

H3 series | HIGH EFFICIENCY
ENERGY SAVING

4000-7000lbs

**H3 series Internal Combustion
Counterbalanced Forklift Truck**



HELI
LIFTING THE FUTURE

TOP 10 FORKLIFT MANUFACTURER
IN THE WORLD

4000-7000lbs H3 series Internal Combustion Counterbalanced Forklift Truck

Improved performance, superior quality



↓ Vibrations - Noise

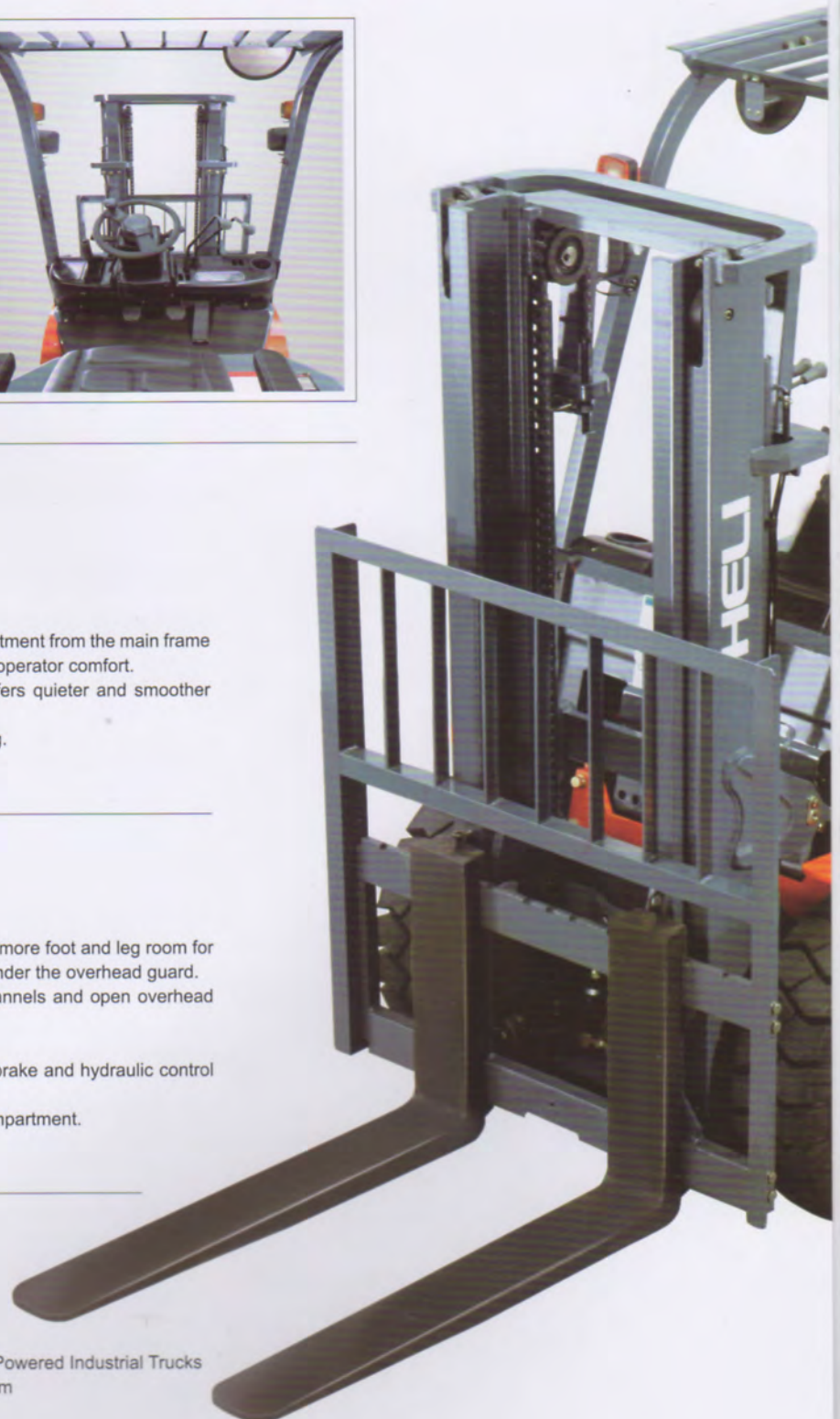
- Cushion suspension devices separate the operator compartment from the main frame of forklift which absorbs the truck's vibration for increased operator comfort.
- Engine performance and repositioned hydraulic pump offers quieter and smoother operation and less noise to operators compartment.
- Improved hydraulic control functions for lifting and lowering.

↑ Workspace - Visibility

- Operator compartment has been vastly improved creating more foot and leg room for operators both large and small with plenty of head room under the overhead guard.
- Ample visibility through upright due to narrower mast channels and open overhead guard.
- Improved LED/LCD display panel
- Comfortable suspension seat and easy to reach parking brake and hydraulic control handles.
- Low, wide step and grab handle for entry into operator compartment.

↑ Safety

- All Heli forklifts carry the ANSI B56.1 Safety Standard for Powered Industrial Trucks
- All Heli forklifts are equipped with Operator Sensing System





↑ *Increased Productivity / Lower Operating Costs*

- Smaller turning radius, increased steering efficiency.
- Two engine options: 2.4L or 3.0L LP engines (EPA Tier IV).
- Reliable powershift transmission; hydrostatic power steering; drum & shoe brakes.
- High air intake; dual element air cleaner; rear grab handle w/horn button (option).

↑ *Improved Performance*

- All aluminum radiator increases air flow and dissipates heat more efficiently.
- Smaller steering wheel with fewer turns lock-to-lock.
- 35% faster lifting speeds over previous generation H2000 series forklifts. Damping mechanism virtually eliminates "crashing" sound when lowering forks translating to quieter and smoother operation.
- Heavy duty transmission/drive axle offers exceptional performance in both moderate and severe applications.
- Cast steel heavy duty steer axle with "greasable" zerk fittings and zerk fitting location chart located at front of operator compartment insures proper servicing of all major components at regular preventive maintenance cycles.

↑ *Serviceability*

- Hood opens to an 80 degree angle and floor board is removable for easier and more convenient service.



4000-7000lbs

H3 series Internal Combustion Counterbalanced Forklift Truck

Manufacturer and technical parameters

Characteristic		HELI					
1.01	manufacturer	HELI					
1.02	Model	CPCD20/ CP(Q)(Y)D20	CPCD25/ CP(Q)(Y)D25	CPCD30/ CP(Q)(Y)D30	CPCD35/ CP(Q)(Y)D35		
1.03	Rated Capacity	lbs	4000	5000	6000	7000	
1.04	Load Centre	in	20				
1.05	Operation Type	Seat-type					
Dimension Parameter							
2.01	Max.Lifting Height(without backrest)	H	in	118.2	118.2	118.2	118.2
2.02	Overall Lowered Height	H1	in	78.8	78.8	81.4	85.9
2.03	Max.Lifting Height(with backrest)	H2	in	158.8	158.8	167.3	166.9
2.04	Free Lifting Height	H3	in	6.5	6.5	6.3	6.7
2.05	Overall Height(to overhead guard)	H4	in	84.7	84.7	85.5	85.5
2.06	Min.Ground Clearance(under mast)	H5	in	4.5	4.5	5.3	5.3
2.07	Overhead guard clearance(from seat face)	H6	in	40.6	40.6	40.6	40.6
2.08	Tow Pin Height	H9	in	10.8	10.8	11	11
2.09	Backrest Height(From the surface of the fork)	H13	in	39.4	39.4	48.3	48.1
2.10	Overall Length(without/with Forks)	(L/L')	in	137.9/101.7	146.1/103.9	150.4/108.3	151.1/109
2.11	Wheelbase	L1	in	65	65	67	67
2.12	Front Overhang	L2	in	18.6	18.6	18.8	19.5
2.13	Rear Overhang	L3	in	18	20.3	22.5	22.5
2.14	Overall Width	W1	in	45.3	45.3	48.3	48.3
2.15	Tread(Front Tread/Rear Tread)	(W3/W2)	in	38.2/38.2	38.2/38.2	39.4/38.2	39.4/38.2
2.16	Lateral Fork Adjustment(Outside of Forks)	W5	in	40.6/9.6	40.6/9.6	41.8/9.9	41.8/9.9
2.17	Min.Turning Radius Outside	r	in	85.5	88.3	94.6	95.3
2.18	Min.Ground Clearance(wheelbase centre)	r'	in	7.1	7.1	7.9	7.9
2.19	Min, Right Angle Stacking Aside Width	Ra	in	86.7	89.8	93.8	94.6
2.20	Mast Tilt(fwd/bwd)	α / β	deg	6/12	6/12	6/12	6/12
2.21	Fork Dimensions (Length*Width*Thicknes)	L4*W*T	in	36*4.8*1.6	42*4.8*1.6	42*4.9*1.8	42*4.9*2.0
Weights							
3.01	Standard Truck Weight Unload	lbs	7540	8377	9634	10582	
3.02	Weight Distribution Rated Load(front/rear)	lbs	10516/1433	12081/1808	14242/2006	16468/1830	
3.03	Weight Distribution Unload(front/rear)	lbs	3527/4013	3439/4938	3770/5864	4145/6437	
Wheels&Tires							
4.01	Wheel Number(x=driven wheel),front/rear	2X/2					
4.02	Tire Type,front/rear	Pneumatic Tire					
4.03	Tire Size	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					

Performance

Model		CPCD20	CPCD25	CPCD30	CPCD35	CF
Max.Drawbar pull(Load/unload)	lb	3600/2588	3713/2588	4275/3263	4725/3263	3
Max.Gradeability(Load/Unload)	%	20/20	20/20	23/20	21/20	
Max.Traveling Speed(Load/Unload)	mph	10.6/11.8	10.6/11.8	11.8/12.4	11.8/11.8	1
Lifting Speed(Load/unload)	ft/min	110/118	110/118	98.5/108	78.8/82.7	9
Lowling Speed(Load/unload)	ft/min	88.7/98.5	88.7/98.5	88.7/108	69/78.8	8

Engine and Gearbox

Engine Manufacturer/Model		KUBOTA V2403				
Rated Power	hp/rpm	45.7/2400				
Rated Torque	lb.ft/rpm	115.1/1800				
Cyl. Number-bore*stroke		4-87x102.4				
Displacement	L	2.434				
Engine Type		Diesel				
Emission		EuroIII/EPA T4I				
Battery Capacity	V/Ah	12/80				
Fuel Tank Capacity	L					
Number of speed(fwd/bwd)						

Wide view Full Free 2-stage mast

Mast type	Max. lifting height (in)	Loading capacity (lbs)- loading center 20 inch				Mast Overall Height (in)- fork to the ground			Free Lifting Height (in)- with backrest			Service weight				Mast tilt angle (Fwd/Bwd) deg
		CPCD20/CPQXYD20	CPCD25/CPQXYD25	CPCD30/CPQXYD30	CPCD35/CPQXYD35	2-2.5t	3t	3.5t	2-2.5t	3t	3.5t	CPCD20/CPQXYD20	CPCD25/CPQXYD25	CPCD30/CPQXYD30	CPCD35/CPQXYD35	
ZM200	79	4000	5000	6000	7000	59	62	66	20	13	18	7650	8488	9546	10516	6/12
ZM250	99	4000	5000	6000	7000	69	72	76	29	23	28	7749	8587	9634	10626	6/12
ZM300	118	4000	5000	6000	7000	79	82	86	39	33	38	7859	8697	9744	10736	6/12
ZM330	130	4000	5000	6000	7000	85	87	92	45	39	43	7926	8763	9799	10792	6/12
ZM350	138	4000	5000	6000	7000	88	91	96	49	43	48	7970	8807	9844	10836	6/6 *6/12
ZM370	146	4000	5000	6000	7000	92	95	100	54	47	52	8016	8851	9877	10880	6/6 *6/12
ZM400	158	4000	5000	6000	6400 *7000	100	103	108	61	55	59	8168	9006	10031	11023	6/6 *6/12
ZM425	168	3800 *4000	4500 *5000	5700 *6000	6200 *6400	105	108	112	66	60	64	8223	9061	10086	11078	6/6 *6/12
ZM450	177	3600 *3800	4200 *4800	5500 *6000	6100 *6400	110	113	117	71	65	69	8278	9116	10130	11133	6/6 *6/12
ZM500	197	3400 *3400	4300 *4400	5800 *6000	6100 *5700	120	123	127	81	75	79	8389	9226	10229	11243	*3/6
ZM550	217	*3200	*3900	*4900	*5000	132	135	139	92	86	91	8576	9414	10648	11673	*3/6
ZM600	236	*3000	*3600	*4400	*4600	134	145	149	102	96	101	8675	9513	10747	11795	*3/6

Note: (1) *stands for the rated capacity when the front tire is double-tire.

(2) When the front tire of the 4000-7000lbs truck is double tire, the service weight of the truck is the weight in the table plus 242lbs.

(3) The free lifting height (without backrest) of the 2000-3500lbs truck is the height (with backrest) in the table plus 16.9inch. The free lifting height (without backrest) of the 4000-5000lbs truck is the height (with backrest) in the table plus 18.1inch. The free lifting height (without backrest) of the 6000lbs truck is the height (with backrest) in the table plus 23.2inch. The free lifting height (without backrest) of the 7000lbs truck is the height (with backrest) in the table plus 20.6inch.



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CP(Q)(Y)D20	CP(Q)(Y)D25	CP(Q)(Y)D30	CP(Q)(Y)D35	CP(Q)(Y)D20	CP(Q)(Y)D25	CP(Q)(Y)D30	CP(Q)(Y)D35
3375/2363	3375/2363	3825/3038	4050/3038	3600/2363	3713/2363	4050/3038	4500/3038
31/22	31/22	23/20	18/21	23/12	23/12	22/13	21/20
11.2/11.8	11.2/11.8	11.8/11.8	11.8/11.8	11.8/12.4	11.8/12.4	11.8/12.4	11.8/12.4
98.5/108	98.5/108	35.5/106	80.8/88.7	112/122	112/122	94.6/106	460/490
88.7/98.5	88.7/98.5	88.7/108	69/78.8	88.7/98.5	88.7/98.5	88.7/108	69/78.8

Mitsubishi 4G64(PSI)

GM3.0

GAS:64.3/2700,LPG:61.6/2700

67/2700

GAS:125.5/2400,LPG:124/1600

150/1800

4-86.5x100

4-102x91.5

2.351

3

GAS/LPG

GAS/LPG

Tier IV

Tier IV

12/60

12/80

60

1-1 Power Shift T/M/ 2-2 Manual Shift T/M

Wide view Full Free 3-stage mast

Mast type	Max. lifting height (in)	Loading capacity (lbs)- loading center 20 inch				Mast Overall Height (in)- fork to the ground			Free Lifting Height (in)- with backrest			Service weight				Mast tilt angle (Fwd/Bwd) deg
		CPCD20/CP(Q)(Y)D20	CPCD25/CP(Q)(Y)D25	CPCD30/CP(Q)(Y)D30	CPCD35/CP(Q)(Y)D35	2-2.5t	3t	3.5t	2-2.5t	3t	3.5t	CPCD20/CP(Q)(Y)D20	CPCD25/CP(Q)(Y)D25	CPCD30/CP(Q)(Y)D30	CPCD35/CP(Q)(Y)D35	
ZSM360	142	4000	4800	5800	6600	71	77	77	31	28	28	8190	9028	10163	10858	6/6
ZSM400	158	3800	4800	5800	6600	76	81	81	36	33	33	8256	9094	10229	10924	6/6
ZSM435	171	*3700	*4400	*5600	*5800	81	86	86	41	38	38	8322	9160	10284	10979	6/6
ZSM450	177	*3500	*4300	*5400	*5600	83	88	88	43	40	40	8344	9182	10318	11012	6/6
ZSM470	185	*3600	*4600	*5800	*6000	85	88	88	46	40	40	8377	9215	10362	11056	6/6
ZSM480	189	*3400	*3900	*5000	*5200	86	92	92	47	44	44	8389	9226	10406	11078	6/6
ZSM500	197	*3600	*4600	*5800	*6000	90	96	96	51	47	48	8444	9281	10461	11155	6/6
ZSM540	213	*2900	*3000	*4500	*4600	95	101	101	56	52	53	8510	9348	10527	11221	3/6
ZSM600	236	*1900	*2000	*3000	*3100	104	110	110	65	61	61	8686	9524	10725	11420	3/6

Note:(1) *stands for the rated capacity when the front tire is double-tire.

(2) When the front tyre of the 4000-7000lbs truck is double tyre, the service weight of the truck is the weight in the table plus 242lbs.

(3) The free lifting height (without backrest) of the 2000-3500lbs truck is the height (with backrest) in the table plus 19.5inch. The free lifting height (without backrest) of the 4000-5000lbs truck is the height (with backrest) in the table plus 17.8 inch. The free lifting height (without backrest) of the 6000lbs truck is the height (with backrest) in the table plus 22.9inch. The free lifting height (without backrest) of the 7000lbs truck is the height (with backrest) in the table plus 19.2inch.

CP(Q)(Y)D20	CP(Q)(Y)D25	CP(Q)(Y)D30	CP(Q)(Y)D35	CP(Q)(Y)D20	CP(Q)(Y)D25	CP(Q)(Y)D30	CP(Q)(Y)D35
3375/2363	3375/2363	3825/3038	4050/3038	3600/2363	3713/2363	4050/3038	4500/3038
31/22	31/22	23/20	18/21	23/12	23/12	22/13	21/20
11.8/11.8	11.2/11.8	11.8/11.8	11.8/11.8	11.8/12.4	11.8/12.4	11.8/12.4	11.8/12.4
98.5/108	98.5/108	35.5/106	80.8/88.7	112/122	112/122	94.6/106	460/490
88.7/98.5	88.7/98.5	88.7/108	69/78.8	88.7/98.5	88.7/98.5	88.7/108	69/78.8

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GAS:125.5/2400,LPG:124/1600

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4-86.5x100

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GAS/LPG

GAS/LPG

Tier IV

Tier IV

12/60

12/80

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ZSM360	142	4000	4800	5800	6600	71	77	77	31	28	28	8190	9028	10163	10858	6/6
ZSM400	158	3800	4800	5800	6600	76	81	81	36	33	33	8256	9094	10229	10924	6/6
ZSM435	171	*3700	*4400	*5600	*5800	81	86	86	41	38	38	8322	9160	10284	10979	6/6
ZSM450	177	*3500	*4300	*5400	*5600	83	88	88	43	40	40	8344	9182	10318	11012	6/6
ZSM470	185	*3600	*4600	*5800	*5600	85	88	88	46	40	40	8377	9215	10362	11056	6/6
ZSM480	189	*3400	*3900	*5000	*5200	86	92	92	47	44	44	8389	9226	10406	11078	6/6
ZSM500	197	*3500	*4500	*5800	*5600	90	96	96	51	47	48	8444	9281	10461	11155	6/6
ZSM540	213	*2900	*3000	*4200	*4400	95	101	101	56	52	53	8510	9348	10527	11221	3/6
ZSM600	236	*1900	*2000	*3200	*3400	104	110	110	65	61	61	8686	9524	10725	11420	3/6

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