in) 229.7 239.1 4.35 Turning radius b13 (in) 53.1 55.5 56.9 61.2 66.9 66.9 66.9 66.9 66.9 66.9 66.9 66.9 66.9 66.9 66.9 66.9 6.12 66.9 66.9 66.9 66.9 66.9 6.12 Circle Circ	
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4.35 Turning radius Wa (in) 146.9 155.1 4.36 Internal turning radius b ₁₃ (in) 53.1 55	2
4.36 Internal turning radius b13 (in) 53.1 55	
5.1 Travel speed, laden/unladen mph -/17.7 -/17.7	
	7
5.2 Lift speed, laden/unladen ft/min 76.8/- 62.4/-	
S.2 Lift speed, laden/unladen ft/min 76.8/- 62.4/-	-
5.5 Drawbar pull,laden/unden Nibf 65000/45000 72000/490	9000
5.7 Gradeability, laden/unladen % >20/-	
5.10 Service brake Wet brake Wet brake	ke
Perconstruction 7.1 Engine manufacturer/type Deutz TCD 3.6L4f Deutz TCD 3.	3.6L4f
7.1 Engine manufacturer/type Deutz TCD 3.6L4f Deutz TCD 3.	F
7.2 Engine power according to DIN ISO 1585 HP 114 114	
7.3 Rated speed r/min 2200 2200	
5 7.4 No. of cylinders/displacement (-)/(in ³) 4/220 4/220)
g 10.1 Operating pressure for attachments bar 195 195	
10.1 Operating pressure for attachments 10.2 Oil volume for attachments 1/min 57 57	
10.8 Towing coupling,type DIN 15170 Pin Pin	









HANGCHA FORKLIFT CANADA INC.

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