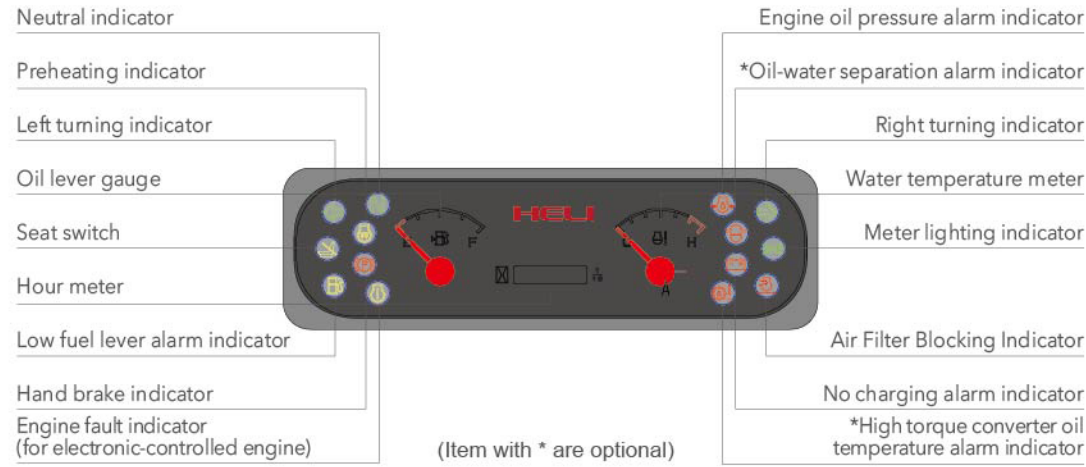


Reliable special designed instrument



Reliable special meter display the whole truck's working condition, fault detect and other important information completely which make the operator master the whole truck condition directly and conveniently.

2-3.8 t

H3 series Internal Combustion Counterbalanced Forklift Truck

Standard configuration Optional

Horn	Standard fork	Driver's cab	Torque converter oil temperature meter
Control valve	Integrated electric box	Warning light	Tilting cylinder bush
Wholly hydraulic-powered steering	Hydraulic oil circuit filter	High air exhausting device	Customer made color
Half enclosed seat	Flow regulator	Double air cleaner	Optional attachments
Backrest	Wide view mast	Suspension seat	Steel protection net
Back view mirror	Air intaking device	Lengthening fork extension	Double-tyre and protection device
Front combined lamp	Durable tread tyre	Warm air blower	Rotating seat for lpg
Transmission oil filter	Lifting and tilting operation lever	Solid tyre	Single/dual fuel system
Engine flame out device	Traction pin	Widen fork arm carrier	Low speed alarm
Cable type parking brake	Head lamp	Wind shield	
Driver's tool	Hydraulic oil dipstick	Cleansing muffler	
Rear combined lamp	Overhead guard	Fire extinguisher muffler	
Backward buzzer	Torque converter oil dipstick	Fire extinguisher	
Tilt oil circuit self lock valve	Combined instrument	Rear working light	
Tilt adjustable steering column	Electro-hydraulic direction changing	Air conditioner (certain type)	
Overhead guard rain cover		Travelling control system	



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H3 SERIES 2-3.8 t

Improved performance, superior quality



↓ Vibration reduced

↓ Noise 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 mast shock and vibration, avoiding crash noise caused by goods falling to the ground.

↑ Workspace 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 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 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

↑ Stability improved

↑ Reliability 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.

↑ Increased hood opening angle

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

HELI smart fleet management system (optional)

- Vehicle positioning
- Remote diagnosis
- Remote monitoring
- Maintenance reminder
- Battery management
- Statistical form
- Vehicle management
- Identification recognition (optional)
- Weight management (optional)
- Collision management (optional)

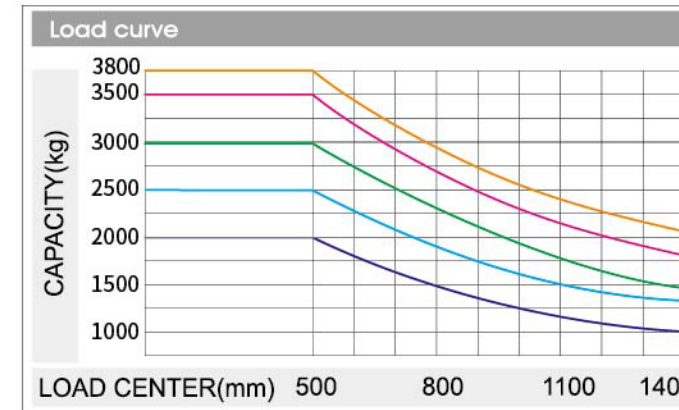
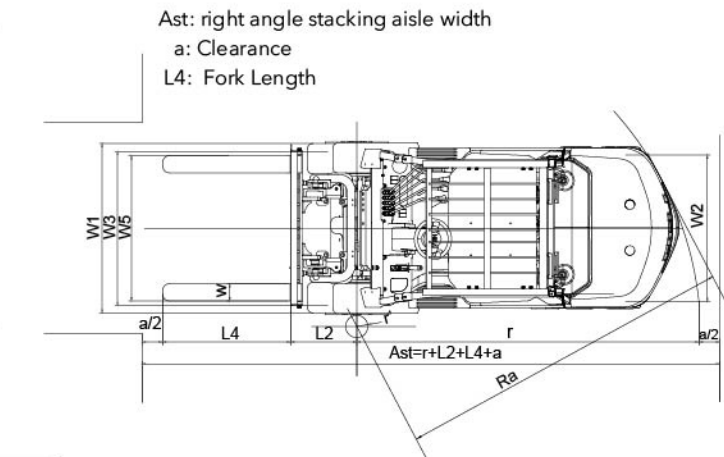
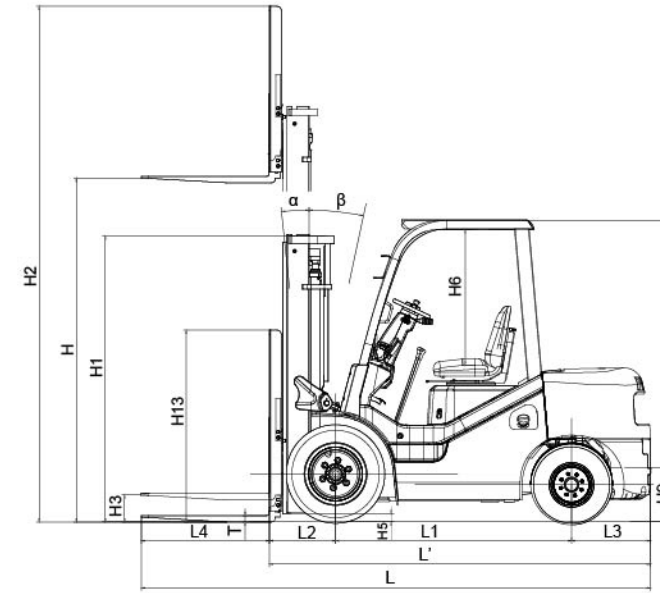


H3 SERIES 2-3.8t



Manufacturer and technical parameters

Character		HELI						
1.01	Manufacturer	HELI						
1.02	Model	CPC20 / CPCD20 / CP(Q)(Y)D20 / CP(Q)(Y)D20	CPC25 / CPCD25 / CP(Q)(Y)D25 / CP(Q)(Y)D25	CPC30 / CPCD30 / CP(Q)(Y)D30 / CP(Q)(Y)D30	CPC35 / CPCD35 / CP(Q)(Y)D35 / CP(Q)(Y)D35	CPC(D)38		
1.03	Rated capacity	kg	2000	2500	3000	3500	3800	
1.04	Load center	mm	500					
1.05	Operation mode	Seat-type						
Size								
2.01	Max.lifting height	H	mm	3000	3000	3000	3000	3000
2.02	Mast overall height (Fork to the ground and mast be vertical)	H1	mm	2000	2000	2065	2180	2180
2.03	Max.fork lifting height(With backrest)	H2	mm	4030	4030	4245	4235	4235
2.04	Free lift height	H3	mm	165	165	160	170	170
2.05	Overall height (Overhead guard)	H4	mm	2150	2150	2170	2170	2170
2.06	Min.ground clearance (At the mast)	H5	mm	115	115	135	135	135
2.07	Distance from the surface of the seat to the overhead guard	H6	mm	1030	1030	1030	1030	1030
2.08	Traction pin height	H9	mm	275	275	280	280	280
2.09	Backrest height (Calculated from the surface of the fork)	H13	mm	1000	1000	1227	1222	1222
2.10	Overall length (With fork/Without fork)	(L/L')	mm	3500/2580	3708/2638	3818/2748	3836/2766	3860/2790
2.11	Wheel base	L1	mm	1650	1650	1700	1700	1700
2.12	Front overhang	L2	mm	473	473	478	496	484
2.13	Rear overhang	L3	mm	457	515	570	570	602
2.14	Overall width	W1	mm	1150	1150	1225	1225	1225
2.15	Tread (Front tread/Rear tread)	(W3/W2)	mm	970/970	970/970	1000/970	1000/970	1000/970
2.16	Fork adjustable range (the external of the fork) (Max./Min.)	W5	mm	1030/244	1030/244	1060/250	1060/250	1060/250
2.17	Min.turning radius (Exterior)	r	mm	2170	2240	2400	2420	2480
2.18	Min.turning radius (Interior)	r'	mm	180	180	200	200	200
2.19	Min.right angle stacking aisle width	Ra	mm	2200	2280	2380	2400	2470
2.20	Mast tilting angle	α / β	%	6°/12°	6°/12°	6°/12°	6°/12°	6/12
2.21	Fork size	L4×W×T	mm	920×122×40	1070×122×40	1070×125×45	1070×125×50	1070×125×50
Weight								
3.01	Total weight	kg	3370	3740	4340	4700	4930	
3.02	Weight distribution loaded (Front/Rear)	kg	4740/630	5440/800	6440/900	7380/820	7630/1100	
3.03	Weight distribution unloaded (Front/Rear)	kg	1570/1800	1520/2220	1700/2640	1850/2850	1630/3300	
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	7.00-12-12PR/6.00-9-10PR	28×9-15-12PR/6.50-10-10PR	28×9-15-14PR/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						



■ CP(Q)(Y)20
■ CP(Q)(Y)D20
■ CPC20
■ CPCD20
■ CP(Q)(Y)25
■ CP(Q)(Y)D25
■ CPC25
■ CPCD25
■ CP(Q)(Y)30
■ CP(Q)(Y)D30
■ CPC30
■ CPCD30
■ CP(Q)(Y)35
■ CP(Q)(Y)D35
■ CPC35
■ CPCD35
■ CPC(D)38

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 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.

WIDE VIEW MAST

Mast model	Max. lifting height mm	Load capacity (load center 500mm)					Mast overall height (fork to the ground)				Service weight					Mast tilting angle (°) α / β
		2t	2.5t	3t	3.5t	3.8t	2-2.5t	3t	3.5t	3.8t	2t	2.5t	3t	3.5t	3.8t	
M200	2000	2000	2500	3000	3500	3800	1459	1570	1680	1680	3280	3650	4250	4610	4840	6/12
M250	2500	2000	2500	3000	3500	3800	1745	1820	1930	1930	3330	3700	4300	4650	4880	6/12
M300	3000	2000	2500	3000	3500	3800	1995	2080	2180	2180	3370	3740	4340	4700	4930	6/12
M330	3300	2000	2500	3000	3500	3800	2145	2220	2330	2330	3400	3770	4360	4730	4960	6/12
M350	3500	2000	2500	3000	3500	3800	2245	2320	2430	2430	3420	3790	4380	4750	4980	6/12
M370	3700	2000	2500	3000	3500	3800	2345	2420	2530	2530	3430	3800	4400	4760	4990	6/12
M400	4000	2000	2400	3000	3450	3800	2545	2620	2730	2730	3510	3880	4490	4840	5070	6/12
M425	4250	2000	2250	3000	3400	3600	2670	2745	2855	2855	3530	3900	4510	4870	5100	6/6
M450	4500	1950	2150	3000	3400	3400	2795	2870	2980	2980	3560	3930	4540	4900	5130	6/6
M500	5000	1700	1800	2500	2800	2900	3045	3120	3230	3230	3600	3970	4580	4950	5090	6/6
M550	5500	*1750	*2100	*2500	*2800	-	3345	3420	3530	3530	3700	4070	4690	4990	5220	*6/6
M600	6000	*1700	*1800	*2200	*2350	-	3595	3670	3780	3780	3740	4110	4730	5040	5270	*6/6

Note: (1) *stands for the rated capacity when the front tyre is double-tyre. (2) When the front tyre of the 2-3.8t truck is double tyre, the service weight of the truck is the weight in the table plus 110kg.

Performance																					
Model		CPC20	CPCD20	CPC25	CPCD25	CPC30	CPCD30	CPC35	CPCD35	CPC38	CPCD38	CP(Q)(Y)20	CP(Q)(Y)D20	CP(Q)(Y)25	CP(Q)(Y)D25	CP(Q)(Y)30	CP(Q)(Y)D30	CP(Q)(Y)35	CP(Q)(Y)D35		
Max.drawbar pull (Loaded/Unloaded)	kN	17.5/12.3	19/12.8	18/12.4	18.7/13.8	18.7/14.5	19/14.5	18/14.5	21/14.5	23/15	23/15	15/12.5	16/12.8	15/12.3	16.5/12.4	17/13.5	18/13.5	18/13.5	20/13.5		
Max.Gradeability (Loaded/Unloaded)	%	30/25	39/28	27/23	35/23	21/23	29/22	15/22	23/22	27/32	27/32	30/25	39/28	27/23	35/23	21/23	29/22	15/22	23/22		
Max.traveling speed (Loaded/Unloaded)	km/h	17/19		17/19		19/20		19/19		20/19		17/19		17/19		19/20		19/20			
Lifting Speed (Loaded/Unloaded)	mm/s	560/600		560/600		500/550		400/420		450/480		520/570		520/570		420/480		370/410			
Lowing Speed (Loaded/Unloaded)	mm/s	450/500		450/500		450/550		350/400		460/540		450/500		450/500		450/550		350/400			
Drive and transmission control device																					
Engine mode		ISUZU C240					ISUZU 4JG2					QUANCHAI 4C4-63C31					GCT K25				
Engine rated power	kW/rpm	35.4/2500					44.9/2450					46/2500					37.4/2400				
Engine rated torque	Nm/rpm	139.9/1800					184.7/1600-1800					200/1500-1875					176.5/1600				
Engine cylinder number-borexstroke		4-86×102					4-95.4×107					4-98×105					4-89×100				
Engine displacement	L	2.369					3.059					3.17					2.488				
Engine type		Diesel										Gasoline or LPG									
Emission		Euro Stage IIIA / China Stage III							Euro Stage IIIA			China Stage III									
Battery(Voltage/Capacity)	V/Ah	12/80							12/60												
Engine fuel tank capacity	L	60																			
Transmission box shifting gears (Front/Rear type)		1-1Power Shift T/M / 2-2 Manual Shift T/M																			

Note: * indicates the theoretical calculation value.

Engine Model and Main Specification for Option							
Engine model	Rated power/rotating speed(Kw/rpm)	Torque (Nm/rpm)	Displacement	Cylinder number	Cylinder number-Bore×stock	Engine type	Emission
ISUZU 4JG2	35/2450	170/1700	3.059	4	4-95.4x107	Diesel	Euro Stage IIIA/China Stage III
CA498 DACHAI CA498	45/2500	196/1800	3.168	4	4-98x105	Diesel	China Stage III
GCT K21	31.2/2200	143.7/1600	2.065	4	4-89x83	Gasoline or LPG	
QSF2.8 Cummins QSF2.8	36/2500	186/1100~1500	2.8	4	4-94x100	Diesel	Euro IIIA/Beijing IV/ CHINA STAGE III
QSF2.8 Cummins QSF2.8	43/2500	186/1100~1500	2.8	4	4-94x100	Diesel	Euro Stage IIIA/ China Stage III
4C3-60C31 QUANCHAI 4C3-60C31	42/2500	190/1800	2.97	4	4-95×105	Diesel	China Stage III
4D32XG30 XINCHAI 4D32XG30	45/2500	200/1500~1800	3.168	4	4-98x105	Diesel	China Stage III
Mitsubishi 4G64 (PSI)	GAS: 48/2700 LPG: 46/2700	GAS: 170/2400 LPG: 168/1600	2.351	4	4-86.5×100	Gasoline or LPG	CARB4
Mitsubishi S4S	35.3/2250	177/1700	3.331	4	4-94×120	Diesel	Euro Stage IIIA/ China Stage III
HJ493G43	36.5/2500	156/1800	2.771	4	4-93×102	Diesel	Euro Stage IIIA/ China Stage III
QUANCHAI 4C4-63C31	46/2500	200/1500-1875	3.17	4	4-98x105	Diesel	China Stage III
QUANCHAI QC498G	46/2500	185/1800-2000	3.17	4	4-98x105	Diesel	China Stage II

WIDE VIEW FULL FREE 2-STAGE MAST																				
Mast model	Max. lifting height (mm)	Load capacity (load center 500mm)					Mast overall height (fork to the ground)(mm)				Free lifting height (with backrest)(mm)				Service weight(kg)					Mast tilting angle (°) α / β
		2t	2.5t	3t	3.5t	3.8t	2-2.5t	3t	3.5t	3.8t	2-2.5t	3t	3.5t	3.8t	2t	2.5t	3t	3.5t	3.8t	
ZM200	2000	2000	2500	3000	3500	3800	1459	1570	1680	1680	495	340	460	503	3300	3670	4270	4660	4890	6/12
ZM250	2500	2000	2500	3000	3500	3800	1745	1820	1930	1930	745	590	710	753	3360	3730	4310	4700	4930	6/12
ZM300	3000	2000	2500	3000	3500	3800	1995	2070	2180	2180	995	840	960	1003	3430	3800	4360	4750	4980	6/12
ZM330	3300	2000	2500	3000	3500	3800	2145	2220	2330	2330	1145	990	1110	1153	3470	3840	4390	4780	5010	6/12
ZM350	3500	2000	2500	3000	3500	3800	2245	2320	2430	2430	1245	1090	1210	1253	3500	3870	4410	4800	5030	6/12
ZM370	3700	2000	2500	3000	3500	3800	2345	2420	2530	2530	1345	1190	1310	1353	3520	3890	4430	4810	5040	6/12
ZM400	4000	2000	2400	3000	3450	3800	2545	2620	2730	2730	1545	1390	1510	1553	3610	3980	4500	4890	5120	6/12
ZM425	4250	2000	2250	2500	3000	3600	2670	2745	2855	2855	1670	1515	1635	1678	3650	4020	4530	4920	5150	6/6
ZM450	4500	1950	2050	2500	3000	3400	2795	2870	2980	2980	1795	1640	1760	1803	3680	4050	4550	4960	5190	6/6
ZM500	5000	1700	1800	2500	2800	2900	3045	3120	3230	3230	2045	1890	2010	2053	3750	4120	4600	5000	5230	6/6
ZM550	5500	*1750	*2100	*2500	*2800	-	3345	3420	3530	3530	2345	2190	2310	2353	3860	4230	4690	5040	5270	*3/6
ZM600	6000	*1700	*1800	*2200	*2350	-	3595	3670	3780	3780	2595	2440	2560	2603	3930	4300	4740	5090	5320	*3/6

Note: (1) *stands for the rated capacity when the front tyre is double-tyre.
(2) When the front tyre of the 2-3.8t truck is double tyre, the service weight of the truck is the weight in the table plus 110kg.
(3) The free lifting height (without backrest) of the 2-2.5t truck is the height (with backrest) in the table plus 432mm. The free lifting height (without backrest) of the 3t truck is the height (with backrest) in the table plus 568mm. The free lifting height (without backrest) of the 3.5-3.8t truck is the height (with backrest) in the table plus 505mm.

WIDE VIEW FULL FREE 3-STAGE MAST																			
Mast model	Max. lifting height (mm)	Load capacity (load center 500mm)					Mast overall height (fork to the ground)(mm)			Free lifting height (with backrest)(mm)				Service weight(kg)					Mast tilting angle (°) α / β
		2t	2.5t	3t	3.5t	3.8t	2-2.5t	3-3.5t	3.8t	2-2.5t	3t	3.5t	3.8t	2t	2.5t	3t	3.5t	3.8t	
ZSM360	3600	2000	2500	3000	3300	3800	1795	1930	1930	795	705	710	700	3520	3890	4510	4770	5000	6/6
ZSM400	4000	2000	2400	2900	3300	3800	1920	2065	2065	920	830	835	825	3550	3920	4540	4800	5030	6/6
ZSM435	4350	1950	2250	2850	3300	3400	2045	2180	2180	1045	955	960	950	3580	3950	4580	4840	5070	6/6
ZSM450	4500	1900	2150	2800	3150	3300	2095	2230	2230	1095	1005	1010	1000	3600	3970	4590	4850	5080	6/6
ZSM470	4700	1850	2000	2700	3100	3200	2160	2295	2295	1160	1005	1010	1065	3610	3980	4590	4850	5090	6/6
ZSM480	4800	1850	1950	2600	2850	3050	2195	2330	2330	1195	1105	1110	1100	3620	3990	4620	4880	5110	6/6
ZSM500	5000	1800	1650	2450	2750	2850	2295	2430	2430	1295	1205	1210	1200	3650	4020	4640	4910	5140	6/6
ZSM540	5400	*1750	*2150	*2650	*2800	2500	2420	2555	2555	1420	1330	1335	1325	3680	4050	4680	4940	5170	6/6
ZSM600	6000	*1600	*1800	*2100	*2400	-	2645	2780	2780	1645	1555	1560	1550	3780	4150	4780	5040	5270	6/6

Note: (1) *stands for the rated capacity when the front tyre is double-tyre.
(2) When the front tyre of the 2-3.8t truck is double tyre, the service weight of the truck is the weight in the table plus 110kg.
(3) The free lifting height (without backrest) of the 2-2.5t truck is the height (with backrest) in the table plus 445mm. The free lifting height (without backrest) of the 3-3.8t truck is the height (with backrest) in the table plus 554mm.