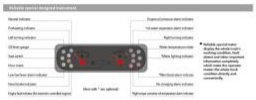
HELI

Ergonomic control designed instrument



Standard configuration

- Horn
- Overall indicator
- Backrest
- Back view mirror
- Front combined lamp
- Transmission oil filter
- Rear combined lamp
- Cantilever-operating brake
- Driver's seat
- Rear combined lamp
- Backrest for seat
- Fully floating full hub drive
- Tilt adjustable steering column
- Overhead guard roof cover
- Steering wheel
- Hydraulic oil filter
- Overhead guard
- Torque converter oil dipstick
- Electric horn
- Electric hydraulic direction changing
- Driver's cab
- Air filter indicator
- High oil-exhausting plume
- Double air cleaner
- Suspension seat
- Length-fixing fork extension
- Fuel filter with water separator
- Solid tyre
- Motion carriage
- Wood shield
- Cleaning muffler
- Exhaust gas muffler
- Fire extinguisher
- Rear working light
- Tilting cylinder sleeve
- Customer-made color
- Optional attachments
- Dust protection net
- Fuel-water separator device
- Rotating bracket for top
- Single-fuel fuel system
- Low speed alarm
- Ship licence

Optional

- Tilting control system
- Fuel-water separator with temperature meter

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Actual product shall prevail if there exist the technical improvement.

HELI

1-1.8 t

H3 series Internal Combustion Counterbalanced Forklift Truck

www.hellicbt.net

H3 SERIES 1-1.8 t

Improved performance superior quality

Vibration 20% reduced

Noise 1.9dB reduced

1. Cushion connection and safety suspension driver's cab absorb shock-load's vibration effectively.
2. Noise around ear is reduced through down the lifting cylinder under the floor board and using fully closed-panel type chain cover.

Workspace 45% increased

1. Space around foot is effectively increased through up steering column and using super-low type inching.
2. The operating space is enlarged by heightened overhead guard and using large access slope of the overhead guard's front leg.
3. Semi-suspension seat, steering wheel with small diameter, steering hydraulic direction changing, and a retractable type double-pedals' combined switch effectively improve driving comfort.

Operator's view 20% improved

1. Operator's front view is improved through the assembling of mast-side view mast and lowering the dashboard.
2. Operator's rear view improved through the CZR optimal designed counterweight.

Working efficiency 20% improved

1. Small turning radius makes steering flexible and easy.
2. The truck has fast lifting speed, good gradeability and high efficiency.
3. The truck has the function of inching control, which is suitable for the operations for various kinds of complicated work condition perfectly whenever at port, dock and railway station.

Reliability 40% improved

1. The low-air-inflow-isolating device, optimal thermal dissipation duct and aluminum plate fin type radiator improve cooling ability and ensure engine work reliability.
2. The adoption of the high-pressure fuel-sprinkler and fitting diametrical tube and process ensure stable multi-valve.
3. The constant displacement pump load steering system increases the maneuverability and ensures the safety of steering.
4. The optimal design of key parts for frame, mast, overhead guard and steering axle improve the whole truck's safety and reliability.
5. The optimal collocation of whole truck gravity center improve backing capacity, stability and safety.

Engine hood open angle increased to 80°

1. Enlarged internal space is convenient for engine and transmission box maintenance.
2. Increased hood open angle contributes to quick and convenient maintenance.

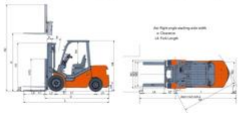
H3 SERIES 1-1.8 t

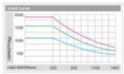
Main features and technical parameters

	Clauses					
1.01	Manufacturer			HELI		
1.02	Model			CPCD1.4/CPQD(F)2.0	CPCD1.6/CPQD(F)2.5	CPCD1.8/CPQD(F)3.0
1.03	Rated capacity	Kg		1000	1500	1800
1.04	Load center	mm			500	
1.05	Operation mode				Seat type	
	Dim					
2.01	Max.lifting height	h	mm		3000	
2.02	free-end height(fork in the ground and mast to vertical)	h1	mm	1995	1995	1995
2.03	Max.fork lifting height(With fork back)	h3	mm		4214	
2.04	Fixed height	h5	mm	152	165	155
2.05	Overall height(Overhead guard)	h6	mm		2140	
2.06	Min.ground clearance(Under mast)	m2	mm		150	
2.07	Distance from the center of the axle to the overhead guard	Wa	mm		1018	
2.08	Tandem car length	d3	mm		203	
2.09	Outer-mast(Included fork) the surface of the truck	A+Δ	mm		1016	
2.10	Overall length(With fork)(Without fork)	(L1)	mm	3101/3277	3201/3281	3211/3291
2.11	Wheel base	L1	mm		1450	
2.12	Front overhang	L2	mm	406	409	409
2.13	Rear overhang	L3	mm	406	412	432
2.14	Overall width	W1	mm		1035	
2.15	Tread(Front/rear)(Rear track)	(W2/W2)	mm	902/928	902/928	902/928
2.16	Fork plate size(Recommend the fork(Max.Min)	W3	mm		90x200	
2.17	Min.turning radius(Outermost)	r	mm	1870	1910	1930
2.18	Min.turning radius(Interior)	r'	mm	60	61	61
2.19	Min.right-angle aisle width	Ast	mm	2511	2516	2535
2.20	Min.right-angle stacking aisle width	Ast	mm	3215	3284	3430
2.21	Max.lifting angle	α/β	(°%)		6°/10°	
2.22	Fork size	(s/e/l)	mm	175×100×32	920×100×35	920×100×35
	Weight					
3.01	Total weight		Kg	2140	2720	2950
3.02	Weight distribution(Loaded/Front/Rear)		Kg	2950/650	3610/510	4020/630
3.03	Weight distribution(Unloaded)(Front/Rear)		Kg	1220/1310	1150/1520	1170/1630
	Wheel and tyre					
4.01	Wheel number or (drive wheel/Front/Rear)				2/2/2	
4.02	Tyre type(Pneu/Rear)				Pneumatic tyre	
4.03	Tyre size(Front/Rear)			6.50-10-10PR(16.0)-10PR	6.50-10-10PR(16.0)-12PR	6.50-10-10PR(16.0)-16PR
4.04	Tyre pressure				Hydraulic/Foot Pedal	
4.05	Tyre(Axle/Rear)				Rim/Hand pull Hand Lever	
4.06	Parking brake					

Performance									
Model		CPCD1.4/CPQD1.4	CPCD1.6/CPQD1.6	CPCD1.8/CPQD1.8	CPQD1.8/CPQD1.8	CPQD1.8/CPQD1.8	CPQD1.8/CPQD1.8	CPQD1.8/CPQD1.8	CPQD1.8/CPQD1.8
Max.drawbar pull (Loaded/Unloaded)	kN	19/12	19/12	19/12	19/7	19/7	19/7	19/11	19/11
Max.Gradeability (Loaded/Unloaded)	%	20/24	20/25	20/32	20/22	20/31	20/30	18/31	15/25
Max.travelling speed (Loaded/Unloaded)	km/h	17/18	17/18	17/19	16/17	16/17	15/17	17/19	17/19
Lifting Speed (Loaded/Unloaded)	mm/s					410/450			
Lowering Speed (Loaded/Unloaded)	mm/s					450/400			
Drive and transmission control device									
Engine model						4G15-1-CNB			
Engine rated power	KW/rpm					31.5/2200			
Engine rated torque	Nm/rpm					142/1900			
Engine cylinder number-bore/stroke						4-BA-100			
Engine displacement	L					2.367			
Engine type						Diesel			
Emission						Euro III/GB III			
Rated discharge Capacity	KW/r					31/48			
Engine fuel tank capacity	L					40			
Transmission form of the gear(Front/Rear type)						1-Phase-Shift-TOR			

Engine Model and Main Specification for Option						
Engine model	Rated power/ rotating speed (Net/rpm)	Rated power/ rotating speed (Gross/rpm)	Engine displacement (L)	Cylinder number -Bore-Stroke	Engine type	Emission
4G15 -NA	31kw/2400	36kW/2400	1.486	4-75.5-83	4JG2(4G)	
QUANCHAI 4B1-49/32	32/2400	35/2400	2.237	4-88-92	Diesel	CHINA Stage III
ANC(NAVE)-4B2/32A	33/2400	35/2400	2.371	4-89-95	Diesel	CHINA Stage III
KUBOTA WG2503	D/W-WG2503BE -VPL-FC-CC1-EU3	D/W-WG2503BE -VPL-FC-CC1-EU3	2.491	4-98.4-102.4	D/W(EUR)	EPA/CHINA / EU Stage3
QUANCHAI 4JB -49/42	35/2400	39/2400	2.54	4-96/100	Diesel	CHINA Stage III





Note: The vertical axis stands for load capacity and the horizontal axis stands for load center distance measured from the front face of the fork to the back of the vertical section of the fork. The distance between the load center of gravity and the fork arm determines the maximum lifting height of a truck. When load center(Screen) remains within fork range or load with max rated capacity, truck capacity will be rated and CPQD series truck capacity in different load center can be known in one through load chart.

Model	No. of Rollers	load capacity/load center 500mm/ kg			max.mast height/ free lift(mast) mm		mono-mast/ kg			wandering aisle (7.5°) mm
		1.0t	1.5t	1.8t	mast	free lift	1.0t	1.5t	1.8t	
M20G	2360	1000	1500	1800	1995	1470	2430	2760		≤ 1.7
M30G	2360	1000	1500	1800	1995	1745	2720	3080	3510	≤ 1.7
M35G	2360	1000	1500	1800	2145	1745	2720	3080	3510	≤ 1.7
M40G	2360	1000	1500	1800	2145	1745	2720	3080	3510	≤ 1.7
M45G	2360	1000	1500	1800	2295	2160	2720	3080	3510	≤ 1.7
M50G	2360	1000	1500	1800	2295	2160	2720	3080	3510	≤ 1.7
M55G	4004	1000	1500	1800	2295	2435	2720	3080	3510	≤ 1.7
M60G	4004	1000	1500	1800	2295	2435	2720	3080	3510	≤ 1.7
M70G	4004	1000	1500	1800	2295	2435	2720	3080	3510	≤ 1.7
M80G	4004	1000	1500	1800	2295	2435	2720	3080	3510	≤ 1.7
M90G	4360	1000	1500	1800	2295	2435	2720	3080	3510	≤ 1.7
M100G	4360	1000	1500	1800	2295	2435	2720	3080	3510	≤ 1.7
M40H	4360	1000	1500	1800	2295	2435	2720	3080	3510	≤ 1.7

Note: 1.5T fork for the cabin capacity plus the front part is duralumin. 2.Without the fork,but all the 1.5T truck is duralumin,the mono-weight of the truck is the weight of the truck plus 90kg.

Model	No. of Rollers	load capacity/load center 500mm/ kg			max.mast height/ free lift(mast) mm		mono-mast/ kg			wandering aisle (7.5°) mm
		1.0t	1.5t	1.8t	mast	free lift	1.0t	1.5t	1.8t	
ZM20G	3004	1000	1500	1800	1995	1470	2720	3080	3510	≤ 1.7
ZM30G	3004	1000	1500	1800	1995	1745	2720	3080	3510	≤ 1.7
ZM35G	3004	1000	1500	1800	2145	1745	2720	3080	3510	≤ 1.7
ZM40G	3004	1000	1500	1800	2145	1745	2720	3080	3510	≤ 1.7
ZM45G	3004	1000	1500	1800	2295	2160	2720	3080	3510	≤ 1.7
ZM50G	3004	1000	1500	1800	2295	2160	2720	3080	3510	≤ 1.7
ZM55G	4004	1000	1500	1800	2295	2435	2720	3080	3510	≤ 1.7
ZM60G	4004	1000	1500	1800	2295	2435	2720	3080	3510	≤ 1.7
ZM70G	4004	1000	1500	1800	2295	2435	2720	3080	3510	≤ 1.7
ZM80G	4360	1000	1500	1800	2295	2435	2720	3080	3510	≤ 1.7
ZM90G	4360	1000	1500	1800	2295	2435	2720	3080	3510	≤ 1.7
ZM100G	4360	1000	1500	1800	2295	2435	2720	3080	3510	≤ 1.7
ZM40H	4360	1000	1500	1800	2295	2435	2720	3080	3510	≤ 1.7

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		1.0t	1.5t	1.8t	mast	free lift	1.0t	1.5t	1.8t	
ZM20G	3430	1000	1500	1800	1995	1745	2720	3080	3510	≤ 1.7
ZM30G	3430	1000	1500	1800	2145	1745	2720	3080	3510	≤ 1.7
ZM35G	4030	1000	1500	1800	2145	1745	2720	3080	3510	≤ 1.7
ZM40G	4030	1000	1500	1800	2145	1745	2720	3080	3510	≤ 1.7
ZM45G	4030	1000	1500	1800	2295	2160	2720	3080	3510	≤ 1.7
ZM50G	4030	1000	1500	1800	2295	2160	2720	3080	3510	≤ 1.7
ZM55G	4030	1000	1500	1800	2295	2435	2720	3080	3510	≤ 1.7
ZM60G	4030	1000	1500	1800	2295	2435	2720	3080	3510	≤ 1.7
ZM70G	4030	1000	1500	1800	2295	2435	2720	3080	3510	≤ 1.7
ZM80G	4030	1000	1500	1800	2295	2435	2720	3080	3510	≤ 1.7
ZM90G	4030	1000	1500	1800	2295	2435	2720	3080	3510	≤ 1.7
ZM100G	4030	1000	1500	1800	2295	2435	2720	3080	3510	≤ 1.7
ZM40H	4030	1000	1500	1800	2295	2435	2720	3080	3510	≤ 1.7

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