

HELI

3000-4000lbs (1.5-2.0 t)

**36/48V Three Wheel Stand-up
G Series AC Electric Forklift**

CPDSR15-20



heliforklift.ca

CPDSR15-20

FEATURES OF THE COMPLETED TRUCK

Operator comfort

- Rear padding and armrest help reduce fatigue.
- Multifunction control is ergonomically designed and easy to use.
- All controls are within easy reach to help reduce body strain.

Comfortable

- Side stance for operator to see well forward and backward.
- Automatic park brake applies when operator leaves the compartment or shuts forklift off.
- Programmable automatic deceleration in turns adds to safe operation.
- Optional intelligent security control system automatically adjusts tilt angle and drive speed according to mast height and load state.

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 .
- The large battery capacity for longer single shift work operation.
- With standard battery roller and side removal, battery change is quick and easy .

Serviceability

- Side door gives good access to drive motor and gearbox.
- Chassis components are well laid-out can be accessed with removable top and front covers .



Optional intelligent security control system adjusts tilt angle and speed for improved safety



Operator station provides comfort and efficient operation



Great visibility for improved operation and safety



Energy efficiency

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

Improved operator' s view

- Larger, rounded overhead guard is stylish and combined with strategically angled bars provides maximum visibility .
- Newly designed, wide view mast with special chain enlarges the operator' s view looking forward .

CPDSR15-20

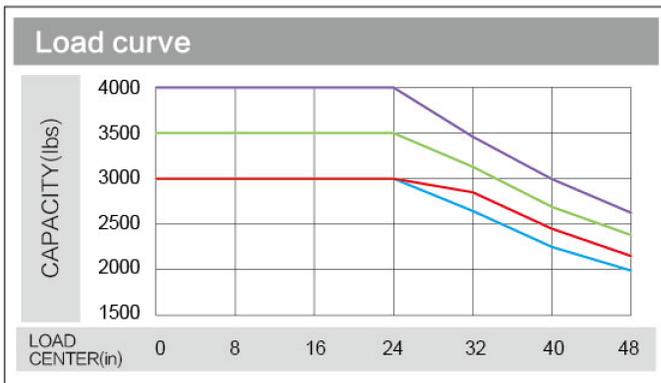
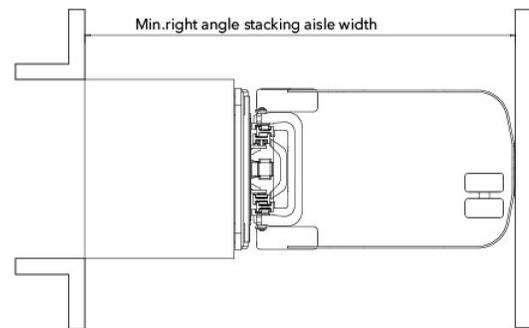
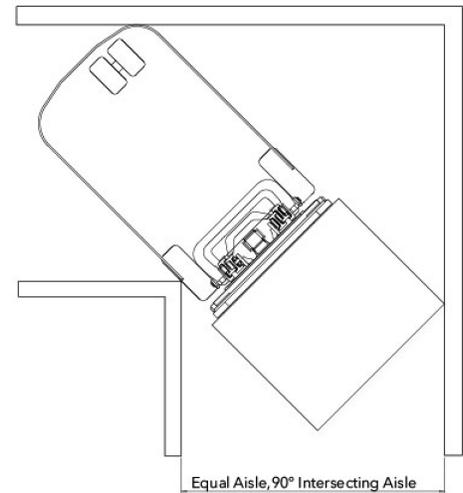
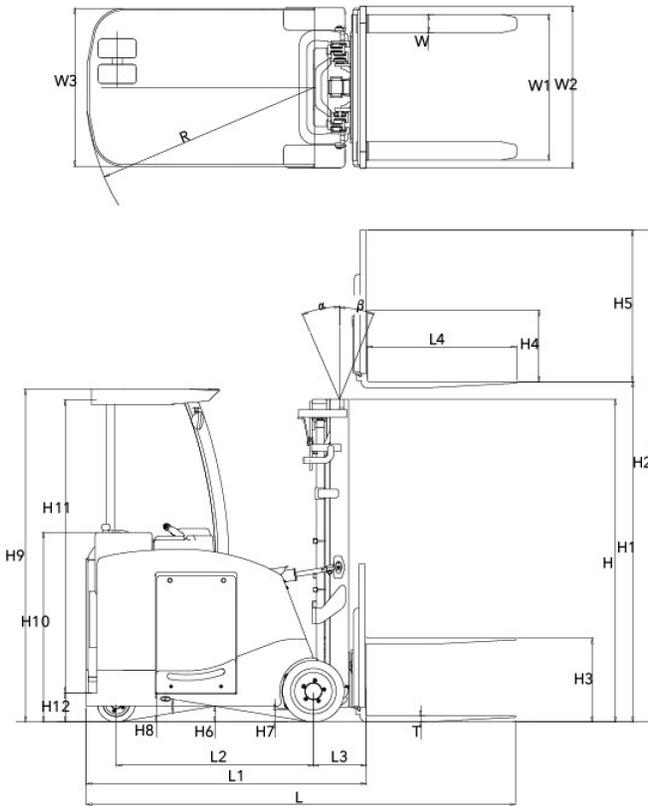
Manufacturer's Data and Design Characteristics

General							
1.01	Manufacturer	HELI					
1.02	Model				CPDSR15		
1.03	Configuration number				GA2		
1.04	Load Capacity ^①		lb	kg	3000	1362	
1.05	Load center		in	mm	24	610	
1.06	Power	Electric			36V		
1.07	Tire type ^②	Solid pneumatic			cushion		
1.08	Wheel(x=driven)	Number front/rear			2×/2		
1.09	Operator Type				Stand-up Rider Counterbalance		
Dimensions							
2.01	Max.lifting height		H1	in	mm	185	4700
2.02	Max.lifting height	With backrest	H2	in	mm	227	5758
2.03	Free lift height		H3	in	mm	45	1145
2.04	Mast overall height		H	in	mm	85	2160
2.05	Forks	Length×width×thickness	L4×W×T	in	mm	42×3.9×1.4	1070×100×35
2.06	Optional lengths		L4	in	mm	33/36/48/54/60	850/920/1220/1370/1520
2.07	Carriage herght	Without load backrest	H4	in	mm	20.4	520
		With load backrest	H5	in	mm	41.7	1058
2.08	Tilt	Forward/backward	α/β	deg		3/5	
2.09	Fork spacing	Out to out min/max	W1	in	mm	37.8/7.8	960/200
2.10	Overall length ^③	Without fork/with fork	L/L1	in	mm	109.8/67.7	2790/1720
2.11	Overall width	Wheel outside	W2	in	mm	42.3	1075
2.12	Chassis width		W3	in	mm	41.7	1058
2.13	turning radius		R	in	mm	55.7	1415
2.14	Wheelbase		L2	in	mm	47.4	1205
2.15	Load distance ^③	Axle to fork face	L3	in	mm	12.7	323
2.16	Equal Aisle ^④	90°intersecting aisle		in	mm	66.5	1688
2.17	Aisle width ^④	Right angle stacking		in	mm	112.8	2865
2.18	Head length ^⑤		H9	in	mm	88	2230
2.19	Inside clearance overhead guard		H11	in	mm	78.2	1987
2.20	Step height		H12	in	mm	7.4	188
2.21	Chassis height		H10	in	mm	50	1271
Performance							
3.01	Travel speed	Loaded/unloaded		mph	km/h	7.2	11.6
3.02	Lift speed	Loaded/unloaded		ft/min	m/s	65/110	0.33/0.56
3.03	Lowering speed	Loaded/unloaded		ft/min	m/s	98.2	0.45
3.04	gadeability 5 minute rating	Loaded/unloaded		%		15/15	
3.05	drawbar pull 5 minute rating	Loaded/unloaded		lbf	N	2925/2655	13000/11800
Weight							
4.01	Truck weight ^⑤	With minimum weight battery		lb	kg	7864	3567
4.02	Front axle load ^⑤	Loaded/unloaded (with battery)		lb	kg	9687/4542	4394/2060
4.03	Rear axle load ^⑤	loaded/unloaded (with battery)		lb	kg	1043/3322	473/1507
Chassis							
5.01	Type size	Front				16.25×6-11.25	
5.02	Type size	Rear				10×5-6.5	
5.03	Tread width	Front		in	mm	36.3	922
5.04	Tread width	Rear		in	mm	6.7	170.5
5.05	Ground clearance	At lowest point at mast		in	mm	3.8	95
5.06		Center of wheelbase		in	mm	4	101.5
5.07		Lowest point		in	mm	3	76
5.08	Battery roller height			in	mm	7.1	180
5.09	Grade clearance	Loaded		%		36.2	
5.10	Brakes	Service/parking				Foot-motor/Auto-electric	
Electrical							
6.01	Battery	Capacity at 6 hr.Discharge rate		Ah	kwh	930	32.5
		Min.Battery weight		lb	kg	1980	898
		Max.Battery weight		lb	kg	2300	1043
		Battery compartment size, maximum		in	mm	16.5×38.5×31	420×980×787
6.02	Motor	Drive motor capacity, 60min.Rating		hp	kw	6.1	4.5
		Pump motor capacity, 15%.Rating		hp	kw	14.75	11
		Steering motor capacity, 50%.Rating		hp	kw	0.54	0.4
		Controls,drive、hydraulic、steering		type		MOSFET/AC	
		Number of speed		All motors		Infinitely variable	

NOTE: ① Optional masts, attachments, longer load dimensions and higher lifting heights may result in derating of the capacity. contact your local dealer. ② Tire type can change polyurethane.
 ③ If truck is equipped with an integral sideshifter, add 1.2 in.
 ④ With 48" long and 40" wide pallet load, wide view full free 3-stage mast, allowing zero clearance, right angle stacking = Turn Radius + Load Distance + Load Length + Clearance.
 ⑤ With wide view full free 3-stage mast, mast model ZSM470



General						
1.01	HELI					
1.02	CPDSR15		CPDSR18		CPDSR20	
1.03	GB2		GA2		GA2	
1.04	3000	1362	3500	1589	4000	1816
1.05	24	610	24	610	24	610
1.06	36V		36V		36V	
1.07	cushion		cushion		cushion	
1.08	2×/2		2×/2		2×/2	
1.09	Stand-up Rider Counterbalance		Stand-up Rider Counterbalance		Stand-up Rider Counterbalance	
Dimensions						
2.01	185	4700	185	4700	185	4700
2.02	227	5758	227	5758	227	5758
2.03	45	1145	45	1145	45	1145
2.04	85	2160	85	2160	85	2160
2.05	42×3.9×1.4	1070×100×35	42×3.9×1.4	1070×100×35	42×4.8×1.6	1070×122×40
2.06	33/36/48/54/60	850/920/1220/1370/1520	33/36/48/54/60	850/920/1220/1370/1520	33/36/48/54/60	850/920/1220/1370/1520
2.07	20.4	520	20.4	520	20.4	520
	41.7	1058	41.7	1058	41.7	1058
2.08	3/5		3/5		3/5	
2.09	37.8/7.8	960/200	37.8/7.8	960/200	37.8/7.8	960/200
2.10	111.8/69.7	2840/1770	111.8/69.7	2840/1770	114.4/72.2	2905/1835
2.11	42.3	1075	42.3	1075	42.3	1075
2.12	41.7	1058	41.7	1058	41.7	1058
2.13	57.7	1465	57.7	1465	60	1525
2.14	49.4	1255	49.4	1255	52	1320
2.15	12.7	323	12.7	323	12.7	323
2.16	67.2	1706	67.2	1706	68.1	1729
2.17	114.8	2915	114.8	2915	117	2975
2.18	88	2230	88	2230	88	2230
2.19	78.2	1987	78.2	1987	78.2	1987
2.20	7.4	188	7.4	188	7.4	188
2.21	50	1271	50	1271	50	1271
Performance						
3.01	7.2	11.6	7.2	11.6	7.2	11.6
3.02	65/110	0.33/0.56	65/110	0.33/0.56	61/105	0.31/0.53
3.03	98.2	0.45	98.2	0.45	98.2	0.45
3.04	15/15		15/15		15/15	
3.05	2925/2655	13000/11800	3442/3038	15300/13500	3442/3038	15300/13500
Weight						
4.01	8208	3723	8510	3860	8854	4016
4.02	9943/4656	4510/2112	10580/4736	4799/2148	11226/4934	5092/2238
4.03	1263/3550	573/1610	1237/3774	561/1712	1265/3920	574/1778
Chassis						
5.01	16.25×6-11.25		16.25×6-11.25		16.25×6-11.25	
5.02	10×5-6.5		10×5-6.5		10×5-6.5	
5.03	36.3	922	36.3	922	36.3	922
5.04	6.7	170.5	6.7	170.5	6.7	170.5
5.05	3.8	95	3.8	95	3.8	95
5.06	4	101.5	4	101.5	4	101.5
5.07	3	76	3	76	3	76
5.08	7.1	180	7.1	180	7.1	180
5.09	34.7		34.7		32.9	
5.10	Foot-motor/Auto-electric		Foot-motor/Auto-electric		Foot-motor/Auto-electric	
Electrical						
6.01	1085	37.9	1085	37.9	1240	43.3
	2300	1043	2300	1043	2500	1134
	2700	1225	2700	1225	3050	1380
	18.5×38.5×31	480×980×787	18.5×38.5×31	470×980×787	21×38.5×31	535×980×787
6.02	6.1	4.5	6.1	4.5	6.1	4.5
	14.75	11	14.75	11	14.75	11
	0.54	0.4	0.54	0.4	0.54	0.4
	MOSFET/AC Infinitely variable		MOSFET/AC Infinitely variable		MOSFET/AC Infinitely variable	



CPDSR15-GA2 CPDSR15-GB2 CPDSR18-GA2 CPDSR20-GA2

Note: The vertical axis is the load capacity, and the horizontal axis is the load center, which is calculated from the front face of the forks to the load center of gravity. Capacity curves shown are for a standard mast at zero-degree tilt with standard forks. Changing mast tilt, using non-standard forks or loading large goods can affect load capacity. This chart can be used to estimate load capacity at various load centers for standard masts. Contact HELI for specific load ratings for your situation.



RENEWABLE ENERGY TECHNOLOGIES

With the AC controlling renewable energy technologies, the forklift is more energy-saving and the working hour of the battery is extended by 15%.



15%

BATTERY COMPARTMENT SIZE

MODEL	Battery Specifications						Min weight lbs	Max weight lbs		
	Size(Max.)			Electrial						
	DimL	DimH	DimH	Volts	AH	Type				
CPD15SQ-GA2R	38.5	16.5	31	36	750	E125	1980	2250		
930					E155					
775					5PZS775					
48				550	5PZB 550H					
				36	875	E125			2300	2600
					1085	E155				
840		8PZB840								
48		660		6PZB 660H						
		36		875	E125	2300	2600			
				1085	E155					
840				8PZB840						
48		660		6PZB 660H						
	36	1000	E125	2590	3050					
		1240	E155							
945		9PZB945								
48	770	7PZB 770H								

WIDE VIEW MAST

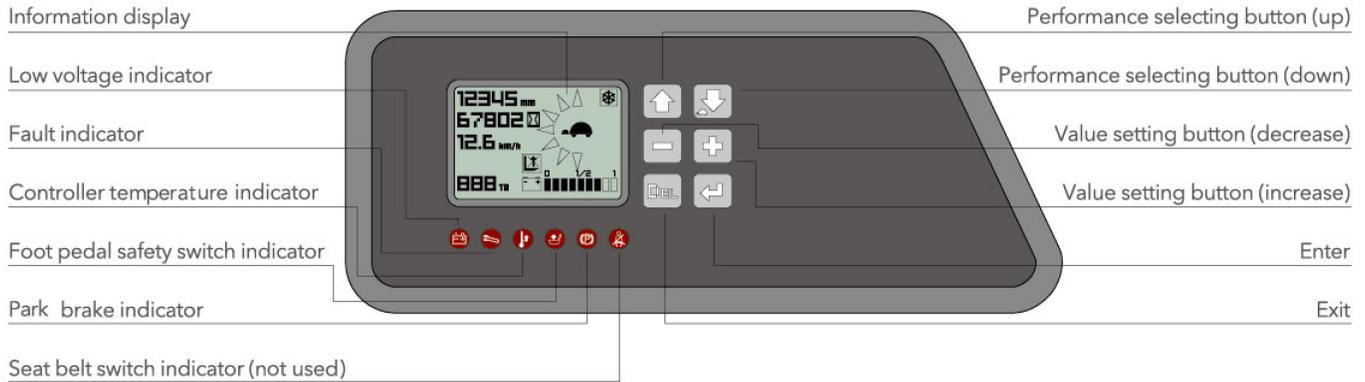
Mast model	Maximum Fork Height H1	Capacity(load center 24")								Overall Height H	Mast Extended height H2	Freelift with backrest H3	Tilt Range α/β	Service Weight(unload)			
		CPDSR15-GA2		CPDSR15-GB2		CPDSR18-GA2		CPDSR20-GA2						CPDSR15-GA2	CPDSR15-GB2	CPDSR18-GA2	CPDSR20-GA2
		Integral sideshifter	Integral sideshifter	Integral sideshifter	Integral sideshifter	Integral sideshifter	Integral sideshifter	Integral sideshifter	Integral sideshifter					lb/kg	lb/kg	lb/kg	lb/kg
in(mm)	lb/kg	lb/kg	lb/kg	lb/kg	lb/kg	lb/kg	lb/kg	in/mm	in/mm	in/mm	deg.	lb/kg	lb/kg	lb/kg	lb/kg		
M250	98/2500	3000/1360	3000/1360	3000/1360	3000/1360	3500/1590	3500/1590	4000/1815	4000/1815	70/1775	140/3558	3.3/85	3/5	7378/3346	7722/3502	8037/3645	8381/3801
M300	118/3000	3000/1360	3000/1360	3000/1360	3000/1360	3500/1590	3500/1590	4000/1815	4000/1815	80/2025	160/4058	3.3/85	3/5	7437/3373	7781/3529	8101/3674	8445/3830
M330	130/3300	3000/1360	3000/1360	3000/1360	3000/1360	3500/1590	3500/1590	4000/1815	4000/1815	86/2175	172/4358	3.3/85	3/5	7475/3390	7819/3546	8139/3691	8483/3847
M350	138/3500	3000/1360	3000/1360	3000/1360	3000/1360	3500/1590	3500/1590	4000/1815	4000/1815	90/2275	180/4558	3.3/85	3/5	7499/3401	7843/3557	8167/3704	8511/3860
M370	146/3700	3000/1360	3000/1360	3000/1360	3000/1360	3500/1590	3500/1590	4000/1815	4000/1815	93/2375	187/4758	3.3/85	3/5	7523/3412	7867/3568	8194/3716	8538/3872
M400	157/4000	3000/1360	3000/1360	3000/1360	3000/1360	3500/1590	3500/1590	4000/1815	3858/1750	101/2575	199/5058	3.3/85	3/5	7634/3462	7978/3618	8306/3767	8650/3923
M425	167/4250	3000/1360	2756/1250	3000/1360	3000/1360	3500/1590	3417/1550	3748/1700	3638/1650	106/2700	209/5308	3.3/85	3/5	7665/3476	8009/3632	8339/3782	8683/3938
M450	177/4500	2756/1250	2425/1100	3000/1360	3000/1360	3329/1510	3219/1460	3638/1650	3527/1600	111/2825	219/5558	3.3/85	3/5	7693/3489	8037/3645	8370/3796	8714/3952
M500	197/5000	2491/1130	2535/1150	2866/1300	2800/1270	3000/1360	2910/1320	3351/1520	3240/1470	121/3075	238/6058	3.3/85	3/5	7753/3516	8097/3672	8436/3826	8780/3982
M550	217/5500	2227/1010	2160/980	2535/1150	2425/1100	2690/1220	2580/1170	3000/1360	2866/1300	133/3375	258/6558	3.3/85	3/5	7945/3603	8289/3759	8575/3889	8919/4045
M600	236/6000	1985/900	1764/800	2205/1000	1985/900	2425/1100	2205/1000	2535/1150	2425/1100	143/3625	278/7058	3.3/85	3/5	8004/3630	8348/3786	8641/3919	8985/4075

WIDE VIEW FULL FREE 3-STAGE MAST

Mast model	Maximum Fork Height H1	Capacity(load center 24")								Overall Height H	Mast Extended height H2	Freelift with backrest H3	Tilt Range α/β	Service Weight(unload)			
		CPDSR15-GA2		CPDSR15-GB2		CPDSR18-GA2		CPDSR20-GA2						CPDSR15-GA2	CPDSR15-GB2	CPDSR18-GA2	CPDSR20-GA2
		Integral sideshifter	Integral sideshifter	Integral sideshifter	Integral sideshifter	Integral sideshifter	Integral sideshifter	Integral sideshifter	Integral sideshifter					lb/kg	lb/kg	lb/kg	lb/kg
in(mm)	lb/kg	lb/kg	lb/kg	lb/kg	lb/kg	lb/kg	lb/kg	in/mm	in/mm	in/mm	deg.	lb/kg	lb/kg	lb/kg	lb/kg		
ZSM360	142/3600	3000/1360	3000/1360	3000/1360	3000/1360	3500/1590	3500/1590	4000/1815	3968/1800	70/1775	160/4658	31/775	3/5	7713/3498	8057/3654	8359/3791	8703/3947
ZSM400	157/4000	3000/1360	2910/1320	3000/1360	3000/1360	3500/1590	3500/1590	3924/1780	3836/1740	76/1925	199/5058	36/910	3/5	7768/3523	8112/3679	8414/3816	8758/3972
ZSM435	171/4350	2910/1320	2822/1280	3000/1360	3000/1360	3500/1590	3417/1550	3858/1750	3748/1700	80/2025	213/5408	40/1025	3/5	7815/3544	8159/3700	8461/3837	8805/3993
ZSM450	177/4500	2800/1270	2800/1230	3000/1360	3000/1360	3417/1550	3373/1500	3748/1700	3638/1650	82/2090	219/5558	42/1075	3/5	7837/3554	8181/3710	8483/3847	8827/4003
ZSM470	185/4700	2756/1250	2646/1200	3000/1360	3000/1360	3373/1500	3197/1450	3638/1650	3527/1600	85/2160	227/5758	45/1145	3/5	7865/3567	8209/3728	8511/3860	8855/4016
ZSM480	189/4800	2756/1250	2646/1200	3000/1360	3000/1360	3373/1500	3197/1450	3638/1650	3527/1600	86/2190	231/5858	46/1175	3/5	7876/3572	8220/3728	8522/3865	8866/4021
ZSM500	197/5000	2691/1130	2535/1150	2932/1330	2778/1260	3042/1380	2954/1340	3351/1520	3263/1480	90/2290	239/6058	50/1275	3/5	7936/3599	8280/3755	8582/3892	8926/4048
ZSM540	213/5400	2227/1010	2160/980	2646/1200	2491/1130	2734/1240	2646/1200	3000/1360	2910/1320	95/2425	254/6458	56/1410	3/5	8037/3645	8381/3801	8683/3938	9027/4094
ZSM600	236/6000	1896/860	1764/800	2271/1000	2138/970	2359/1070	2271/1030	2646/1200	2535/1150	104/2640	278/7058	65/1625	3/5	8123/3684	8467/3840	8769/3977	9113/4133
ZSM650	256/6500	1609/730	1543/700	1984/880	1874/850	2050/930	1984/900	2315/1050	2205/1000	111/2830	298/7558	71/1815	3/5	8198/3718	8542/3874	8844/4011	9188/4167

Reliable special designed instrument

ZAPI intelligent display provides vital information such as speed and battery discharge status, and is used to customize performance parameters



ZAPI intelligent display for GA2&GB2

Standard configuration

- Wide view standard mast
- Integral sideshifter
- Standard fork
- Class II standard carriage
- Load backrest
- Three-spool proportion control valve
- Joystick
- 88" Overhead guard
- LCD combined display
- Solid tire
- Wide-angle rearview mirror
- LED front work lights
- LED warning light(flashing)
- Electric horn
- USB charging output
- EPS (Electronic power steering)
- Automatic steering slow down device
- Regenerative braking
- Electronic Packing brake
- OPS (Operator presence sensing)
- Battery side extraction
- Electronic lift buffer
- Hydraulic drop buffer
- Driving speed decreases during high lift

Optional device

- Wide view full free 3-stage mast
- LED Warning lights(rotating/buzzer)
- Polyurethane tires
- Traceless tires
- Rear work light
- Blue safety light
- Long forks
- Lower type overhead guard
- Accessory hydraulic component
- Tilt cylinder protection sleeve
- Customer color
- Battery loading and unloading car
- Intelligent security control system
- Stop at the height specified position
- Wireless monitoring
- Adjustable elbow support



HELI CANADA
 5705, place Kubota
 Drummondville (Qc)
 Canada, J2B 6V4
 1-833-HELICAN
 info@heliforklift.ca
 heliforklift.ca



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