

### 4.0-4.5t XF series mast: (pneumatic)

Type	Model	Mast height		Mast width		Mast depth		Mast length		Mast weight		Mast capacity		Mast volume	
		mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
4.0t	X40A050	2500	100.8	4450	175.2	1100	43.3	1100	43.3	1100	43.3	1100	43.3	1100	43.3
	X40A060	2500	100.8	4450	175.2	1100	43.3	1100	43.3	1100	43.3	1100	43.3	1100	43.3
	X40A070	2500	100.8	4450	175.2	1100	43.3	1100	43.3	1100	43.3	1100	43.3	1100	43.3
	X40A080	2500	100.8	4450	175.2	1100	43.3	1100	43.3	1100	43.3	1100	43.3	1100	43.3
	X40A090	2500	100.8	4450	175.2	1100	43.3	1100	43.3	1100	43.3	1100	43.3	1100	43.3
	X40A100	2500	100.8	4450	175.2	1100	43.3	1100	43.3	1100	43.3	1100	43.3	1100	43.3
	X40A110	2500	100.8	4450	175.2	1100	43.3	1100	43.3	1100	43.3	1100	43.3	1100	43.3
	X40A120	2500	100.8	4450	175.2	1100	43.3	1100	43.3	1100	43.3	1100	43.3	1100	43.3
	X40A130	2500	100.8	4450	175.2	1100	43.3	1100	43.3	1100	43.3	1100	43.3	1100	43.3
	X40A140	2500	100.8	4450	175.2	1100	43.3	1100	43.3	1100	43.3	1100	43.3	1100	43.3
4.5t	X45A050	2500	100.8	4450	175.2	1100	43.3	1100	43.3	1100	43.3	1100	43.3	1100	43.3
	X45A060	2500	100.8	4450	175.2	1100	43.3	1100	43.3	1100	43.3	1100	43.3	1100	43.3
	X45A070	2500	100.8	4450	175.2	1100	43.3	1100	43.3	1100	43.3	1100	43.3	1100	43.3
	X45A080	2500	100.8	4450	175.2	1100	43.3	1100	43.3	1100	43.3	1100	43.3	1100	43.3
	X45A090	2500	100.8	4450	175.2	1100	43.3	1100	43.3	1100	43.3	1100	43.3	1100	43.3
	X45A100	2500	100.8	4450	175.2	1100	43.3	1100	43.3	1100	43.3	1100	43.3	1100	43.3
	X45A110	2500	100.8	4450	175.2	1100	43.3	1100	43.3	1100	43.3	1100	43.3	1100	43.3
	X45A120	2500	100.8	4450	175.2	1100	43.3	1100	43.3	1100	43.3	1100	43.3	1100	43.3
	X45A130	2500	100.8	4450	175.2	1100	43.3	1100	43.3	1100	43.3	1100	43.3	1100	43.3
	X45A140	2500	100.8	4450	175.2	1100	43.3	1100	43.3	1100	43.3	1100	43.3	1100	43.3

### 5.0-5.5t XF series mast: (pneumatic)

Type	Model	Mast height		Mast width		Mast depth		Mast length		Mast weight		Mast capacity		Mast volume	
		mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
5.0t	X50A050	2500	100.8	4450	175.2	1100	43.3	1100	43.3	1100	43.3	1100	43.3	1100	43.3
	X50A060	2500	100.8	4450	175.2	1100	43.3	1100	43.3	1100	43.3	1100	43.3	1100	43.3
	X50A070	2500	100.8	4450	175.2	1100	43.3	1100	43.3	1100	43.3	1100	43.3	1100	43.3
	X50A080	2500	100.8	4450	175.2	1100	43.3	1100	43.3	1100	43.3	1100	43.3	1100	43.3
	X50A090	2500	100.8	4450	175.2	1100	43.3	1100	43.3	1100	43.3	1100	43.3	1100	43.3
	X50A100	2500	100.8	4450	175.2	1100	43.3	1100	43.3	1100	43.3	1100	43.3	1100	43.3
	X50A110	2500	100.8	4450	175.2	1100	43.3	1100	43.3	1100	43.3	1100	43.3	1100	43.3
	X50A120	2500	100.8	4450	175.2	1100	43.3	1100	43.3	1100	43.3	1100	43.3	1100	43.3
	X50A130	2500	100.8	4450	175.2	1100	43.3	1100	43.3	1100	43.3	1100	43.3	1100	43.3
	X50A140	2500	100.8	4450	175.2	1100	43.3	1100	43.3	1100	43.3	1100	43.3	1100	43.3
5.5t	X55A050	2500	100.8	4450	175.2	1100	43.3	1100	43.3	1100	43.3	1100	43.3	1100	43.3
	X55A060	2500	100.8	4450	175.2	1100	43.3	1100	43.3	1100	43.3	1100	43.3	1100	43.3
	X55A070	2500	100.8	4450	175.2	1100	43.3	1100	43.3	1100	43.3	1100	43.3	1100	43.3
	X55A080	2500	100.8	4450	175.2	1100	43.3	1100	43.3	1100	43.3	1100	43.3	1100	43.3
	X55A090	2500	100.8	4450	175.2	1100	43.3	1100	43.3	1100	43.3	1100	43.3	1100	43.3
	X55A100	2500	100.8	4450	175.2	1100	43.3	1100	43.3	1100	43.3	1100	43.3	1100	43.3
	X55A110	2500	100.8	4450	175.2	1100	43.3	1100	43.3	1100	43.3	1100	43.3	1100	43.3
	X55A120	2500	100.8	4450	175.2	1100	43.3	1100	43.3	1100	43.3	1100	43.3	1100	43.3
	X55A130	2500	100.8	4450	175.2	1100	43.3	1100	43.3	1100	43.3	1100	43.3	1100	43.3
	X55A140	2500	100.8	4450	175.2	1100	43.3	1100	43.3	1100	43.3	1100	43.3	1100	43.3



## XF Series Diesel / Gasoline / LPG Counterbalanced Trucks

with capacities of 4,000 to 5,500kg

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The World of Hangcha



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**HANGCHA** be with you at every stage  
Efficient, reliable solutions for your demands

## STAGE V & TIER 4F

With Hangcha you can meet all Stage V/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.



**XINGCHAI**



Interactive instrument: The instrument adopts 4.0-inch color LCD display with four interactive buttons, and has one CAN bus communication function. The communication protocol is compatible with CANopen and SAE J1939 standards.

### HANGCHA Forklift with StageV and T4F

No.	Capacity	Series	Manufacturer	Engine	Drive power	Model	Emission Std.	Transmission	Power (kw/rpm)
1	4.0-5.5t	XF	KUBOTA	V3307-CR-T1E5B	Diesel	CPD040/45-XM698BN,CPD50/55-XM9598N	Stage V / Tier4 final	OKAMURA	55.4/2200
2	4.0-5.5t	XF	KUBOTA	WG3800-L-ESC	LPG	CPYD40/45-XH11BN,CPYD50/55-XH11BN	Stage V/EPA Tier 2 / CARB Tier 3	OKAMURA	61.6/2300
3	4.0-5.5t	XF	KUBOTA	WG3800-CL-E3C	Gas/LPG	CPYD40/45-XH12BN,CPYD50/55-XH12BN	Stage V/EPA Tier 2 / CARB Tier 3	OKAMURA	G5S544/2300 LPG546/2300
4	4.0-5.5t	XF	XINGCHAI	4E3DVC52	Diesel	CPD040/45-XH88N,CPD50/55-XH88N	Stage V	OKAMURA	55.8/2200

Note: Stage V applied for European Union also including Israel and Turkey  
Tier4-Final applied for North American

**Powerful/  
Efficient/  
Reliable**







## Reliability

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

XF series truck just equip with Okamura transmission, Brake drum and hub adopt monolithic construction.



XF series features rugged design, stamped frame and engine hood, stamped instrument panel and head guard, heavy profile rail nest 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.



Bigger diameter of steering cylinder.

## 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.



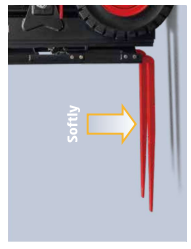
# Comfortable Operation

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

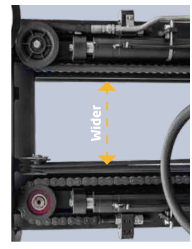


The extra foot space is provided to reduce operator fatigue significantly. The new wide-open, non-slip step makes getting in and out easy and safe.

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.



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

The double front lifting cylinders provide better forward visibility.

*In developing the new 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.*



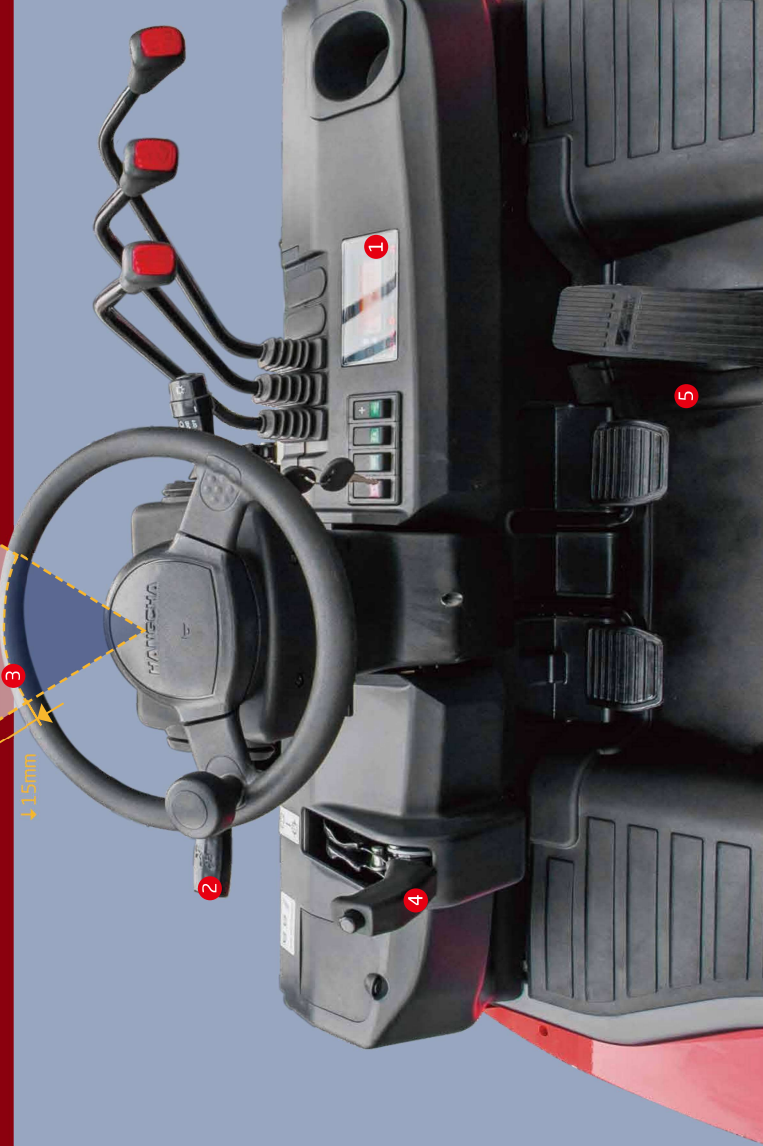
In addition to rubber damper between frames and steering axle, compound engine damper and full floating power train achieve flexible connection between frames and driving system, as a result traveling vibrations and vibrations from the driving system are significantly reduced.



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.



# Safety

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

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

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



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.



# Easy Maintenance

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



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



CUMMINS engine use the special air filter, it can reduce air intake resistance dramatically, equipped with pressure alarm to master the maintaining time.



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

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

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

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



# Standards

Transmission	Steering	Chassis	Control	Hydraulic
<ul style="list-style-type: none"> <li>/ Suspension transmission</li> <li>/ Oil filter</li> <li>/ Dipstick</li> <li>/ Oil cooler</li> <li>/ Non- asbestos bale</li> <li>/ Wet brake</li> <li>/ OCM/URCA transmission</li> </ul>	<ul style="list-style-type: none"> <li>/ Fully hydraulic power steering</li> <li>/ Smaller diameter steering wheel</li> <li>/ Adjuster of steering wheel</li> </ul>	<ul style="list-style-type: none"> <li>/ Anti-slip pedal</li> <li>/ Rubber pedal</li> <li>/ Engine load spring</li> </ul>	<ul style="list-style-type: none"> <li>/ Power steering</li> <li>/ Suspension pedal</li> <li>/ Integrated combination switch</li> <li>/ Cable parking brake</li> </ul>	<ul style="list-style-type: none"> <li>/ Dynamic load sensing control valve (Diesel IC)</li> <li>/ Hydraulic oil filter</li> <li>/ Tilt cylinder self lock valve</li> <li>/ Hydraulic oil dipstick</li> <li>/ Dual pump</li> </ul>

## Truck

- / Traction device
- / Hand grip
- / Standard seat
- / Standard overhead guard
- / Waterproof cover on the guard
- / Back view mirror
- / Pneumatic tyres
- / Toolbox

## Electronics

- / Counter weight net
- / Fan protector
- / Big capacity aluminum radiator
- / Nitrowind air cleaner
- / Safety filter
- / High-efficient intake muffler
- / High-efficient exhaust muff
- / Upright exhaust pipe

## Mast

- / Standard wide view duplex mast
- / Standard forks
- / Standard fork carriage
- / Standard load backrest
- / Mast speed limiting valve
- / Loading relieve valve
- / Softlanding system
- / Side roller

# Options

Truck	Transmission	Power	Hydraulic	Electronics	Mast
<ul style="list-style-type: none"> <li>/ Cabin</li> <li>/ Cabin heater</li> <li>/ Front window</li> <li>/ Super-elastic tyre</li> <li>/ Non-mark tyre(white/green)</li> <li>/ Suspension seat</li> <li>/ Extinguisher</li> <li>/ Cover of tilt cylinder</li> <li>/ Highlighting overhead guard</li> <li>/ Reversing assist grip</li> <li>/ Customer painting</li> <li>/ OPS/Operator Presence Sensing system</li> <li>/ Boot for tilt cylinder</li> <li>/ Additional counterweight</li> </ul>	<ul style="list-style-type: none"> <li>/ Dual driving tyre</li> <li>/ Solid tyre</li> </ul>	<ul style="list-style-type: none"> <li>/ Dual fuel PC system</li> <li>/ Big capacity copper radiator</li> <li>/ Upright exhaust system</li> <li>/ Middle-positioned exhaust system</li> <li>/ Dual air filter</li> <li>/ Net cover of radiator</li> <li>/ Sparkle arrester</li> <li>/ Purifier exhaust system</li> <li>/ Swivel LPG bottle support</li> <li>/ Downward LPG bottle support</li> </ul>	<ul style="list-style-type: none"> <li>/ Auxiliary hydraulic valve</li> <li>/ Electro-hydraulic proportional control system</li> <li>/ Return oil filter</li> </ul>	<ul style="list-style-type: none"> <li>/ DBO</li> <li>/ Front working light</li> <li>/ Rear working light</li> <li>/ Warning lamp</li> <li>/ Speed meter</li> <li>/ Over-speed alarm</li> <li>/ LED working light</li> </ul>	<ul style="list-style-type: none"> <li>/ Duplex wide view free-lift mast</li> <li>/ Triplex wide view free-lift mast</li> <li>/ Triplex wide view free-lift mast</li> <li>/ Triplex wide view 4-cylinder free-lift mast</li> <li>/ Special forks</li> <li>/ Wider fork carriage</li> <li>/ Wider load back rest</li> </ul>

# Optional Attachments

- / Paper roll clamp
- / Rotating bale clamp
- / Load stabilizer
- / Multi-drum clamp
- / Bale clamp
- / Drum clamp
- / Dumping clamp
- / Crane arm
- / String Pole
- / Sideshifter
- / Rotating forks
- / Fork extensior
- / Load release device
- / Carton clamp
- / Push-pull device
- / Bucket
- / Hook
- / Lengthened fork

