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XF2 Series IC Counterbalanced Trucks

with capacity of 1,500 to 3,500kg

STAGE V
CERTIFIED



The World of Hangcha
SINCE 1956



FOR HIGH PERFORMANCE DURING WORKING



Appearance

A vivid and sturdy exterior inheriting the classic design, embodying innovative ideas, and bringing a strong high-tech impact.



Safe

- / The vehicle has a low center of gravity design and optimized operating vision. (small counterweight design, backward tilting counterweight design, optimized triplex mast design).
- / OPS system is provided for the standard configuration and optionally an adjustable speed limit range of several segments is provided.



Mast

Can be easily installed with J-hooks through a simple process.





***MORE VISION
MORE CONTROL
MORE GUARANTEE***

All-round visibility

Optimized design provides outstanding visibility in all directions.

COMFORTABLE

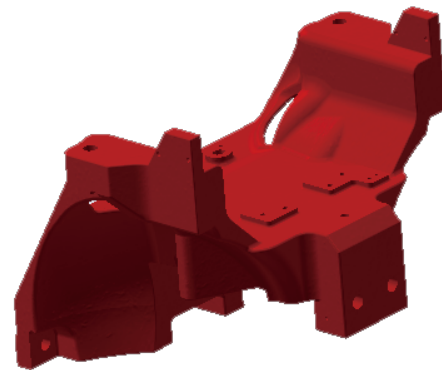
- / The fully-suspended gearbox, fully-suspended overhead guard, and fully-suspended seat realize three-stage vibration reduction to reduce vibration of the vehicle.
- / Noise control: Special sound-absorbing cotton is attached to certain parts and so on to decrease the vehicle's noise.
- / Optimized ergonomic design, enlarged cab space, an optional new-generation fingertip operating system.



The fully-suspended gearbox



Fully-suspended overhead guard



Cast steering axle mounts

Truck Construction

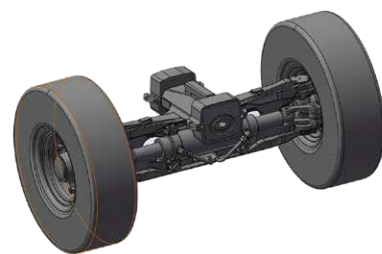
With the novel designed cast steering axle mounts, the center of gravity is lowered, and the vehicle's noise radiation is reduced. An integrated fully-suspended overhead guard is provided for the standard configuration, and customers can choose cab. Large plate stamping and molding processes and automatic welding technology are used to enable a stylish exterior.

Control system

- / Breaking through the limitation of the traditional steering axle structure, the newly developed cast open steering axle has the maximum internal turning angle increased from 77° to 82°, it can help customers work in narrow space.
- / With the cast open steering axle, the oil cylinder can be replaced easily, and the vehicle has a low center of gravity and good stability.
- / The steering axle is installed with pads, which effectively improve the operation comfort and reliability.
- / Parking brake: A central brake requiring less operating force.



An optional pedal parking brake

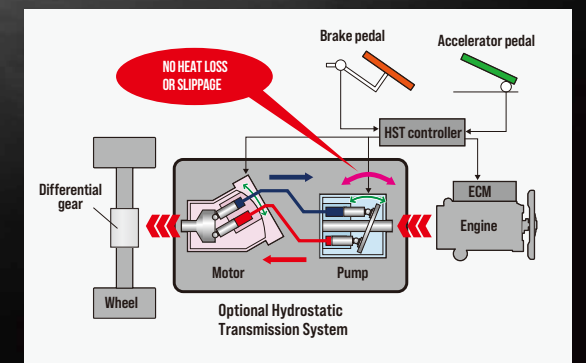


Cast steering axle



Optional hydrostatic transmission system

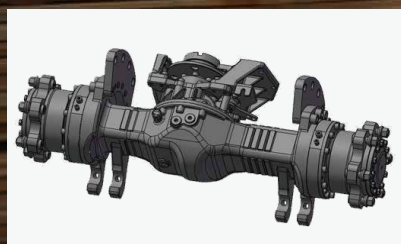
- / In this system, the engine drives a hydraulic pump and the pressure is transferred to a hydraulic motor mounted on the drive axle, then the motor outputs traction to the drive wheels via a gear reducer and a differential.
- / As this system has no clutch to be used by the hydraulic transmission forklift truck, it does not cause heat loss and wear from inching operation, minimizing transmission losses and reducing fuel consumption.
- / The hydrostatic drive system will automatically brake when the accelerator is released, leading to less wear and tear on the brake and tyres, and longer service life.
- / Equipped with the adjustable speed setting and turning deceleration function, driving safety can be ensured from all aspects.
- / Three operating modes [E, N, S] are freely selectable, providing simple and precise control and allowing optimal working efficiency in a wide range of operating conditions.



THE POWER TO PERFORM

Reliable

- / A wet axle is developed and used to significantly improve the reliability of the braking system and force transmission structural parts. (Wet brake, custom high-strength bolts, wheel side planetary reducer).
- / Wet brake drive axle + enhanced SHAOCHI/ OKAMURA enhanced gearbox. Both the drive axle and the gearbox are expected to have a service life of far longer than 10 years, and the wet brake 10 years. Enhanced four-piece rims are used.



Wet brake drive axle

Hydraulic

A high-pressure hydraulic system and load-sensing steering-priority-ensured multiway valves are used to improve system efficiency. A low-noise Shimadzu gear pump can improve reliability and reduce noise. All joints are 24° conic joints and each high-pressure pipe joint has a pressure measuring port, to enable better sealing and maintainability.

E SERIES engines and an enhanced gearbox are developed and used to significantly improve the reliability of the power train. (E series engines match the enhanced F gearbox and new Okamura gearbox).



High Power



Heat Dissipation

Power

- / The highly cost-effective Xinchai 3E22 diesel engine meets EU V emission requirements.
- / The engine has been tested for 10000h in total for reliability validation in several round, the reliability has been fully verified. It is worth mentioning that the diesel engine has been tested in Jinan testing center and Bosch Wuxi test bench for 3000h. The diesel engine has excellent reliability, and is rated as Bosch off-road project 'BES' award.
- / A plate-fin heat dissipater with less air resistance is developed, which has a heat dissipation efficiency increased by 15%.



0.44%

Very low dilution ratio of engine oil, the oil dilution ratio after single regeneration is only 0.44%, much lower than the value of 20% specified in the national standard, the oil change interval of E series diesel engine up to 500h.



5,000h

DPF has a long maintenance interval, Based on excellent engine raw emission level and regeneration strategy, the ash cleaning interval up to 5000h.



DPF



E series engine

FULLY AUTOMATED

Electrical system

- / Streamer LED taillights are developed and used to make the vehicle more ethereal with a strong high-tech impact.
- / The new-generation high-efficiency energy-saving novel combination LED lighting system is energy-saving, while the performance and service life of the lights are significantly improved.
- / In order to improve the protection level, and connectors are all waterproof.



Streamer LED taillights

Intelligent

- / Interactive instruments are provided for the standard configuration, to display the operating status of the vehicle, and realize the information interaction of the vehicle.
- / An intelligent controller can realize the functions of OPS system, and flameout for idle speed time out, and can have other optional functions of speed control, speed limiting for faults, lifting at a high idle speed, automatic fork leveling, etc.



New interactive instruments



Standards

Truck	Transmission	Steering	Power	Body
/ Reinforced wheel rim / Mechanical handbrake / Dynamic load sending control valve	/ Fully-suspended gearbox	/ Wet braking drive axle / Fully hydraulic power steering gear / Open cast steering axle / Steering wheel adjusting device	/ High-efficiency air filter / High-efficiency air intake silencer / Low-position exhaustor / Fan protection device	/ Traction pin / Counterweight grille cover / Lockable hood
Hydraulic	Electrical	Portal	Overhead Guard	Mast
/ Electro-hydraulic steering / Low-noise gear pump / High-pressure hydraulic system / Hydraulic oil recycling filter	/ Multifunctional interactive instruments(EU StageV) / Combination LED lighting system / Integrated combination switch / Main power switch / Soft landing / DPS system	/ Speed limiting valve of the mast	/ PVC ceiling / Fully-suspended overhead guard / Right rear armrest with horn button	/ Full free duplex mast / Different length of fork / Triplex mast / Wider fork carriage / Heightened load backrest / Duplex mast

Options

Truck	Power	Hydraulic	Electrical
/ Cab / Heater / Front windshield and wiper / Customer paint / Solid tire / Fan / Dual air filter / Low-temperature starting battery / LED rear working light / Fully-suspended seat / Fire extinguisher (1kg)	/ High-position exhaustor	/ 5th valve	/ External spark extinguisher / Multi-segment adjustable speed limit / Blue light / Audible and visual alarm
Transmission	Body	Overhead Guard	Control
/ Dual front wheel	/ Rotating handle of water tank lid / Dissipater grille cover / Fuel tank cap with lock / Additional L/R rearview mirrors	/ Perforated overhead guard	/ Fingertip system / Pedal parking brake
Attachments			
/ Paper roll clamp / Rotatable roll clamp / Load stabilizer / Multi-purpose barrel clamp / Weighing system	/ Sideshifter / Rotating fork / Fork sleeve / Crane arm / Special fork	/ Soft package clamp / Oil barrel clamp / Tipping clamp / Hook	/ Carton clamp / Push-pull device / Bucket / String Pole

1.5-1.75t XF2 series mast:(pneumatic)

Type	Model	Max. Fork Height	Overall height										Free lift			Front Overhang		Tilt range		Capacity			
			Lowered	Extended		Without backrest	With backrest	Without backrest		With backrest	1.5t	1.75t	FWD	BWD	load capacity at 500mm								
				1.5t	1.75t			Single tire	Dual tire														
															1.5t	1.75t	1.5t	1.75t					
Wide view mast		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	(°)	(°)	kg	kg	kg	kg				
	X2B15/18M200	2000	1495	2548	2548	2958	155	155	155	405	410	6	6	1500	1750	1500	1750						
	X2B15/18M250	2500	1745	3048	3048	3458	155	155	155	405	410	6	11	1500	1750	1500	1750						
	X2B15/18M270	2700	1845	3248	3248	3658	155	155	155	405	410	6	11	1500	1750	1500	1750						
	X2B15/18M300	3000	1995	3548	3548	3958	155	155	155	405	410	6	11	1500	1750	1500	1750						
	X2B15/18M330	3300	2145	3848	3848	4258	155	155	155	405	410	6	11	1500	1750	1500	1750						
	X2B15/18M350	3500	2245	4048	4048	4458	155	155	155	405	410	6	11	1500	1750	1500	1750						
	X2B15/18M360	3600	2345	4148	4148	4558	155	155	155	405	410	6	11	1500	1750	1500	1750						
	X2B15/18M370	3700	2395	4248	4248	4658	155	155	155	405	410	6	11	1500	1750	1500	1750						
	X2B15/18M400	4000	2595	4548	4548	4958	155	155	155	405	410	6	11	1500	1750	1500	1750						
	X2B15/18M430	4300	2745	4848	4848	5258	155	155	155	405	410	6	6	1500	1750	1500	1750						
	X2B15/18M450	4500	2845	5048	5048	5458	155	155	155	405	410	6	6	1500	1750	1500	1750						
	X2B15/18M470	4700	2945	5248	5248	5658	155	155	155	405	410	6	6	1450	1600	1450	1650						
	X2B15/18M480	4800	2995	5348	5348	5758	155	155	155	405	410	6	6	1350	1600	1450	1650						
	X2B15/18M500	5000	3095	5548	5548	5958	155	155	155	405	410	6	6	1300	1550	1350	1600						
Wide view full free duplex mast	X2B15/18M550	5500	3345	6048	6048	6458	155	155	155	405	410	3	6	/	/	1300	1550						
	X2B15/18M600	6000	3595	6548	6548	6958	155	155	155	405	410	3	6	/	/	1150	1400						
	X2B15/18U200	2000	1510	2574	2684	2945	936	826	565	405	410	6	6	1500	1750	1500	1750						
	X2B15/18U250	2500	1760	3074	3184	3445	1186	1076	815	405	410	6	11	1500	1750	1500	1750						
	X2B15/18U270	2700	1860	3274	3384	3645	1286	1176	915	405	410	6	11	1500	1750	1500	1750						
	X2B15/18U300	3000	2010	3574	3684	3945	1436	1326	1065	405	410	6	11	1500	1750	1500	1750						
	X2B15/18U330	3300	2160	3874	3984	4245	1586	1476	1215	405	410	6	11	1500	1750	1500	1750						
	X2B15/18U350	3500	2260	4074	4184	4445	1686	1576	1315	405	410	6	11	1500	1750	1500	1750						
	X2B15/18U360	3600	2310	4174	4284	4545	1736	1626	1365	405	410	6	11	1500	1750	1500	1750						
	X2B15/18U370	3700	2360	4274	4384	4645	1786	1676	1415	405	410	6	11	1500	1750	1500	1750						
Wide view full free triplex mast	X2B15/18U400	4000	2560	4574	4684	4945	1986	1876	1615	405	410	6	11	1500	1750	1500	1750						
	X2B15/18N400	4000	1945	4584	4584	4955	1371	1371	1000	413	418	6	6	1500	1750	1500	1750						
	X2B15/18N430	4300	2045	4884	4884	5255	1471	1471	1100	413	418	6	6	1500	1750	1500	1750						
	X2B15/18N450	4500	2095	5084	5084	5455	1521	1536	1150	413	418	6	6	1500	1750	1500	1750						
	X2B15/18N470	4700	2195	5284	5284	5655	1621	1596	1250	413	418	6	6	1350	1500	1450	1650						
	X2B15/18N480	4800	2195	5384	5384	5755	1621	1621	1250	413	418	6	6	1300	1500	1450	1650						
	X2B15/18N500	5000	2295	5584	5584	5955	1721	1721	1350	413	418	6	6	1250	1450	1350	1600						
	X2B15/18N550	5500	2445	6084	6084	6455	1871	1871	1500	413	418	3	6	950	1200	1250	1550						
	X2B15/18N600	6000	2645	6584	6584	6955	2071	2071	1700	413	418	3	6	700	850	1150	1400						
	X2B15/18N650	6500	2845	7084	7084	7455	2271	2271	1900	413	418	3	6	/	/	900	950						
X2B15/18N700	7000	3095	7605	7605	7955	2500	2500	2150	413	418	3	6	/	/	550	650							

With sideshifter minus 150kg,with integral sideshifter minus 100kg.

2.0-2.5t XF2 series mast:(pneumatic)

Type	Model	Max. Fork Height	Overall height				Free lift		Front Overhang	Tilt range		Capacity				
			Lowered	Extended		Without backrest	With backrest	Without backrest		With backrest	FWD	BWD	load capacity at 500mm			
				Without backrest	With backrest								Single tire		Dual tire	
													2.0t	2.5t	2.0t	2.5t
Wide view mast	X2B25M200	2000	1515	2642	3046	140	140	462.5	6	6	2000	2500	2000	2500		
	X2B25M250	2500	1765	3142	3546	140	140	462.5	6	11	2000	2500	2000	2500		
	X2B25M270	2700	1865	3342	3746	140	140	462.5	6	11	2000	2500	2000	2500		
	X2B25M300	3000	2015	3642	4046	140	140	462.5	6	11	2000	2500	2000	2500		
	X2B25M330	3300	2165	3942	4346	140	140	462.5	6	11	2000	2500	2000	2500		
	X2B25M350	3500	2265	4142	4546	140	140	462.5	6	11	2000	2500	2000	2500		
	X2B25M370	3700	2415	4342	4746	140	140	462.5	6	11	2000	2500	2000	2500		
	X2B25M400	4000	2615	4642	5046	140	140	462.5	6	11	2000	2500	2000	2500		
	X2B25M430	4300	2765	4942	5346	140	140	462.5	6	6	2000	2500	2000	2500		
	X2B25M450	4500	2865	5142	5546	140	140	462.5	6	6	2000	2500	2000	2500		
	X2B25M470	4700	2965	5342	5746	140	140	462.5	6	6	2000	2500	2000	2500		
	X2B25M480	4800	3015	5442	5846	140	140	462.5	6	6	1900	2200	1950	2450		
	X2B25M500	5000	3115	5642	6046	140	140	462.5	6	6	1850	1900	1900	2400		
	X2B25M550	5500	3365	6142	6546	140	140	462.5	3	6	/	/	1800	2300		
	X2B25M600	6000	3615	6642	7046	140	140	462.5	3	6	/	/	1600	1800		
Wide view full free duplex mast	X2B25U200	2000	1515	2656	3046	860	469	462.5	6	6	2000	2500	2000	2500		
	X2B25U250	2500	1765	3156	3546	1110	719	462.5	6	11	2000	2500	2000	2500		
	X2B25U270	2700	1865	3356	3746	1210	819	462.5	6	11	2000	2500	2000	2500		
	X2B25U300	3000	2015	3656	4046	1360	969	462.5	6	11	2000	2500	2000	2500		
	X2B25U330	3300	2165	3956	4346	1510	1119	462.5	6	11	2000	2500	2000	2500		
	X2B25U350	3500	2265	4156	4546	1610	1219	462.5	6	11	2000	2500	2000	2500		
	X2B25U370	3700	2365	4356	4746	1710	1319	462.5	6	11	2000	2500	2000	2500		
	X2B25U400	4000	2565	4656	5046	1910	1519	462.5	6	11	2000	2500	2000	2500		
	X2B25N400	4000	1930	4656	5046	1275	884	469.5	6	6	2000	2500	2000	2500		
	X2B25N430	4300	2030	4956	5346	1375	984	469.5	6	6	2000	2500	2000	2500		
Wide view full free triplex mast	X2B25N450	4500	2080	5156	5546	1425	1034	469.5	6	6	2000	2500	2000	2500		
	X2B25N470	4700	2180	5356	5746	1525	1134	469.5	6	6	2000	2500	2000	2500		
	X2B25N480	4800	2180	5456	5846	1524	1134	469.5	6	6	1850	2200	1900	2450		
	X2B25N500	5000	2280	5656	6046	1625	1234	469.5	6	6	1750	1900	1850	2400		
	X2B25N550	5500	2430	6156	6546	1775	1384	469.5	3	6	1450	1600	1800	2200		
	X2B25N600	6000	2630	6656	7046	1975	1584	469.5	3	6	1000	1100	1600	1800		
	X2B25N650	6500	2830	7156	7546	2175	1784	469.5	3	6	/	/	1550	1650		
	X2B25N700	7000	3080	7656	8046	2425	2034	469.5	3	6	/	/	1250	1300		