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A2 Series Internal Combustion Forklift

with capacities of 4,000 to 5,000kg

The World of Hangcha



A2 SERIES INTERNAL COMBUSTION FORKLIFT



The A2 series are upgraded products that adopt advanced technology and are independently developed by Hangcha on the basis of the prior products.

Through comprehensive upgrade of the exterior design, efficiency and energy saving, safety, comfort and reliability, and comfort and convenience, the performance of the vehicle has been significantly improved in comparison with the prior products, and the vehicle has become the forklift meeting your different needs.

New exterior design

- / With the inherited exterior design of Hangcha's products, classic but innovative, the vehicle has a smooth, vivid and sturdy profile.
- / With a half enclosed dashboard, the vehicle looks compact and aesthetically pleasing.

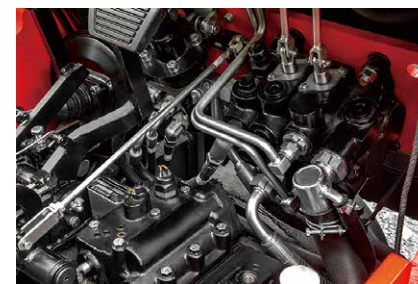
HIGH EFFICIENCY AND ENERGY SAVING

FUEL CONSUMPTION
REDUCED BY

10%



For the standard configuration, a Xinchai single electric pump-equipped diesel engine, which meets China off-road Stage III emission requirements.

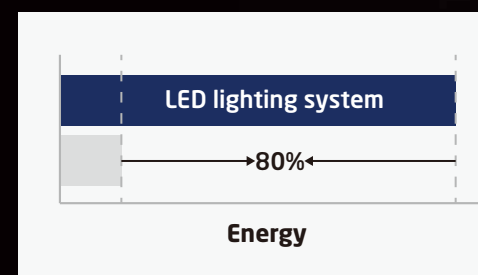


HYDRAULIC SYSTEM SAVES **4%** ENERGY

- / For the standard configuration, load sensing is provided to ensure steering priority and reduce energy loss.
- / Increase the hydraulic pipe diameter and optimize pipe elbows and layout so as to reduce energy loss, lower the hydraulic oil temperature and prolong the service life of hydraulic components.



LED LIGHTING ENERGY SAVING **80%**



The vehicle uses an energy-saving LED lighting system, which significantly improves the performance and service life of the lights.



The integrated lighting combination switch makes operations easier.





Increase the space of the pedals on the car, making it more convenient to get on the car.



The non-slip seat with adjustable padded backrest offers more driving comfort.



For the standard configuration, a less-angled accelerator pedal is provided to reduce the driver's fatigue.

**ACCELERATOR
PEDAL FORCE
REDUCED BY
30%**

COMFORT AND CONVENIENCE

NVH OPTIMIZATION

30% REDUCTION IN VIBRATION

With the shock-absorbing design of multiple items, the idle-speed and high-speed shock absorption rates are improved, and the vehicle has less vibration.

NOISE REDUCTION 2dB

With the optimized independent air intake channel and large-capacity air intake silencer, the vehicle makes less noise.



The newly developed bus instruments more clearly show the information such as the running status of the vehicle, fault detection, maintenance reminders, etc. to the driver, and make maintenance easier.



The panoramic rearview mirror provides a wider rearview field of view, making driving more comfortable.



REPAIR SPACE INCREASED BY 10%

The wider opened hood makes maintenance easier.
The integrated hydraulic lids make maintenance easier.



SAFETY AND RELIABILITY

70%
INCREASE IN
BRAKE LIFE

The comprehensively upgraded braking system has its braking reliability and comfort significantly improved and service life greatly prolonged.

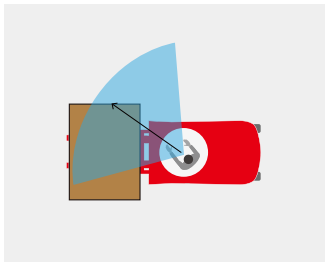
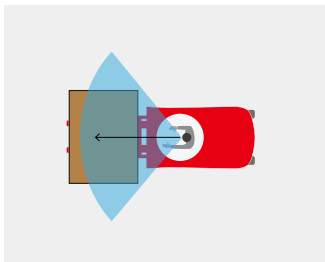
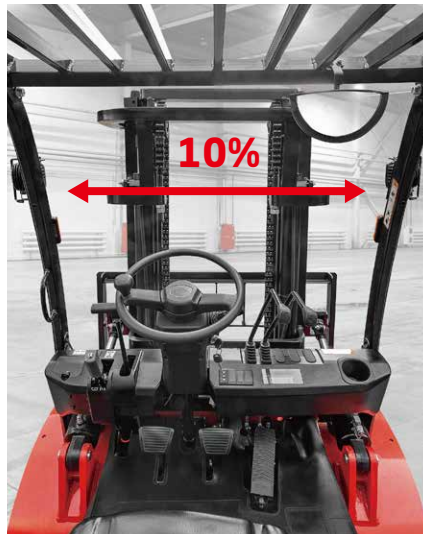
- / With optimized design of layout and center of gravity, the vehicle is more stable.
- / With the vacuum-assisted braking system provided for the standard configuration, less operating force is needed, and braking will not be a hindrance for steering, and vice versa.
- / The hydraulic system uses 24° conical seals to improve the sealing performance.
- / Key parts use waterproof connectors so that the protection level of the electrical system is improved.



By optimizing the heat dissipation system, the counterweight heat dissipation channel is improved, the air resistance of the heat dissipater is reduced, the cooling efficiency is improved, and the reliable operation of the engine is ensured.



A brand new air filter with a safety filter element makes the engine air intake cleaner and more powerful.



MAST VISIBILITY INCREASED BY 10%

With an ultra-wide view mast, upgraded chains and longitudinally-arranged sprockets, the safety coefficient of the mast and the front view through the mast are significantly improved.

The overhead guard uses high-strength profiled steel pipes so that the sealing of the cab (optional) is good.

Standard configuration

- | | | |
|---|--|--|
| / Anti-skid boarding step | / Seat with seat belt and adjustable backrest | / Gearbox dipstick (hydraulic transmission) |
| / Air filter (with safety filter element) | / Two-piece multiway valve | / Tire dedicated for Hangcha |
| / Hydraulic oil dipstick | / Air intake silencer | / Load backrest |
| / Traction device | / Maintenance reminder | / High-position air intake device |
| / Flow control valve | / Oil-water separator | / Hydraulic oil suction filter cartridge |
| / Fully hydraulic power steering | / Electric oil pump | / Self-locking valve in the tilting fuel circuit |
| / Duplex ultra-wide view mast | / Engine failure indicator | / Cable-type stop brake |
| / Standard fork | / Spherical rearview mirror | / Lighting combination switch |
| / Lifting and tilting joystick | / Folder | / 24° conical hydraulic pipe |
| / Steering wheel adjusting device | / Integrated electrical box | / Reversing buzzer |
| / Large rubber pedal pad | / Electric flameout | / Class III (IV) fork carriage |
| / Left boarding handle | / Cup holder | / Engine hour counter |
| / Half enclosed instrument cover | / Front LED operation light | / Load safety valve |
| / Headlight frame | / Front LED lights and rear combination lights | / Lockable gas spring |
| / Oil gauge | / Electric horn | / Charge indicator |
| / Preheating indicator | / Rain cover | / Oil cooler (hydraulic transmission) |
| / Engine oil pressure alarm | / Electronic accelerator pedal | / Vehicle toolkit |
| / Neutral gear safety switch | / Gearbox oil temperature alarm (hydraulic transmission) | / Water temperature meter |
| / Overhead guard made of profiled pipes | | |

Optional devices and accessories

- | | | |
|-----------------------------------|--------------------------------------|--|
| / Tilt cylinder jacket | / Color tire (white/green) | / Alarm light |
| / Double drive wheels | / Mid-position emission device | / Odometer |
| / Cab | / Exhaust fire protection device | / Fully enclosed steel plate of overhead guard |
| / High-position exhauster | / PVC lid | / Rear combination light frame |
| / User specified color | / Lockable hood | / Engine with speed limiting function |
| / Cab heater | / Electronic steering | / Main power switch |
| / Fully-suspended seat | / Auxiliary hydraulic valve assembly | / Fan protection device |
| / Rear tire chamber sealing plate | / Fire extinguisher | / Overspeed alarm |
| / Rear LED operation light | / Rear armrest with a horn button | / Double air filters |
| / Heat dissipater grille | / Counterweight grille | / Fuel tank cap locked |
| / Solid tire | / High and low overhead guards | / Double-layer soundproof pad and leather jacket of hood |

Optional attachments

- | | | |
|------------------------------|--------------------------|-----------------------|
| / Paper roll clamp | / Lengthened fork sleeve | / Boom |
| / Rotatable roll clamp | / Load ejector | / Lengthened fork |
| / Load stabilizer | / Weighing system | / Cardboard box clamp |
| / Multi-purpose barrel clamp | / Soft package clamp | / Pusher |
| / Tie rod | / Oil barrel clamp | / Bucket |
| / Side shift fork | / Tipping fork | / Hook |
| / Rotating fork | | |

Mast's special device

- | | | |
|------------------------------|-------------------------------|---------------------------------|
| / Free duplex wide-view mast | / Free triplex wide-view mast | / Special duplex wide-view mast |
| / Special fork | / Heightened load backrest | / Widened fork carriage |

A2 Series Internal Combustion Forklift Specification

Distinguishing mark	1.1	Manufacturer		HANGCHA GROUP CO.,LTD.		
	1.2	Manufacturer's type designation		CPCD40-A2G53	CPCD45-A2G53	CPCD50-A2XG53
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas		Diesel	Diesel	Diesel
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Seated	Seated	Seated
	1.5	Rated capacity/rated load	Q (kg)	4000	4500	5000
	1.6	Load centre distance	c (mm)	500	500	500
Weight	1.8	Load distance, centre of drive axle to fork	x (mm)	550	550	555
	1.9	Wheelbase	y (mm)	2100	2100	2100
	2.1	Service Weight	kg	5970	6220	6500
Tyres, chassis	2.2	Axle loading, laden front/rear	kg	8640/1330	9450/1270	10330/1170
	2.3	Axle loading, unladen front/rear	kg	2670/3300	2720/3500	2800/3700
	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		Pneumatic	Pneumatic	Pneumatic
Dimensions	3.2	Tyre size, front		8.25-15-14PR	300-15-18RP	300-15-18RP
	3.3	Tyre size, rear		7.00-12-12PR	7.00-12-12PR	7.00-12-12PR
	3.5	Wheels, number front / rear (x = driven wheels)		2×/2	2×/2	2×/2
	3.6	Tread, front	b10 (mm)	1160	1190	1190
	3.7	Tread, rear	b11 (mm)	1130	1130	1130
	4.1	Tilt of mast/fork carriage forward/backward	α/β(°)	6/12	6/12	6/12
Performance data	4.2	Height, mast lowered	h1 (mm)	2245	2245	2245
	4.3	Free lift	h2 (mm)	160	160	160
	4.4	Lift	h3 (mm)	3000	3000	3000
	4.5	Height, mast extended	h4 (mm)	4170	4170	4365
	4.7	Height of overhead guard (cabin)	h6 (mm)	2250	2250	2250
	4.8	Seat height relating to SIP	h7 (mm)	1302	1302	1302
	4.12	Coupling height	h10 (mm)	520	520	520
	4.19	Overall length	l1 (mm)	4260	4280	4285
	4.20	Length to face of forks	l2 (mm)	3190	3210	3215
	4.21	Overall width	b1(mm)	1420	1490	1490
	4.22	Fork dimensions	s/e/l (mm)	50×122×1070	50×150×1070	50×150×1070
	4.23	Fork carriage DIN 15 173 --- ISO 2328, class/type A,B		3/A	3/A	4/A
	4.24	Fork-carriage width	b3 (mm)	1350	1350	1350
	4.25	Distance between fork-arms	bs (mm)	300-1250	300-1250	300-1250
	4.31	Ground clearance, laden, below mast	m1 (mm)	170	170	170
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	230	230	230
	4.34.1	Aisle width for pallets 1000 x 1200 crossways	As1 (mm)	4530	4570	4575
	4.34.2	Aisle width for pallets 800 x 1200 lengthways	As1 (mm)	4730	4770	4775
Combustion-engine	4.35	Turning radius	Wa (mm)	2780	2820	2820
	4.36	Minimum pivoting point distance	b13 (mm)	863	863	863
	5.1	Travel speed, laden/unladen	km/h	24/25	24/25	24/25
	5.2	Lift speed, laden/unladen	m/s	0.55/0.58	0.55/0.58	0.48/0.51
	5.3	Lowering speed, laden/unladen	m/s	0.44/0.46	0.44/0.46	0.44/0.46
	5.5	Drawbar pull, laden/unladen	N	39100/20000	39100/20000	39100/20000
Addition data	5.7	Gradeability, laden/unladen	%	25/25	23/24	20/23
	5.10	Service brake		Hydraulic	Hydraulic	Hydraulic
		Parking brake		Mechanical	Mechanical	Mechanical
	7.1	Engine manufacturer/type		Xinchai4D35ZG31-003	Xinchai4D35ZG31-003	Xinchai4D35ZG31-003
	7.2	Engine power	kW	60	60	60
	7.3	Rated speed	r/min	2200	2200	2200
	7.4	Number of cylinders/displacement	(-)/(cm³)	4/3470	4/3470	4/3470
	7.9	Vehicle electrical system voltage	V	24	24	24
	7.10	Battery voltage/nominal capacity	V/Ah	2-12/60	2-12/60	2-12/60
		Rated torque	N·m/r/min	300/1600~1800	300/1600~1800	300/1600~1800
		Transmissions Manufacturer		China	China	China
		Transmissions Type		Powershift	Powershift	Powershift
		Stage FWD/RVS		2/1	2/1	2/1
	10.1	Operating pressure for attachments	Mpa	18	18	18
	10.3	Hydraulic Tank - capacity (drain & refill)	liter	80	80	80
	10.4	Fuel tank capacity	liter	90	90	90

4.0-5.0t Mast Specification:(Pneumatic)

Type	Model	Max. fork height	Overall height						Free lift height						Tilt range	Capacity					
			Lowered	Extended				Without backrest		With backrest		Front Overhang		Fwd/Rwd		Load Capacity at 500mm					
				Without backrest		With backrest										Single Tire			Double tire		
				4.0t/4.5t	5.0t	4.0t/4.5t	5.0t									4.0t/4.5t	5.0t	4.0t/4.5t	5.0t	4.0t	4.5t
		mm	mm	mm		mm		mm		mm		mm		(°)	kg	kg	kg	kg	kg	kg	
Wide view Duplex mast	A2A45/A2X50M245	2450	1970	3260	3310	3620	3830	160	165	160	165	550	555	6/12	4000	4500	5000	4000	4500	5000	
	A2A45/A2X50M265	2650	2070	3460	3510	3820	4030	160	165	160	165	550	555	6/12	4000	4500	5000	4000	4500	5000	
	A2A45/A2X50M300	3000	2245	3810	3860	4170	4380	160	165	160	165	550	555	6/12	4000	4500	5000	4000	4500	5000	
	A2A45/A2X50M330	3300	2420	4110	4160	4470	4680	160	165	160	165	550	555	6/12	4000	4500	5000	4000	4500	5000	
	A2A45/A2X50M350	3500	2520	4310	4360	4670	4880	160	165	160	165	550	555	6/12	4000	4500	5000	4000	4500	5000	
	A2A45/A2X50M360	3600	2570	4410	4460	4770	4980	160	165	160	165	550	555	6/12	4000	4500	5000	4000	4500	5000	
	A2A45/A2X50M370	3700	2620	4510	4560	4870	5080	160	165	160	165	550	555	6/12	4000	4500	5000	4000	4500	5000	
	A2A45/A2X50M400	4000	2845	4810	4860	5170	5380	160	165	160	165	550	555	6/12	4000	4500	5000	4000	4500	5000	
	A2A45/A2X50M430	4300	2995	5110	5160	5470	5680	160	165	160	165	550	555	6/6	3800	4300	4700	4000	4500	5000	
	A2A45/A2X50M450	4500	3095	5310	5360	5670	5880	160	165	160	165	550	555	6/6	3700	4200	4500	3900	4400	4900	
	A2A45/A2X50M470	4700	3195	5510	5560	5870	6080	160	165	160	165	550	555	6/6	3500	4000	4300	3700	4200	4600	
	A2A45/A2X50M480	4800	3320	5670	5670	5970	6180	160	165	160	165	550	555	6/6	3500	4000	4300	3700	4200	4600	
	A2A45/A2X50M500	5000	3420	5870	5870	6170	6380	160	165	160	165	550	555	6/6	3200	3600	4000	3400	3900	4200	
	A2A45/A2X50M550	5500	3670	6370	6370	6670	6880	160	165	160	165	550	555	3/6	2900	3200	3500	3100	3500	3800	
A2A45/A2X50M600	6000	3920	6870	6870	7170	7380	160	165	160	165	550	555	3/6	2500	2700	3000	2800	2900	3300		
Free duplex wide-view mast	A2A45/A2X50U245	2450	1975	3245	3285	3620	3830	1155	1115	855	655	557	562	6/12	4000	4500	5000	4000	4500	5000	
	A2A45/A2X50U265	2650	2075	3475	3515	3820	4030	1255	1215	955	755	557	562	6/12	4000	4500	5000	4000	4500	5000	
	A2A45/A2X50U300	3000	2250	3820	3860	4170	4380	1430	1390	1130	930	557	562	6/12	4000	4500	5000	4000	4500	5000	
	A2A45/A2X50U330	3300	2400	4120	4160	4470	4680	1580	1540	1280	1080	557	562	6/12	4000	4500	5000	4000	4500	5000	
	A2A45/A2X50U350	3500	2500	4320	4360	4670	4880	1680	1640	1380	1180	557	562	6/12	4000	4500	5000	4000	4500	5000	
	A2A45/A2X50U370	3700	2600	4520	4560	4870	5080	1780	1740	1480	1280	557	562	6/12	4000	4500	5000	4000	4500	5000	
	A2A45/A2X50U400	4000	2825	4825	4860	5170	5380	2005	1965	1705	1505	557	562	6/12	4000	4500	5000	4000	4500	5000	
Free triplex wide-view mast	A2A45/A2X50N365	3650	1975	4470	4510	4820	5030	1155	1115	855	655	602	607	6/12	4000	4500	5000	4000	4500	5000	
	A2A45/A2X50N400	4000	2075	4800	4840	5170	5380	1255	1215	955	755	602	607	6/12	4000	4500	5000	4000	4500	5000	
	A2A45/A2X50N430	4300	2180	5110	5150	5470	5680	1360	1320	1060	860	602	607	6/6	3600	4100	4400	3800	4300	4700	
	A2A45/A2X50N450	4500	2250	5320	5360	5670	5880	1430	1390	1130	930	602	607	6/6	3400	4000	4300	3500	4200	4600	
	A2A45/A2X50N470	4700	2315	5520	5560	5870	6080	1495	1455	1195	995	602	607	6/6	3300	3800	4100	3400	4000	4300	
	A2A45/A2X50N480	4800	2400	5700	5700	5970	6180	1580	1540	1280	1080	602	607	6/6	3300	3800	4100	3400	4000	4300	
	A2A45/A2X50N500	5000	2450	5920	5960	6170	6380	1630	1590	1330	1130	602	607	6/6	3100	3500	3800	3200	3700	4000	
	A2A45/A2X50N550	5500	2600	6320	6360	6670	6880	1780	1740	1480	1280	602	607	3/6	2800	3100	3500	3000	3400	3600	
	A2A45/A2X50N600	6000	2825	6825	6860	7170	7380	2005	1965	1705	1505	602	607	3/6	2400	2600	2900	2600	2800	3200	
	A2A45/A2X50N650	6500	3075	7375	7375	7670	7880	2255	2215	1955	1755	602	607	3/6	1150	1350	2000	2400	2500	2650	
A2A45/A2X50N700	7000	3300	8000	8000	8170	8380	2480	2440	2180	1980	602	607	3/6	550	750	1500	2000	2200	2350		

With sideshifter minus 100kg, with integrated sideshifter minus 200kg.
Lift height 7.5m/8.0m is optional for front dual tyres.

