

4000-7000 lbs (2-3.5 ton) H3 IC Pneumatic Tire Forklift CPCD20-35 & CP(Q)YD20-35





CPCD20-35 & CP(Q)YD20-35

Heli H3 Series Features

Improved performance, superior quality





> Ergonomics

- Vibration isolators separate the operator compartment from the main frame and the engine/transmission which absorb the truck's vibration for increased operator comfort
- > Engine performance and repositioned hydraulic pump offer quieter and smoother operation and less noise
- > Improved hydraulic control functions also reduce noise and increase performance

> Operator Comfort - Visibility

- Operator compartment has been enhanced by creating more foot and leg room with plenty of head room under the overhead guard
- Visibility has been improved with narrower mast channels and more open overhead guard
- > Higher contrast LED display makes it easier to see in all lighting conditions
- > 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

> 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







> Increased Productivity

- > Smaller turning radius and hydraulic power steering makes for tighter turns and easier steering operation
- Reliable powershift transmission relieves operator from constantly shifting transmission
- > H3 series hydraulic performance has been enhanced for maximum productivity
- Ergonomically designed operator's compartment enhances operator productivity, as well as providing safety and comfort

> Improved Performance

- > All aluminum radiator increases air flow and dissipates heat more efficiently
- > Smaller steering wheel with fewer turns lock-to-lock for quicker turns
- 35% faster lifting speeds over previous generations
 Lifting cylinders are damped to reduce noise and provide smoother operation
- > Heavy duty powertrain offers exceptional performance in all applications

> Serviceability

- > Hood opens to an 80 degree angle and floor board is removable for easier access to all important chassis components
- > Electrical system, wiring, and hydraulic hoses are convenient and logically laid out with access from above and below
- > All grease points are accessible, including cast steel axle
- Lubrication chart is located on front of operator compartment to highlight essential lubrication requirements



CPQC20-35 & CP(Q)YD20-35

Mai	nufacturer and technical parameters						
	Characteristic						
1.01	Manufacturer						
1.02	Model				CPCD20/ C	:P(Q)(Y)D20	\top
1.03	Rated Capacity		lbs	kg	4000	2000	+
1.04	Load Center		in	mm	24	500	
1.05	Operation Type						
	Dimension Parameter						
2.01	Max.Lifting Height(without backrest)	Н	in	mm	118.2	3000	
2.02	Overall Lowered Height	H1	in	mm	78.8	2000	+
2.03	Max.Lifting Height(with backrest)	H2	in	mm	158.8	4030	+
2.04	Free Lifting Height	H3	in	mm	6.5	165	
2.05	Overall Height(to overhead guard)	H4	in	mm	84.7	2150	1
2.06	Min.Ground Clearance(under mast)	H5	in	mm	4.5	115	
2.07	Overhead guard clearance(from seat face)	H6	in	in	40.6	1030	
2.08	Tow Pin Height	H9	in	mm	10.8	275	1
2.09	Backrest Height(From the surface of the fork)	H13	in	mm	39.4	1000	
2.10	Overall Length(without Forks)	(L/L')	in	mm	101.7	2580	
2.11	Wheelbase	L1	in	mm	65	1650	
2.12	Front Overhang	L2	in	mm	18.6	473	
2.13	Rear Overhang	L3	in	mm	18	457	
2.14	Overall Width	W1	in	mm	45.3	1150	
2.15	Tread(Front Tread/Rear Tread)	(W3/W2)	in	mm	38.2/38.2	970/970	
2.16	Lateral Fork Adjustment(Outside of Forks)	W5	in	mm	40.6/9.6	244/1030	
2.17	Min.Turning Radius Outside	r	in	mm	85.5	2170	
2.18	Min.Ground Clearance(wheelbase centre)	r'	in	mm	7.1	180	
2.19	Min. Right Angle Stacking Aside Width	Ra	in	mm	86.7	2200	
2.20	Mast Tilt(fwd/bwd)	α/β	deg	deg	6/12	6/12	
2.21	Fork Dimensions (Length*Width*Thicknes)	L4×W×T	in	mm	36*4.8*1.6	920*122*40	
	Weights						
3.01	Standard Truck Weight Unload		lbs	kg	7540	3420	
3.02	Weight Distribution Rated Load(front/rear)		lbs	kg	10516/1433	4770/650	
3.03	Weight Distribution Unload(front/rear)		lbs	kg	3527/4013	1600/1820	
	Wheels&Tires						
4.01	Wheel Number(x=driven wheel),front/rear						
4.02	Tire Type,front/rear						
4.03	Tire Size,front/rear				7.00-12-12PR	/ 6.00-9-10PR	
4.04	Service Brake						
4.05	Parking Brake						

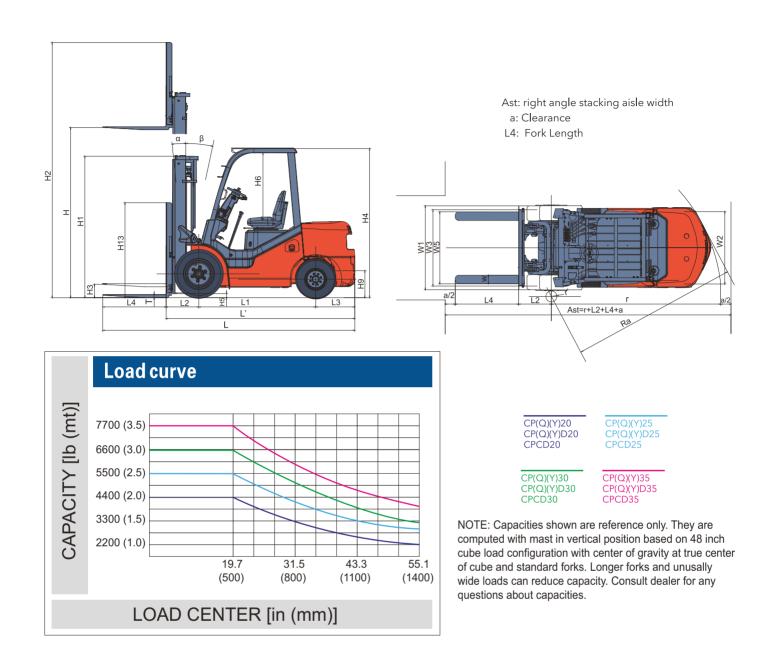
Performance										
Model			CPC	D20	CPC	D25	CPC	D30	CPC	D35
Max.Drawbar pull(Load/unload)	lbf	KN	4280/2740	19/12	4688/2740	21/12	4275/3263	19/14.5	4725/3263	21/14
Max.Gradeability(Load/Unload)	%	%	39.	/27	36.	/22	27,	/21	21/	′20
Max.Traveling Speed(Load/Unload)	mph	Km/h	10.6/11.2	17/18	9.9/10.6	16/17	10.6/11.2	17/18	11.2/11.8	18/1
Lifting Speed(Load/unload)	ft/min	mm/s	110/118	560/600	110/118	560/600	98.5/108	500/550	78.8/82.7	400/4
Lowing Speed(Load/unload)	ft/min	mm/s	88.7/98.5	450/500	88.7/98.5	450/500	88.7/108	450/550	69/78.8	350/4
Engine and Gearbox										
Engine Manufacturer/Model			KUBOTA V2403							
Rated Power	hp/rpm	Kw/rpm	57.9/2400	43.2//2400	57.9/2400	43.2//2400	57.9/2400	43.2//2400	57.9/2400	43.2//2
Rated Torque	lb.ft/rpm	Nm/rpm	146.4/1600	198.5/1600	146.4/1600	198.5/1600	146.4/1600	198.5/1600	146.4/1600	198.5/1
Cyl. Number-bore*stroke						4-87×	102.4			
Displacement	L	L				2.4	134			
Engine Type						Die	esel			
Emission						Euro IIIB/E	EPA Tier 4			
Battery Capacity	V/Ah	V/Ah				12.	/80			
Fuel Tank Capacity	L	L								
Number of speed(fwd/bwd)										



	HE	L			
CPCD25/	CP(Q)(Y)D25	CPCD30/ C	CP(Q)(Y)D30	CPCD35/ C	P(Q)(Y)D35
5000	2500	6000	3000	7000	3500
24	500	24	500	24	500
	Seat-	type			
118.2	3000	118.2	3000	118.2	3000
78.8	2000	81.4	2065	85.9	2180
158.8	4030	167.3	4245	166.9	4235
6.5	165	6.3	160	6.7	170
84.7	2150	85.5	2170	85.5	2170
4.5	115	5.3	135	5.3	135
40.6	1030	40.6	1030	40.6	1030
10.8	275	11	280	11	280
39.4	1000	48.3	1227	48.1	1222
103.9	2638	108.3	2748	109	2766
65	1650	67	1700	67	1700
18.6	473	18.8	478	19.5	496
20.3	515	22.5	570	22.5	570
45.3	1150	48.3	1225	48.3	1225
38.2/38.2	970/970	39.4/38.2	1000/970	39.4/38.2	1000/970
40.6/9.6	244/1030	41.8/9.9	250/1060	41.8/9.9	250/1060
88.3	2240	94.6	2400	95.3	2420
7.1	180	7.9	200	7.9	200
89.8	2280	93.8	2380	94.6	2400
6/12	6/12	6/12	6/12	6/12	6/12
12*4.8*1.6	1070*122*40	42*4.9*1.8	1070*125*45	42*4.9*2.0	1070*125*50
	'		'		
8377	3800	9634	4370	10582	4800
2081/1808	5480/820	14242/2006	6460/910	16468/1830	7470/830
3439/4938	1560/2240	3770/5864	1710/2660	4145/6437	1880/2920
	2X	/2			
	Pnuema	tic Tire			
7.00-12-12P	R/ 6.00-9-10PR	28×9-15-12PR	/ 6.50-10-10PR	28×9-15-14PR	/ 6.50-10-10PR
	Hydraulic-f	Foot Pedal			

	CPC	D20	CPC	D25	CPC	D30	CPC	D35	CP(Q)(Y)D20	CP(Q)(Y)D25		
1.5	3600/2588	16/11.5	3713/2588	16.5/11.5	4275/3263	19/14.5	4725/3263	21/14.5	3375/2363	15/10.5	3375/2363	15/10.5	38.
	20/	/20	20/	′20	23/	'20	21/	20	33/	26	31/.	22	
9	10.6/11.8	17/19	10.6/11.8	17/19	11.8/12.4	19/20	11.8/11.8	19/19	11.2/11.8	18/19	11.2/11.8	18/19	11
20	110/118	560/600	110/118	560/600	98.5/108	500/550	78.8/82.7	400/420	98.5/108	500/550	98.5/108	500/550	94
-00	88.7/98.5	450/500	88.7/98.5	450/500	88.7/108	450/550	69/78.8	350/400	88.7/98.5	450/500	88.7/98.5	450/500	88

				KUBOT/	A V2403					Mitsubishi 4G		
			45.7/2400						GAS:64.3/2700 LPG:61.6/2700	GAS:48/2700 LPG:46/2700	LPG:61.6/2700	GAS:48/2700 GAS LPG:46/2700 LPG
600	115.1/1800	155.9/1800	115.1/1800	155.9/1800	115.1/1800	155.9/1800	115.1/1800	155.9/1800	GAS:125.5/2400 LPG:124/1600	GAS170/2400 LPG:168/1600	GAS:125.5/2400 LPG:124/1600	GAS170/2400 GAS LPG:168/1600 LPG
				4-87×	×102.4					4-86.5x1(
				2.4					2.351			
				Di€	esel							GAS/LP(
				Euro IIIA	A/EPA T4I							Tier IV
				12/					12/60			
						60						



CP(Q)(Y)D30	CP(Q)(Y)D35	CP(Q)	(Y)D20	CP(Q)	(Y)D25	CP(Q)	(Y)D30	CP(Q)	(Y)D30
25/3038	17/13.5	4050/3038	18/13.5	3600/2363	16/10.5	3713/2363	16.5/10.5	4050/3038	18/13.5	4500/3038	20/13.5
31/	'22	18/	21	23.	/12	23.	/12	22.	/13	21.	/20
1.8/11.8	19/19	11.8/11.8	19/19	11.8/12.4	19/20	11.8/12.4	19/20	11.8/12.4	19/20	11.8/12.4	19/20
4.6/106	480/540	80.8/88.7	410/450	112/122	570/620	112/122	570/620	94.6/106	480/540	80.8/88.7	410/450
8.7/108	450/550	69/78.8	350/400	88.7/98.5	450/500	88.7/98.5	450/500	88.7/108	450/550	69/78.8	350/400
64(PSI)							GM	3.0			
5:64.3/2700 5:61.6/2700	GAS:48/2700 LPG:46/2700	GAS:64.3/2700 LPG:61.6/2700	GAS:48/2700 LPG:46/2700	67/2700	50/2700	67/2700	50/2700	67/2700	50/2700	67/2700	50/2700
:125.5/2400 G:124/1600	GAS170/2400 LPG:168/1600	GAS-125 5/2400	GAS170/2400 LPG:168/1600	150/1800	202.7/1800	150/1800	202.7/1800	150/1800	202.7/1800	150/1800	202.7/1800
00							4-102	x91.5			
							3	3			
G							GAS.	/LPG			
							Tie	r IV			
12/80											
12700											



Wide v	view basic	type mast											
	Max.	Loading	g capacity- loa	ding center 2	4 inch	Mast Overal	Heigh-fork to	the ground		Service	e Weight		
Mast type	lifting height	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	CPCD20/ CP(Q)(Y)D20	CPCD25/ CP(Q)(Y)D25	CPCD30/ CP(Q)(Y)D30	CPCD35/ CP(Q)(Y)D35	Mast tilt angle (Fwd/Bwd)
	in/mm	lbs/kg	lbs/kg	lbs/kg	lbs/kg	in/mm	in/mm	in/mm	lbs/kg	lbs/kg	lbs/kg	lbs/kg	deg
M200	79/2000	4000/1820	5000/2270	6000/2730	7000/3175	59/1500	62/1570	66/1680	7363/3340	8201/3720	9435/4280	10361/4700	6/12
M250	99/2500	4000/1820	5000/2270	6000/2730	7000/3175	69/1750	72/1820	76/1930	7462/3385	8300/3765	9556/4335	10471/4750	6/12
M300	118/3000	4000/1820	5000/2270	6000/2730	7000/3175	79/2000	82/2070	86/2180	7539/3420	8377/3800	9634/4370	10582/4800	6/12
M330	130/3300	4000/1820	5000/2270	6000/2730	7000/3175	85/2150	87/2220	92/2330	7627/3460	8465/3840	9689/4395	10648/4830	6/12
M350	138/3500	4000/1820	5000/2270	6000/2730	7000/3175	89/2250	91/2320	96/2430	7672/3480	8509/3860	9744/4420	10692/4850	6/12
M370	146/3700	4000/1820	5000/2270	6000/2730	7000/3175	93/2350	95/2420	100/2530	7716/3500	8553/3880	9766/4430	10736/4870	6/6 *6/12
M400	158/4000	4000/1820	5000/2270	6000/2730	6400/2900 *7000/3175	100/2550	103/2620	108/2730	7859/3565	8697/3945	9898/4490	10890/4940	6/6 *6/12
M425	168/4250	3800 /1725 *4000/1820	4500 /2040 *5000/2270	5700/2585 *6000/2730	6200/2815 *6400/2900	105/2675	108/2745	112/2855	7914/3590	8752/3970	9942/4510	10956/4970	6/6 *6/12
M450	177/4500	3600 /1630 *3800/1725	4200/1905 *4800/2175	5200/2360 *6000/2730	6000/2730 *6100/2765	110/2800	113/2870	117/2980	7969/3615	8807/3995	9997/4535	11000/4990	6/6 *6/12
M500	197/5000	3200/1450 *3400/1540	3300/1495 *4400/1995	4200/1905 *5700/2585	4200/1905 *5700/2585	120/3050	123/3120	127/3230	8057/3655	8895/4035	10086/4575	11111/5040	6/6 *6/12
M550	217/5500	*3200/1450	*3900/1770	*4800/2175	*4800/2175	132/3350	135/3420	139/3530	8245/3740	9082/4120	10460/4745	11563/5245	*3/6
M600	236/6000	*3000/1360	*3600/1630	*4000/1820	*4000/1820	142/3600	145/3670	149/3780	8344/3785	9182/4165	10571/4795	11651/5285	*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.

Wide	view Ful	l Free 2-	stage m	ast												
	Max.	Loading	g capacity- lo	ading cente	r 24 inch	Mast Overal	Heigh-fork to	the ground	Free Lifting	g Height-witl	h backrest		Service	Weight		Mast tilt
Mast type	lifting height				CPCD35/ CP(Q)(Y)D35	2 - 2.5t	3t	3.5t	2-2.5t	3t	3.5t		CPCD25/ CP(Q)(Y)D25	CPCD30/ CP(Q)(Y)D30	CPCD35/ CP(Q)(Y)D35	angle (Fwd/Bwd)
	in/mm	lbs/kg	lbs/kg	lbs/kg	lbs/kg	in/mm	in/mm	in/mm	in/mm	in/mm	in/mm	lbs/kg	lbs/kg	lbs/kg	lbs/kg	deg
ZM200	79/2000	4000/1820	5000/2270	6000/2730	7000/3175	59/1500	62/1570	66/1680	20/495	13/340	18/460	7650/3470	8488/3850	9546/4330	10516/4770	6/12
ZM250	99/2500	4000/1820	5000/2270	6000/2730	7000/3175	69/1750	72/1820	76/1930	29/745	23/590	28/710	7749/3515	8587/3895	9634/4370	10626/4820	6/12
ZM300	118/3000	4000/1820	5000/2270	6000/2730	7000/3175	79/2000	82/2070	86/2180	39/995	33/840	38/960	7859/3565	8697/3945	9744/4420	10736/4870	6/12
ZM330	130/3300	4000/1820	5000/2270	6000/2730	7000/3175	85/2150	87/2220	92/2330	45/1145	39/990	43/1100	7926/3595	8763/3975	9799/4445	10792/4895	6/12
ZM350	138/3500	4000/1820	5000/2270	6000/2730	7000/3175	89/2250	91/2320	96/2430	49/1245	43/1090	48/1210	7970/3615	8807/3995	9844/4465	10836/4915	6/6 *6/12
ZM370	146/3700	4000/1820	5000/2270	6000/2730	7000/3175	93/2350	95/2420	100/2530	54/1370	47/1205	52/1310	8016/3635	8851/4015	9877/4480	10880/4935	6/6 *6/12
ZM400	158/4000	4000/1820	5000/2270	6000/2730	6400/2900 *7000/3175	100/2550	103/2620	108/2730	61/1545	55/1390	59/1510	8168/3705	9006/4085	10031/4550	11023/5000	6/6 *6/12
ZM425	168/4250		4500/2040	5700/2585		105/2675	108/2745	112/2855	66/1670	60/1515	64/1635	8223/3730	9061/4110	10086/4575	11078/5025	/ //
ZM450	177/4500	3600/1630 *3800/1725	4200/1905		6000/2730	110/2800	113/2870	117/2980	71/1795	65/1640	69/1760	8278/3755	9116/4135	10130/4595	11133/5050	414
ZM500	197/5000	3200/1450 *3400/1540	3300/1495	4800/2175	5000/2270 *5700/2585	120/3050	123/3120	127/3230	81/2045	75/1910	79/2010	8389/3805	9226/4185	10229/4640	11243/5100	
ZM550	217/5500		*3900/1770			132/3350	135/3420	139/3530	92/2345	86/2190	91/2310	8576/3890	9414/4270	10648/4830	11673/5295	*3/6
ZM600	236/6000	*3000/1360	*3600/1630	*4400/1995	*4600/2085	142/3600	145/3670	149/3780	102/2595	96/2440	101/2560	8675/3935	9513/4315	10747/4875	11795/5350	*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 23.2inch. The free lifting height (without backrest) of the 7000lbs 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.

Wide v	riew Full	Free 3-	stage m	ast												
	Max.	Loading	g capacity- lo	ading cente	r 24 inch	Mast Overal	Heigh-fork to	the ground	Free Lifting	g Height-wit	h backrest		Service	Weight		Mast tilt
Mast type	lifting height	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	angle (Fwd/Bwd)
	in/mm	lbs/kg	lbs/kg	lbs/kg	lbs/kg	in/mm	in/mm	in/mm	in/mm	in/mm	in/mm	lbs/kg	lbs/kg	lbs/kg	lbs/kg	deg
ZSM360	142/3600	4000/1820	4800/2175	5800/2630	6600/2995	71/1795	77/1946	77/1946	31/795	28/705	28/705	8190/3715	9028/4095	10163/4610	10858/4925	0/0
ZSM400	158/4000	3800/1725	4800/2175	5800/2630	6600/2995	76/1920	81/2065	81/2065	36/920	33/830	33/830	8256/3745	9094/4125	10229/4640	10924/4955	0/0
ZSM435	171/4350	3700/1680 *3800/1725	4400/1995 *4800/2175	5600/2540 *6000/2730	5800/2630 *6200/2815	81/2045	86/2190	86/2190	41/1045	38/955	38/955	8322/3775	9160/4155	10284/4665	10979/4980	6/6 *6/6
ZSM450	177/4500	3500/1590 *3600/1630	*4600/2085	*5800/2630	5600/2540 *6000/2730	83/2095	88/2240	88/2240	43/1095	40/1005	40/1005	8344/3785	9182/4165	10318/4680	11012/4995	0/0
ZSM470	185/4700	3440/1560 *3600/1630	4000/1820 *4600/2085	5200/2360 *5800/2630	5200/2360 *6000/2730	85/2160	88/2240	88/2240	46/1160	40/1005	40/1005	8377/3800	9215/4180	10362/4700	11056/5015	1 "0/0
ZSM480	189/4800	3400/1540 *3600/1630	3900/1770 *4600/2085	5000/2270 *5600/2540	5200/2360 *5800/2630	86/2195	92/2340	92/2340	47/1195	44/1105	44/1105	8389/3805	9226/4185	10406/4720	11078/5025	1 "0/0
ZSM500	197/5000	3200/1450 *3500/1590	*4500/2040	*5500/2495		90/2295	96/2440	96/2440	51/1295	47/1205	47/1205	8444/3830	9281/4210	10461/4745	11155/5060	6/6 *6/6
ZSM540	213/5400	2900/1315 *3400/1540	*4300/1950	4500/2040 *5300/2405	*5400/2450	95/2420	101/2565	101/2565	56/1420	52/1330	52/1330	8510/3860	9348/4240	10527/4775	11221/5090	3/6 *3/6
ZSM600	236/6000	1900/860 *3200/1450	2000/910 *3600/1630	3000/1360 *4200/1905	3100/1405 *4400/1995	104/2645	1102790	1102790	65/1645	61/1555	61/1555	8686/3940	9524/4320	10725/4865	11420/5180	3/6 *3/6

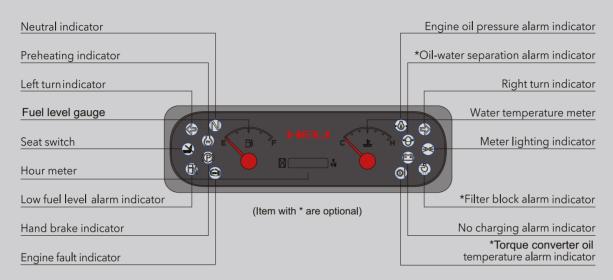
Note:(1) *stands for the rated capacity when the front tire is double-tire.

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



Heli Dash Display



Heli's display is conveniently placed on the dash so operator can monitor truck's working condition, fault codes and other vital information

Standard Configuration			
Horn	Transmission oil filter	Overhead guard rain cover	2 forward headlights
Control valve	Cable type parking brake	Standard forks	Hydraulic oil dipstick
Oil pressure alarm	Metric tool case	Hydraulic oil filter	Overhead guard
Hydraulic-powered steering	Complete front-rear light package	Wide view mast	Torque converter oil dipstick
Load backrest	Back-up alarm	Pneumatic tires (standard)	Combined instrument panel
Rear view mirror	Adjustable steering column	Tow pin	

Optional			
Cab	Solid tires	Wind shield w/wiper	Torque converter oil temperature meter
Amber flashing light	Non-marking tires	Fire extinguisher	Customer colors
Suspension seat	Wide carriage	Rear working light	Attachments









HELI CANADA

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