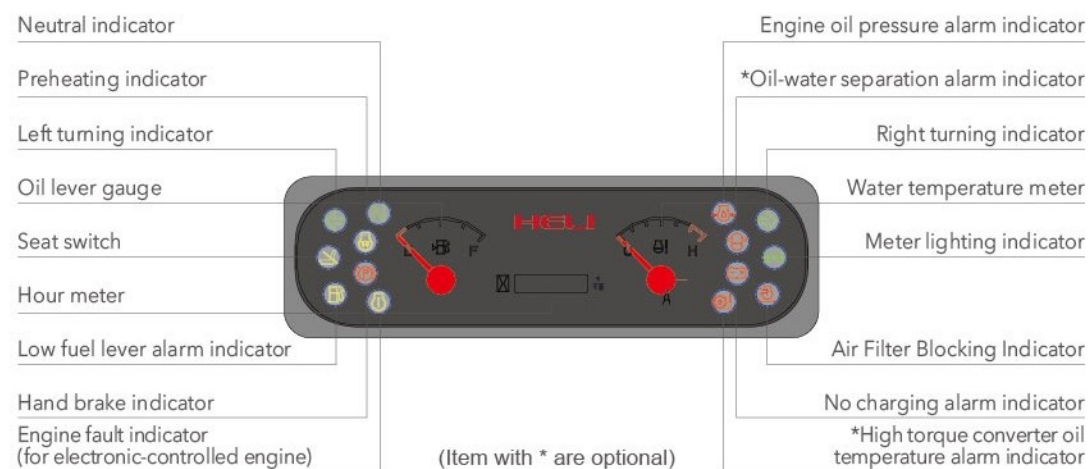


## Reliable special designed instrument



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.

## Standard configuration

- Horn
- Control valve
- Wholly 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 intaking device
- Durable tread tyre
- Lifting and tilting operation lever
- Traction pin
- Head lamp
- Hydraulic oil dipstick
- Overhead guard
- 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
- Widen fork arm carrier
- Wind shield
- Hydraulic oil dipstick
- Fire extinguisher muffer
- 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 1pg
- Single/dual fuel system
- Low speed alarm



**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);  
63639530(Key Accounts Division); 63662105(Wheel loader)

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

# 2-3.5 t

## H3 series Internal Combustion Counterbalanced Forklift Truck



## H3 SERIES 2-3.5 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)



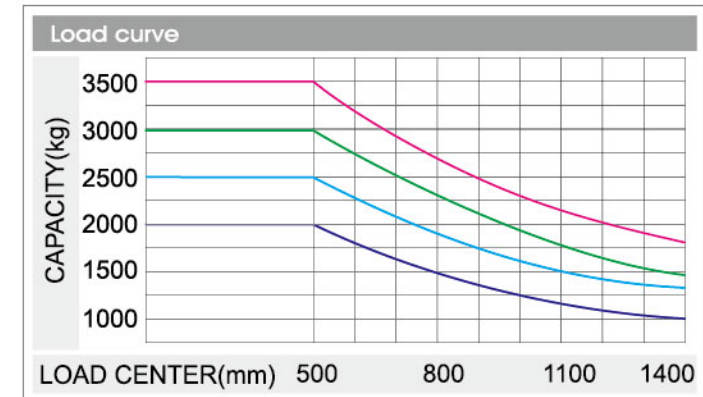
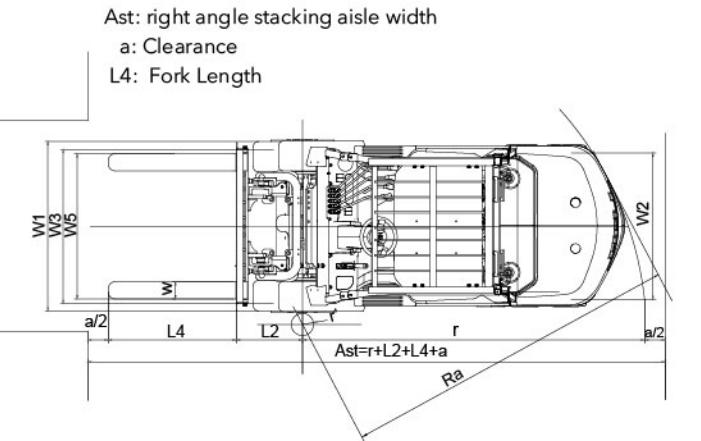
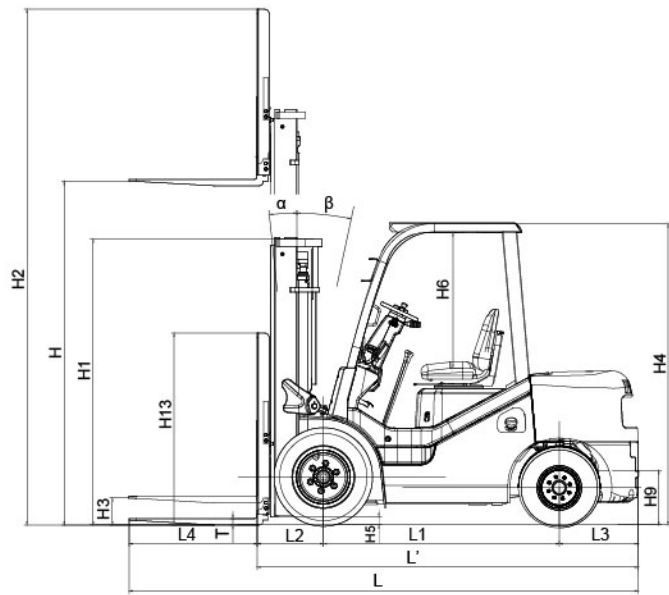


# H3 SERIES 2-3.5t



## Manufacturer and technical parameters

Character		HELI					
1.01	Manufacturer						
1.02	Model	CPC20 / CPCD20 / CP(Q)(Y)D20	CPC25 / CPCD25 / CP(Q)(Y)D25	CPC30 / CPCD30 / CP(Q)(Y)D30	CPC35 / CPCD35 / CP(Q)(Y)D35		
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	3000
2.02	Mast overall height(Fork to the ground and mast be vertical)	H1	mm	2000	2000	2065	2180
2.03	Max.fork lifting height(With backrest)	H2	mm	4030	4030	4245	4235
2.04	Free lift height	H3	mm	165	165	160	170
2.05	Overall height(Overhead guard)	H4	mm	2150	2150	2170	2170
2.06	Min.ground clearance(At the mast)	H5	mm	115	115	135	135
2.07	Distance from the surface of the seat to the overhead guard	H6	mm	1030	1030	1030	1030
2.08	Traction pin height	H9	mm	275	275	280	280
2.09	Backrest height(Calculated from the surface of the fork)	H13	mm	1000	1000	1227	1222
2.10	Overall length(With fork/Without fork)	(L/L')	mm	3500/2580	3708/2638	3818/2748	3836/2766
2.11	Wheel base	L1	mm	1650	1650	1700	1700
2.12	Front overhang	L2	mm	473	473	478	496
2.13	Rear overhang	L3	mm	457	515	570	570
2.14	Overall width	W1	mm	1150	1150	1225	1225
2.15	Tread (Front tread/Rear tread)	(W3/W2)	mm	970/970	970/970	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
2.17	Min.turning radius(Exterior)	r	mm	2170	2240	2400	2420
2.18	Min.turning radius(Interior)	r'	mm	180	180	200	200
2.19	Min.right angle stacking aisle width	Ra	mm	2200	2280	2380	2400
2.20	Mast tilting angle	α / β	%	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
Weight							
3.01	Total weight	kg	3370	3740	4340	4700	
3.02	Weight distribution loaded (Front/Rear)	kg	4740/630	5440/800	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	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					



CP(Q)(Y)D20  
CPC20  
CPCD20

CP(Q)(Y)D25  
CPC25  
CPCD25

CP(Q)(Y)D30  
CPC30  
CPCD30

CP(Q)(Y)D35  
CPC35  
CPCD35

**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	2-2.5t	3t	3.5t	2t	2.5t	3t	3.5t	
M200	2000	2000	2500	3000	3500	1495	1570	1680	3280	3650	4250	4610	6/12
M250	2500	2000	2500	3000	3500	1745	1820	1930	3330	3700	4300	4650	6/12
M300	3000	2000	2500	3000	3500	1995	2080	2180	3370	3740	4340	4700	6/12
M330	3300	2000	2500	3000	3500	2145	2220	2330	3400	3770	4360	4730	6/12
M350	3500	2000	2500	3000	3500	2245	2320	2430	3420	3790	4380	4750	6/12
M370	3700	2000	2500	3000	3500	2345	2420	2530	3430	3800	4400	4760	6/12
M400	4000	2000	2400	2900	3450	2545	2620	2730	3510	3880	4490	4840	6/12
M425	4250	2000	2250	2800	3350	2670	2745	2855	3530	3900	4510	4870	6/12
M450	4500	1950	2150	2700	3250	2795	2870	2980	3560	3930	4540	4900	6/12
M500	5000	1800	1650	2300	3000	3045	3120	3230	3600	3970	4580	4950	6/12
M550	5500	1750	1500	2100	2800	3345	3420	3530	3700	4070	4690	4990	3/6
M600	6000	1700	1200	1850	2500	3595	3670	3780	3740	4110	4730	5040	3/6

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

Performance		CPC20	CPCD20	CPC25	CPCD25	CPC30	CPCD30	CPC35	CPCD35	CP(Q)(Y)D20	CP(Q)(Y)D25	CP(Q)(Y)D30	CP(Q)(Y)D35				
Model		14.5/12.3	16/12.8	18/12.4	18.7/13.8	17/14.5	19/14.5	18/14.5	21/14.5	15/12.5	16/12.8	15/12.3	16.5/12.4	17/13.5	18/13.5	CP(Q)(Y)D35	20/13.5
Max.drawbar pull (Loaded/Unloaded)	kN	14.5/12.3	16/12.8	18/12.4	18.7/13.8	17/14.5	19/14.5	18/14.5	21/14.5	15/12.5	16/12.8	15/12.3	16.5/12.4	17/13.5	18/13.5	CP(Q)(Y)D35	20/13.5
*Max.Gradeability (Loaded/Unloaded)*	%	30/25	39/28	27/23	35/23	21/23	29/22	15/22	23/22	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		17/19		17/19		19/20		19/20	
Lifting Speed (Loaded/Unloaded)	mm/s	560/600		560/600		500/550		400/420		520/570		520/570		420/480		370/410	
Lowing Speed (Loaded/Unloaded)	mm/s	450/500		450/500		450/550		350/400		450/500		450/500		450/550		350/400	
Drive and transmission control device						ISUZU C240				ISUZU 4JG2				GCT K25			
Engine mode						ISUZU C240				ISUZU 4JG2				GCT K25			
Engine rated power	kW/rpm					35.4/2500				35/2450				37.4/2400			
Engine rated torque	Nm/rpm					139.9/1800				170/1700				176.5/1600			
Engine cylinder number-borexstroke						4-86×102				4-95.4×107				4-89×100			
Engine displacement	L					2.369				3.059				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:\*stands for theoretical calculating 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
CA498 DACHAI CA498	45/2500	196/1800	3.168	4	4-98×105	Diesel	China Stage III
GCT K21	31.2/2200	143.7/1600	2.065	4	4-89×83	Gasoline or LPG	
QSF2.8 Cummins QSF2.8	36/2500	186/1100-1500	2.8	4	4-94×100	Diesel	Euro IIIA/Beijing IV / CHINA STAGE III
QSF2.8 Cummins QSF2.8	43/2500	186/1100-1500	2.8	4	4-94×100	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	4-98×105	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

### 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	2-2.5t	3t	3.5t	2-2.5t	3t	3.5t	2t	2.5t	3t	3.5t	
ZM200	2000	2000	2500	3000	3500	1495	1570	1680	495	340	460	3300	3670	4270	4660	6/12
ZM250	2500	2000	2500	3000	3500	1745	1820	1930	745	590	710	3360	3730	4310	4700	6/12
ZM300	3000	2000	2500	3000	3500	1995	2080	2180	995	840	960	3430	3800	4360	4750	6/12
ZM330	3300	2000	2500	3000	3500	2145	2220	2330	1145	990	1110	3470	3840	4390	4780	6/12
ZM350	3500	2000	2500	3000	3500	2245	2320	2430	1245	1090	1210	3500	3870	4410	4800	6/12
ZM370	3700	2000	2500	3000	3500	2345	2420	2530	1345	1190	1310	3520	3890	4430	4810	6/12
ZM400	4000	2000	2450	2950	3350	2545	2620	2730	1545	1390	1510	3610	3980	4500	4890	6/12
ZM425	4250	2000	2200	2900	3300	2670	2745	2855	1670	1515	1635	3650	4020	4530	4920	6/12
ZM450	4500	1950	2100	2800	3200	2795	2870	2980	1795	1640	1760	3680	4050	4550	4960	6/12
ZM500	5000	1800	1700	2300	3100	3045	3120	3230	2045	1890	2010	3750	4120	4600	5000	6/12
ZM550	5500	1750	1500	2100	2900	3345	3420	3530	2345	2190	2310	3860	4230	4690	5040	3/6
ZM600	6000	1700	1200	1850	2600	3595	3670	3780	2595	2440	2560	3930	4300	4740	5090	3/6

Note:(1) \*stands for the rated capacity when the front tyre is double tyre.  
(2) When the front tyre of the 2-3.5t 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 3.5t 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	2-2.5t	3t	3.5t	2-2.5t	3t	3.5t	2t	2.5t	3t	3.5t	
ZSM360	3600	2000	2500	3000	3200	1795	1930	1930	795	705	710	3520	3890	4510	4770	6/6
ZSM400	4000	2000	2500	3000	3200	1920	2055	2055	920	830	835	3550	3920	4540	4800	6/6
ZSM435	4350	+1250	+2250	+2950	+3200	2045	2180	2180	1045	955	960	3580	3950	4580	4840	6/6
ZSM450	4500	+900	+2100	+2800	+3200	2095	2230	2230	1095	1005	1010	3600	3970	4590	4850	6/6
ZSM470	4700	+850	+2000	+2850	+3200	2160</										