

4,000-7,000 lbs
H Series
Pneumatic Tire Forklift



h200
HYDRO-BOOST

HELI
LIFTING THE FUTURE

Top 10 Forklift
Manufacturer In The World

Drive Axle



- Power Train designed and Manufactured by HELI utilizing globally proven components
- One piece cast iron housing
- Spin-on external transmission filter
- Smooth forward-reverse direction changes
- Large diameter 12" automotive style, self-adjusting brakes

Heavy Duty Clutch Packs



- Large diameter vented clutch packs Providing improved cooling and extended service life

Cooling system



- Industrial radiator with copper core and steel tanks
- Industry's ONLY serviceable radiator design
- Superior cooling capacity-longer useful life

EPA Certified Engines



GM3.0 Gasoline / LPG / Dual Fuel



Kubota Diesel
Available 2.4 and 3.6 liter

- Reliable proven design
- Durable cast iron block and heads
- Maintenance friendly service interface
- No proprietary service software required



Mast & Carriage

- Optimized visibility
- Heavy duty side thrust rollers-easily adjustable-better load stability
- Full face mast channel roller bearings
- 4 Carriage rollers with 4 adjustable side thrust rollers
- Stacked I-Beam construction provides longer life, improved rigidity and better lateral stability



Hydraulic System

- Large capacity hydraulic tank for improved cooling
- Large access opening for easy clean out
- Sectional hydraulic control valve
- All hose and fittings are SAE, JIC standard for ease of maintenance



Hydraulic Steering System

- Steering system delivers reduced effort and faster response to minimize operator fatigue
- Heavy duty fabricated steel axle
- Heavy duty serviceable king pins with large capacity thrust bearing and zerkl fittings



Operator Compartment

- Cowl mounted hydraulic controls
- Semi-suspension seat with 3-way adjustment
- Spacious foot well with non-slip rubber mat
- Easy entry and exit with wide steps on both sides of compartment
- Full function dash display





Class V Pneumatic Tire Forklift 4,000-7,000 lbs

Manufacturers Data and Design Characteristics

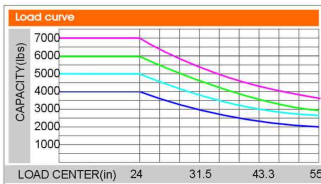
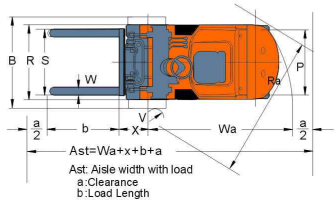
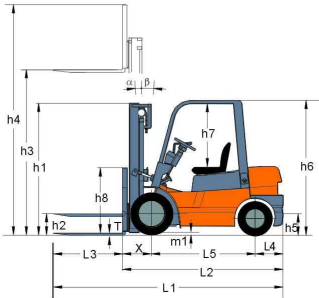
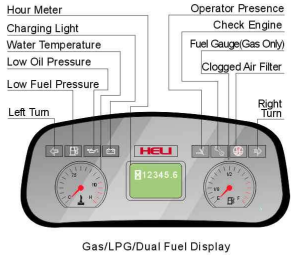
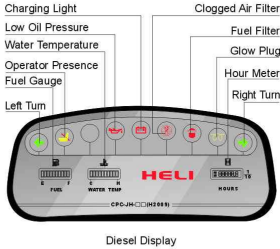
Characteristics					
1	Model		---	---	
2	Fuel type		CPCD20	CPCD25	Di
3	Base capacity	lbs	4000	5000	
4	24" Load center	inch			2
Dimensions					
5	Max lift height with backrest	h4	inch	157.2	157.2
6	Standard fork height	h3	inch		
7	Overall lowered height	h1	inch	78.7	78.7
8	Free lift standard backrest height	h2	inch	6.6	6.6
9	Operator clearance	h7	inch		
10	Overall height	h6	inch	81.5	81.5
11	Overall length (without forks)	L2	inch	99.2	102.2
12	Front overhang	X	inch	18.9	18.9
13	Rear overhang	L4	inch	17.3	20.2
14	Wheel base	L5	inch	62.9	62.9
15	Tow pin height	h5	inch	11.4	11.4
16	Minimum ground clearance under mast	m1	inch	4.3	4.3
17	Overall width	B	inch	45.2	45.2
18	Lateral fork adjustment outside of fork (Max./Min.)	S	inch	39.3/8.7	39.3/8.7
19	Tread (front)	R	inch	38.1	38.1
20	Tread (rear)	P	inch	38.1	38.1
21	Outside turning radius	Wa	inch	85.4	88.1
22	Inside turning radius	V	inch	6.2	6.2
23	Minimum intersecting aisle	Ra	inch	86.6	89.7
24	Tilting angles (forward/backward)	α/β			
25	Fork dimension (a×b×c)		inch	42×3.93×1.77	42×3.93×1.77
Performance					
26	Max. traveling speeds (with/without load)	mile/h		10.6/11.8	
27	Lifting speeds (with/without load)	ft/min		20.8/21.6	
28	Lowering speeds (with/without load)	ft/min		17.7/21.6	
29	Max. draw-bar pull (with/without load)	lbs		3690/2020	3640/1930
30	Max. negotiable gradient (with/without load)	%		23/20	25/20
				20/17	21.5/17
Weights					
31	Service weight	lbs		7312	8105
32	Axle loaded, front/rear	lbs		10546/1171	12251/1361
33	Axle loaded without, front/rear	lbs		2925/4387	3242/4863
Tires					
34	Wheels number front/rear (x=driven)				2x
35	Type				Pne
36	Size (front)			7.00-12-12PR	
37	Size (rear)			6.00-9-10PR	
38	Service brake				Hydraulic-
39	Parking brake				Mechanical
Drive					
40	Battery (voltage/capacity)	V/Ah			12
41	Internal combustion engine model			Kubota V2403 (high power V3	
42	Internal combustion engine rated output	hp/rpm		47.5/2400	
43	Internal combustion engine rated torque	lb.ft/rpm		114.2/1600	
44	Internal combustion engine displacement	L		148/2.434	
45	Gas/Diesel engine fuel tank capacity	L			13
46	Transmission number of speed fwd/bwd type				1-1Power S



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CPCD30		CPCD35		CP(Q)YD20		CP(Q)YD25		CP(Q)YD30		CP(Q)YD35					
Diesel															
6000		7000		4000		Gasoline/LPG/Dual Fuel				7000					
24															
166.4		166.2		157.2		157.2		166.4		166.2					
118															
81.4		85.8		78.7		78.7		81.4		85.8					
6.2		6.6		6.6		6.6		6.2		6.6					
39"															
82.3		82.3		85.4		85.4		85.4		85.4					
106.3		106.8		99.2		102.2		106.3		106.8					
19.1		19.6		18.9		18.9		19.1		19.6					
20.2		20.2		17.3		20.2		20.2		20.2					
66.9		66.9		62.9		62.9		66.9		66.9					
12.2		12.2		11.4		11.4		12.2		12.2					
5.3		5.3		4.3		4.3		4.3		4.3					
48.2		48.2		45.2		45.2		48.2		48.2					
41.5/9.8		41.5/9.8		39.3/8.7		39.3/8.7		41.5/9.8		41.5/9.8					
39.3		39.3		38.1		38.1		39.3		39.3					
38.1		38.1		38.1		38.1		38.1		38.1					
94.4		95.2		85.4		88.1		94.4		95.2					
7.8		7.8		6.2		6.2		7.8		7.8					
93.7		94.4		86.6		89.7		93.7		94.4					
6" /12"															
42×4.92×1.77		42×4.92×1.97		42×3.93×1.77		42×3.93×1.77		42×4.92×1.77		42×4.92×1.97					
11.2/11.8															
11.2/11.8		11.8/11.8		10.6/11.8				11.2/11.8		11.8/11.8					
17.3/18.8		12.9/14.5		20.8/21.6				17.7/18.8		12.2/13.3					
17.7/19.6		13.7/15.7		17.7/21.6				17.7/19.6		13.7/15.7					
3620/2200		4630/2650		4560/1890		4560/1998		4237/2205		4237/2250					
15/17		16/17		20/15		22/15		18/20		18/20		15/17		15/17	
12/14		14/14		15/15		15/15		12/14		14/14		15/15		15/15	
9405															
14411/1601		10352		7312		8105		9405		10532					
16255/1806		16255/1806		10546/1171		12251/1361		14411/1601		16255/18096					
3762/5643		4140/6211		2925/4387		3242/4863		3762/5643		4140/6211					
2X/2															
Automatic															
Pneumatic															
28×9-15-12PR		28×9-15-14PR		7.00-12-12PR				28×9-15-12PR		28×9-15-14PR					
6.50-10-10PR		6.50-10-10PR		6.00-9-10PR				6.50-10-10PR		6.50-10-10PR					
Foot Pedal															
Hydraulic-Foot Pedal															
Hand Lever															
Mechanical-Hand Lever															
12/80															
GM 3.0															
68/2400		Kubota V3600		Gasoline 68/2700,LPG 64/2700				68/2400		Gasoline 146/1500,LPG 139/1500					
173.5/1400		220.9/3.62		18.3/2.966				173.5/1400		18.3/2.966					
13.2															
13.2															
1-1 Power Shift T/M															

Instrument Panels

The instrument panel gives a complete display of vital information, including operational status, fault detection, etc. It allows the operator to conveniently maintain the vehicle status.



4000lbs 5000lbs 6000lbs 7000lbs

Note:
Capacities shown are computed with mast in vertical position based on a 48 inch cube load configuration with the center of gravity at the true center of the cube and standard forks. Long forks and unusually wide loads may also reduce capacity.

4,000-7,000 lbs 2-STAGE STANDARD MAST

Mast Model	Max. fork height (inch)	Capacity at 24inch, Load center (lbs)				Overall Lowered Height (inch)			Tilting Angle	Service Weight (lbs)			
		4000lbs	5000lbs	6000lbs	7000lbs	4000-5000lbs	6000lbs	7000lbs		4000lbs	5000lbs	6000lbs	7000lbs
M200	78.7	4000	5000	6000	7000	59	61.6	66.1	6-12	7136	7929	9394	10572
M250	88.4	4000	5000	6000	7000	68.8	71.4	75.9	6-12	7224	8017	9493	10682
M300	118.1	4000	5000	6000	7000	76.7	81.4	85.8	6-12	7312	8105	9405	10352
M330	129.9	4000	5000	6000	7000	84.8	87.2	91.7	6-12	7367	8160	9536	10870
M360	137.7	4000	5000	6000	7000	88.7	91.1	95.6	6-12	7400	8193	9569	10870
M370	145.6	4000	5000	6000	7000	92.7	95	99.6	3-5 6-12	7433	8226	9713	10947
M400	157.4	4000	5000	6000	7000	100	100.5	107.4	3-5 6-12	7533	8325	9845	11134
M425	167.3	4000	5000	6000	7000	105.3	107.8	112.4	3-5 6-12	7577	8370	9889	11200
M450	177.1	4000	5000	6000	7000	110.2	112.7	117.3	3-5 6-12	7621	8414	9933	11233
M500	196.8	4000	5000	6000	7000	120	122.6	127.1	3-5 6-12	7709	8502	10044	11387
M550	216.5	4000	5000	6000	7000	131.8	134.4	138.9	3-5 6-12	8138	8931	10529	11607
M600	236.2	4000	5000	6000	7000	141.7	144.2	148.8	3-5 6-12	8226	9019	10616	11740

NOTE: (1) If or diesel model add 198 lbs dual drive; add 242 lbs.

(2) Front wheel is dual drive.

(3) Rated capacity with (*) shows capacity with front dual tires.

(4) Overall mast height without load bracket-18.5 inches.

4,000-7,000 lbs 2-STAGE FULL FREE MAST

Mast Model	Max. fork height (inch)	Capacity at 24inch, Load center (lbs)				Overall Lowered Height (inch)			Free Lift (with Backset)			Tilting Angle	Service Weight (lbs)			
		4000lbs	5000lbs	6000lbs	7000lbs	4000-5000lbs	6000lbs	7000lbs	4000-5000lbs	6000lbs	7000lbs		4000lbs	5000lbs	6000lbs	7000lbs
ZM300	116.1	4000	5000	6000	7000	78.5	81.4	85.6	39.1	33.4	37.7	6-12	7455	8204	9569	10859
ZM330	129.9	4000	5000	6000	7000	84.4	87.4	91.7	45	39.3	43.3	6-12	7500	8259	9724	10936
ZM350	137.7	4000	5000	6000	7000	88.3	91.3	95.6	49	43.3	47.6	6-12	7533	8292	9823	11013
ZM370	145.6	4000	5000	6000	7000	93.3	95.2	99.6	53.9	47.8	52.5	6-12	7433	8226	9713	11013

NOTE: (1) 4000-5000lbs free lift height (without backset) +17.1inch, 6000lbs free lift height (without backset) +22.8inch.

(2) Dual drive wheels weight +242.2lbs.

(3) (*) front wheel is dual drive load capacity.

(4) Max. lifting height without load bracket-18.5 inch.

(5) Free lifting height without load bracket+18.5inch.

(6) Rated capacity with (*) shows capacity with dual drives.

4,000-7,000 lbs 3-STAGE FULL FREE MAST

Mast Model	Max. fork height (inch)	Capacity at 24inch, Load center (lbs)				Overall Lowered Height (inch)			Free Lift (with Backset)			Tilting Angle	Service Weight (lbs)			
		4000lbs	5000lbs	6000lbs	7000lbs	4000-5000lbs	6000lbs	7000lbs	4000-5000lbs	6000lbs	7000lbs		4000lbs	5000lbs	6000lbs	7000lbs
ZSM430	171.2	3700	4400	5000	6000	80.5	86.2	88.1	39.5	36.2	38.1	5-5 7-6	7786	8557	10242	11178
ZSM450	177.1	3700	4400	5000	6000	82.4	88.1	92.1	41.3	38.1	42.1	5-5 7-6	7852	8612	10264	11189
ZSM470	185	3440	4088	5200	6000	85	88.1	—	44	38.1	—	5-5 7-6	7852	8612	10264	—
ZSM480	189.9	3400	3933	5000	6000	86.4	92.1	96	45.4	42.1	46	5-5 7-6	7874	8623	10308	11222
ZSM500	196.8	3200	3333	4800	6000	90.3	96	100.9	49.4	46	50.9	5-5 7-6	8182	8931	10407	11200
ZSM540	212.5	3200	3000	3500	6000	95.2	100.9	104.9	54.3	50.9	54.9	3-5 7-6	8579	9328	10484	—
ZSM600	236.2	1800	2000	3000	6000	104.1	109.8	113.5	63.1	59.8	63.5	3-5 7-6	8669	9438	10682	—
ZSM650	255.9	—	—	—	—	—	—	—	—	—	—	3-6	—	—	—	—
ZSM700	275.5	*2000	*2400	*3000	—	119	125	—	78.3	75	—	3-6	9570	9878	11563	—

NOTE: (1) 4000-5000lbs free lift height (without backset) +17.1inch, 6000 lbs free lift height (without backset) +22.8inch.

(2) Dual drive weight +242.2lbs.

(3) (*) front wheel is dual drive load capacity.

(4) Max. lifting height without load bracket-18.5 inch.

(5) Free lifting height without load bracket+18.5inch.

(6) Rated capacity with (*) shows capacity with dual drives.

For other mast options, please contact your authorized **HELI** dealer.



4,000-7,000 lbs
H Series
Pneumatic Tire Forklift

STANDARD EQUIPMENT

Hour meter	130 inch standard 2-stage mast
Horn	Rear combo lights
Oil pressure alarm	Back-up alarm
Three-spool control valve	Adjustable steering column
Power steering	Hydraulic oil filter
Rubber pedal pads	Coolant overflow tank
Load backrest	Oil gauge
Rear view mirror	Battery-charge indicator
Front combo lights	Wide-view mast
Complete tool kit	High air intake
Transmission oil filter	Tow pin
Spark arresting muffler	Standard semi-suspension seat
Water temperature meter	

OPTIONS

Cab	User-specified color
Amber strobe light	Steel rub rails with fenders
Vertical exhaust	Dual drive tires
Air pre-cleaner	LPG and dual-fuel system
Full suspension seat	2-Stage full free lift mast
Cab heater	3-Stage full free lift mast
Solid pneumatic tire	
Windshield	
Rear work light	
Air conditioning	
Tilt cylinder boot	
Steering cylinder boot	



Frontier Forklifts

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