



**HANGCHA GROUP CO., LTD.**

**Factory site:** 666 Xiangfu Road,  
Hangzhou, Zhejiang, China (311305)

Tel: +86-571-88926735 88926755  
Fax: +86-571-88926789 88132890

sales@hcforklift.com  
www.hcforklift.com



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ISO45001:2018



ISO14001:2015



ISO9001:2015



HANGCHA trucks conform  
to the European Safety  
Requirements.

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## A Series Internal Combustion Forklift

with capacities of 8,000 to 10,000kg

*The World of Hangcha*



# A Series Internal Combustion Forklift

The A series is a novel series of internal combustion counterweight forklifts, which is independently developed by Hangcha by learning Japanese Nissan's technologies and on the basis of the prior products. Through comprehensive optimization of the exterior design, safety, comfort and reliability, the performance of the vehicle has been greatly improved in comparison with the prior products.



## Appearance

- / With a new exterior design method used, the vehicle has a smooth vivid profile following the up-to-date exterior design trend.
- / The vehicle is compact in appearance, and the exposed parts are robust and reliable metal parts.



The new wide-view mast enables an excellent view and faster and safer operations

## Safety

- / The center of gravity of the vehicle moves backward to enable the higher longitudinal stability and high-position operation stability of the vehicle.
- / The standard vehicle is equipped with a safety lock on the hood to ensure the safety of the operator.



A drum brake is used, which is safer, more reliable, and easy to maintain

## Comfortable

- / Advanced ergonomic technology, an integral engine hood, a steering wheel of a smaller size and an enlarged space for the pedaling foot are used to significantly improve the operation comfort and reduce the operator's fatigue.
- / The A series uses an integral engine hood and water tank lid to increase the rigidity of the hood, improve the enclosure of the vehicle, and reduce noise.



The engine's air intake pipe is provided as an independent channel in a high position to effectively prevent dust from being sucked in

## Reliable

- / The engine's air intake pipe is provided as an independent channel in a high position to effectively prevent dust from being sucked in.
- / The large-capacity aluminum plate-fin heat dissipaters are used as the hydraulic oil, transmission oil, engine coolant heat dissipaters, and the intercooler. These dissipate heat well.
- / The novel designed hyperbolic main gear drive axle has low noise and higher reliability.
- / An enhanced YQX100 gearbox with gears shifted mechanically and an optimized transmission ratio is used to increase vehicle speed. A mechanical gear shifting mechanism is used to enable clearer and more reliable gear shifting.
- / The front lights and tail lights are LED lights, which are energy-saving and environmentally friendly and have a long service life.



A new engine meeting the China Stage III emission standards is used, which is energy-saving and environmentally friendly and has stable performance and strong power



Enlarged heat dissipation channels and double-channel vents are used to ensure normal water and oil temperature. An independent hydraulic oil heat dissipater is provided, which meets the requirements of harsh operating conditions

## Standard Specification

- / Standard seat
- / Standard fork
- / Standard fork carriage
- / Fork screw pitch adjustment
- / Standard overhead guard
- / Rainproof overhead guard cover
- / Duplex wide-view mast
- / Traction device
- / Neutral gear safety switch
- / Mid-position emission device
- / High-position air intake device
- / Hydraulic reversing
- / Fully hydraulic power steering
- / Power brakes
- / Charge indicator
- / Hydraulic oil cooler
- / Oil-water separator indicator
- / Steering wheel adjusting device
- / Cable-type stop brake
- / Engine start-up and flameout
- / Anti-skid boarding step
- / Boarding handle
- / Large rubber pedal pad
- / Air filter
- / Rearview mirror
- / Engine hood gas spring
- / Hydraulic oil dipstick
- / Self-locking valve in the tilting fuel circuit
- / Enhanced gearbox
- / Speed limit valve in the lifting fuel circuit

## Options

- / Cab
- / Cab heater
- / Cab air conditioner
- / Solid tire
- / Clean tire (white/green)
- / User specified color
- / Suspended safety seat
- / High-position emission device
- / Automatic gear shifting system
- / High and low overhead guards
- / Tilt cylinder jacket
- / Fuel tank cap locked
- / Double air filters
- / Counterweight grille

- / Heat dissipater grille
- / Engine fan shroud
- / Electro-hydraulic steering
- / Exhaust fire protection device
- / Exhaust purifier
- / Alarm light
- / Fire extinguisher
- / Rear operation lights
- / Rear armrest with a horn button
- / Speed limit alarm device
- / Hydraulic prong adjustment
- / Main power switch
- / Wet braking
- / Vehicle toolkit

## Optional attachments

- / Side shift fork
- / Independently-adjustable fork
- / Side shift adjustable fork
- / Paper roll clamp
- / Rotator
- / Steel pipe tipping fork
- / Load stabilizer
- / Boom
- / Tie rod

- / Fork sleeve
- / Tire clamp
- / Soft package clamp
- / Bucket
- / Tipping fork
- / Brick clamp



## Optional Mast

- / Free duplex wide-view mast
- / Free triplex wide-view mast
- / Special duplex wide-view mast
- / Widened fork carriage
- / Special fork



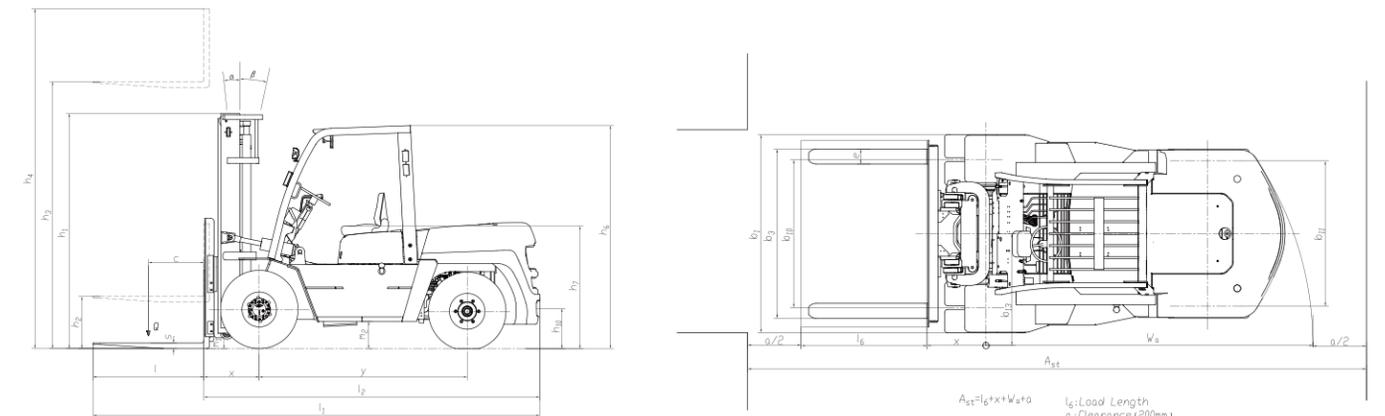
## A Series Internal Combustion Forklift Specification

Distinguishing mark	HANGCHA GROUP CO.,LTD.				
	1.1	Manufacturer			
1.2	Manufacturer's type designation	CPCD80-AG17	CPCD100-AG17		
1.3	Drive	Diesel	Diesel		
1.4	Operator type	Seated	Seated		
1.5	Load capacity/rated load	Q (kg)	8000	10000	
1.6	Load centre distance	c(mm)	600	600	
1.8	Load distance, centre of drive axle to fork	x(mm)	713.8	725.8	
1.9	Wheelbase	y(mm)	2500	2800	
Weight	2.1	Service weight	kg	11300	12800
	2.2	Axle loading, laden front/rear	kg	17330/1970	20620/2180
	2.3	Axle loading, unladen front/rear	kg	5170/6130	5840/6960
Tyres, chassis	3.1	Tyres	Pneumatic	Pneumatic	
	3.2	Tyre size, front	9.0-20-14PR	9.0-20-14PR	
	3.3	Tyre size, rear	9.0-20-14PR	9.0-20-14PR	
	3.5	Wheels, number front rear (x = driven wheels)	4x/2	4x/2	
	3.6	Tread, front	b <sub>10</sub> (mm)	1628	1628
	3.7	Tread, rear	b <sub>11</sub> (mm)	1700	1700
	4.1	Tilt of mast/fork carriage forward/backward	$\alpha/\beta(^{\circ})$	6/12	6/12
Dimensions	4.2	Height, mast lowered	h <sub>1</sub> (mm)	2700	2850
	4.3	Free lift	h <sub>2</sub> (mm)	200	200
	4.4	Lift height	h <sub>3</sub> (mm)	3000	3000
	4.5	Height, mast extended	h <sub>4</sub> (mm)	4210	4555
	4.7	Height of overhead guard	h <sub>6</sub> (mm)	2560	2560
	4.8	Seat height	h <sub>7</sub> (mm)	1440	1440
	4.12	Coupling height	h <sub>10</sub> (mm)	500	500
	4.19	Overall length	l <sub>1</sub> (mm)	5429	5756
	4.20	Length to face of forks	l <sub>2</sub> (mm)	3929	4256
	4.21	Overall width	b <sub>1</sub> (mm)	2197	2197
	4.22	Fork dimensions	s/e/l (mm)	75×160×1500	80×160×1500
	4.23	Fork carriage DIN 15 173, class/type A, B		/	/
	4.24	Fork-carriage width	b <sub>3</sub> (mm)	2000	2000
	4.31	Ground clearance, laden, below mast	m <sub>1</sub> (mm)	260	260
	4.32	Ground clearance, centre of wheelbase	m <sub>2</sub> (mm)	345	345
	4.33	Aisle width for pallets 1000 x 1200 crossways	A <sub>st</sub> (mm)	5744	5936
	4.34	Aisle width for pallets 800 x 1200 lengthways	A <sub>st</sub> (mm)	5944	6136
	4.35	Turning radius	W <sub>0</sub> (mm)	3830	4010
	4.36	Internal turning radius	b <sub>13</sub> (mm)	1325	1395
Performance data	5.1	Travel speed, laden/unladen	km/h	28/31	28/31
	5.2	Lift speed, laden/unladen	m/s	0.390/0.420	0.330/0.350
	5.3	Lowering speed, laden/unladen	m/s	0.460/0.400	0.460/0.400
	5.5	Drawbar pull, laden/unladen	N	75000/45000	75000/50000
	5.7	Gradeability, laden/unladen	%	23/20	23/20
	5.10	Service brake		Hydraulic	Hydraulic
	Parking brake		Mechanical	Mechanical	
Combustion-engine	7.1	Engine manufacturer/type	YUCHAI/YC6B125-T20		
		Emission standard	GB II	GB II	
	7.2	Engine power acc.to ISO 1585	kw	92	92
	7.3	Rated speed	r/min	2200	2200
	7.4	No. of cylinders/displacement	(-)/(cm <sup>3</sup> )	6/6871	6/6871
	7.9	Vehicle electrical system voltage	V	24	24
	7.10	Battery voltage/nominal capacity	V/Ah	2-12/90	2-12/90
		Rated torque	N·m/r/min	463/1600	463/1600
		Transmissions Manufacturer	China	China	
		Transmissions Type	Powershift	Powershift	
	Stage FWD/RVS	2/2	2/2		
Addition data	8.2	Operating pressure for attachments	bar	195	195
	8.5	Towing coupling,type DIN	Pin	Pin	Pin

## Mast Specification:(Pneumatic)

Type	Model	Max. fork height	Extended height			Free lift height		Front Overhang	Tilt range	Capacity	
			Lowered	Extended		Without backrest	With backrest			Load Capacity at 600mm	
				Without backrest	With backrest					8t	10t
		mm	mm	mm	mm	mm	mm	( $^{\circ}$ )	kg	kg	
Wide view Duplex mast	A80/100M250	2500	2450/2600	3710/4055	/	200	/	714/726	6/12	8000	10000
	A80/100M270	2700	2550/2700	3910/4255	/	200	/	714/726	6/12	8000	10000
	A80/100M300	3000	2700/2850	4210/4555	/	200	/	714/726	6/12	8000	10000
	A80/100M330	3300	2850/3000	4510/4855	/	200	/	714/726	6/12	8000	10000
	A80/100M360	3600	3000/3150	4810/5155	/	200	/	714/726	6/12	8000	10000
	A80/100M400	4000	3200/3350	5210/5555	/	200	/	714/726	6/12	8000	10000
	A80/100M430	4300	3400/3550	5510/5855	/	200	/	714/726	6/6	8000	10000
	A80/100M450	4500	3500/3650	5710/6055	/	200	/	714/726	6/6	8000	10000
	A80/100M480	4800	3650/3800	6010/6355	/	200	/	714/726	6/6	8000	10000
	A80/100M500	5000	3750/3900	6210/6555	/	200	/	714/726	6/6	8000	10000
Free duplex wide-view mast	A80/100U250	2500	2450/2600	3705/4045	/	1245/1055	/	719/744	6/12	8000	10000
	A80/100N450	4500	2750/2850	5775/6055	/	1485/1305	/	759/794	6/6	7000	8000
Free triplex wide-view mast	A80/100N480	4800	2850/2950	6075/6355	/	1585/1405	/	759/794	6/6	7000	7800
	A80/100N500	5000	2950/3050	6360/6555	/	1600/1505	/	759/794	6/6	7000	7500
	A80/100N550	5500	3100/3200	6810/7055	/	1800/1655	/	759/794	3/6	6500	7000
	A80/100N600	6000	3250/3350	7275/7555	/	1985/1805	/	759/794	3/6	6000	6000
	A80/100N700	7000	3700/3800	8310/8555	/	2400/2255	/	759/794	3/6	4500	4500

With sideshifter minus 500kg, with integrated sideshifter minus 400kg.



Lifting capacity (kg)

