



2-3.2 t

H3C Series Internal-Combustion
Counterbalanced Cushion-tired Forklift Truck



H3C series

HIGH EFFICIENCY
ENERGY-SAVING

HELI
LIFTING THE FUTURE

TOP 8 FORKLIFT MANUFACTURER
IN THE WORLD



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Counterbalanced Cushion-tired Forklift Truck

H3C series | HIGH EFFICIENCY
ENERGY-SAVING

Technical features remarkably improved, superior quality

Vibration

- Cushion connection and whole suspension cab can absorb the vibrations of truck effectively.

Energy Efficiency

- With optimized hydraulic system, the truck is more energy-efficient and has lower fuel consumption.

Noise

- Lowering damping device inside the lifting system reduces mast shock and vibration, avoiding noise caused by goods releasing to the ground.

Environmental Protection

- The exhaust of engine satisfies CARB 4 regulation.
- The truck can effectively prevent the volatilization of the fuel with the pressure fuel cap.

Operation Comfort

- The operation space is enlarged by heightened overhead guard and using large arc shape of the overhead guard's front leg.
- Semi-suspension seat, and small steering wheel, electro-hydraulic direction changing and automobile type double combined switch effectively improve the operation comfort.

Reliability

- The hot air isolating device, optimized thermal duct and the aluminum plate-fin type radiator improve cooling ability and ensure engine working reliability.
- The optimized design of key parts including frame, mast, overhead guard and steering axle improve the truck's safety and reliability.

Working Efficiency

- Small turning radius makes steering flexible and easy.
- The truck has fast lifting speed, good sloping ability and high efficiency.
- High working efficiency guarantees the truck could meet the requirements for various kinds of complicated work conditions.

Convenient Maintenance

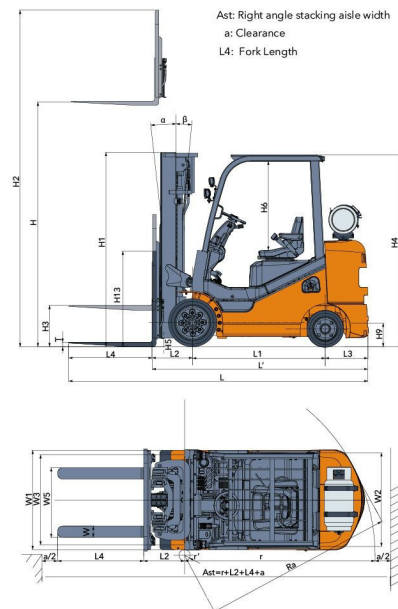
- Engine hood open angle increased to 80°, contributes to quick and convenient maintenance.
- Smaller front floor board makes it more convenient to maintain the transmission box.





Manufacturers Data and Design Characteristics					
Character					
1.01 Manufacturer		HELI			
1.02 Model		CP(Q)/YD20C	CP(Q)/YD25C	CP(Q)/YD30C	CP(Q)/YD32C
1.03 Rated capacity	kg	1815	2267	2720	2950
1.04 Load center	mm	610			
1.05 Operation mode		Seat-type			
Size					
2.01 Max.lifting height	H	mm	4700		
2.02 Mast overall height(fork to the ground and mast be vertical)	H1	mm	2160	2230	
2.03 Max.fork lifting height(with backrest)	H2	mm	5700	5900	
2.04 Free lift height	H3	mm	1120	990	
2.05 Overall height(overhead guard)	H4	mm	2120		
2.06 Min.ground clearance(at the mast)	H5	mm	90		
2.07 Distance from the surface of the seat to the overhead guard	H6	mm	1030		
2.08 Traction pin height	H9	mm	250		
2.09 Backrest height(calculated from the surface of the fork)	H13	mm	1009	1227	
2.10 Overall length(with fork/without fork)	L/L'	mm	3270/2350	3475/2405	3555/2485 3585/2515
2.11 Wheel base	L1	mm	1465		
2.12 Front overhang	L2	mm	445	460	
2.13 Rear overhang	L3	mm	425	485	550 575
2.14 Overall width	W1	mm	1070		
2.15 Tread (front tread/rear tread)	(W3/W2)	mm	892/920	917/920	
2.16 Fork adjustable range(the external of the fork)(Max./Min.)	W5	mm	1024/200		
2.17 Min.turning radius(exterior)	r	mm	1930	2000	2050 2080
2.18 Min.turning radius(interior)	r'	mm	65		
2.19 Min.right angle stacking aisle width	Ra	mm	2350	2410	2470 2510
2.20 Mast tilting angle	α / β		61°/5°		
2.21 Fork size	L4 × W × T	mm	920 × 100 × 40	1070 × 100 × 40	1070 × 125 × 45 1070 × 125 × 45
Performance					
3.01 Max.traveling speed (Loaded/Unloaded)	Km/h	17/17		17/17	
3.02 Lifting Speed (Loaded/Unloaded)	mm/s	525/600		490/540	
3.03 Lowering Speed (Loaded/Unloaded)	mm/s	450/500		450/500	
3.04 Max.drawbar pull (Loaded/Unloaded)	KN	20/12	20/12	20/12	20/12
3.05 Max.Gradeability (Loaded/Unloaded)	%	35/20	32/20	25/20	25/20
Weight					
4.01 Total weight	kg	3840	4300	4865	5020
4.02 Weight distribution loaded (front/rear)	kg	4975/680	5800/790	6575/1010	6900/1070
4.03 Weight distribution unloaded (front/rear)	kg	1850/1990	1820/2480	1885/2980	1820/3200
Wheel and tire					
5.01 Wheel number x = drive wheel (front/rear)		2X/2			
5.02 Tire type(front/rear)		Cushion tire			
5.03 Tire size(front/rear)		21x7-15/16x-10.5 21x17-16x-10.5 21x8-15/16x-10.5 21x8-15/16x-10.5			
5.04 Service brake		Hydraulic-Foot Pedal			
5.05 Parking brake		Mechanical-Hand Lever			

Model	CQ(Q)YD20C	CQ(Q)YD25C	CQ(Q)YD30C	CQ(Q)YD32C
Engine type			LPG/Dual Fuel	
Battery(Voltage/Capacity)	V/Ah		12/60	
Engine mode			Mitsubishi 4G64 (PSI)	
Engine rated power	KW/rpm	Gasoline: 48/2700 / LPG: 46/2700		
Engine rated torque	Nm/rpm	Gasoline: 170/2400 / LPG: 168/2000		
Engine cylinder number			4-86.5×100	
Piston displacement	L		2.351	
Engine fuel tank capacity	L		50	
Transmission(front/rear type)			1-1Power Shift T/M	

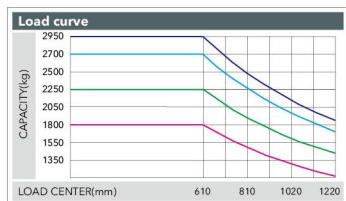


WIDE VIEW FULL FREE 3-STAGE MAST

Mast model	Max. lifting height (m)	Load Capacity at 610mm Load Center				Mast overall height (fork to the ground) (mm)		Free lifting height (with backrest) (mm)		Service weight (kg)				Mast tilting angle (°) α/β
		1800kg	2250kg	2750kg	2950kg	1800 ~2250kg	2750 ~3000kg	1800 ~2300kg	2750 ~3000kg	1800kg	2250kg	2750kg	2950kg	
ZSM360	3600	1800	2250	2750	2950	1780	1880	760	622	4805	5265	5888	6042	61.5
ZSM400	4000	1800	2250	2750	2950	1905	2015	884	756	4848	5308	5932	6087	61.5
ZSM435	4350	1800	2250	2750	2950	2030	2130	1008	872	4882	5342	5965	6119	61.5
ZSM450	4500	1800	2250	2750	2950	2095	2180	1075	922	4900	5356	5969	6124	61.5
ZSM470	4700	1800	2250	2750	2950	2145	2230	1122	972	4914	5374	5993	6148	61.5
ZSM480	4800	1780	2150	2650	2850	2180	2280	1158	1024	4925	5385	6007	6162	61.5
ZSM500	5000	1750	2050	2600	2800	2280	2340	1260	1082	4950	5410	6024	6180	61.5
ZSM540	5400	1700	2000	2500	2700	2405	2490	1384	1232	4988	5447	6066	6221	31.5
ZSM600	6000	1500	1450	2300	2100	2630	2705	1608	1448	5087	5546	6164	6319	31.5
ZSM650	6500	1100	1300	1350	1250	2820	2890	1798	1633	5140	5600	6216	6371	31.3
ZSM700	7000	700	810	810	770	3090	3140	2068	1862	5215	5675	6287	6442	31.3

Note: 1800-2300Kg free lift height (without backrest) +360 mm;
2750-3000Kg free lift height (without backrest) +495 mm;

For other mast options, please contact your authorized HELI dealer.



CP(Q)YD20C

CP(Q)YD25C

CP(Q)YD30C

CP(Q)YD32C

Note: The vertical axis stands for load capacity and the horizontal axis stands for load center which is calculated from the front of the fork. The base point of the standard load refers to the center position of the cube with 39.37in length of side. When mast is tilted forward, nonstandard fork usage or load with over wide goods, load capacity will be reduced. Different load capacity in different load center can be known in time through load chart.



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Instrument Panel



- Reliable dashboard shows the truck's working condition, faults and other important information for convenient operator control

Standard configuration

Horn	Standard forks
Three-spool control valve	Integrated electronic box
3-stage full free mast	Speed-limiting valve
Power steering	Lifting and tilting operation lever
Semi-suspension seat	Tow pin
Load backrest	Overhead guard
Rear view mirror	Combined display
Front combo lights	LPG Low Fuel Indicator
Transmission oil filter	
Rear combo lights	
Back-up alarm	
Overhead guard rain cover	

Optional

Max. speed control system	Rear drive handle with horn button
LED Rotating Light	
Dual Air Filter	
Hydraulic Fork Positioner	
Rear work light	
Lifting OPS control system	
Torque converter oil temperature meter	
Optional attachments	
Rotating seat for LPG	
Swing Out/Drop-Down LPG Bracket	
LED headlights	
No hand brake alarm	

INDUSTRIAL FORKLIFTS

AUTHORIZED DEALER