

CPC(D)20/25/30/35/40/50



HUAYA
Carrying the Future



2.0-5.0t

Internal combustion counterbalance forklift

*Design and specifications are subject to change without prior notice.

2.0-5.0t

Internal combustion counterbalance forklift

- Superior Reliability**
Comprehensive upgrade of core components including axles and mast.
- Exceptional Performance**
Maximum Operational Efficiency
- Versatile Power Options**
Multiple powerful engine options available.
- More Comfortable Operation**
Ergonomic optimization for a brand new driving experience.



Wheel rim safety factor increased by 80%	Lifting speed increased by 13%	Overall energy consumption reduced by 5%	Hydraulic and transmission oil temperatures decreased by 15%	Mast visibility (standard type) increased by 7%	Engine water temperature decreased by 10%	Steering axle angle increased by 4%	Mast visibility (with hose pulley set) increased by 20%

 Optimized mast structure effectively improves driver visibility.	 Frame-type upper crossbeam structure ensures balanced stress distribution, enhancing rigidity and strength.	 Optimized cylinder fixing brackets for enhanced reliability.	 Application of composite rollers improves lateral installation control precision of the fork carriage.
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 Standard lower buffering for lifting cylinders ensures smoother operation; optimized mast oil line routing provides a more reasonable structure and reliable connections.	 Reduced wheel rim eccentricity and optimized structure for higher load capacity and safer operation.	 Engine hood opening angle reaches 80°, which, combined with the exterior design, significantly increases maintenance space.
 Optimized integrated brake drum hub and half-shaft oil seal structure for higher strength and reliability.	 New cast steering axle with upgraded turning performance for more reliable and efficient operation.	

 Standard LED headlights and signal lights ensure reliability and energy efficiency. Their high visibility provides effective warnings to surrounding personnel.	 Hydraulic power steering significantly reduces physical strain on the operator's hands and shoulders, enabling effortless handling in all working conditions.	 High-resolution HMI color display provides clear, real-time data for an intuitive interactive experience.
 Automotive-style integrated combination switch enhances ergonomic comfort and enables convenient one-handed control.	 Ergonomic seat optimizes HMI feedback with enhanced leg and lumbar support, effectively reducing operator fatigue.	 Optimized radiator and cooling channels significantly extend the service life of the engine and transmission, ensuring reliability in harsh conditions.
 Automotive-style refueling design enhances user experience and increases hand operating space.	 Standard mid-mounted exhaust, with optional high and low-mounted configurations.	 Durable anti-slip boarding steps with 20% more space, suitable for various operator body types.

The 2-5t IC forklifts offer various emission configurations, including US EPA, EU, Japan, and China Stage IV. Featuring a rugged yet modern and stylish exterior, their core components are market-proven for maturity and reliability. By integrating the design philosophies of "Safety, Reliability, Efficiency, and Comfort" with Huaya's technical innovation and the latest manufacturing processes, these vehicles highlight their traditional attributes of durability and exceptional cost-effectiveness.

Comprehensive and Robust Configurations

Standard high-reliability transmission with high transmission efficiency is market-proven, ensuring classic reliability and worry-free driving.

The standard high-reliability drive axle features high casting precision and enhanced housing strength for guaranteed safety.

The eco-friendly engine offers lower noise, excellent fuel economy, and abundant power.

A comprehensive mast visibility upgrade across standard, 2-stage, and 3-stage masts, including hose pulley configurations, provides an unobstructed view.

Optimized Design for Enhanced Reliability

The application of 24-degree cone connectors in hydraulic lines ensures easier assembly and disassembly while providing a more reliable and durable seal, effectively eliminating oil leakage.

An optimized wheel rim design significantly enhances strength, increasing the safety factor by over 80% for superior load-bearing and peace of mind.

Furthermore, the integrated brake drum hub combined with half-shaft oil seals offers higher structural integrity, superior sealing, and an extended service life.

The mast system also features an optimized upper crossbeam frame, cylinder mounting, and hose routing, which, together with the composite rollers on the fork carriage, results in a more rational and secure overall structure.

Energy-Efficient Applications for Higher Productivity

Increased hydraulic line diameters and optimized joint routing improve system heat dissipation by 15%, significantly extending the service life of hydraulic components and lowering lifecycle maintenance costs.

The application of an integrated multi-way valve further optimizes internal oil channels and reduces flow resistance for higher operational efficiency.

Additionally, the LED signal lights are reliable, energy-efficient, and boast a high protection rating of IP67.

The all-new instrument panel is designed for high visibility and readability, with standard models for electronic engines now including a fault code display function for real-time monitoring of vehicle conditions.

Meticulous Craftsmanship for Superior Quality

With a low center of gravity and a mast constructed from specialized forklift mast steel, the vehicle features a small front overhang and exceptional stability, leading to a significant increase in overall load capacity.

Further optimization of front and rear axle load distribution effectively extends the service life of both the axles and the tires, while reducing fuel consumption by up to 5% or more.

The all-new cast steering axle provides a smaller turning radius, making operations in narrow spaces more flexible.

Additionally, the optimized overall heat dissipation design significantly increases the service life of critical components like the engine and transmission, allowing the forklift to adapt to relatively harsh working conditions.

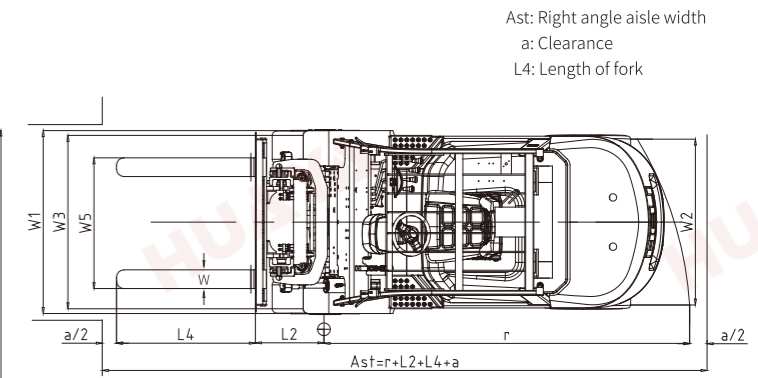
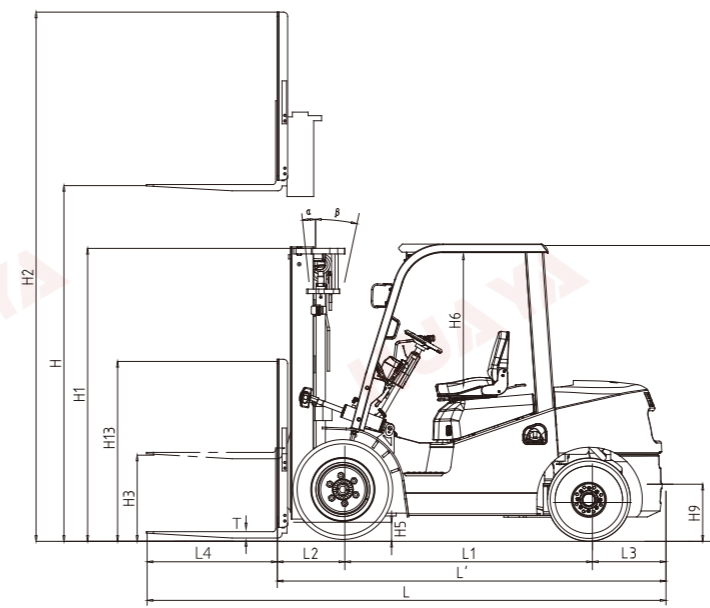
Ergonomic Design for Maximum Comfort

The small-diameter steering wheel, ultra-low torque steering unit, and integrated combination switch ensure efficient and convenient operation, significantly reducing physical effort and improving driving ease.

Standard lower buffering automatically decelerates the forks as they descend to the ground, adding to operational comfort and convenience.

The ergonomic seat optimizes human-machine interaction feedback with enhanced leg and lumbar support, effectively reducing operator fatigue.

Furthermore, detailed designs such as enlarged anti-slip pedals, an automotive-style refueling structure, a generous hood opening angle, and optimized routing make both use and maintenance more comfortable.



Manufacturer and technical parameters			HUAYA						
Characteristics	Manufacturer		CPC(D)20	CPC(D)25	CPC(D)30	CPC(D)35	CPC(D)40	CPC(D)50	
		Model							
	Rated capacity	kg	2000	2500	3000	3500	4000	5000	
	Load Center	mm	500						
	Power type		Diesel						
	Driving mode		Sit-on type						
Size	Lifting height(standard)	H	3000	3000	3000	3000	3000	3000	
	Mast height lowered	H1	2040	2040	2060	2060	2060	2185	
	Mast height extended	H2	4220	4220	4265	4265	4220	4220	
	Free lift height	H3	100	100	100	100	100	100	
	Overall height(overhead guard)	H4	2100	2100	2165	2165	2165	2210	
	Min. Ground Clearance (at Mast)	H5	120	120	120	120	120	160	
	Seat to Guard Height	H6	1050	1050	1050	1050	1050	1050	
	Traction pin height	H9	290	290	310	310	310	295	
	Load backrest height (from fork face)	H13	1000	1000	1100	1100	1100	1100	
	Overall length (with fork / without fork)	(L/L')	mm	3650/2580	3650/2580	3805/2735	3805/2735	3905/2835	4130/2910
	Wheelbase	L1	mm	1600	1600	1750	1750	1850	2030
	Front overhang	L2	mm	450	450	498	498	498	498
	Rear overhang	L3	mm	415	506	564	564	565	580
	Overall width	W1	mm	1160	1160	1225	1225	1225	1380
	Tread (front/rear)	(W3/W2)	mm	970/970	970/970	970/970	1000/970	1000/970	1085/970
Distance across forks (max./min.)	W5	mm	1030/244	1030/244	1060/250	1060/250	1060/250	1340/300	
Min. outside turning radius	r	mm	2280	2280	2450	2450	2550	3050	
Min. inside turning radius	r'	mm	105	105	130	130	200	335	
Mast tilt angle (forward/backward)	α/β	°	6°/12°	6°/12°	6°/12°	6°/12°	6°/12°	6°/12°	
Fork size	L4×W×T	mm	1070×122×40	1070×122×40	1070×125×45	1070×125×50	1070×125×50	1070×150×50	
Min. Aisle (1000×1200)	Ast	mm	3930	3930	4148	4148	4248	4748	
Min. Aisle (1200×800)	Ast	mm	4130	4130	4348	4348	4448	4948	
Overall weight	Total weight	kg	3530	3880	4350	4560	4780	5500	
	Weight Dist. (Loaded)	kg	4914/616	5643/737	6500/850	7244/816	7917/863	9108/1392	
	Weight Dist. (Unloaded)	kg	1647/1883	1563/2317	1783/2567	1774/2786	1811/2969	2366/3134	
Tires	Wheels (X=Driven)		2×/2						
	Tire type (front/rear)		Pneumatic / Solid						
	Tire size (front/rear)		7.00-12-12PR/6.00-9-10PR			28x9-15-14PR/6.5-10-10PR		300-15-18PR/7.00-12-14PR	
	Service brake		Hydraulic-pedal						
	Parking brake		Mechanical-hand lever						

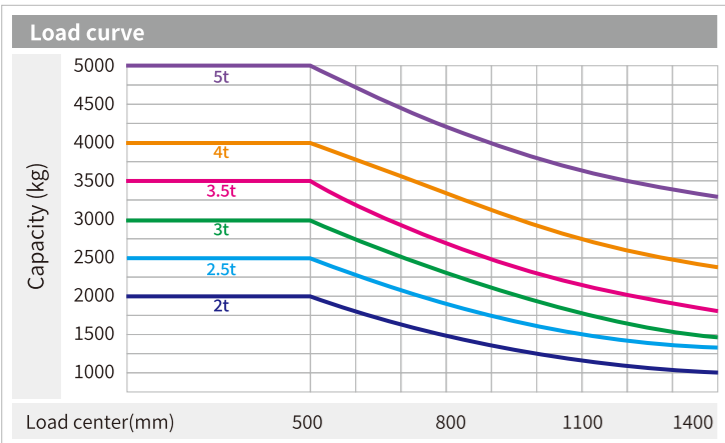
Main Performance Parameters & Drive/Transmission Control Device

Table with columns for Model, CPC(D)20-50, Max. Travel Speed, Lifting Speed, Lowering Speed, Max. Traction Force, Max. Gradeability, Battery, Engine Model, Rated Power/Speed, Max. Torque/Speed, No. of Cylinders, Fuel Tank Capacity, and Number of Transmission Speeds.

Note: * indicates theoretical calculated value.

Optional Engine Models and Technical Parameters

Table with columns for Engine Model, Emission Standard, and specific engine details like Isuzu C240/4JG2, Nissan GCT-GK25, etc.



Note: The vertical axis indicates load capacity, while the horizontal axis indicates the load center. The load center is measured from the front face of the forks...

Table with columns for Vehicle Configuration, Optional Equipment, and Optional Attachments, listing items like OPS Safety Seat, Transmission Oil Filter, Fully-enclosed Cabin, etc.

2t/2.5t/3t Internal Combustion Forklift Specifications

Large table with columns for Mast Type, Mast Model, Max. Lifting Height, Load Capacity (2t, 2.5t, 3t), Free Lift Height, Overall Mast Height (2-2.5t, 3t), Overall Weight (2t, 2.5t, 3t), and Mast Tilt Angle.

Note: * indicates rated capacity with dual front tires.

3.5t/4t/5t Internal Combustion Forklift Specifications

Large table with columns for Mast Type, Mast Model, Max. Lifting Height, Load Capacity (3.5t, 4t, 5t), Free Lift Height, Overall Mast Height, Overall Weight, and Mast Tilt Angle.

Note: * indicates rated capacity with dual front tires.