



XF Series LPG Pneumatic Tire Forklift

with capacities of 3,000 to 7,000lbs



The World of Hangcha

Simple/ Solid/ Smart

In the XF Series, Hangcha brought together the experience of more than 30 years building forklifts and the latest forklift technologies, the result is superior in efficiency, environmental friendliness, comfortable operation, reliability, safety. The XF Series, produced from careful research and development, represent a true solution to needs from environment, operator and owner.



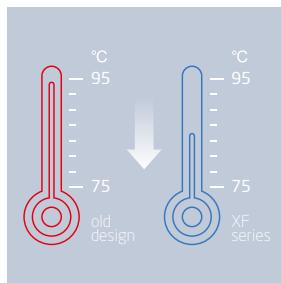


Productivity

Dynamic load sensing hydraulic steering system, Efficiency lighting system, lower fuel consumption, combine to provide increased productivity and reduced operating costs.

The new Dynamic load sensing hydraulic steering system contributes to reduce loss of hydraulic and improve energy efficiency.

The new efficiency lighting system employs LED illuminant and new type reflector to reduce energy consumption, improve significantly illumination performance and prolong work time.



Hydraulic oil balanced temperature
(2.5T 4TNE98)



Comfortable Operation



In developing the XF Series, comfort and ease of operation is carefully considered, for example, to improve vibration levels, compound engine damper and full floating power train are adopted. Comfortable operating environments for operator also contribute to increased productivity.



In addition to rubber damper between frames and steering axle, compound engine damper and full floating power train achieve flexible connection between frames and driving system, as a result, traveling vibrations and vibrations from the driving system are significantly reduced.



The enlarged capacity of optimized exhaust muffler, the intake muffler and the noise shield technologies provide significantly lower noise levels.

- 1.** The new, relocated easy-to-see LCD meter lets the operator check on all aspects of operational status at a glance.
- 2.** The new automobile-style light/turn-signal lever and forward-reverse lever are ergonomically designed and arranged to improve comfort and productivity.
- 3.** 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.
- 4.** The parking brake is specially developed. The operational force is reduced by 30%.
- 5.** The automobile-style suspended pedals provide more ergonomic operation.

Environmental Friendliness

A lineup of powerful and clean engines and environment friendly materials help to reduce the output of undesirable substances over the lifetime of the truck, while creating a cleaner work environment.

The environment friendly materials, such as nonasbestos brake shoe and new type sealing gasket,are adopted entirely to pursue environmental safety.



Comfortable Operation

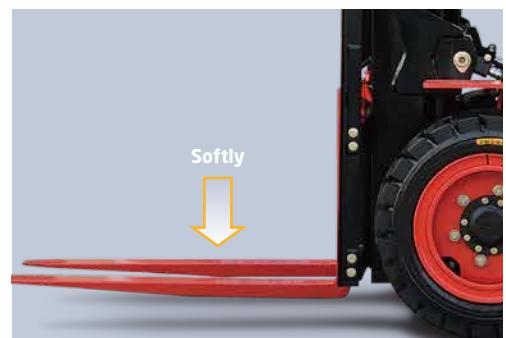
Optimal visibility in all directions create the best conditions for high productivity through relaxed and safe working.



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.

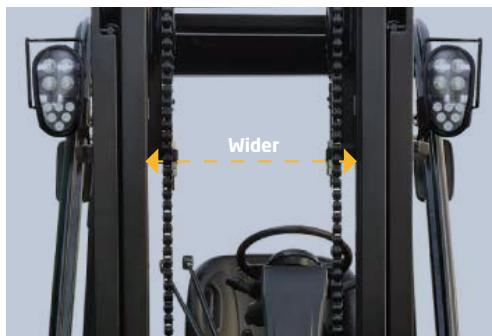
The optional Electro-hydraulic proportional control system contributes more sensitive and precise load handling. The easy-to-operate levers provide total load handling operation. An armrest is provided to reduce fatigue.



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.

Reliability

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



The developed front lifting cylinders with smaller outer diameter give the operator superior forward visibility.

The double lifting cylinders provide better forward visibility.



The new aluminum alloy transmission with full floating structure features excellent heat dissipation capability, more and thicker disc meet the most demanding applications.



The new vehicle controller integrates all electrical components, features excellent durability for temperature, water and vibration for most demanding operation.



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.



XF series features rugged design, stamped frame and engine hood, stamped instrument panel and head guard, heavy profile rail mast combine to provide excellent rigidity, which ensures outstanding reliability even in heavy-duty work.



Extra capacity combined radiator with serpentine wave and optimized heat dissipation channel enhance the heat dissipation capability to keep engine reliability even in heavy-duty applications.

Easy Maintenance



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

The cover on the Panel can be lifted up simply to check the brake fluid.

The two-piece design makes the floorboard easy to lift and remove for access to the power train.

The easy-to-operate latch provides quick access to the engine compartment.

The fasteners of the radiator cover can be turned easily by hand to enable quick inspections or servicing.

Safety

A wide range of technologies are applied to ensure absolute safety for both the operator and those in the surrounding.



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



An optional rear-pillar assist grip with a horn button enhances safety of operator while traveling in reverse.



1. The operator presence sensing 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	Chassis	Control	Hydraulic
/ Suspended transmission	/ Full hydraulic power steering	/ Skidproof pedal	/ Power steering	/ Dynamic load sending control valve (Diesel IC)
/ 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-locking valve
/ Oil cooler			/ Cable parking brake	/ Hydraulic oil dipstick
/ Non-asbestos brake				

Truck	Power	Electronics	Mast
/ Traction device / Handholds / Standard seat / Standard overhead guard / Waterproof cover on the guard / Back view mirror / Pneumatic tyres / Toolbox	/ Big capacity aluminum radiator / Little tank / Whirlwind air cleaner / Safety filter / High-efficient intake muffler / High-efficient exhaust muffler	/ LED headlamp / High-efficient LED rear lights / Service-free start battery / Combination controller / LCD display / Neutral switch / Timee meter / Fuel gauge / Water temperature gauge / Pre-heat indicator / Charging indicator / Engine fuel pressure warning / Transmission oil pressure warning / Horn / Reversinguzzer / Power off	/ Standard wide view duplex mast / Standard forks / Standard fork carriage / Standard load back rest / Mast speed limiting valve / Load safety valve / Mast down buffer device / Mast up buffer device / Side roller

Options

Truck	Transmission	Power	Hydraulic	Electronics	Mast
/ Cabin / Cabin heater / Front window / Super elastic tyre / No-mark tyre (white/green) / Suspension seat / Extinguisher / Cover of tilt cylinder / Heightening overhead guard / Reversing assist grip / Special given color / Seat with sensing system / Boot for tilt cylinder / Counter weight net	/ 2-D wheel / Wet brake system	/ Dual fuel LPG system / Big capacity copper radiator / High-positioned exhaust system / Middle-positioned exhaust system / Air pre-cleaner / Net cover of radiator / Sparkle arrester / Purified exhaust system / Swivel LPG bottle support / Downward LPG bottle support / Fan protector	/ Auxiliary hydraulic valve / Electro-hydraulic proportional control system / Return oil filter	/ OBD / Front working light / Rear working light / Warning lamp / Oil-water separator warning	/ Duplex wide view free-lift mast / Triplex wide view free-lift mast / Triplex wide view 4-cylinder free-lift mast / Special forks / Wider fork carriage / Wider load back rest

Optional Attachments

- | | |
|-----------------------|-----------------------|
| / Paper roll clamp | / Sideshifter |
| / Rotating bale clamp | / Rotating forks |
| / Load stabilizer | / Fork extender |
| / 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 |



XF series 3,000~7,000 lb forklift specification

HANGCHA GROUP CO.,LTD.									
Distinguishing mark	1.1	Manufacturer		CPYD15-XW81F	CPYD18-XW81F	CPYD20-XW71F	CPYD25-XW71F	CPYD30-XW71F	CPYD35-XW71F
	1.2	Manufacturer's type designation		LPG	LPG	LPG	LPG	LPG	LPG
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas		3000	3500	4000	5000	6000	7000
	1.5	Rated capacity/rated load	Q (lb)	24	24	24	24	24	24
	1.6	Load centre distance	c (in)	16	16	18.3	18.3	18.9	19.1
	1.8	Load distance, centre of drive axle to fork	x (in)	16	16.9	16.3	19.3	21.7	24.2
	1.9	Rear overhang	in	58	58	65.0	65.0	66.9	66.9
	1.9	Wheelbase	y (in)						
Weight	2.1	Service Weight	lb	5830	5874	7491	8283	9570	10351
	2.2	Axle loading, laden front/rear	lb	8052/1078	8789/1144	10351/1540	12045/1738	14190/1980	15961/2090
	2.3	Axle loading, unladen front/rear	lb	2728/3102	2695/3388	3542/3949	3432/4851	3850/5720	3784/6567
Tyres, chassis	3.2	Tyre size, front		6.50-10-10PR	6.50-10-10PR	7.00-12-12PR	7.00-12-12PR	28x9-15-14PR	28x9-15-14PR
	3.3	Tyre size, rear		5.00-8-10PR	5.00-8-10PR	6.00-9-10PR	6.00-9-10PR	6.50-10-10PR	6.50-10-10PR
	3.6	Tread, front	b ₁₀ (in)	35.4	35.4	38.0	38.0	39.6	39.6
	3.7	Tread, rear	b ₁₁ (in)	36.2	36.2	38.3	38.3	38.4	38.4
Dimensions	4.1	Tilt of mast/fork carriage forward/backward	a/b(°)	6/12	6/12	6/12	6/12	6/12	6/12
	4.2	Height, mast lowered	h ₁ (in)	78.5	78.5	80.1	80.1	80.7	85.2
	4.3	Free lift	h ₂ (in)	6.1	6.1	5.5	5.5	5.7	5.7
	4.4	Lift	h ₃ (in)	118.1	118.1	118.1	118.1	118.1	118.1
	4.5	Height, mast extended	h ₄ (in)	155.7	155.7	159.3	159.3	163.2	163.2
	4.7	Height of overhead guard (cabin)	h ₅ (in)	83.7(86.8*)	83.7(86.8*)	84.1(87.2*)	84.1(87.2*)	84.6(87.8*)	84.6(87.8*)
	4.20	Length to face of forks	l ₂ (in)	90	90.9	99.6	102.6	107.5	110.2
	4.21	Overall width	b ₁ (in)	42.5	42.5	45.5	45.5	48.2	48.2
	4.22	Fork dimensions ISO 2331	s/e/l (in)	1.4×3.9×36.2	1.4×3.9×36.2	1.6×4.8×42	1.6×4.8×42	1.8×4.8×42	2.0×4.8×42
	4.31	Ground clearance, laden, below mast	m ₁ (in)	4.5	4.5	4.5	4.5	5.1	5.1
	4.32	Ground clearance, centre of wheelbase	m ₂ (in)	5.5	5.5	5.9	5.9	6.5	6.5
	4.35	Turning radius	l _{Wa} (in)	78.3	79.3	85.8	88.4	92.7	95.1
	"Min. right angle stacking aisle width (Add load length and clearance)"		in	94.3	95.3	104.1	106.7	111.6	114.2
Performance data	5.1	Travel speed, laden/unladen	mph	(-/12.4)	(-/12.4)	(-/11.8)	(-/11.8)	(-/11.1)	(-/11.1)
	5.2	Lift speed, laden/unladen	ft/min	104.4/-	104.4/-	110.2/-	110.2/-	88.6/-	75.8/-
	5.3	Lowering speed, laden/unladen	ft/min	98.4/-	98.4/-	98.4/-	98.4/-	98.4/-	98.4/-
	5.5	Drawbar pull, laden/unladen	lbf	4271	4271	(4720/-)	(4720/-)	(4946/-)	(4946/-)
	5.7	Gradeability, laden/unladen*	%	(37/-)	(37/-)	(33/-)	(28/-)	(25/-)	(22/-)
Combustion-engine	7.1	Engine manufacturer/type		GCT/GK21LPG CERT	GCT/GK21LPG CERT	GCT/GK25LPG CERT	GCT/GK25LPG CERT	GCT/GK25LPG CERT	GCT/GK25LPG CERT
		Emission STD		EPA/CARB Tier 2					
	7.2	Engine power	HP	54	54	61	61	61	61
	7.3	Rated speed	r/min	2700	2700	2700	2700	2700	2700
	7.4	Number of cylinders/displacement	(-) / (in ³)	4/126	4/126	4/151.8	4/151.8	4/151.8	4/151.8
	7.10	Battery voltage/nominal capacity	V/Ah	12/60	12/60	12/60	12/60	12/60	12/60
		Rated torque	N·m/r/min	150/2000	150/2000	187/1600	187/1600	187/1600	187/1600
		Bore × stroke	in	3.5x3.3	3.5x3.3	3.5x3.9	3.5x3.9	3.5x3.9	3.5x3.9
		Transmissions Manufacturer		HANGCHA	HANGCHA	HANGCHA	HANGCHA	HANGCHA	HANGCHA
		Transmissions Type		Powershift	Powershift	Powershift	Powershift	Powershift	Powershift
Additional data		Stage FWD/RVS		1/1	1/1	1/1	1/1	1/1	1/1
	10.1	Operating pressure for attachments	bar	145	145	175	175	175	175
	10.4	Fuel tank capacity	gal	7.4	7.4	10.6	10.6	10.6	10.6

Note: *With suspension seat or cabin

* As a calculated value

3,000~3,500 lb XF series mast: (pneumatic)

Type	Model	Max. fork height	Overall height				Free lift		Front Overhang		Tilt range		Capacity							
			Extended		Without backrest		With backrest				FWD	BWD	Load capacity at 24in							
			Lowered		Without backrest	With backrest	Without backrest	With backrest			3000lb	3500lb	Single tire		Dual tire					
			in	in	in	in	in	in	in	in	(°)	(°)	lb	lb	lb	lb	lb	lb		
Wide view mast	X15M200	78.7	58.9	101.0	116.3	6.1	6.1	15.9	16.1	6	12	3000	3500	3000	3500					
	X15M250	98.4	68.7	120.7	136.0	6.1	6.1	15.9	16.1	6	12	3000	3500	3000	3500					
	X15M270	106.3	72.6	128.5	143.9	6.1	6.1	15.9	16.1	6	12	3000	3500	3000	3500					
	X15M300	118.1	78.5	140.4	155.7	6.1	6.1	15.9	16.1	6	12	3000	3500	3000	3500					
	X15M330	129.9	84.4	152.2	167.5	6.1	6.1	15.9	16.1	6	12	3000	3500	3000	3500					
	X15M350	137.8	88.4	160.0	175.4	6.1	6.1	15.9	16.1	6	12	3000	3500	3000	3500					
	X15M370	145.7	94.3	167.9	183.3	6.1	6.1	15.9	16.1	6	12	3000	3500	3000	3500					
	X15M400	157.5	102.2	181.1	195.1	6.1	6.1	15.9	16.1	6	12	3000	3300	3000	3400					
	X15M430	169.3	108.1	192.9	206.9	6.1	6.1	15.9	16.1	6	6	2900	3200	2900	3300					
	X15M450	177.2	112.0	200.8	214.8	6.1	6.1	15.9	16.1	6	6	2800	3100	2800	3200					
	X15M470	185.0	115.9	208.7	222.6	6.1	6.1	15.9	16.1	6	6	2700	3000	2700	3100					
	X15M500	196.9	121.9	220.5	234.4	6.1	6.1	15.9	16.1	6	6	2600	2900	2600	3000					
	X15M550	216.5	131.7	240.2	254.1	6.1	6.1	15.9	16.1	6	6	/	/	2300	2600					
	X15M600	236.2	141.5	259.8	273.8	6.1	6.1	15.9	16.1	6	6	/	/	2100	2300					
Wide view full free duplex mast	X15U200	78.7	61.4	101.8	115.9	38.4	24.2	15.9	16.1	6	12	3000	3500	3000	3500					
	X15U250	98.4	71.3	121.5	135.6	48.2	34.1	15.9	16.1	6	12	3000	3500	3000	3500					
	X15U270	106.3	75.2	129.3	143.5	52.2	38.0	15.9	16.1	6	12	3000	3500	3000	3500					
	X15U300	118.1	79.1	141.3	155.5	56.1	41.9	15.9	16.1	6	12	3000	3500	3000	3500					
	X15U330	129.9	85.0	153.0	167.1	62.0	47.8	15.9	16.1	6	12	3000	3500	3000	3500					
	X15U350	137.8	89.0	160.8	175.0	65.9	51.8	15.9	16.1	6	12	3000	3500	3000	3500					
	X15U370	145.7	92.9	168.7	182.9	69.9	55.7	15.9	16.1	6	12	3000	3500	3000	3500					
	X15U400	157.5	100.8	180.5	194.7	77.8	63.6	15.9	16.1	6	12	3000	3300	3000	3400					
Wide view full free triplex mast	X15N400	157.5	77.6	184.3	195.1	51.2	40.4	16.5	16.7	6	6	2800	3100	2800	3200					
	X15N430	169.3	81.5	196.1	206.9	55.1	44.3	16.5	16.7	6	6	2700	3000	2700	3100					
	X15N450	177.2	83.5	202.0	214.8	59.1	46.3	16.5	16.7	6	6	2600	2900	2600	3000					
	X15N470	185.0	85.4	211.8	226.4	62.4	48.2	16.5	16.7	6	6	2500	2800	2500	2900					
	X15N500	196.9	89.4	220.3	234.4	66.3	52.2	16.5	16.7	6	6	2400	2700	2500	2900					
	X15N550	216.5	97.2	240.0	254.1	74.2	60.0	16.5	16.7	3	6	1900	2100	2300	2600					
	X15N600	236.2	107.1	265.0	277.8	82.7	69.9	16.5	16.7	3	6	1400	1500	2100	2300					
	X15N650	255.9	113.0	282.7	293.5	86.6	75.8	16.5	16.7	3	6	/	/	1600	1800					
	X15N700	275.6	116.9	299.0	313.2	93.9	79.7	16.5	16.7	3	6	/	/	1100	1300					

With sideshifter minus 300lb,with integral sideshifter minus 200lb.

4,000~5,000 lb XF series mast: (pneumatic)

Type	Model	Max. fork height	Overall height				Free lift		Front Overhang		Tilt range		Capacity							
			Extended		Without backrest		With backrest				FWD	BWD	Load capacity at 24in							
			Lowered		Without backrest	With backrest	Without backrest	With backrest			3000lb	4000lb	5000lb	4000lb	5000lb	4000lb	5000lb	4000lb	5000lb	
			in	in	in	in	in	in	in	in	(°)	(°)	lb	lb	lb	lb	lb	lb		
Wide view mast	X25M330	129.9	86.0	155.9	171.1	5.5	5.5	18.3	6	12	4000	5000	4000	5000						
	X25M350	137.8	90.0	163.8	178.9	5.5	5.5	18.3	6	12	4000	5000	4000	5000						
	X25U300	118.1	79.1	144.9	159.3	52.4	37.8	18.3	6	12	4000	5000	4000	5000						
	X25U330	129.9	85.0	156.7	171.1	58.3	43.7	18.3	6	12	4000	5000	4000	5000						
	X25U350	137.8	89.0	164.6	178.9	62.2	47.6	18.3	6	12	4000	5000	4000	5000						
	X25N430	169.3	82.7	196.9	210.4	55.1	41.5	18.9	6	6	3700	4400	3800	4700						
	X25N450	177.2	84.6	205.9	220.3	57.9	43.5	18.9	6	6	3600	4100	3700	4400						
Wide view full free duplex mast	X25N470	185.0	86.6	211.8	226.2	59.8	45.5	18.9	6	6	3500	3800	3600	4100						
	X25N500	196.9	90.6	223.6	238.0	63.8	49.4	18.9	6	6	3400	3500	3600	4100						
	X25N550	216.5	98.4	243.3	257.7	71.7	57.3	18.9	3	6	2600	2800	3200	3800						

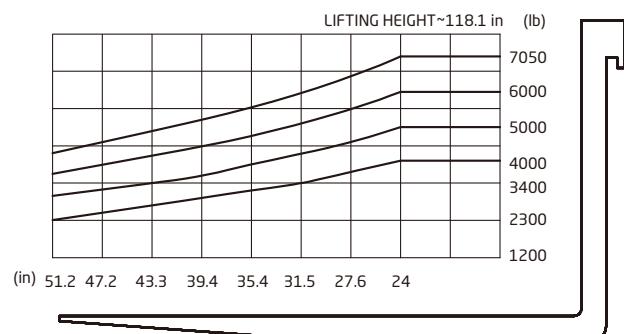
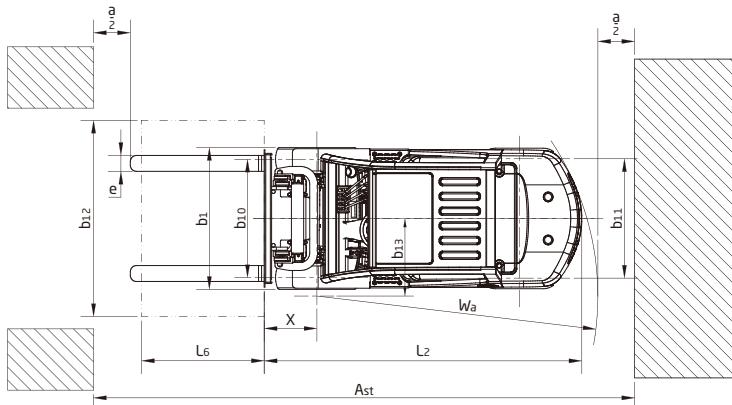
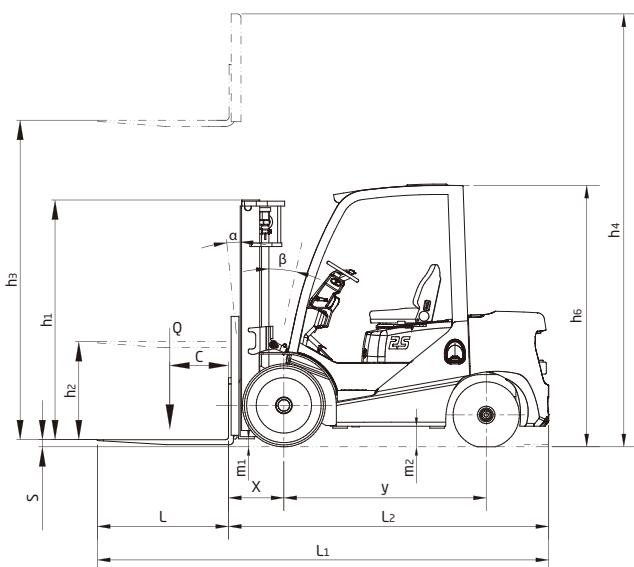
With sideshifter minus 330lb,with integral sideshifter minus 220lb.

6,000~7,000 lb XF series mast: (pneumatic)

Type	Model	Max. fork height	Overall height				Free lift		Front Overhang		Tilt range		Capacity							
			Extended		Without backrest		With backrest				FWD	BWD	Load capacity at 24in							
			Lowered		Without backrest	With backrest	Without backrest	With backrest			3000lb	4000lb	5000lb	6000lb	7000lb	6000lb	7000lb	6000lb	7000lb	
			in	in	6000lb	7000lb	6000lb	7000lb	6000lb	7000lb	6000lb	7000lb	(°)	(°)	lb	lb	lb	lb		
Wide view mast	X30/35M330	129.9	86.6	91.1	158.9	162.0	175.0	175.0	5.7	5.7	5.7	5.7	18.9	19.1	6	12	6000	7000		
	X30/35M350	137.8	90.6	95.1	166.7	169.9	182.9	182.9	5.7	5.7	5.7	5.7	18.9	19.1	6	12	6000	7000		
	X30/35U300	118.1	81.9	85.8	147.8	150.8	163.2	163.2	52.2	53.1	36.8	40.7	18.9	18.9	6	12	6000	7000		
	X30/35U330	129.9	87.8	91.7	159.6	162.6	175.0	175.0	58.1	59.1	42.7	50.6	18.9	18.9	6	12	6000	7000		
	X30/35U350	137.8	91.7	95.7	167.5	170.5	182.9	182.9	62.0	63.0	46.7	54.5	18.9	18.9	6	12	6000	7000		
	X30/3N430	169.3	83.3	87.2	199.0	202.0	214.4	214												

XF series 4 cylinder mast

	Model	Max. fork height	Lowered height	Extended with backrest	Extended without backrest	Free lift with backrest	Free lift without backrest
		inch	inch	inch	inch	inch	inch
4000-5000lbs	X25D400-000000-000	157	80	199	185	39	53
	X25D430-000000-000	169	84	211	196	42	57
	X25D450-000000-000	177	86	219	204	45	59
	X25D470-000000-000	185	89	227	212	48	62
	X25D480-000000-000	189	90	231	216	49	63
	X25D500-000000-000	197	93	238	224	52	66
	X25D550-000000-000	217	101	258	245	60	75
	X25D600-000000-000	236	108	278	265	67	81
	X25D650-000000-000	256	115	297	285	73	88
6000lbs	X25D700-000000-000	276	121	317	305	80	94
	X30D400-000000-000	157	80	203	187	35	51
	X30D430-000000-000	169	84	215	199	39	55
	X30D450-000000-000	177	87	223	207	42	57
	X30D470-000000-000	185	89	230	215	44	60
	X30D480-000000-000	189	91	234	219	46	61
	X30D500-000000-000	197	93	242	227	49	64
	X30D550-000000-000	217	102	262	247	57	72
	X30D600-000000-000	236	108	282	266	63	79
7000lbs	X30D650-000000-000	256	115	301	286	70	86
	X30D700-000000-000	276	122	321	306	77	92
	X35D400-000000-000	157	82	203	190	37	50
	X35D430-000000-000	169	86	215	202	41	54
	X35D450-000000-000	177	89	223	210	44	57
	X35D470-000000-000	185	92	230	218	47	59
	X35D480-000000-000	189	93	234	222	48	60
	X35D500-000000-000	197	96	242	230	51	63
	X35D550-000000-000	217	102	262	250	57	70
	X35D600-000000-000	236	111	282	269	66	78
	X35D650-000000-000	256	118	301	289	73	85
	X35D700-000000-000	276	124	321	309	79	92



**Environment
Efficiency/
Economy**





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