



A Series Diesel Counterbalanced Trucks

with capacities of 4,000 to 5,000kg



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ISO45001
ISO45001:2018



ISO14001
ISO14001:2015



ISO9001
ISO9001:2015



HANGCHA trucks conform
to the European Safety
Requirements.

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The World of Hangcha





Simple/
Solid/
Smart

Appearance

- / With the newest appearance design method, the whole forklift has smooth profile lines, presents the dynamic effect, and meets the newest appearance design fashion.
- / The whole forklift has concise appearance. The exposed parts are made of metal and are solid and reliable.

Safety

- / With the long axle base design, the whole forklift has better longitudinal stability. At the same lifting height, compared with the original forklifts, the lifting capacity is improved by great degree. Meanwhile, the rear axle load is reduced, and the life of the steering tyres is extended.
- / The rear leg of the overhead guard is thicker, the safety performance of the overhead guard is improved to ensure safety of the operator.
- / The bonnet of the standard forklift is provided with the safety latch catch to guarantee the safety of the operator.

Comfortability

- / With the man-machine engineering technology same to that for R series, the space for legs and boarding is larger, the operating vision is extended. The operating comfortability is greatly improved, and the fatigue strength of the operator is reduced.
- / With the integrated plug structure, the front bottom plate can be opened without tools. The convenience for routine maintenance and repair is greatly improved.
- / With the integrated engine bonnet, the bonnet rigidity is strengthened, and the noise is reduced.
- / With the stepping instruments, the display is clear and accurate.
- / With the electric integration box of entirely-new design, different electric elements and fuse are integrated, the repair convenience is greatly improved.

Reliability

- / The air admission tube of the engine uses the high-position and independent passage to effectively prevent dust inhalation.
- / With the thicker rear leg of the overhead guard, the engine air admission quantity is increased, the air admission resistance is reduced. The engine can conduct more sufficient combustion, and the engine life is extended.
- / With the large-capacity aluminum tube ribbon type radiator and the optimized heat radiation passage, the heat radiation capacity of the whole forklift is further improved to ensure reliable operation of the engine.





Standard Configuration

- / Off-boarding protection pedal
- / Air strainer
- / Hydraulic oil staff rod
- / Traction device
- / Lifting oil circuit speed limiting valve
- / Fully-hydraulic power steering
- / Two-stage super-wide vision portal
- / Standard fork
- / Operating lever for lifting and inclining
- / Oil-water separator
- / Fuel quantity meter
- / Preheat prompt
- / Engine oil pressure alarm
- / Neutral position safety switch
- / Standard overhead rack
- / Gear box oil scale (hydraulic transmission)
- / High-performance tyre
- / Standard goods sheltering rack
- / High-position air admission device
- / Electric oil supply pump
- / Overhead head light
- / Reversing buzzer
- / Class III (IV) fork rack
- / Time meter
- / Load safety valve
- / Engine bonnet air spring
- / LED head small light and rear combined light
- / Charging prompt
- / Oil cooler (hydraulic transmission)
- / Engine failure prompt
- / Large rubber pedal cushion
- / Boarding handle
- / Overhead rain hood
- / Rear vision mirror
- / Folder
- / Inclining oil circuit self-locking valve
- / Guy cable type parking and braking
- / Headlamp
- / Electric horn
- / Hydraulic oil suction filter element
- / Steering wheel adjustable device
- / Integrated electric element box
- / Water temperature meter
- / Standard seat
- / Two-piece multiple-way valve
- / Tea cup holder
- / Electric burnout

Optional Configuration and Accessory

- / Sheath for inclining cylinder
- / Double driving wheels
- / Driver's cab
- / High-position air exhaust device
- / Colors specified by the user
- / Warm air blower for the driver's cab
- / Rear working light
- / LED working lamp
- / Weighing system
- / Heat radiator guard
- / Solid tyre
- / Colored tyre (white/green)
- / Middle-position air exhaust device
- / Air exhaust fire-proofing device
- / Suspension seat
- / Exhausted air purification device
- / Cloth driver's cab
- / Auxiliary hydraulic valve subassembly
- / Extinguisher
- / Copper water tank
- / Rear rail with horn button
- / Counterweight guard
- / High/low overhead guard
- / Fuel tank cover provided with lock
- / Mileage meter
- / Protection frames for head lamp and back lamp
- / LED headlamp
- / Master power switch
- / Fan protection device
- / Speed limiting alarm
- / Double air filters
- / Alarm light
- / Speed meter

Special Device for Portal

- / Two-stage wide vision and free portal
- / Two/three-stage wide vision and free portal
- / Special two-stage wide vision portal
- / Widened fork rack
- / Special fork

Optional Fittings

- / Paper roll clamp
- / Rotating and flat holding clamp
- / Load stabilizer
- / Multi-purpose barrel clamp
- / Weighing system
- / Lateral shift fork
- / Rotating fork
- / Bucket
- / Lifting hook
- / Bale clamp
- / Oil barrel clamp
- / Inclined overturning clamp
- / Jib boom
- / Sheath for extended fork
- / Load pusher
- / Carton clamp
- / Extended fork
- / Vehicle tool box



A series 4.0-5.0t forklift specification

		HANGCHA GROUP CO.,LTD.				
Distinguishing mark	1.1 Manufacturer					
	1.2 Manufacturer's type designation	CPCD40-AG53	CPCD45-AG53	CPCD50-AXG53		
	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	4000	4500	5000		
	1.6 Load centre distance	Q (kg)	500	500	500	
	1.8 Load distance, centre of drive axle to fork	x (mm)	550	550	555	
	1.9 Wheelbase	y (mm)	2100	2100	2100	
	Weight	2.1 Service Weight	kg	5970	6220	6500
2.2 Axle loading, laden front/rear		kg	8675/1295	9300/1420	10350/1150	
2.3 Axle loading, unladen front/rear		kg	2570/3400	2590/3630	2825/3675	
Tyres, chassis	3.1 Tyres: solid rubber, superelastic, pneumatic, polyurethane		Pneumatic	Pneumatic	Pneumatic	
	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	
	Dimensions	4.1 Tilt of mast/fork carriage forward/backward	α / β (°)	6/12	6/12	6/12
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		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)	1395	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 AB			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)	150	150	150	
4.32 Ground clearance, centre of wheelbase		m2 (mm)	230	230	230	
4.34.1 Aisle width for pallets 1000 x 1200 crossways		Ast (mm)	4530	4570	4575	
4.34.2 Aisle width for pallets 800 x 1200 lengthways	Ast (mm)	4730	4770	4775		
4.35 Turning radius	Wa (mm)	2780	2820	2820		
4.36 Minimum pivoting point distance	b13 (mm)	863	863	863		
Performance Data	5.1 Travel speed, laden/unladen	km/h	24/25	24/25	24/25	
	5.2 Lift speed, laden/unladen	m/s	0.43/0.50	0.43/0.50	0.38/0.44	
	5.3 Lowering speed, laden/unladen	m/s	0.46/0.50	0.46/0.50	0.46/0.50	
	5.5 Drawbar pull, laden/unladen	N	39100/20000	39100/20000	39100/20000	
	5.7 Gradeability, laden/unladen	%	25/20	23/20	20/20	
	5.10 Service brake		Hydraulic	Hydraulic	Hydraulic	
	Parking brake		Mechanical	Mechanical		
Combustion-engine	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	(-)/(cm ³)	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	Nm/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	
Addition data	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 A series mast:(Pneumatic)

Type	Model	Max. fork height	Overall height						Free lift				Front Overhang		Tilt range	Capacity					
			Lowered	Extended		With backrest		Without backrest		With backrest		4/4.5t	5t	load capacity at 500mm							
				4/4.5t	5t	4/4.5t	5t	4/4.5t	5t	4/4.5t	5t			4t		4.5t	5t				
Wide view mast	A45/AX50M250	2500	1995	3330	3330	3670	3865	160	160	160	160	550	555	6/12	4000	4500	5000	4000	4500	5000	
	A45/AX50M270	2700	2095	3530	3530	3870	4065	160	160	160	160	550	555	6/12	4000	4500	5000	4000	4500	5000	
	A45/AX50M300	3000	2245	3830	3830	4170	4365	160	160	160	160	550	555	6/12	4000	4500	5000	4000	4500	5000	
	A45/AX50M330	3300	2395	4130	4130	4470	4665	160	160	160	160	550	555	6/12	4000	4500	5000	4000	4500	5000	
	A45/AX50M350	3500	2495	4330	4330	4670	4865	160	160	160	160	550	555	6/12	4000	4500	5000	4000	4500	5000	
	A45/AX50M360	3600	2545	4430	4430	4770	4965	160	160	160	160	550	555	6/12	4000	4500	5000	4000	4500	5000	
	A45/AX50M400	4000	2795	4830	4830	5170	5365	160	160	160	160	550	555	6/12	3800	4250	4750	4000	4500	5000	
	A45/AX50M430	4300	2960	5130	5130	5470	5665	160	160	160	160	550	555	6/6	3600	4000	4500	3800	4250	4750	
	A45/AX50M450	4500	3070	5330	5330	5670	5865	160	160	160	160	550	555	6/6	3400	3800	4250	3600	4050	4500	
	A45/AX50M470	4700	3180	5530	5530	5870	6065	160	160	160	160	550	555	6/6	3000	3350	3750	3200	3600	4000	
Wide view full free duplex mast	A45/AX50M500	5000	3345	5830	5830	6170	6365	160	160	160	160	550	555	6/6	2800	3150	3500	3000	3400	3750	
	A45/AX50U250	2500	1976	3365	3365	3670	3865	1114	1114	809	610	557	562	6/12	4000	4500	5000	4000	4500	5000	
	A45/AX50U275	2750	2100	3615	3615	3920	4115	1238	1238	933	735	557	562	6/12	4000	4500	5000	4000	4500	5000	
	A45/AX50U300	3000	2226	3865	3865	4170	4365	1364	1364	1055	860	557	562	6/12	4000	4500	5000	4000	4500	5000	
	A45/AX50U330	3300	2376	4165	4165	4470	4665	1514	1514	1205	1010	557	562	6/12	4000	4500	5000	4000	4500	5000	
Wide view full free triplex mast	A45/AX50N400	4000	2080	4850	4860	5170	5365	1229	1222	912	715	603	615	6/12	3600	4000	4500	3800	4250	4750	
	A45/AX50N430	4300	2180	5155	5160	5470	5665	1329	1322	1012	815	603	615	6/6	3400	3800	4250	3600	4050	4500	
	A45/AX50N450	4500	2248	5365	5370	5685	5880	1395	1390	1080	883	603	615	6/6	3200	3600	4000	3400	3850	4250	
	A45/AX50N470	4700	2310	5550	5560	5870	6070	1459	1452	1142	945	603	615	6/6	3000	3350	3750	3200	3600	4000	
	A45/AX50N480	4800	2340	5650	5660	5970	6170	1489	1482	1172	975	603	615	6/6	2800	3150	3500	3000	3400	3750	
	A45/AX50N500	5000	2410	5855	5860	6170	6370	1559	1552	1242	1045	603	615	6/6	2800	3150	3500	3000	3400	3750	
	A45/AX50N550	5500	2575	6355	6360	6670	6870	1724	1718	1408	1210	603	615	3/6	2250	2550	2850	2800	3100	3350	
	A45/AX50N600	6000	2790	6865	6870	7180	7380	1939	1932	1622	1425	603	615	3/6	1700	1950	2200	2600	2800	2950	
	A45/AX50N650	6500	2980	7365	7370	7680	7880	2129	2123	1812	1615	603	615	3/6	/	/	/	2400	2500	2650	
	A45/AX50N700	7000	3155	7860	7865	8175	8375	2304	2298	1988	1790	603	615	3/6	/	/	/	2000	2200	2350	

With sideshifter minus 200kg, with integral sideshifter minus 100kg.
Max.fork height 7.5m or 8.0m is option for full free triplex mast.

