

HELI

Reliable special designed instrument



Standard configuration

Horn
Control valve
Wheely hydraulic-powered steering
Half enclosed seat
Backrest
Back view mirror
Front combined lamp
Transmission oil filter
Engine flame out device
Cable type parking brake
Driver's tool
Rear combined lamp
Backward buzzer
Tilt oil circuit self lock valve
Tilt adjustable steering column
Overhead guard rain cover

Optional

Standard fork
Integrated electric box
Hydraulic oil circuit filter
Flow regulator
Wide view mast
Air intake device
Durable tread tyre
Lifting and tilting operation lever
Traction pin
Wind shield
Hydraulic oil dipstick
Fire extinguisher
Torque converter oil dipstick
Combined instrument
Electro-hydraulic direction changing

Driver's cab
Warning light
High air exhausting device
Double air cleaner
Suspension seat
Lengthening fork extension
Warm air blower
Solid tyre
Wider fork arm carrier
Wind shield
Cleaning muffler
Fire extinguisher
Rear working light
Air conditioner (certain type)
Travelling control system

Torque converter oil temperature meter
Tilting cylinder bush
Customer made color
Optional attachments
Steel protection net
Double tyre and protection device
Rotating seat for leg
Single/dual fuel system
Low speed alarm



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* Our products are subject to improvements and changes without notice.

HELI

2-3.5 t

H3 series Internal Combustion Counterbalanced Forklift Truck



www.heliforklift.net

H3 SERIES 2-3.5 t

Improved performance, superior quality



Vibration 20% reduced Noise 3dB reduced

- > Cushion connection and wholly suspension driver's cab absorb whole truck's vibration effectively.
- > Noise around ear is reduced through down the tilting cylinder under the floor board and using fully closed patch type driver's cab.
- > Lower damping device inside the lifting system reduces mass shock and vibration, avoiding crash noise caused by goods falling to the ground.

Workspace 45% increased

- > Space around foot is effectively increased through up steering unit and using suspension type inching.
- > The operation space is enlarged by heightened overhead guard and using large arc shape of the overhead guard's front leg.
- > Semi-suspension seat, steering wheel with small diameter, electro-hydraulic direction changing and automobile type double joystick combined switch effectively improve driving comfort.

Operator's view 20% improved

- > Operator's front view is improved through the assembling of stand wide view mast and lowering the dashboard.
- > Operator's rear view improved through the CAE optimal designed counterweight.



Working efficiency 20% improved

- > Small turning radius makes steering flexible and easy.
- > The truck has fast lifting speed, good gradeability and high efficiency.
- > High working efficiency guarantees the truck could meet the requirements for various kinds of complicated work condition perfectly wherever at port, dock and railway station.

Loading capacity increased over 5%

Stability 5% improved

Reliability 40% improved

- > The hot air reflow isolating device, optimal thermal dissipation duct and aluminum plate-fin type radiator improve cooling ability and ensure engine work reliability.
- > Automobile type oil filling cap and optimal oil filling channel structure and process ensure whole truck's safety.
- > The constant displacement pump load sensing steering system increases the lifting speed and reduces the hydraulic oil temperature.
- > The optimal design of key parts like frame, mast, overhead guard and steering axle improve the whole truck's safety and reliability.
- > The repositioning of whole truck's gravity center improve loading capacity, stability and safety.

Engine hood open angle increased to 80°

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

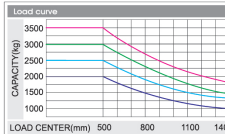
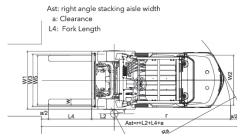
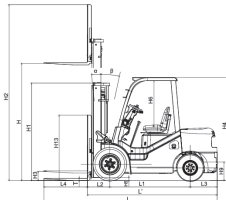


H3 SERIES 2-3.5 t



Manufacturer and technical parameters

Character			HEU			
1.01	Manufacturer					
1.02	Model		CP230 / CP235 / CP2400 / CP2410 / CP2420	CP235 / CP235 / CP2400 / CP2410 / CP2420	CP230 / CP235 / CP2400 / CP2410 / CP2420	CP235 / CP235 / CP2400 / CP2410 / CP2420
1.03	Rated capacity	kg	2000	2500	3000	3500
1.04	Load center	mm	500			
1.05	Operation mode		Seat-type			
Size						
2.01	Max.lifting height	H	mm	3000	3000	3000
2.02	Max overall height(Fork to the ground and mast be vertical)	H1	mm	2000	2000	2065
2.03	Max.fork lifting height(With backrest)	H2	mm	4030	4030	4245
2.04	Free lift height	H3	mm	165	165	160
2.05	Overall height(Overhead guard)	H4	mm	2150	2150	2170
2.06	Min.ground clearance(At the mast)	H5	mm	115	115	135
2.07	Distance from the surface of the seat to the overhead guard	H6	mm	1030	1030	1030
2.08	Traction pin height	H9	mm	275	275	280
2.09	Backrest height(Calculated from the surface of the fork)	H13	mm	1000	1000	1222
2.10	Overall length(With fork/Without fork)	(L/L1)	mm	3500/2580	3708/2638	3818/2748
2.11	Wheel base	L1	mm	1650	1650	1700
2.12	Front overhang	L2	mm	473	473	478
2.13	Rear overhang	L3	mm	457	515	570
2.14	Overall width	W1	mm	1150	1150	1225
2.15	Thread (Front tread/Rear tread)	(R/R2/R3)	mm	970/970	970/970	1000/970
2.16	Fork adjustable reach(the external of the fork)(Max./Min.)	W5	mm	1030/244	1030/244	1060/250
2.17	Min.turning radius(Exterior)	r	mm	2170	2240	2400
2.18	Min.turning radius(Interior)	r'	mm	180	180	200
2.19	Min.right angle stacking aisle width	Ra	mm	2200	2280	2400
2.20	Max.tilting angle	α / β	°	6°/12°	6°/12°	6°/12°
2.21	Fork size	L4=W4	mm	920×122×40	1070×122×40	1070×125×45
Weight						
3.01	Total weight	kg	3370	3740	4340	4700
3.02	Weight distribution (loaded /Front/Rear)	kg	4740/630	5440/900	6440/900	7380/820
3.03	Weight distribution (unloaded /Front/Rear)	kg	1570/1800	1520/2220	1700/2640	1850/2850
Wheel and tyre						
4.01	Wheel number x = drive wheel (Front/Rear)	2X/2				
4.02	Tyre type (Front/Rear)	Pneumatic tyre				
4.03	Tyre size (Front/Rear)	7.00-12 12PR/ 6.00-9 10PR 28+9 15 12PR/ 6.50-10 10PR 28+9 15 14PR/ 6.50-10 10PR				
4.04	Service brake	Hydraulic Foot Pedal				
4.05	Parking brake	Mechanical Hand Lever				



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 1000mm length of size. 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.

WIDE VIEW MAST																								
Model	Max. lifting height (mm)	Load capacity (load center 500mm)					Max overall height (fork to the ground)			Service weight					Max. lifting angle (°)									
		CP2300 (CP2300)	CP2350 (CP2350)	CP2400 (CP2400)	CP2410 (CP2410)	CP2420 (CP2420)	2-2.5t	3t	3.5t	CP2300 (CP2300)	CP2350 (CP2350)	CP2400 (CP2400)	CP2410 (CP2410)	CP2420 (CP2420)										
M200	2000	2000	2500	3000	3500	3500	1495	1570	1680	3280	3650	4250	4610	4610										
M250	2500	2000	2500	3000	3500	3500	1745	1820	1930	3330	3700	4300	4650	4650										
M300	3000	2000	2500	3000	3500	3500	1995	2060	2180	3370	3740	4340	4700	4700										
M350	3500	2000	2500	3000	3500	3500	2145	2220	2330	3400	3770	4360	4730	4730										
M400	4000	2000	2500	3000	3500	3500	2245	2320	2430	3420	3790	4380	4750	4750										
M370	3700	2000	2500	3000	3500	3500	2345	2420	2530	3430	3800	4400	4760	4760										
M450	4500	2000	2500	3000	3500	3500	2545	2620	2730	3510	3880	4480	4840	4840										
M425	4250	2000	2500	3000	3500	3500	2670	2745	2855	3530	3900	4500	4870	4870										
M500	5000	2000	2500	3000	3500	3500	2795	2870	2980	3560	3930	4530	4900	4900										
M550	5500	2000	2500	3000	3500	3500	3045	3120	3230	3600	3970	4570	4940	4940										
M550	5500	+	+	+	+	+	3345	3420	3530	3700	4070	4670	4990	4990										
M600	6000	+	+	+	+	+	3595	3670	3780	3740	4110	4710	5040	5040										

Note: (1) *stands for the rated capacity when the front tyre is double-tyre. (2) When the front tyre of the 2-3.5t truck is double-tyre, the service weight of the truck is the weight in the table plus 110kg.

Performance																
Model		CP230	CP235	CP2400	CP2410	CP2420	CP230	CP235	CP2400	CP2410	CP2420	CP230	CP235	CP2400	CP2410	CP2420
Max. drawbar pull (Loaded/Unloaded)	kN	14.5/12.3	16/12.8	18/12.4	18/12.4	18/12.4	18/12.4	18/12.4	18/12.4	18/12.4	18/12.4	18/12.4	18/12.4	18/12.4	18/12.4	18/12.4
Max. Gradeability (Loaded/Unloaded)*	%	30/25	30/28	31/23	35/23	35/23	35/23	35/23	35/23	35/23	35/23	35/23	35/23	35/23	35/23	35/23
Max. traveling speed (Loaded/Unloaded)	km/h	17/19	17/19	17/19	17/19	17/19	17/19	17/19	17/19	17/19	17/19	17/19	17/19	17/19	17/19	17/19
Lifting Speed (Loaded/Unloaded)	mm/s	560/600	560/600	560/600	560/600	560/600	560/600	560/600	560/600	560/600	560/600	560/600	560/600	560/600	560/600	560/600
Lowing Speed (Loaded/Unloaded)	mm/s	450/500	450/500	450/500	450/500	450/500	450/500	450/500	450/500	450/500	450/500	450/500	450/500	450/500	450/500	450/500
Drive and transmission control device		ISUZU C240														
Engine model		ISUZU C240														
Engine rated power	kW/rpm	35.4/2500														
Engine rated torque	Nm/rpm	139.9/1800														
Engine cylinder number-bore/stroke		4.8x102														
Engine displacement	L	2.369														
Engine type		Diesel														
Emission		Euro Stage IIIA														
Battery(Voltage/Capacity)	V/Ah	12/60														
Engine fuel tank capacity	L	60														
Technical accessories		1-1 Power Shift T/M / 2-2 Manual Shift T/M														

Engine Model and Main Specification for Option		Rated power/ rotating speed (kW/rpm)		Rated power/ rotating speed (N/m/rpm)		Engine displacement (L)		Engine cylinder number		Cylinder number - BorexStroke		Engine type		Emission	
Engine model		Rated power/ rotating speed (kW/rpm)	Rated power/ rotating speed (N/m/rpm)	Engine displacement (L)	Engine cylinder number	Cylinder number - BorexStroke	Engine type	Emission							
ISUZU 4JG2		35/2450	170/1700	3.05	4	4.95x107	Diesel	Euro Stage II A							
KUBOTA V2403		34.1/2400	155.9/1600	2.434	4	4.87x102.4	Diesel	Euro Tier II A/EPA Tier II							
Commins QSF2.8		36/2500	186/1100-1500	2.8	4	4.94x100	Diesel	Euro Tier III A							
Commins QSF2.8		43/2500	186/1100-1500	2.8	4	4.94x100	Diesel	Euro Tier III A							
DAIHATSU CA2498		45/2500	196/1800	3.168	4	4.96x105	Diesel	-							
JMC H49P3		39/2500	165/1800	2.771	4	4.93x102	Diesel	-							
JMC H49P3G3		36.5/2500	156/1800	2.771	4	4.93x102	Diesel	Euro Tier III A							
GCT K21		31.2/2200	143.7/1600	2.065	4	4.89x83	Gasoline or LPG	-							
Mitsubishi 6G64		GAS-48/2700	LPG-46/2700	GAS-170/2400	LPG-168/1600	2.351	4	4.86x100	Gasoline or LPG						
Mitsubishi S4S		35.3/2250	177/1700	3.331	4	4.94x120	Diesel	Euro Stage II A							
KUBOTA V2403 CR-TE18		42.6/2400	195.6/1500	2.434	4	4.87x102.4	Diesel	Euro stage V/EPA Tier IV							
KUBOTA WG2503		GAS-42.8/2600	LPG-43.5/2600	GAS-163.3/1800	LPG-173.7/1400	2.491	4	4.88x102.4	Gasoline or LPG						

WIDE VIEW FULL FREE 2-STAGE MAXT																							
Max model	Max lifting height (mm)	Load capacity (load center 500mm)					Max overall height (fork to the ground)(mm)					Free lifting height (with backhoe)(mm)					Service weight(kg)					Max lifting angle (°)	
		CP2300	CP2350	CP2400	CP2410	CP2420	2-2.5t	3t	3.5t	2-2.5t	3t	3.5t	CP2300	CP2350	CP2400	CP2410	CP2420						
M2000	2000	2000	2500	3000	3500	3500	1495	1570	1680	495	340	440	3300	3670	4270	4660	670						
M2500	2500	2000	2500	3000	3500	3500	1745	1820	1930	545	390	470	3380	3730	4370	4740	670						
M3000	3000	2000	2500	3000	3500	3500	1995	2060	2180	595	440	560	3430	3800	4430	4750	670						
M3500	3500	2000	2500	3000	3500	3500	2145	2220	2330	645	490	610	3480	3850	4480	4800	670						
M4000	4000	2000	2500	3000	3500	3500	2395	2470	2580	695	540	660	3530	3900	4530	4850	670						
M4500	4500	2000	2500	3000	3500	3500	2645	2720	2830	745	590	710	3580	3950	4580	4900	670						
M5000	5000	2000	2500	3000	3500	3500	2895	2970	3080	795	640	760	3630	4000	4630	4950	670						
M2000	2000	2000	2500	3000	3500	3500	2145	2220	2330	1495	1570	1680	3330	3700	4300	4650	670						
M2500	2500	2000	2500	3000	3500	3500	2395	2470	2580	1745	1820	1930	3380	3730	4370	4740	670						
M3000	3000	2000	2500	3000	3500	3500	2645	2720	2830	1995	2060	2180	3430	3800	4430	4750	670						
M3500	3500	2000	2500	3000	3500	3500	2895	2970	3080	2145	2220	2330	3480	3850	4480	4800	670						
M4000	4000	2000	2500	3000	3500	3500	3145	3220	3330	2395	2470	2580	3530	3900	4530	4850	670						
M4500	4500	2000	2500	3000	3500	3500	3395	3470	3580	2645	2720	2830	3580	3950	4580	4900	670						
M5000	5000	2000	2500	3000	3500	3500	3645	3720	3830	2895	2970	3080	3630	4000	4630	4950	670						
M2000	2000	2000	2500	3000	3500	3500	2145	2220	2330	1495	1570	1680	3330	3700	4300	4650	670						
M2500	2500	2000	2500	3000	3500	3500	2395	2470	2580	1745	1820	1930	3380	3730	4370	4740	670						
M3000	3000	2000	2500	3000	3500	3500	2645	2720	2830	1995	2060	2180	3430	3800	4430	4750	670						
M3500	3500	2000	2500	3000	3500	3500	2895	2970	3080	2145	2220	2330	3480	3850	4480	4800	670						
M4000	4000	2000	2500	3000	3500	3500	3145	3220	3330	2395	2470	2580	3530	3900	4530	4850	670						
M4500	4500	2000	2500	3000	3500	3500	3395	3470	3580	2645	2720	2830	3580	3950	4580	4900	670						
M5000	5000	2000	2500	3000	3500	3500	3645	3720	3830	2895	2970	3080	3630	4000	4630	4950	670						