



## Sideload Forklift

with capacities of 3,000 to 6,000kg



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ISO14001  
ISO14001:2015



ISO9001  
ISO9001:2015



HANGCHA trucks conform  
to the European Safety  
Requirements.

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*The World of Hangcha*



# Sideloader Forklift

The side forklift is a special type of industrial vehicle. The main difference between it and the general counterbalanced front forklift is that the working device of the side fork is installed on the side of the vehicle body. In addition to being able to lift and tilt, it can also extend and Income.

## Exterior

/ The machine adopts the current international popular large arc, streamlined appearance design, beautiful and generous.

## Advancement

- / The arrangement of rollers in the well-shaped channel makes the movement of the mast more smooth.
- / The front and rear wheels float with the road surface, making the vehicle run more smoothly.
- / The machine has a number of advanced patented technologies such as cab, instrument, parking brake, and service brake.

## Reliability

- / The quality of the engine is reliable, and there are a variety of power options available.
- / The quality of the hydraulic gearbox and torque converter is reliable and stable, with the advantages of good reliability and low impact noise.



Hydraulic gearbox



Engine



## Long load handling

It is suitable for loading and unloading, stacking and transportation of long goods. During transportation, the goods are placed vertically on the cargo platform, and the requirement for the width of the channel is small, which can make full and effective use of the site area. Therefore, it is widely used in petrochemical, metallurgy, transportation, construction and other industries. It is especially suitable for loading and unloading and carrying long and heavy objects (such as steel pipes, section steel, utility poles, wood, etc.), which can greatly improve work efficiency.

# Features

The 2021 3-6 ton internal combustion side forklift is an upgraded product based on the old type of internal combustion side forklift that Hangcha adopts advanced technology and combines years of experience in R&D and production of side forks.

## Comfort and convenience

- / The design of the whole vehicle conforms to the principle of ergonomics, and the operation is comfortable.
- / It adopts the internationally accepted non-supporting leg design, with simple structure, easy operation and high work efficiency.
- / Both the cargo platform and the fork of the frame can be tilted, which is convenient for users to use.



Doors are opened on both sides of the hood for easy inspection and maintenance. Double air filters are adopted, and air is taken in from the outside of the hood, which can effectively protect the normal operation of the engine.



The full hydraulic power steering system makes the steering easy and the steering bridge has sufficient strength.



The cab is designed with front and rear sliding doors, making it easier to get on and off in narrow passages.



The driver's cab has a clear view and advanced ergonomics greatly improves the operating comfort.



The telescopic pipeline on the side of the door frame is protected by a drag chain to prevent the oil pipe from being worn out, which is more beautiful.



The layout of the cab is clean and tidy, and the sealing performance is good. Air conditioners and heaters are optional. It adopts the form of control box, which is convenient for maintenance.



The whole car adopts energy-saving and environment-friendly LED lighting system. The key parts adopt waterproof sheath to prevent water ingress failure. Front and rear lights come standard with protective covers.



## Sideloader Forklift Specification

Distinguishing mark	HANGCHA GROUP CO.,LTD.					
		CCCD30-G72B	CCCD50-G76	CCCD60-G76		
1.1	Manufacturer					
1.2	Manufacturer's type designation					
1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas	Diesel				
1.4	Operator type: hand, pedestrian, standing, seated, order-picker	Seated				
1.5	Rated capacity/rated load	Q (kg)	3000	5000	6000	
1.6	Load centre distance	c (mm)	600	600	600	
1.7	Load spacing max.	x (mm)	100	100	100	
1.8	Wheelbase	y (mm)	2550	2800	2800	
Weight	2.1	Service Weight	kg	6000	9100	9400
	2.2	Axle loading, laden front/rear	kg	4060/4940	6200/7900	6750/8650
	2.3	Axle loading, unladen front/rear	kg	2540/3460	3600/5500	3710/5690
Tyres, chassis	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane	Pneumatic			
	3.2	Tyre size, front	8.25-15-18RP			300-15-20PR
	3.3	Tyre size, rear	8.25-15-18RP			300-15-20PR
	3.4	Wheels, number front / rear (x = driven wheels)	2/2x			2/2x
	3.5	Tread, front	b10 (mm)	1800	1795	1795
	3.6	Tread, rear	b11 (mm)	1800	1795	1795
Dimensions	4.1	Tilt of fork carriage forward/backward	$\alpha/\beta(^{\circ})$	5/5	5/5	5/5
	4.2	Tilt of platform forward/backward	$\alpha_1/\beta_1(^{\circ})$	3/3	3/3	3/3
	4.3	Platform height	h11 (mm)	980	1055	1055
	4.4	Platform width	b9 (mm)	1200	1200	1200
	4.5	Height, mast lowered	h1 (mm)	2700	2865	2865
	4.6	Free lift	h2 (mm)	300	300	300
	4.7	Lift	h3 (mm)	3600	3600	3600
	4.8	Height, mast extended	h4 (mm)	4676	4677	4677
	4.9	Height of cabin	h6 (mm)	2686	2762	2762
	4.10	Seat height relating to SIP	h7 (mm)	1555	1630	1630
	4.11	Overall length	l1 (mm)	4260	4890	4890
	4.12	Overall width	b1 (mm)	2040	2100	2100
	4.13	Fork dimensions	s/e/l (mm)	45*122*1200	60*150*1200	60*150*1200
	4.14	Fork carriage DIN 15 173 --- ISO 2328, class/type A,B	III A			IV A
4.15	Fork-carriage width	b3 (mm)	1050	1200	1200	
4.16	Distance between fork-arms	b5 (mm)	270-1030	312-1160	312-1160	
4.17	Ground clearance, laden, below mast	m1 (mm)	150	165	165	
4.18	Turning radius	Wa (mm)	4255	4700	4700	
4.19	Internal turning radius	b13 (mm)	855	1087	1087	
Performance data	5.1	Travel speed, laden/unladen	km/h	20/21	23/25	23/25
	5.2	Lift speed, laden/unladen	m/s	0.396/0.41	0.380/0.42	0.380/0.42
	5.3	Traverse, laden	m/s	0.21	0.3	0.3
	5.4	Lowering speed, laden/unladen	m/s	0.425/0.34	0.44/0.39	0.44/0.39
	5.5	Gradeability, laden/unladen	%	18/	25/	25/
	5.6	Service brake	Hydraulic			
	5.7	Parking brake	Mechanical			
Combustion-engine	7.1	Engine manufacturer/type	XINCHAI/4D32XG30			YUCHAI YC4DK90
	7.2	Engine power according to DIN ISO 1585	kW	45	66	66
	7.3	Rated speed	r/min	2500	2200	2200
	7.4	Number of cylinders/displacement	(-)/(cm <sup>3</sup> )	4/3168	4/3621	4/3621
	7.5	Energy consumption acc. to VDI cycle	l/h or kg/h	4.2L/h	8.5L/h	9.2L/h
	7.6	Generator	A	71.4	62.5	62.5
	7.7	Vehicle electrical system voltage	V	12	24	24
	7.8	Battery voltage/nominal capacity	V/Ah	12/90	2-12/90	2-12/90
Addition data	10.1	Operating pressure for attachments	bar	185	190	190
	10.2	Hydraulic Tank - capacity (drain & refill)	liter	51.5	98.5	98.5
	10.3	Fuel tank capacity	liter	66	100	100
	10.4	Sound pressure level at the driver's seat	dB (A)	86	83	83

## Mast Specification

Type	Model	Max. fork height	Overall height			Free lift	Front Overhang	Tilt range	Chassis tilt angle
			Lowered	Extended					
				mm	Without backrest			With backrest	mm
2-stage wide view mast	SC305M360	3600	2700	4431	4631	300	220	5/5	3/3
	SC305M400	4000	2900	4831	5031	300	220	5/5	3/3
	SC305M450	4500	3150	5331	5531	300	220	5/5	3/3
	SC305M500	5000	3400	5831	6031	300	220	5/5	3/3
	SC305M550	5500	3700	6331	6531	300	220	5/5	3/3
	SC305M600	6000	4000	6831	7031	300	220	5/5	3/3
2-stage wide view mast	SC605M360	3600	2865	4617	/	300	252.5	5/5	3/3
	SC605M400	4000	3065	5017	/	300	252.5	5/5	3/3
	SC605M450	4500	3315	5517	/	300	252.5	5/5	3/3
	SC605M500	5000	3565	6017	/	300	252.5	5/5	3/3
	SC605M550	5500	3815	6517	/	300	252.5	5/5	3/3
	SC605M600	6000	4165	7017	/	300	252.5	5/5	3/3

