



Standard configuration	Optional
185" 3-stage full free lift mast.	Back up handle with horn button
Three-spool control valve	Standard fork
Hose block and tackle	Warning lights (Flicker)
ZAPI Mosfet electronic travel controllers and lifting controller	Tilt cylinder (6 fwd/ 5 back)
Engage IV/ Smart display	Smooth cushion tires
Traveling OPS control system	Front combo lights (LED)
DC-DC converter	Rear combo lights (LED)
AC pump motor	Back-up alarm
U.S. standard screw thread	Tow pin
Load backrest	Automatic deceleration when steering
36V system	Side view mirror
	10°/5°(forward/rear) tilt for special mast
	2-stage mast
	Sideshift
	Nonstandard forks in length
	Other attachments
	Warning lights (Buzzer)
	48V system
	Higher or lower height overhead guard
	Battery side-pull
	Rear work light
	Various type tires
	Lifting OPS control system
	Battery charger



\* Details of specifications and equipment are based on information available at time of printing and may change without notice.

**HELI AMERICA INC**  
 ADD: 4025 Welcome All Road, Suite 150 Atlanta, GA30349, U.S.A.  
 E-MAIL: heli@heliforkliftamerica.com  
 TEL: 404-242-3288

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# CPD20-32C

## 4000-6500lbs (2.0-3.2t)

### 36/48V Cushion Tire Forklift

#### G Series AC Electric



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### Improved operator's view

- > Visibility has been improved with narrower mast channels and repositioned hose and cylinders
- > Arc shape of overhead guard and narrow bars allows operator maximum view of raised loads

### Operator comfort

- > Operator compartment has been enhanced by creating more foot and leg room with plenty of head room under the overhead guard
- > Entry and exit from operator's compartment is easy and convenient from both sides of the forklift
- > Comfortable suspension seat is standard with full adjustment for different operators
- > Low, wide step and grab handle make for easy entry to operator's compartment
- > Controls and park brake are within easy reach to reduce operator strain



### Working efficiency

- > Small turning radius makes steering flexible and easy
- > With ZAPI control and AC powered motors, drive and lift systems can be programmed for maximum efficiency
- > Optional side battery removal for easier, quicker battery changes
- > 36V or 48V ZAPI AC controllers and motors for efficient and quieter operation



### Energy efficiency

- > With optimized hydraulic system, truck is more energy efficient
- > All LED lights saves 80% of lighting energy
- > Regenerative motor braking recycles more energy during braking cycles
- > Programmable speed and acceleration settings can be set for maximum energy efficiency

### Safety

- > All Heli forklifts for North America meet ANSI B56.1 Safety Standard for Powered Industrial Trucks as well as meeting requirements for CE approval
- > All Heli forklifts come standard with Operator Presence System
- > Optional rear grab handle and horn button allows operator to safely drive in reverse
- > Strobes, Beacons or Blue Lights and Alarms are all available as required
- > Automatically decelerates during steering operation for greater stability



### Programmable

- > Lift controls are easily programmable to select multi-speed functions for various conditions and applications
- > Drive controls are also easily programmable to set acceleration and deceleration rates for coasting, reverse plugging and service brakes

### Serviceability

- > Removable side and rear panels provide easy access to key components
- > Removable floor board allows for easy access to drive motor and transaxle
- > Easy access to brake fluid reservoir under door in front dash



# CPD20-32C

## Manufacturers Data and Design Characteristics

Characteristics				CPD20		CPD25		CPD25		CPD30		CPD32		
				GA2C/GA2CP		GA2C/GA2CP		GB2C/GB2CP		GA2C/GA2CP		GA2C/GA2CP		
1.01	Manufacturer	HELI												
1.02	Model			CPD20		CPD25		CPD25		CPD30		CPD32		
1.03	Configuration number			GA2C/GA2CP		GA2C/GA2CP		GB2C/GB2CP		GA2C/GA2CP		GA2C/GA2CP		
1.04	Capacity at rated load center	lb	Kg	4000	2000	5000	2500	5500	2500	6000	3000	6500	2950	
1.05	Load center	in	mm	24	500	24	500	24	600	24	500	24	600	
1.06	Power			electric		electric		electric		electric		electric		
1.07	Tire type			cushion		cushion		cushion		cushion		cushion		
1.08	Wheels(x=driven) number front/rear			2x/2		2x/2		2x/2		2x/2		2x/2		
Dimensions														
2.01	Max.lifting height	H	in	mm	185	4700	185	4700	185	4700	185	4700	185	4700
2.02	Max.fork lifting height(with backrest)	H2	in	mm	224	5689	224	5689	224	5689	234	5933	234	5933
2.03	Free lift	H3	in	mm	44	1117	44	1117	44	1117	39	990	39	990
2.04	Forks (length×width×thickness)	L4×W×T	in	mm	42×4.8×1.57	1070×122×40	42×4.8×1.57	1070×122×40	42×4.8×1.57	1070×122×40	42×4.9×1.77	1070×125×45	42×4.9×1.77	1070×125×45
2.05	Fork spacing (out-to-out min/max)	W5	in	mm	9.65/38.4	245/975	9.65/38.4	245/975	9.65/38.4	245/975	9.84/38.4	250/975	9.84/38.4	250/975
2.06	Tilt (forward/backward)	α/β	deg	deg	6/5		6/5		6/5		6/5		6/5	
2.07	Overall length (without fork/with fork)	(L/L)	in	mm	84.8/126.9	2155/3225	85.2/127.3	2165/3235	89.2/131.3	2265/3335	91.4/133.6	2323/3393	92.2/134.3	2341/3411
2.08	Overall width	W1	in	mm	42	1072	42	1072	44	1122	44	1122	44	1122
2.09	Mast overall height(to top of lowered mast)	H1	in	mm	84	2135	84	2135	84	2135	88	2230	88	2230
2.10	Overall height(overhead guard)	H4	in	mm	88.5	2248	88.5	2248	88.5	2248	88.5	2248	88.5	2248
2.11	Seat height to SIP	H7	in	mm	48.7	1238	48.7	1238	48.7	1238	48.7	1238	48.7	1238
2.12	Drawbar pin height	H8	in	mm	10.2	258	10.2	258	10.2	258	10.2	258	10.2	258
2.13	Min. outside turning radius	r	in	mm	72.6	1845	73.0	1855	77.8	1977	79.6	2021	80.2	2037
2.14	Load distance, axle to fork face	L2	in	mm	17.5	445	17.5	445	18.1	460	18.1	460	18.1	460
2.15	Min. aisle-90°stack-zero clearance without load		in	mm	88.8	2255	88.8	2255	88.8	2255	89.3	2267	89.9	2283
2.16	Min. right angle stacking aisle width (pallet 1200×1200, clearance 200mm)	Ast	in	mm	145	3690	146	3700	152	3869	153	3881	153	3897
Performance														
3.01	Travel speed Loaded/Unloaded (36 volt)	mph	km/h	8.5/9.3	14/15	8.5/9.3	14/15	8.1/8.5	13/14	8.1/8.5	13/14	8.1/8.5	13/14	
3.02	Travel speed Loaded/Unloaded (48 volt)	mph	km/h	10.6/10.6	17/17	10.6/10.6	17/17	10.6/10.6	17/17	10.6/10.6	17/17	10.6/10.6	17/17	
3.03	Lift Speed Loaded/Unloaded (36 volt)	fpm	mm/s	57.1/98.4	290/500	57.1/98.4	290/500	53.1/84.6	270/430	53.1/84.6	270/430	53.1/84.6	270/430	
3.04	Lift Speed Loaded/Unloaded (48 volt)	fpm	mm/s	78.7/118.1	400/600	78.7/118.1	400/600	68.9/95.9	350/487	68.9/95.9	350/487	68.9/95.9	350/487	
3.05	Lowering Speed (Loaded/Unloaded)	fpm	mm/s	88.6/78.7	450/400	88.6/78.7	450/400	88.6/78.7	450/400	88.6/78.7	450/400	88.6/78.7	450/400	
3.06	Max.Gradeability Loaded/Unloaded(5 minute rating)	%	%		17/20		17/20		17/20		15/20		15/20	
3.07	Max.drawbar pull Loaded/Unloaded(5 minute rating)	N	N		18000/15070		18000/15070		18000/15070		18000/16010		18000/16010	
Weight														
4.01	Empty (with minimum weight battery)	lb	kg	9903	4496	10432	4736	10826	4915	11377	5165	11597	5265	
4.02	Axle load with rated load (front/rear)	lb	kg	12344 / 1359	5604 / 617	14529 / 1407	6596 / 639	14674 / 1659	6662 / 753	15480 / 1910	7028 / 867	16220 / 1874	7364 / 851	
4.03	Axle load without load (front/rear)	lb	kg	4289 / 4910	1947 / 2229	4626 / 5804	2100 / 2635	5075 / 5749	2304 / 2610	4998 / 6377	2269 / 2895	4892 / 6703	2221 / 3043	
Chassis														
5.01	Tire size (front)	in		21x7-15		21x7-15		21x8-15		21x8-15		21x8-15		
5.02	Tire size (rear)	in		16x6-10.5		16x6-10.5		16x6-10.5		16x6-10.5		16x6-10.5		
5.03	Wheel base	L1	in	mm	53	1340	53	1340	57	1440	57	1440	57	1440
5.04	Tread width (front tread)	W3	in	mm	35.0	890	35.0	890	36.0	915	36.0	915	36.0	915
5.05	Tread width (rear tread)	W2	in	mm	36.2	920	36.2	920	36.2	920	36.2	920	36.2	920
5.06	Ground clearance (at lowest point at mast)	H5	in	mm	3.7	95	3.7	95	3.7	95	3.7	95	3.7	95
5.07	Ground clearance (at center of wheelbase)	H6	in	mm	4.3	110	4.3	110	4.3	110	4.3	110	4.3	110
5.08	Brakes (service/parking)	type	type	Hydraulic-Foot Pedal / Mechanical-Hand Lever										
Electrical														
6.01	Battery capacity at 6 hr. discharge rate (36 volt)	Ah	Kwh	1320	48	1320	48	1540	55	1540	55	1540	55	
6.02	Battery capacity at 6 hr. discharge rate (48 volt)	Ah	Kwh	990	48	990	48	1110	53	1110	53	1110	53	
6.03	Battery weight, minimum	lb	kg	2600	1180	2600	1180	3100	1410	3100	1410	3100	1410	
6.04	Battery weight, maximum	lb	kg	3096	1600	3096	1600	3582	1800	3582	1800	3582	1800	
6.05	Battery battery compartment size, maximum	in	mm	39.25x30.70x24.6	997x780x625	39.25x30.70x24.6	997x780x625	39.25x34.64x24.6	997x880x625	39.25x34.64x24.6	997x880x625	39.25x34.64x24.6	997x880x625	
6.06	Motors drive motor capacity (60 min. rating) (36 / 48 volt)	HP	KW	11.3/20.8	8.4/15.5	11.3/20.8	8.4/15.5	11.3/20.8	8.4/15.5	11.3/20.8	8.4/15.5	11.3/20.8	8.4/15.5	
6.07	Motors lift output (15% rating) (36 / 48 volt)	HP	KW	22.1/26.8	16.5/20	22.1/26.8	16.5/20	22.1/26.8	16.5/20	22.1/26.8	16.5/20	22.1/26.8	16.5/20	
6.08	Controls drive	type	type	MOSFET/AC		MOSFET/AC		MOSFET/AC		MOSFET/AC		MOSFET/AC		
6.09	Controls hydraulic	type	type	MOSFET/AC		MOSFET/AC		MOSFET/AC		MOSFET/AC		MOSFET/AC		
6.10	Hydraulic pressure for attachments	PSI	Mpa	2030	14	2030	14	2030	14	2030	14	2030	14	

