

12 t

H series light type 12t forklift truck

(with Cummins engine, meeting EU stage V)



ANHUI HELI CO., LTD.

Add / No.668, FangXing Road, Hefei, China

Fax / +86-551-63639966

Tel / +86-551-63639068(America); 63639258(Europe);
63639358(Asia); 63662105(Africa & Middle East)



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*Through more than 60 years of technological accumulation,
HELI gathered our strengths to create high-quality products.*

***With over 60 years of craftsmanship,
Heli never stop.***

Heli CPCD120-CUH-06 light type 12t forklift truck can be widely used in enterprises, stations, ports, docks, ship holds, and other places, for the handling of overweight and oversized goods, as well as for the handling and stacking of some types of empty containers.



A Characteristics

A.1 Mature platform is stable and reliable

Heli has been committed to the design and develop high-quality products for many years, conducting high standard prototype tests in the factory, and verifying their use in the market for decades; Breaking through technological bottlenecks, valuing market feedback, heli continuously optimize, resulting in high product reliability and good market reputation..

A.2 Dynamic performance

- The truck adopts Cummins common rail engine with strong power and good low-speed performance.
- The engine has the performances of DOC+DPF+SCR technology route, energy-saving, environmentally friendly, and stable and reliable.
- The truck adopts a dedicated high-speed drive axle for heavy-duty forklifts, the axle housing has high strength, improved transportation efficiency, and reliable performance;



- Heli independently designs a dedicated gearbox, which has undergone nearly 30 years of technological innovation and market validation. It adopts manual and automatic integration and intelligent shifting technology, making it easy, fast, and impactless; The distribution of gears is safe and efficient.
- The hydraulic system integrates prioritizes steering technology, paired with well-known hydraulic components to ensure excellent hydraulic system performance, good handling performance, high accuracy, and stable and reliable vehicle performance.
- The truck has innovative design of the braking system, excellent braking performance, and smooth operation.

Hydraulic powered transmission box and 340 high performance torque converter

- 19.Integrated manual and automatic intelligent shift technology.
- Smooth gear shifting.
- Smart gear shifting.
- Higher power matching.
- Safe, reliable and low noise.





A3 Ergonomic design

- Vibration reduction, fully suspended overhead guard , reducing vehicle vibration.
- Vibration reduction, perfect matching of fully enclosed dashboard and covering parts reducing noise reduction.
- Good view, standard configuration of working light.
- The instrument has good human-machine interface which can show various information and thus operator can know the truck information in time.
- The hydraulic system is light and labor-saving to operate, and thus reduce operating fatigue and make the operation more comfortable.



A4 Reduce emissions and consumption, economic and environmental protection

- Meet the strict EU stage V / Tier IV emission standard.



A₅ Worry free, easy maintenance and operation.

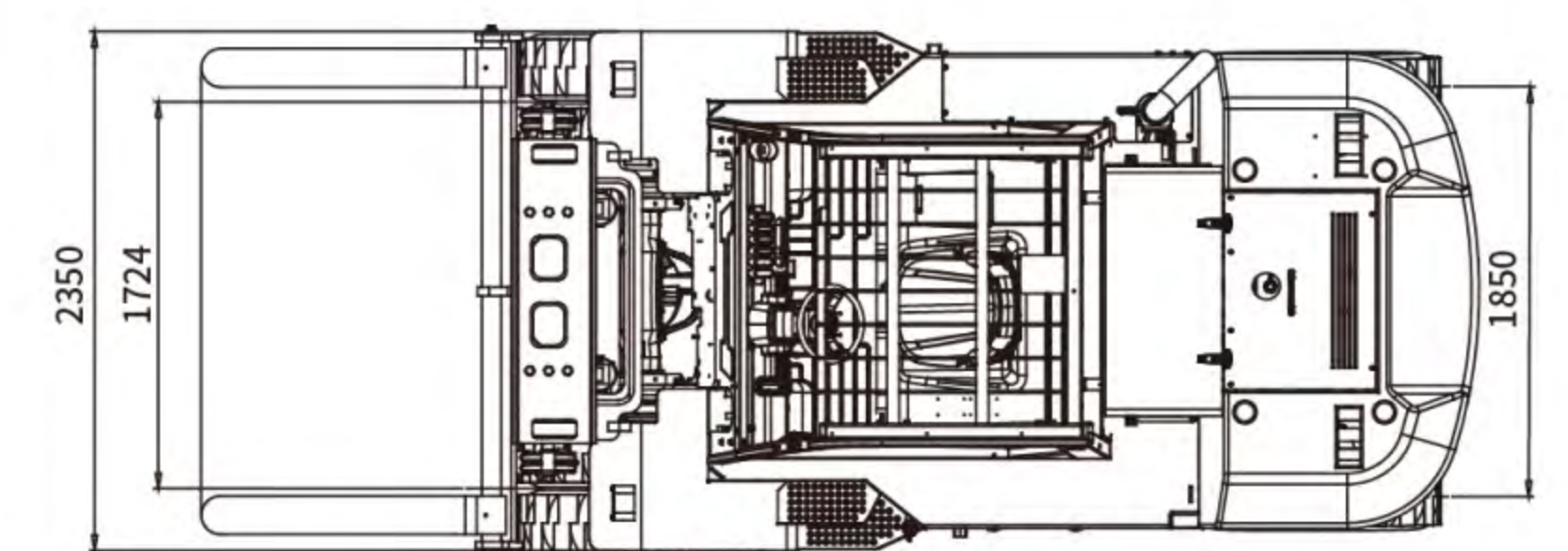
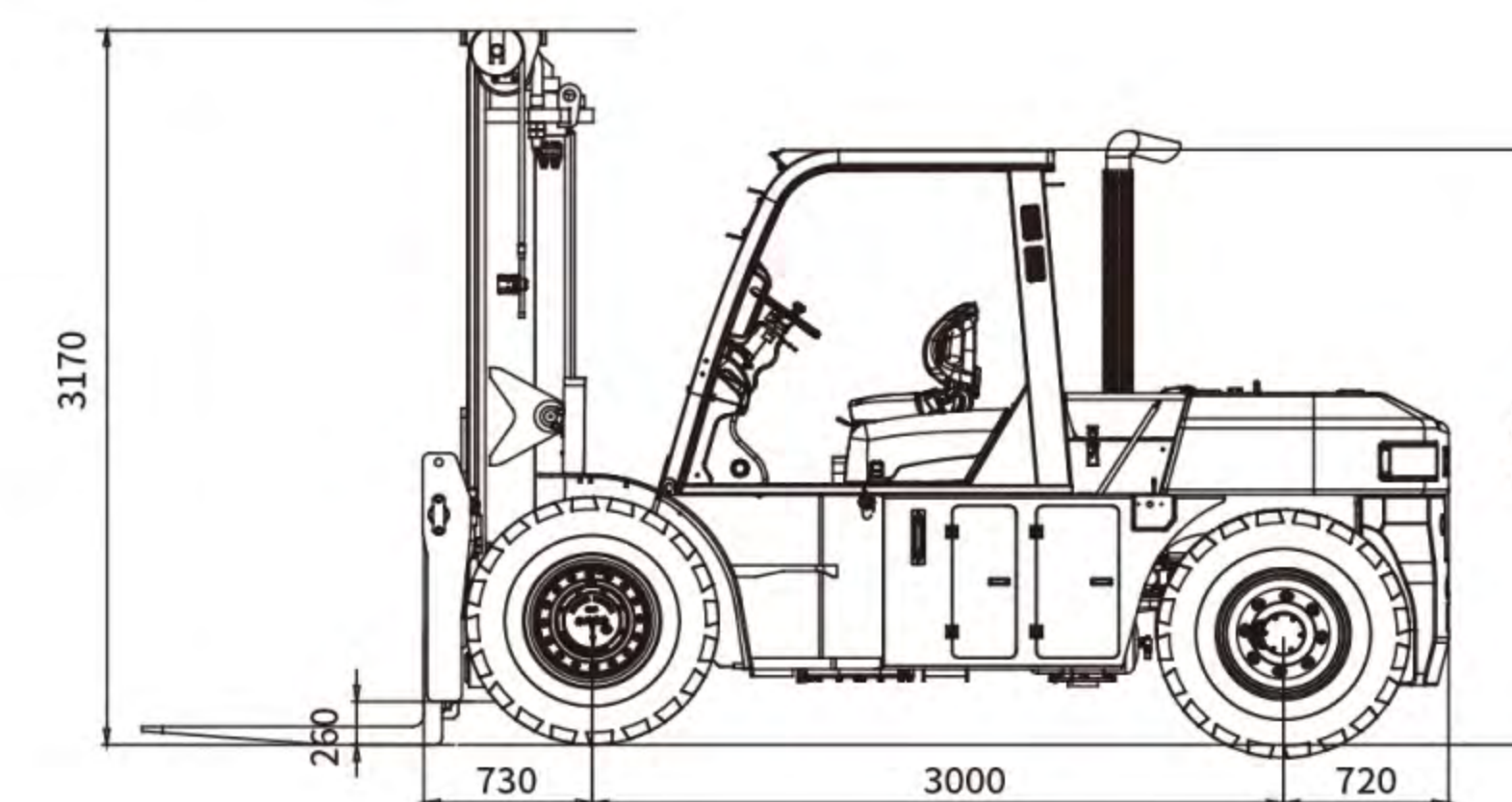
- External design of post-processing device, convenient for daily inspection and maintenance.
- Large opening Angle of front and rear hood, sufficient maintenance space.
- The new oil tank built-in suction filter is more convenient to replace the filter element. New type air filter has small size and release maintenance space.



B Technical specification

Manufacturer and Technical Data

Characteristic			
1.01	Manufacturer		HELI
1.02	Model		CPCD120-CU1-06
1.03	Load Capacity	kg	12000
1.04	Load Centre	mm	600
1.05	Power Type		Diesel
1.06	Driving Style		Driver seated
Tire			
2.01	Front Tire		10.00-20
2.02	Rear Tire		10.00-20
Dimension Parameter			
3.01	Lifting Height(standard)	mm	3000
3.02	Mast Tilt(fwd/bwd)		6°/ 12°
3.03	Min.Turning Radius	mm	4300
3.04	Overall Length(with Forks)	mm	4400(5770)
3.05	Overall Width	mm	2350
3.06	mast without activity	mm	3170
3.07	Wheel Base	mm	2950
3.08	Tread(fwd/bwd)	mm	1724/1850
3.09	Overhang(fwd/bwd)	mm	730/720
3.10	Min.Under clearance	mm	260
3.11	Lateral Fork Adjustment(Outside of Forks)	mm	420-2200
3.12	Fork Length	mm	1370
3.13	Fork Width/Thickness	mm	175/85
Performance Parameter			
4.01	Lifting Speed(Loaded)	mm/s	390
4.02	Lowing Speed(Loaded)	mm/s	450
4.03	Traveling Speed(Loaded/Unloaded)	km/h	28/30
4.04	Max.gradeability	%	28
Engine			
5.01	Engine Manufacturer/Model		Cummins B6.7
5.02	Cyl. Number/Displacement	/L	6/5.88
5.03	Rated Power/Roted Speed	kW/rpm	129/2200
5.04	Max. Torque/Roted Speed	Nm/rpm	881/1300
Gearbox			
6.01	Gearbox		Special gearbox for HELI



Standard Mast

Mast Type	Lift Height (mm)	Lowered Mast Height (mm)	Rated Load Capacity (kg)	Mast Weight (kg)	Tilt Angle (Forward/Backward)
M250	2500	2915	12000	3124	6° / 12°
M266	2660	2995		3165	
M300	3000	3165		3251	
M330	3300	3315		3330	
M350	3500	3415		3378	
M375	3750	3540		3445	
M400	4000	3665		3509	
M450	4500	3915		3636	
M500	5000	4215	11000	3792	6° / 6°
M550	5500	4465		3917	
M600	6000	4765	10000	4071	3° / 6°
M650	6500	5015	9000	4201	
M700	7000	5265	8000	4331	

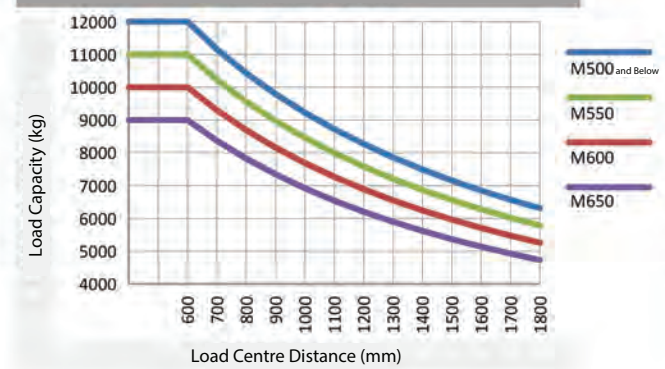
Two-Stage Full Free Lift Mast

Mast Type	Lift Height (mm)	Free Lift Height (mm)	Lowered Mast Height (mm)	Rated Load Capacity (kg)	Tilt Angle (Forward/Backward)
ZM300	3000	1500	3165	10700	6° / 12°
ZM350	3500	1750	3415		
ZM400	4000	2000	3915		
ZM450	4500	2250	4215		
ZM500	5000	2500	4215		
ZM550	5500	2750	4465	9700	3° / 6°
ZM600	6000	3000	4765	8700	
ZM650	6500	3250	5015	7700	

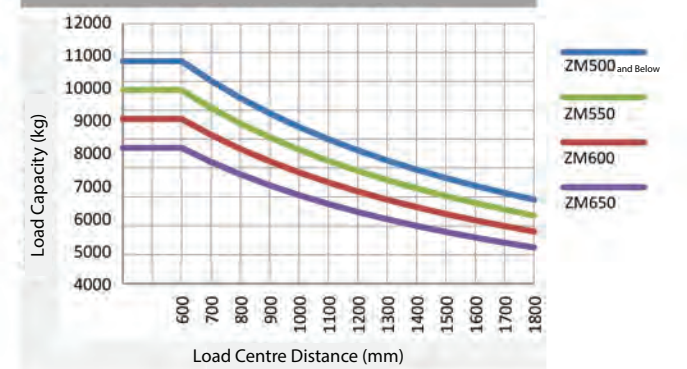
Three-Stage Full Free Lift Mast

Mast Type	Lift Height (mm)	Free Lift Height (mm)	Lowered Mast Height (mm)	Rated Load Capacity (kg)	Tilt Angle (Forward/Backward)
ZSM400	4000	1340	2970	10500	6° / 12°
ZSM450	4500	1500	3140		6° / 6°
ZSM480	4800	1660	3220		
ZSM500	5000	1660	3220		6° / 6°
ZSM550	5500	1840	3491	9500	3° / 6°
ZSM600	6000	2000	3640	8500	
ZSM650	6500	2160	3810	7500	

12t Standard Mast Load Chart



12t Two-Stage Full Free Lift Mast Load Chart



12t Three-Stage Full Free Lift Mast Load Chart

