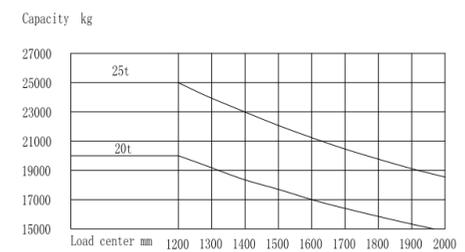
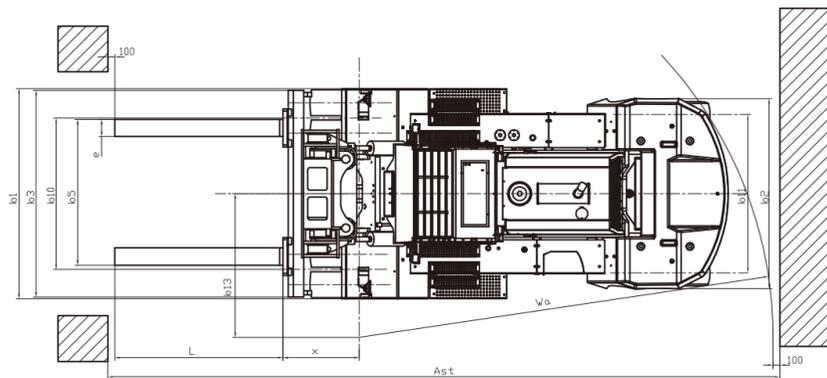
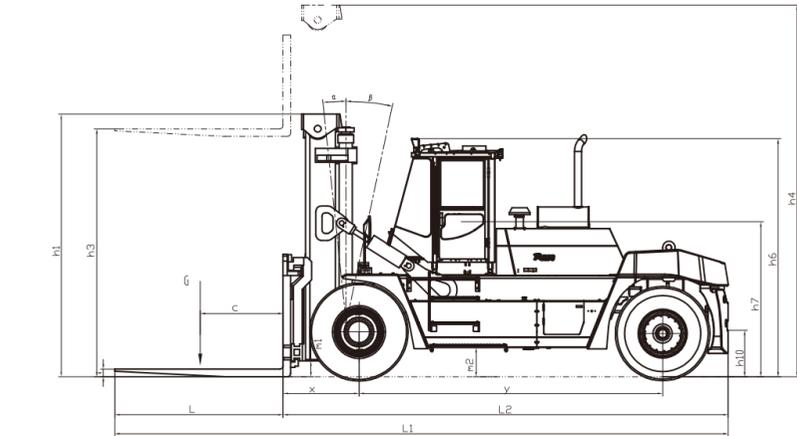


## 20-25t Forklift Mast Specification

Type	Max. fork height		Overall height				Tilt range		Load capacity	
			Lowered		Extended		FWD/RWD		L.C.@1200mm	
	mm	mm	mm	mm	mm	mm	(°)	(°)	kg	kg
Wide view mast	20t	25t	20t	25t	20t	25t	20t	25t	20t	25t
	3300	3300	3650	3650	5290	5290	6/10	6/10	20000	25000
	3600	3600	3800	3800	5590	5590	6/10	6/10	20000	25000
	4000	4000	4000	4000	5990	5990	6/10	6/10	20000	25000
	4300	4300	4150	4150	6290	6290	6/10	6/10	20000	25000
	4500	4500	4250	4250	6490	6490	6/10	6/10	20000	25000
	4800	4800	4400	4400	6790	6790	6/10	6/10	20000	25000
	5000	5000	4550	4550	7040	7040	6/10	6/10	20000	25000
	5500	5500	4800	4800	7540	7540	3/6	3/6	19000	24000
	6000	6000	5100	5100	8090	8090	3/6	3/6	17500	22500
	6500	6500	5350	5350	8590	8590	3/6	3/6	15500	20500



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## A Series Internal Combustion Forklift

with capacities of 20,000 to 25,000kg

The World of Hangcha  
SINCE 1956



## A Series Internal Combustion Forklift

The A series 20-25t forklifts are an independently developed new series of internal combustion counterweight forklifts. With the key parts of domestically renowned brands, the cost-effective vehicle has stable performance and reliable quality. The all-purpose products are suitable for ports, railways, steel mills, mines, shipyards and rental markets.



# Mature/ Reliable



## The Weichai common rail engine has strong power, low fuel consumption and a low failure rate

- / High torque at low speeds, good performance of acceleration at medium and high speeds.
- / The four-air-valve structure has high air intake efficiency, full combustion and good economy.
- / Direct injection in the cylinder improves combustion efficiency and effectively reduces engine fuel consumption and vibration.
- / A super long oil change interval of 500 hours enables a low use cost.
- / Can be used in an environment of -35°C —50°C and an altitude of above 5000m.



## The paralleled aluminum plate-fin heat dissipaters and the original hyperboloidal fan of the engine provide reliable heat dissipation

- / The heat dissipation systems are independent of each other to avoid heat dissipation interference.
- / The engine's original large-diameter, low-speed (fan shaft deceleration ratio) hyperboloidal suction fan has good matching, stable operations and large heat dissipation power.
- / The independent hydraulic oil heat dissipater ensures the normal operations of the system under heavy-duty operation conditions.
- / Through the heat balance test under two kinds of operating conditions it has been verified to meet the requirements of special operating conditions.



## A special gearbox of a domestically renowned brand

- / The double-turbine hydraulic torque converter has a wide range of high efficiency and a large torque conversion ratio. Whether or not the main and auxiliary turbines output at the same time is determined according to the load change, so that a larger torque ratio is available to adapt to the current operating conditions where the actual two-forward-gear and one-reverse-gear mode is equivalent to the four-forward-gear and two-reverse-gear mode.
- / The parking brake is integrated with the gearbox, simple and reliable.
- / With a large market share, high reliability, fast parts supply and good economy.



## Domestic heavy-duty caliper drive axle

- / With a low failure rate, the caliper brake provides fully hydraulic power braking and large braking force.
- / The welded axle housing optimized by CAE analysis enables a high static load safety factor and a large load bearing capacity of the axle.
- / With a main gearbox for heavy-duty trucks and mine cart wheels, mature and reliable.

## The optimized frame structure makes the frame lighter and stronger

- / The bent C-shaped beam of the frame has high strength and neat appearance.
- / The optimized inner rib-equipped structure of the frame reduces the weight and increases the strength.

## Safety

- / Neutral start protection is provided. An standard OPS seat sensing system is provided to improve operating safety.
- / The multiway valves are obliquely connected to form a back pressure valve, which has a mast forward tilting self-locking function.
- / Fully hydraulic power braking and a large-capacity accumulator are used to ensure safe and reliable braking.
- / The counterweight profile is optimized to improve the rear view. An optional visual reverse radar is provided to improve operation safety.

## Energy and efficient

- / The fully hydraulic load-sensing steering and dual-pump merging technologies enable higher operation efficiency and less system pressure loss and energy consumption.
- / The vehicle is equipped with LED illuminators for the standard configuration, which have high performance, a long life and low energy consumption.

## Maintenance

- / With the LCD instruments to display the relevant information of the vehicle and an engine fault to facilitate troubleshooting, the running status of the vehicle can be monitored.
- / The overturn able cab and left and right swing-up hoods form an open maintenance space and the vulnerable parts such as the oil filter, air filter, etc. are provided in easy-to-reach positions, to enable easy maintenance of the vehicle.
- / A cloud smart module provided for the standard configuration enables remote control and diagnosis.



## Comfort

- / The ergonomic joystick with a good feel and integrated functions enables easy and comfortable combined operations.
- / The fully-suspended seat with an adjustable turning device and the cab equipped with a cooling and heating air conditioner and a reading light make the driving experience more comfortable.
- / Electro-hydraulic steering enables easy operations and less driving fatigue.



## Standard Specification

- / Standard fork
- / Standard fork carriage
- / Integral prong-adjustable side shift fork
- / Duplex wide-view mast
- / Cabin
- / Cab front wiper
- / Cab rear wiper
- / Suspended seat
- / Vehicle toolkit
- / Traction device
- / Rearview mirror
- / Air filter
- / High-position exhaust
- / Electro-hydraulic steering
- / Fully hydraulic power steering
- / Steering wheel adjusting device
- / Fully hydraulic power braking
- / Hydraulic oil level meter
- / Self-locking valve in the tilting fuel circuit
- / Speed limit valve in the lifting fuel circuit
- / Quadruple multi-way valve
- / Cable-type stop brake
- / Hydraulic oil suction filter
- / Hydraulic oil heat dissipater
- / Neutral gear safety switch
- / Main power switch
- / Water thermometer
- / Electric horn
- / Reverse buzzer
- / Combination headlights
- / Combination tail lights
- / Warning light
- / LCD instruments
- / Engine hour counter
- / Oil gauge
- / Pre-heating indicator
- / Charge indicator
- / Engine oil pressure alarm light
- / Oil-water separator indicator
- / Keyed engine flameout
- / Cloud smart module

## Options

- / User specified color
- / Solid tire
- / Fuel tank cap locked
- / Basin-shaped double air filters
- / Exhaust fire protection device
- / Fire extinguisher
- / Blue light
- / Rear work light
- / Speed limit alarm device
- / Weighing system
- / Rearview system
- / Forks of other specifications

## A Series Internal Combustion Forklift Specification

		HANGCHA GROUP CO.,LTD.			
Distinguishing mark	1.1	Manufacturer			
	1.2	Manufacturer's type designation	CPCD200-AG66Q	CPCD250-AG66Q	
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas	Diesel	Diesel	
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker	Seated	Seated	
	1.5	Rated capacity/rated load	Q (kg)	20000	25000
	1.6	Load centre distance	c (mm)	1200	1200
	1.8	Load distance, centre of drive axle to fork	x (mm)	1100	1100
	1.9	Wheelbase	y (mm)	4400	4400
	Weight	2.1	Service Weight	kg	33500
Tyres, chassis	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		Pneumatic	Pneumatic
	3.2	Tyre size, front		14.00-24-24PR	14.00-24-28PR
	3.3	Tyre size, rear		14.00-24-24PR	14.00-24-28PR
	3.5	Wheels, number front / rear (x = driven wheels)		4×/2	4×/2
	3.6	Tread, front	b10 (mm)	2200	2200
	3.7	Tread, rear	b11 (mm)	2300	2300
	4.1	Tilt of mast/fork carriage forward/backward	α/β(°)	6/10	6/10
Dimensions	4.2	Height, mast lowered	h1 (mm)	3800	3800
	4.3	Free lift	h2 (mm)	110	110
	4.4	Lift	h3 (mm)	3600	3600
	4.5	Height, mast extended	h4 (mm)	5990	5990
	4.7	Height of overhead cabin	h6 (mm)	3460	3460
	4.8	Seat height relating to SIP	h7 (mm)	2250	2250
	4.12	Coupling height	h10 (mm)	750	750
	4.19	Overall length	l1 (mm)	8890	8890
	4.20	Length to face of forks	l2 (mm)	6450	6450
	4.21	Overall width	b1/b2(mm)	3050/3050	3050/3050
	4.22	Fork dimensions	s/e/l (mm)	110×250×2440	110×250×2440
	4.24	Fork-carriage width	b3 (mm)	3000	3000
	4.25	Distance between fork-arms	b5 (mm)	900/2600	900/2600
	4.31	Ground clearance, laden, below mast	m1 (mm)	300	300
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	424	424
	4.34.1	Aisle width with load length 1800mm	Aa1 (mm)	9740	9740
	4.34.2	Aisle width with load length 2400mm	Aa2 (mm)	9740	9740
	4.35	Turning radius	Wa (mm)	6000	6000
	4.36	Minimum pivoting point distance	b13 (mm)	2090	2090
	Performance data	5.1	Travel speed, laden/unladen	km/h	-/30
5.2		Lift speed, laden/unladen	m/s	0.28/0.3	0.28/0.3
5.3		Lowering speed, laden/unladen	m/s	0.43/0.4	0.43/0.4
5.5		Drawbar pull, laden/unladen	N	160000/120000	160000/120000
5.7		Gradeability, laden/unladen	%	25/-	25/-
Combustion-engine	7.1	Engine manufacturer/type		Weichai/WP10G220E343	Weichai/WP10G220E343
		Emission STD		GB3	GB3
	7.2	Engine power	kW	162	162
	7.3	Rated speed	r/min	2000	2000
	7.4	Number of cylinders/displacement	(-) / (cm³)	6/17400	6/17400
	7.9	Vehicle electrical system voltage	v	24	24
	7.10	Battery voltage/nominal capacity	V/Ah	2×12/150	2×12/150
		Rated torque	N·m/r/min	980/1300-1500	980/1300-1500
		Transmissions Manufacturer		QJ	QJ
		Transmissions Type		ZL50D-054	ZL50D-054
		Stage FWD/RVS		2/1	2/1
Addition data	10.1	Operating pressure for attachments	bar	140	140
	10.2	Oil volume for attachments	l/min	120	120
	10.3	Hydraulic Tank - capacity (drain & refill)	liter	360	360
	10.4	Fuel tank capacity	liter	350	350
10.7	Sound pressure level at the driver's seat	dB (A)	84	84	

