

11,000-22,000 lbs
H Series
Pneumatic Tire Forklift



h2000
SERIES

HELI
LIFTING THE FUTURE

Top 10 Forklift
Manufacturer In The World



H Series Pneumatic Tire Forklift

11,000-22,000 LB

Powerful Engine and Drive Train



EPA Certified Engines

Cummins QSB4.5 Turbocharged Diesel Engine (std.)
Mitsubishi S6S-T Turbocharged Diesel Engine (optional on
11,000 - 15,500 lb. capacity forklifts)

Powerful and durable 2-speed, power-reversing transmission
manufactured by Heli with over 20 years of superior industry
performance



High Visibility Mast and Overhead Guard



- Optimized visibility
- Heavy duty side thrust rollers-easily adjustable-better load stability
- Mast, constructed of German steel
- Stacked I-Beam construction provides longer lift, improved rigidity, and better stability

Hydraulic System

Proven and Reliable

Heli manufactured lift, tilt and steer cylinders are made using the most advanced manufacturing technologies in the industry which ensures longevity and reliability.

- Direct drive hydraulic pump
- Delivers maximum flow through
- Hydraulic circuit for excellent lift and tilt control performance



Hydrostatic Power Steering

Fully hydrostatic power steering provides greater turn radius with less effort to operator.



- Reduced effort steering
- Heavy duty fabricated steel axle
- Serviceable king pins with large capacity thrust bearings and zerk fittings

Operator Compartment

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





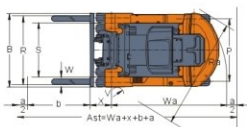
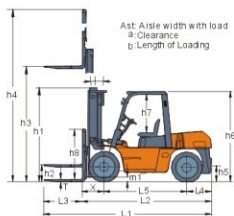
H Series Pneumatic Tire Forklift

11,000-22,000 LBS

Manufacturers Data and Design Characteristics

Characteristics				
1	Model		CPCD50	CPCD
2	Fuel type			
3	Base Capacity	lbs	11,000	13,000
4	Load Center	inch		
Dimensions				
5	Max. lift height with backrest	inch	171.7	171.7
6	Standard fork height	inch		118.0
7	Overall mast lowered height	inch	98.4	98.4
8	Free lift standard backrest height	inch	7.9	7.9
9	Operator clearance	inch	44.1	44.1
10	Overall height	inch		96.5
11	Overall length (without forks)	inch	135.4	138.0
12	Front overhang	inch		23.2
13	Rear overhang	inch	23.6	26.0
14	Wheel base	inch	88.6	88.6
15	Tow pin height	inch	17.0	16.5
16	Minimum ground clearance under mast	inch	7.9	7.9
17	Overall width	inch	78.5	78.5
18	Lateral fork adjustment outside of fork (Max./Min.)	inch	72.6/11.8	72.6/11.8
19	Tread (front)	inch	58.0	57.5
20	Tread (rear)	inch	67.0	66.5
21	Outside turning radius	inch	128.0	129.0
22	Inside turning radius	inch	8.0	7.9
23	Minimum intersecting aisle	inch	116.5	118.0
24	Tilting angles (forward/backward)			
25	Fork dimension (axbxc)	inch	48x5.9x2.16	48x5.9x2.16
Performance				
26	Max. Traveling speeds (With/Without load)	mile/h	16.25/17.5	16.25/17.5
27	Lifting Speeds (With/Without load)	ft/min	102.36/108.27	102.36/108.27
28	Lowering Speeds (With/Without load)	ft/min		
29	Max. Draw-bar pull (With/Without load)	lbs	13950	13950
30	Max. Negotiable Gradient (With/Without load)	%	35/19	32/19
Weights				
31	Service Weight	lbs	17560	19050
32	Axle load, Front/Rear	lbs	25710/2910	28770/3210
33	Axle Load without, Front/Rear	lbs	8840/8750	8560/8470
Tires				
34	Wheels number front/rear (x=driven)			
35	Tire Type			
36	Tire size (front)			8.25-15
37	Tire size (rear)			8.25-15
38	Service Brake			Hyd
39	Parking Brake			Mech
Drive				
40	Battery (Voltage/Capacity)	V/Ah		
41	Internal Combustion Engine Model			Cu
42	Engine type		Electronic controlling, Turbo	Ch
43	Internal Combustion Engine Rated Output	Hp/rpm		
44	Internal Combustion Engine Rated Torque	lb. ft/rpm		
45	Internal Combustion Engine Number of Cylinder			
46	Internal Combustion Engine Displacement	L		
47	Internal Combustion Engine Fuel Tank Capacity	L		
48	Transmission type			
49	Transmission Number of Speed Fwd/Bwd type			

060	CPCD70	CPCD80	CPCD100	CPCD50	CPCD60	CPCD70
	Diesel					
00	15,500	17,500	22,000	11,000	13,000	15,500
	24				24	
3	171.1	171.7	160.8	171.7	171.3	171.1
			118		118	
4	98.4	106.3	112.2	98.4	98.4	98.4
	7.9	7.9	7.9	7.9	7.9	7.9
1	44.1	44.1	44.1	44.1	44.1	44.1
		100.8	100.8		96.5	
4	140.9	155.1	167.7	135.4	138.4	140.9
		27.6	28.3		23.2	
3	29.1	29.1	29.1	23.6	26.6	29.1
3	88.6	98.4	110.2	88.6	88.6	88.6
9	16.9	21.3	21.3	17.0	16.9	16.9
	7.9	9.6	9.6	7.9	7.9	7.9
5	78.5	85.2	85.2	78.5	78.5	78.5
18	72.6/11.8	78.7/13.4	84.3/16.1	72.6/11.8	72.6/11.8	72.6/11.8
9	57.9	63.0	63.0	58.0	57.9	57.9
9	66.9	66.9	66.9	67.0	66.9	66.9
9	132.7	145.7	153.5	128.0	129.9	132.7
	7.9	7.9	7.9	8.0	7.9	7.9
1	119.7	130.3	139.4	116.5	118.1	119.7
2.36	48x5.9x2.56	48x6.7x2.76	48x6.8x3.15	48x5.9x2.16	48x5.9x2.36	48x5.9x2.56
17.5	16.25/17.5	16.25/18.75	16.25/18.75	16.25/17.5	16.25/17.5	16.25/17.5
08.27	100.4/106.3	86.6/92.5	70.9/74.8	102.36/108.27	102.36/108.27	100.4/106.3
00	13950	13500	13050	13950	13950	13950
9	30/19	27/20	22/20	35/19	32/19	30/19
00	20620	24170	27590	17560	19050	20620
4300	32130/3930	37490/4320	44940/4700	25710/2910	28770/4300	32130/3930
0500	8510/12100	10670/13500	12570/15020	8840/8750	8560/10500	8510/12100
4X/2					4X/2	
Pneumatic					Pneumatic	
-14PR9.00-20-14PR					8.25-15-14PR	
-14PR9.00-20-14PR					8.25-15-14PR	
Hydraulic-Foot Pedal					Hydraulic-Foot Pedal	
Mechanical-Hand Lever					Mechanical-Hand Lever	
2X12/80					2X12/80	
mmms QSB4.5					Mitsubishi S6S-T	
charged, Air-to-air intercooled diesel engine					Turbocharged diesel engine	
110/2200					85.4/2300	
360/1500					210/1700	
4					6	
4.5					4.996	
140					140	
Power Shift					Power Shift	
2/2					2/2	



Instrument Panels

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

✓ Programmable LCD

✓ Electrical safety standard meets CE requirements

Time



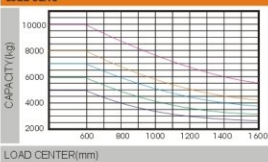
Time



H Series 5-10T engine with Cummins QSB4.5

CPCD50 CPCD60 CPCD70 CPCD80 CPCD100

Load curve



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.

22,000lbs FULL FREE LIFT MAST W/SIDE SHIFTER

Mast model	Max. Fork Height (inch)	Load Capacity (lbs)	Overall Mast Height (ft. Lowered) (inch)	Tilting Angle Fwd/Back (deg)	Service Weight (lbs)
ZSM660	141" TSU	17500	101.2	6-12°	27676
ZSM400	157" TSU	17500	106.3	6-12°	27808
ZSM435	171" TSU	17500	111.0	6-12°	27940
ZSM480	189" TSU	16530	116.3	6-6°	28072
ZSM500	196" TSU	16530	119.5	6-6°	28182
ZSM640	212" TSU	15500	127.0	3-6°	28336
ZSM600	236" TSU	13000	134.8	3-6°	28512

8-11,000 - 15,500lbs WIDE VIEW MAST

Mast model	Max. Fork Height (inch)	Load Capacity (lbs)			Overall Mast Height (ft. Lowered) (inch)			Tilting Angle Fwd/Back (deg)	Service Weight (lbs)		
		CPCD50	CPCD60	CPCD70	CPCD50	CPCD60	CPCD70		CPCD50	CPCD60	CPCD70
MC00	78	11000	13000	15500	78.7	78.7	78.7	6-12°	17239	18691	20253
MC50	98	11000	13000	15500	88.6	88.6	88.6	6-12°	17380	18832	20394
MC00	118	11000	13000	15500	98.4	98.4	98.4	6-12°	17556	19008	20570
M330	130	11000	13000	15500	104.3	104.3	104.3	6-12°	17666	19118	20680
M360	137	11000	13000	15500	108.3	108.3	108.3	6-12°	17732	19184	20788
M375	145	11000	13000	15500	112.2	112.2	112.2	6-12°	17820	19272	20896
M400	157	11000	13000	15500	120.1	120.1	120.1	6-12°	18194	19646	21230
M450	177	11000	13000	15500	130.0	130.0	130.0	6-12°	18370	19822	21406
M500	196	11000	13000	15500	139.8	139.8	139.8	6-6°	18546	19998	21582
M550	216	10450	12540	14520	151.6	151.6	151.6	3-6°	18986	20438	22000
M600	236	9680	11880	14080	161.4	161.4	161.4	3-6°	19162	20614	22176

11,000 - 15,500lbs WIDE VIEW FULL FREE 2-STAGE MAST

Mast model	Max. Fork Height (inch)	Load Capacity (lbs)			Overall Mast Height (At Lowest) (inch)			Free Lift (with Backrest) (inch)	Tilting Angle Fwd/Bed (deg.)	Service Weight (lbs)		
		CPCD50	CPCD60	CPCD70	CPCD50	CPCD60	CPCD70			CPCD50	CPCD60	CPCD70
ZM250	98	11000	13000	15500	87.0	97.0	33.0	6-12*	17622	19074	20636	
ZM300	118	11000	13000	15500	97.0	107.0	42.8	6-12*	17798	19250	20812	
ZM330	130	11000	13000	15500	102.8	112.8	48.7	6-12*	17908	19360	20922	
ZM350	137	11000	13000	15500	106.7	116.7	52.6	6-12*	17974	19426	20988	
ZM375	145	11000	13000	15500	111.6	121.6	57.6	6-12*	18062	19514	21076	
ZM400	157	11000	13000	15500	118.5	128.5	64.4	6-12*	18414	19866	21428	

NOTE: 11,000 - 13,000lbs FREE LIFTING HEIGHT WITHOUT LIFT BRACKET + 18.3"
15,500lbs FREE LIFTING HEIGHT WITHOUT LIFT BRACKET + 12.2"

11,000 - 15,500lbs WIDE VIEW FULL FREE 2-STAGE MAST

Mast model	Max. Fork Height (inch)	Load Capacity (lbs)			Overall Mast Height (At Lowest) (inch)			Free Lift (with Backrest) (inch)	Tilting Angle Fwd/Bed (deg.)	Service Weight (lbs)		
		CPCD50	CPCD60	CPCD70	CPCD50	CPCD60	CPCD70			CPCD50	CPCD60	CPCD70
ZSM360	141" TSU	19900	12320	13640	91.9	91.9	37.9	6-6*	19074	20626	22044	
ZSM400	157" TSU	9900	12320	13640	97.2	97.2	43.2	6-6*	19206	20658	22176	
ZSM435	171" TSU	9900	12320	13640	101.8	101.8	47.7	6-6*	19338	20790	22264	
ZSM480	189" TSU	9900	12320	13640	107.9	107.9	53.8	6-6*	19756	21208	22682	
ZSM500	196" TSU	9900	12320	13640	110.4	110.4	56.4	3-6*	19822	21274	22748	
ZSM540	212" TSU	9240	11660	13200	115.7	115.7	61.7	3-6*	19976	21428	23122	
ZSM600	236" TSU	8800	11000	12100	123.6	123.6	69.6	3-6*	20174	21626	23518	
ZSM650	256" TSU	7920	9460	9900	134.1	134.1	80	3-6*	20416	21868	23762	
ZSM700	275" TSU	6600	7700	8140	138.4	138.4	84.3	3-6*	20658	22110	24024	

NOTE: 11,000 - 13,000lbs FREE LIFTING HEIGHT WITHOUT LIFT BRACKET + 18.3"
15,500lbs FREE LIFTING HEIGHT WITHOUT LIFT BRACKET + 12.2"

22,000lbs FULL FREE LIFT MAST W/SIDE SHIFTER

Mast model	Max. Fork Height (inch)	Load Capacity (lbs)		Overall Mast Height (At Lowest) (inch)		Tilting Angle Fwd/Bed (deg.)	Service Weight (lbs)	
		CPCD80	CPCD100	CPCD80	CPCD100		CPCD80	CPCD100
M250	98	17500	-	96.5	-	6-12*	23914	-
M300	118	17500	22000	106.3	112.2	6-12*	24112	26730
M330	130	17500	22000	112.2	118.1	6-12*	24244	26873
M360	137	17500	22000	116.1	123.6	6-12*	24420	26972
M375	145	17500	22000	121.1	127.0	6-12*	24520	27082
M400	157	17500	22000	128.0	133.9	6-12*	24882	27390
M450	177	17500	22000	137.8	143.7	6-12*	25080	27632
M500	196	16200	22000	147.6	153.5	6-6*	25300	27874
M550	216	15200	19800	159.4	165.4	3-6*	25820	28402
M600	236	15500	17500	169.3	175.2	3-6*	26026	28644

17,500 - 22,000lbs WIDE VIEW FULL FREE 3-STAGE MAST

Mast model	Max. Fork Height (inch)	Load Capacity (lbs)		Overall Mast Height (At Lowest) (mm)		Free Lift (with Backrest) (inch)		Tilting Angle Fwd/Bed (deg.)	Service Weight (lbs)	
		CPCD80	CPCD100	CPCD80	CPCD100	CPCD80	CPCD100		CPCD80	CPCD100
ZSM660	141" TSU	15500	17500	96.5	101.2	43	51.6	6-6	24870	27676
ZSM400	157" TSU	15500	17500	101.4	106.3	47.9	56.7	6-6	25124	27808
ZSM335	171" TSU	15500	17500	106.3	111	52.8	61.4	6-6	25278	27940
ZSM480	189" TSU	15500	16500	112.2	116.9	58.7	67.3	6-6	25454	28072
ZSM500	196" TSU	15500	16500	116.1	119.5	62.7	69.9	3-6	25608	28182
ZSM540	212" TSU	14520	15500	121.1	127	67.6	77.4	3-6	25762	28336
ZSM600	236" TSU	13200	13200	132.9	134.8	79.4	85.2	3-6	26510	28512
ZSM650	256" TSU	12100	12320	141.7	141.5	88.3	91.9	3-6	26730	29150
ZSM700	275" TSU	9900	-	147.6	-	94.2	-	3-6	26928	-

NOTE: 17,500lbs FREE LIFTING HEIGHT WITHOUT LIFT BRACKET + 6.4" (22,000lbs without back rest)



11,000 - 22,000 lbs
H Series
Pneumatic Tire Forklift

STANDARD EQUIPMENT

Hour meter	Overhead guard
Horn	Standard forks
Oil pressure alarm	Neutral switch
Valve	Hydraulic circuit oil filter
Power steering	Radiator tank
Load backrest	Speed-limiting valve
Rear view mirror	Oil meter
Combination lights	Battery-charge indicator
Transmission oil filter	Wide-view mast
Parking brake	Tow pin
Water temperature gauge	Standard seat
Tool case	Hydraulic oil gauge
Rear combo lights	Overhead guard rain cover
Back-up alarm	Torque converter oil gauge
Self-locking tilt valve	
Tilt steering column	

OPTIONS

Cab	Tilt cylinder sleeve
Rotating warning light	Steering cylinder sleeve
Vertical exhaust	User-specified color
Dual air filter	Optional attachments
Suspension seat	
Heater	
Solid pneumatic tires	
Hydraulic fork positioner	
Catalytic converter	
Spark arrestor	
Fire extinguisher	
Rear lights	
Air conditioning (some models)	
Torque converter oil temperature meter	



Frontier Forklifts

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