



A Series Internal Combustion Truck

with capacities of 14,000 to 18,000kg



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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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SINCE 1956



A Series Internal Combustion Forklift

A series 14-18t forklift trucks are a new series of independently developed internal combustion counterweight forklifts. Products proven in the market for a long time with key parts of internationally renowned brands are mature and reliable. The vehicle features stable performance, excellent quality and cost-effective operations. The all-purpose product is suitable for use in ports, railways, steel mills, mines, shipyards and the rental market.



High safety

- / The idle start protection and an optional seat sensing system are provided to improve operating safety.
- / The fully hydraulic power braking with a large volume accumulator is adopted to allow safe and reliable braking.
- / A visual reversing radar is standard to improve operating safety.

Easy maintenance

- / With the LCD instruments to display the relevant information of the vehicle to facilitate troubleshooting, the running status of the vehicle can be monitored and the engine failures can be displayed.
- / The tilt able cab and the large upward-facing cover form an open maintenance space, and wearing parts such as fan filters and air filters are in easily accessible locations, making maintenance of the vehicle easy.
- / A cloud smart module provided for the standard configuration enables remote control and diagnosis.

Comfort when operating

- / The ergonomic joystick with good hand feeling and feature integration make joint operations simple and comfortable.
- / Adjustable steering device, hot & cold air conditioner and reading light provided in the cab as standard configuration, enable a more comfortable driving experience.
- / The adoption of electro-hydraulic steering makes the operations simple and reduces the driver's fatigue.

Efficient use and energy conservation

- / The fully hydraulic load sensing steering and dual pump merging technology improves operating efficiency, reduces system pressure loss and saves energy consumption.
- / The vehicle is equipped with a luminous body to realize high performance, long service life and low energy consumption.



Mature and reliable

The Yuchai common rail engine has strong power and low fuel consumption

- / High torque at low speeds, good performance of acceleration at medium and high speeds.
- / Bosch's non-road special common rail system has good oil adaptability.
- / An oil change interval of 500 hours enables low use cost.
- / The Yuchai A07 No. 4 platform, National III emission, clean emissions and good universality of accessories.

Parallelable plate-fin aluminum heat dissipater with Mordion high airflow fans realizes reliable heat dissipation

- / Each cooling system dissipates heat independently, making the system stable and reliable.
- / The Mordion high airflow fans allow reliable quality and stable performance.
- / The independent hydraulic oil heat dissipater ensures the normal operations of the system under heavy-duty operation conditions.
- / The heat balance test verified under two kinds of operating conditions meets the special operating conditions.

A special gearbox of a domestically renowned brand

- / Twin-turbine hydraulic torque converter enables wide speed adjustment range and high torque ratio.
- / The gearbox integrating parking brake is simple and reliable.
- / Well-proven in the market, highly reliable and economical.
- / The proportional gearshift solenoids, 2 in the front and 1 in the back, provided for the standard configuration makes operations easier.

Domestic heavy-duty caliper drive axle

- / The caliper brake provides fully hydraulic power braking and large braking force.
- / The cast axle housing has a high safety factor of static load and a large bearing capacity.
- / With a main gearbox for heavy-duty trucks and a wheel-side reducer for mining trucks, mature and reliable.

Standard Specification

- / Duplex wide-view mast
- / Independently-adjustable hydraulic fork
- / Standard fork
- / Cooling and heating air conditioner
- / Fully hydraulic power steering
- / Quadruple multi-way valve
- / Steering wheel adjusting device
- / Speed limit valve in the lifting fuel circuit
- / High-position emission
- / Traction device
- / Main power switch
- / LCD instrument
- / Engine oil pressure alarm
- / Air filter alarm
- / Accumulator low pressure alarm
- / Oil-water separator alarm
- / Engine failure alarm
- / Vehicle LED lights
- / Water temperature meter
- / Oil gauge
- / Oil temperature meter
- / Engine hour counter
- / Pneumatic tire
- / Reverse buzzer
- / Tilttable cab
- / Reversing radar
- / Vehicle toolkit
- / Cab
- / Visual reversing radar

Options

- / User specified color
- / Forks of other specifications
- / Masts of others specifications
- / Solid tire
- / Reverse voice buzzer
- / Spark arrester
- / Fire extinguisher
- / Speed limit
- / Blue light
- / Basin-shaped air prefilter



A Series Internal Combustion Truck Specification

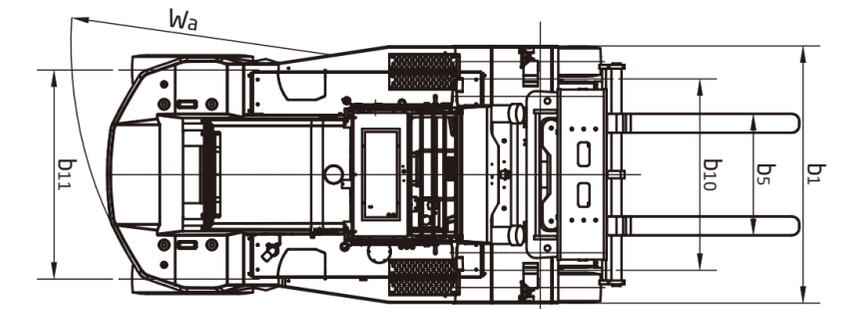
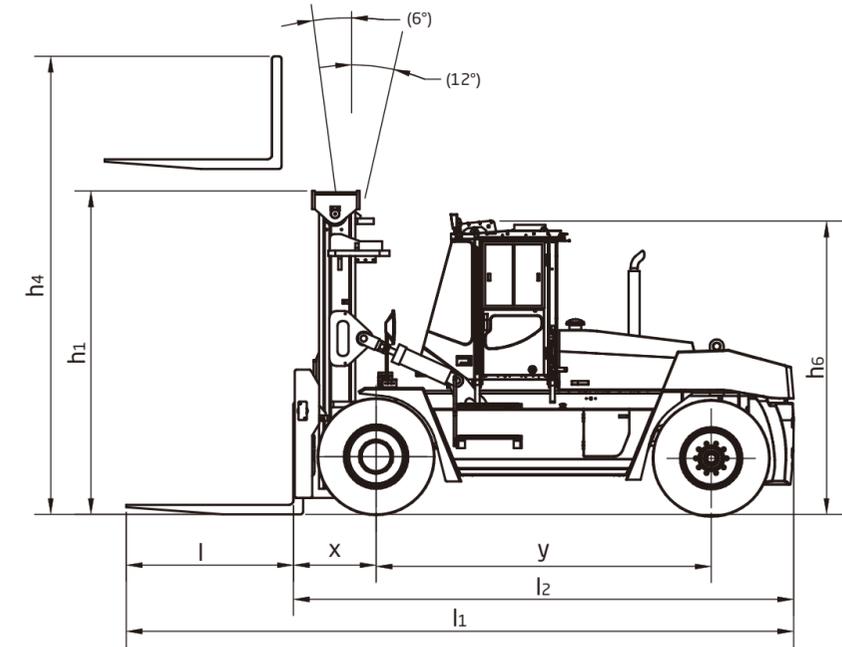
Distinguishing mark	1.1	HANGCHA GROUP CO.,LTD.								
	1.2	Manufacturer's type designation	CPCD140-AG83Q	CPCD140-AG90Q	CPCD160-AG83Q	CPCD160-AG90Q	CPCD180-AG83Q	CPCD180-AG90Q	CPCD160-AAG83Q	CPCD160-AAG90Q
1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	
1.4	Operator type: hand, pedestrian, standing, seated, order-picker	Seated	Seated	Seated	Seated	Seated	Seated	Seated	Seated	
1.5	Rated capacity/rated load	Q (kg)	14000	14000	16000	16000	18000	16000	16000	
1.6	Load centre distance	c (mm)	900	900	900	900	900	1200	1200	
1.8	Load distance, centre of drive axle to fork	x (mm)	900	900	900	900	900	1200	1200	
1.9	Wheelbase	y (mm)	3800	3800	3800	3800	3800	3800	3800	
Weight	2.1	Service Weight	kg	23100	23100	24600	24600	25500	25400	25400
	2.2	Load distribution,laden,front/rear	kg	32530/6000	32530/6000	35620/6530	35620/6530	38500/7060	38500/7060	36200/6650
	2.3	Load distribution,unladen,front/rear	kg	11220/13350	11220/13350	11930/14140	11930/14140	12600/15000	12600/15000	12300/14560
Tyres, chassis	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	
	3.2	Tyre size, front	12.00-24-20PR	12.00-24-20PR	12.00-24-20PR	12.00-24-20PR	12.00-24-20PR	12.00-24-20PR	12.00-24-20PR	
	3.3	Tyre size, rear	12.00-24-20PR	12.00-24-20PR	12.00-24-20PR	12.00-24-20PR	12.00-24-20PR	12.00-24-20PR	12.00-24-20PR	
	3.5	Wheels, number front / rear (x = driven wheels)	4*/2	4*/2	4*/2	4*/2	4*/2	4*/2	4*/2	
3.6	Tread, front	b10 (mm)	2040	2040	2040	2040	2040	2040	2040	
3.7	Tread, rear	b11 (mm)	2200	2200	2200	2200	2200	2200	2200	
Dimensions	4.1	Tilt of mast/fork carriage forward/backward	$\alpha/\beta(^{\circ})$	6/12	6/12	6/12	6/12	6/12	6/12	6/12
	4.2	Height, mast lowered	h1 (mm)	3530	3530	3530	3530	3530	3530	3530
	4.3	Free lift	h2 (mm)	100	100	105	105	105	105	105
	4.4	Lift	h3 (mm)	3300	3300	3000	3000	3000	3000	3000
	4.7	Height of overhead cabin	h6 (mm)	3240	3240	3240	3240	3240	3240	3240
	4.20	Length to face of forks	l2 (mm)	5570	5570	5570	5570	5570	5570	5570
	4.21	Overall width	b1/b2(mm)	2710	2710	2710	2710	2710	2710	2710
	4.22	Fork dimensions	s/e/l (mm)	100*200*1820	100*200*1820	105*200*1820	105*200*1820	105*250*1820	105*250*1820	105*250*2440
	4.24	Fork-carriage width	b3 (mm)	2370	2370	2370	2370	2570	2570	2570
	4.25	Distance between fork-arms	b5 (mm)	520/2200	520/2200	520/2200	520/2200	820/2400	820/2400	820/2400
	4.31	Ground clearance, laden, below mast	m1 (mm)	250	250	250	250	250	250	250
	4.35	Turning radius	Wa (mm)	5150	5150	5150	5150	5150	5150	5150
	Performance data	5.1	Travel speed, laden/unladen	km/h	24/30	24/30	24/30	24/30	24/30	24/30
5.2		Lift speed, laden/unladen	m/s	0.310/0.350	0.310/0.350	0.310/0.350	0.310/0.350	0.310/0.350	0.310/0.350	0.310/0.350
5.3		Lowering speed, laden/unladen	m/s	0.420/0.360	0.420/0.360	0.420/0.360	0.420/0.360	0.420/0.360	0.420/0.360	0.420/0.360
5.5		Drawbar pull, laden/unladen	N	150000/75000	150000/75000	150000/75000	150000/75000	150000/75000	150000/75000	150000/75000
5.7	Gradeability, laden/unladen	%	22/-	22/-	22/-	22/-	22/-	22/-	22/-	
Combustion-engine	7.1	Engine manufacturer/type		YUCHAI/YCA07175-T304	YUCHAI/YCA07175-T400	YUCHAI/YCA07175-T304	YUCHAI/YCA07175-T400	YUCHAI/YCA07175-T304	YUCHAI/YCA07175-T400	
		Emission STD		GB3	GB4	GB3	GB4	GB3	GB4	
	7.2	Engine power	kW	129	129	129	129	129	129	
	7.3	Rated speed	r/min	2200	2200	2200	2200	2200	2200	
	7.4	Number of cylinders/displacement	(-)/cm ³	6/6870	6/6870	6/6870	6/6870	6/6870	6/6870	
	7.9	Vehicle electrical system voltage	V	24	24	24	24	24	24	
	7.10	Battery voltage/nominal capacity	V/Ah	2*12/120	2*12/120	2*12/120	2*12/120	2*12/120	2*12/120	
		Rated torque	N·m/r/min	750/1400-1600	750/1400-1600	750/1400-1600	750/1400-1600	750/1400-1600	750/1400-1600	
		Transmissions Type		Powershift	Powershift	Powershift	Powershift	Powershift	Powershift	
		Stage FWD/RVS		2/1	2/1	2/1	2/1	2/1	2/1	
Addition data	10.4	Fuel tank capacity	liter	350	350	350	350	350	350	

14-18t Mast Specification

Type	Model	Max. fork height	Overall height			Tilt range		Capacity	
			Lowered	Extended	With backrest	FWD	RWD	Load Capacity at 900mm	Double tire
		mm	mm	mm	($^{\circ}$)	($^{\circ}$)	kg		
Wide view mast	G140MX	3300	3500	5150	6	12	14000		
		3600	3650	5450	6	12	14000		
		4000	3850	5850	6	12	14000		
		4300	4050	6200	6	12	14000		
		4500	4150	6400	6	12	14000		
		4800	4300	6700	6	6	14000		
		5000	4400	6900	6	6	14000		
		5500	4700	7450	3	6	12500		
		6000	4950	7950	3	6	11500		
	G160MX	3000	3500	5000	6	12	16000		
		3300	3650	5300	6	12	16000		
		3600	3800	5600	6	12	16000		
		4000	4000	6000	6	12	16000		
		4300	4200	6350	6	12	16000		
		4500	4300	6550	6	12	16000		
		4800	4450	6850	6	6	16000		
		5000	4550	7050	6	6	16000		
		5500	4850	7600	3	6	14500		
G180MX	3000	3500	5000	6	12	18000			
	3300	3650	5300	6	12	18000			
	3600	3800	5600	6	12	18000			
	4000	4000	6000	6	12	18000			
	4300	4200	6350	6	12	18000			
	4500	4300	6550	6	12	18000			
	4800	4450	6850	6	6	18000			
	5000	4550	7050	6	6	18000			
	5500	4850	7600	3	6	16500			
	6000	5100	8100	3	6	15500			

16t Mast Specification

Type	Model	Max. fork height	Overall height			Tilt range		Capacity	
			Lowered	Extended	With backrest	FWD	RWD	Load Capacity at 1200mm	Double tire
		mm	mm	mm	($^{\circ}$)	($^{\circ}$)	kg		
Wide view mast	G168MX	3000	3500	5000	6	12	16000		
		3300	3650	5300	6	12	16000		
		3600	3800	5600	6	12	16000		
		4000	4000	6000	6	12	16000		
		4300	4200	6350	6	12	16000		
		4500	4300	6550	6	12	16000		
		4800	4450	6850	6	6	16000		
		5000	4550	7050	6	6	16000		
		5500	4850	7600	3	6	14500		
		6000	5100	8100	3	6	13500		



LOAD CHART

