

Full tilt steering column

Locked fuel cap

Clipboard

Automatic 2-Speed

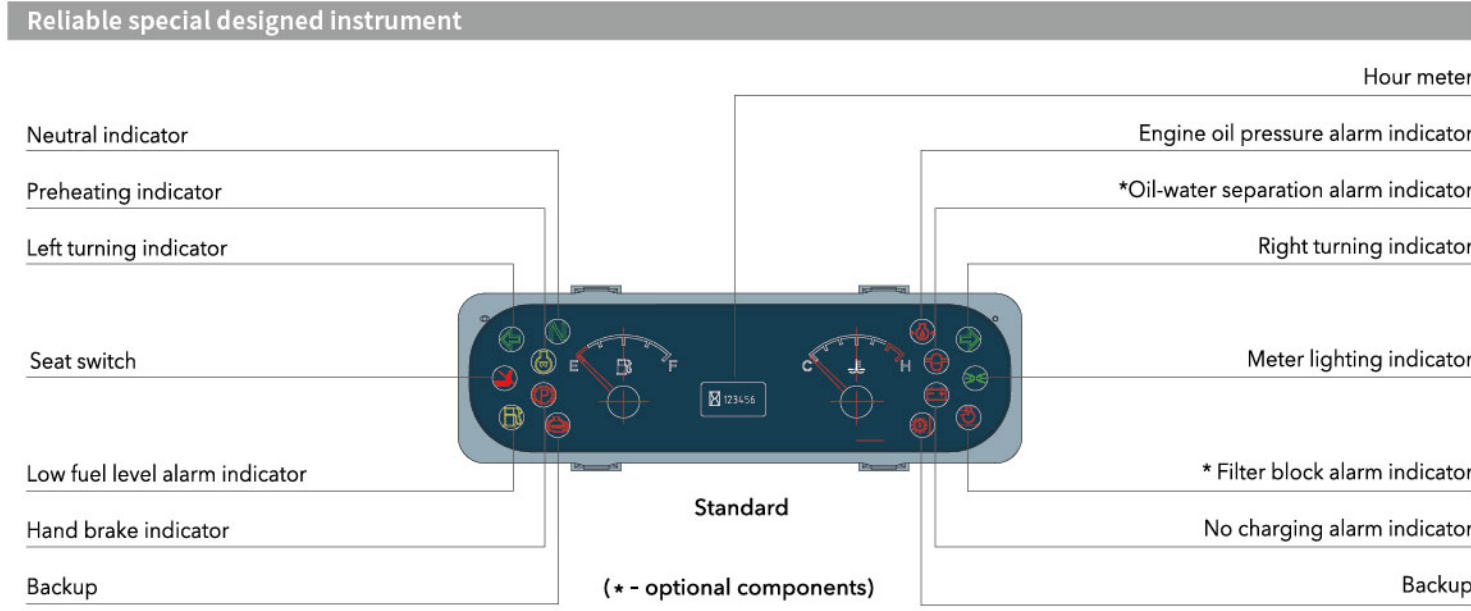
- > This unit is equipped with a fully automatic 2-speed transmission that smoothly shifts between 1st and 2nd gears eliminating the need for the operator to perform this function and to match speed and load requirements.

Accessibility

- > The engine compartment hood opens a full 80 degrees and there are no tools required to remove the floor plate for easy access to the powertrain, hydraulic and cooling components.

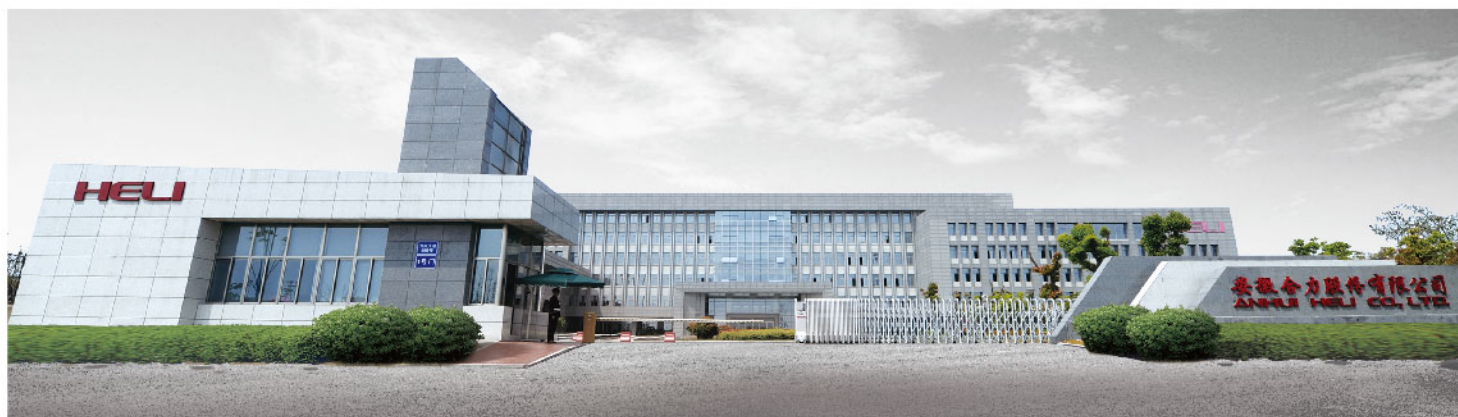


HELI



Standard Configuration			
Hour meter	Front combo lights	Standard pallet forks	Tow pin
Horn	Transmission oil filter	Neutral start switch	Semi-suspension seat
Low oil pressure alarm	Parking brake	Hydraulic system oil filter	Hydraulic oil gauge
Control valve	Water temperature gauge	Oil pressure gage	Transmission oil gauge
Power steering	Rear combo lights	Charge indicator light	Instrument display panel
Rubber floor mat	Back-up alarm	Wide view mast	Dual pneumatic tires
Load backrest	Tilt-lock valve	High air intake	Tool case with manuals
Rear view mirror	Tilting steering column	Independent lift & tilt handles	

Optional Devices and Accessories			
Full steel cab	High vertical exhaust (Diesel models)	Transmission oil temperature gauge	Optional attachments
Air conditioner (Diesel models)	Dual air filter	Tilt cylinder boots	Disk brakes
Wind shield	Dual solid tires	Steering cylinder boots	
LED rotating light	Rear LED work lights	Custom paint color	



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

Industrial Forklifts

Address: 5165 Vasquez Blvd.
Denver CO, 80216
Phone: 1-888-NEW-HELI or 303-292-0639

HELI

CP(Q)(Y)D55-70 & CPCD55-100 11-22,000 lbs (5.5-10t) G Series Pneumatic Tire Forklift



www.heliforklift.net

CP(Q)(Y)D55-70 & CPCD55-100

Floating Operator's Compartment

- > The operator's compartment is suspended on vibration dampening rubber mounts. With the addition of a semi suspension seat as standard, operator fatigue is reduced which improves operator and equipment efficiency.

Ambient Noise Reduction

- > The engine compartment is fully insulated to reduce ambient noise levels generated by the engine, transmission and hydraulic systems.

Cooling System

- > Equipped with an industry exclusive high capacity all aluminum radiator, the Heli CPCD50-100 forklifts run significantly cooler under both normal and heavy operating conditions, which increases the life and efficiency of both the engine and transmission.

Hydraulic System

- > The hydraulic system is engineered and designed for optimized performance which improves the engine operating efficiency and lowers fuel consumption.

Ease of Operation

- > Heli CPCD50-100 forklifts are designed utilizing the latest engineering techniques matching the function of the unit to comfort of the operator including ease of entry & exit, excellent visibility, accessibility to the operator controls and more.



Sealed compartment for electrical controls

Standard LED light package

Ratchet-style parking brake

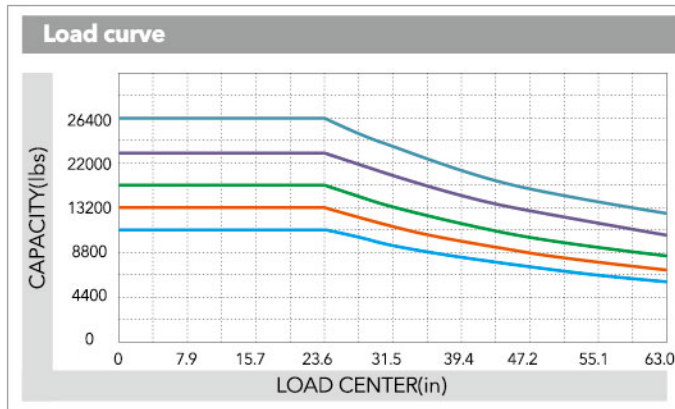
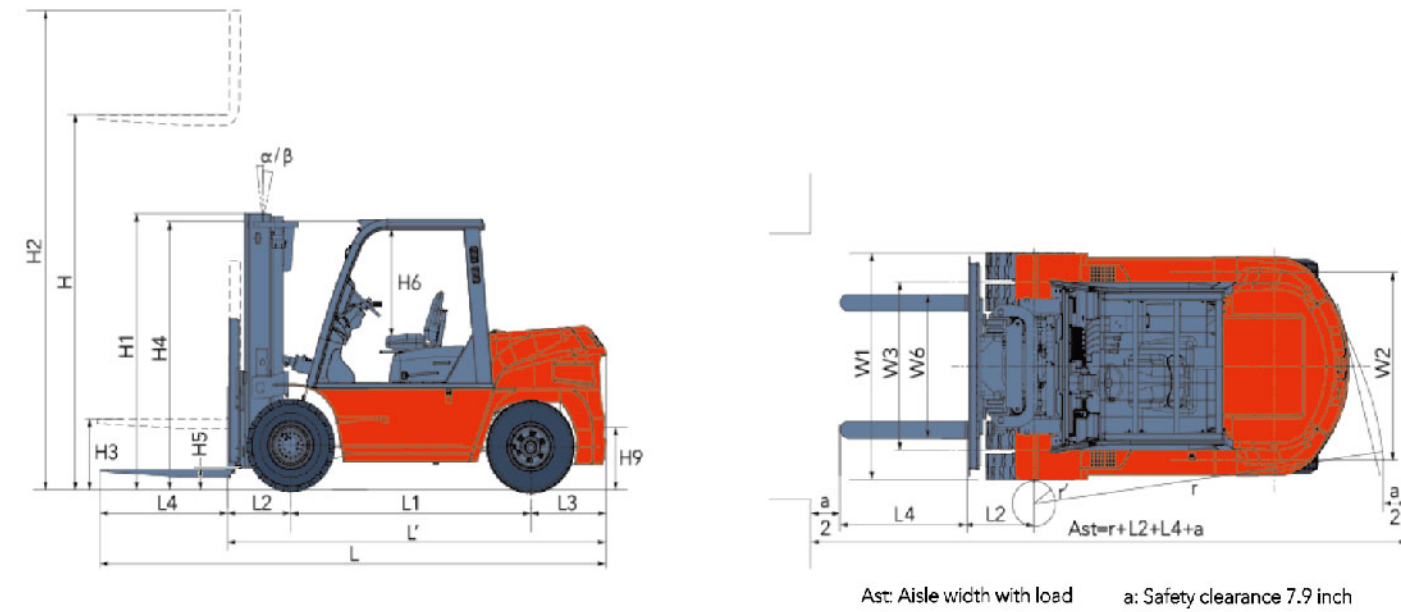
Standard planetary drive axle

CP(Q)(Y)D55-70 & CPCD55-100



Manufacturer's Data and Design Characteristics						
Characteristics						
1.01	Model		CPCD55 CP(Q)(Y)D55	CPCD60 CP(Q)(Y)D60	CPCD70 CP(Q)(Y)D70	CPCD85 CPCD100
1.02	Power type		Diesel			
1.03	Rated Capacity	lbs	11000	13000	15500	18500 22000
1.04	Load Center	in	24			
Dimensions						
2.01	Max. Lift height with backrest	H2	in	173.2	173.2	173.2 174 173.8
2.02	Max. fork height	H	in	118		
2.03	Overall mast lowered height	H1	in	98.4	98.4	98.4 106.3 112.2
2.04	Free Lift Height	H3	in	7.9	7.9	7.9 7.9 7.9
2.05	Operator clearance (from face of seat)	H6	in	41.7	41.7	41.7 41.7 41.7
2.06	Overall height (overhead guard)	H4	in	96.5	96.5	96.5 100.8 100.8
2.07	Overall length (with 48" forks)	L	in	185.4	188.6	190.6 204 213.8
2.08	Overall length (without forks)	L'	in	137.4	140.6	142.5 155.9 165.7
2.09	Front overhand	L2	in	23.2	23.4	23.6 27.8 28.4
2.10	Rear overhang	L3	in	23.6	26.6	28.3 29.7 28.1
2.11	Wheel base	L1	in	90.6	90.6	90.6 98.4 109.3
2.12	Tow Pin center height	H9	in	16.1	16.1	16.1 20.5 20.5
2.13	Min. ground clearance under mast	H5	in	7.9	7.9	7.9 9.8 9.8
2.14	Overall width	W1	in	80.5	80.5	80.5 85.2 85.2
2.15	Lateral fork adjustment outside of fork (Max./Min.)	W6	in	72.2-11.8	72.2-11.8	72.2-11.8 76.5-13.7 81.1-16.5
2.16	Tread (front)	W3	in	59.8	59.8	59.8 63 63
2.17	Tread (rear)	W2	in	66.9	66.9	66.9 66.9 66.9
2.18	Outside turning radius	r	in	127.6	129.9	132.7 143.7 153.5
2.19	Inside turning radius	r'	in	7.9	7.9	7.9 7.9 7.9
2.20	Min. right angle stacking aisle width (with pallet 48"x48")	Ast	in	206.7	209.3	212.2 227.4 237.8
2.21	Mast Tilting angles (forward/backward)	α / β		6°/12°	6°/12°	6°/12° 6°/12° 6°/12°
2.22	Fork dimensions (LxWxH)	L4	in	48x5.9x2.17	48x5.9x2.36	48x5.9x2.56 48x6.7x2.76 48x6.9x3.15
Weights						
3.01	Service Weight	lbs	18300	19950	21300	25500 27900
3.02	Axle Wheel with load (Front/Rear)	lbs	26320/3000	29540/3640	31970/4740	39340/4860 44460/5500
3.03	Axle Wheel without load (Front/Rear)	lbs	9100/9200	8950/11000	8530/12740	11200/14260 12280/15630
Tires						
4.01	Wheels number front/rear (x=driven)		4X/2		4X/2	
4.02	Tire Type		Pneumatic		Pneumatic	
4.03	Tire size (front)		8.25-15-14PR		9.00-20-14PR	
4.04	Tire size (rear)		8.25-15-14PR		9.00-20-14PR	
4.05	Service Brake		Power brake-pedal type			
4.06	Parking Brake		Mechanical-Hand brake lever type			
Drive						
5.01	Battery (Voltage/Capacity)	V/Ah	2x12/80			
5.02	Fuel Tank Capacity	GAL	42			
5.03	Transmission type		Intelligent gear shifting			
5.04	Transmission Number of Speed Fwd/Bwd		2/2			

Engine model and truck main specifications													
Truck specifications													
Model		CPCD55	CPCD60	CPCD70	CP(Q)(Y)D55	CP(Q)(Y)D60	CP(Q)(Y)D70	CPCD55	CPCD60	CPCD70	CPCD85	CPCD100	
Max.traveling speed (loaded/unloaded)	mph	13.7/15.5	13.7/15.5	13.7/15.5	16.3/18.8	16.3/18.8	16.3/18.8	18.1/19.4	18.1/19.4	18.1/19.4	18.8/20	18.8/20	
Lifting speed(loaded/unloaded)	ft/min	92.5/102.4	84.7/102.4	77.8/102.4	76.8/80.7	76.8/80.7	76.8/80.7	96.5/102.4	96.5/102.4	96.5/102.4	78.7/82.7	78.7/82.7	
Lowering speed(loaded/unloaded)	ft/min	59.1/118.1											
Max.Draw bar(loaded)	lbs	11520	11520	11520	10800	10800	10600	13950	13950	13950	13050	13050	
Max.Gradeability(loaded/unloaded)	%	36/19	34/19	33/19	38/19	35/19	31/19	42/20	36/20	32/20	24/20	21/20	
Weight(oil included)	lb	17970	19620	20940	17600	19300	20600	18300	20000	21300	25200	27600	
Axle load(loaded)front/rear	lb	26080/2910	29390/3460	31860/4520	26000/3000	29000/3700	31300/4800	26400/3000	29600/3700	32100/4800	39000/4800	44200/5500	
Axle load(unloaded)front/rear	lb	8930/9040	8830/10790	8600/12350	8400/9200	8300/11000	7830/12800	9100/9200	9000/11000	8500/12800	11800/13300	12200/15500	
Engines specifications													
Engine manufacturer/mode		Deutz TCD 3.6 L04					PSI 4.3 Tier IV			Cummins OSF3.8 T4F			
Engine rated power/rotational speed	hp/rpm	74/2200					100/2300			119/2200			
Engine rated torque/rotational speed	lb. ft/rpm	305/1300					240/1700			360/1600			
Cylinder number		4					6			4			
Engine displacement	Liters	3.6					4.3			3.8			



- CPCD55 CP(Q)(Y)D55
- CPCD60 CP(Q)(Y)D60
- CPCD70 CP(Q)(Y)D70
- CPCD85
- CPCD100

NOTE: Capacities shown are reference only. They are computed with mast in vertical position based on 48 inch cube load configuration with center of gravity at true center of cube and standard forks. Longer forks and unusually wide loads can reduce capacity. Consult dealer for any questions about capacities.

Certifications: These Heli models are CSC and CE certified and also meet all requirements of ANSI B56.1-2012 and OSHA Regulation 29CFR1910.178. All dimensional and performance specifications shown are for reference and subject to change without notice.

11,000-15,500lbs Wide View Mast									
Mast model	Max. Fork Height (inch)	Load Capacity (lbs@load center 24inch)			Overall Lower Height (inch)	Service weight (lbs)			Tilting angle Fwd/Bwd (deg.)
		CPCD55 CP(Q)(Y)D55	CPCD60 CP(Q)(Y)D60	CPCD70 CP(Q)(Y)D70		CPCD55/60/70 CP(Q)(Y)D55/60/70	CPCD55 CP(Q)(Y)D55	CPCD60 CP(Q)(Y)D60	
M300	118	11000	13200	15400	98.4	18570	20220	21540	6°/12°
M330	130	11000	13200	15400	104.3	18680	20330	21650	6°/12°
M350	137	11000	13200	15400	108.3	18750	20400	21720	6°/12°
M375	148	11000	13200	15400	113.2	18840	20490	21800	6°/12°
M400	157	11000	13200	15400	120.1	19210	20860	22180	6°/12°
M450	177	11000	13200	15400	129.9	19390	21040	22360	6°/12°
M475	187	11000	13200	15400	134.8	19470	21120	22440	6°/6°
M500	196	11000	13200	15400	139.8	19560	21210	22530	6°/6°
M550	216	10450	12540	14520	151.6	20000	21650	22970	3°/6°
M600	236	9680	11880	14080	161.4	20180	21830	23150	3°/6°

11,000-15,500lbs Wide View Full Free 2-Stage Mast										
Mast model	Max. Fork Height (inch)	Load Capacity (lbs@load center 24inch)			Overall Lower Height (inch)	Free Lift with backrest (inch)	Service weight (lbs)			Tilting angle Fwd/Bwd (deg.)
		CPCD55 CP(Q)(Y)D55	CPCD60 CP(Q)(Y)D60	CPCD70 CP(Q)(Y)D70			CPCD55/60/70 CP(Q)(Y)D55/60/70	CPCD55 CP(Q)(Y)D55	CPCD60 CP(Q)(Y)D60	
ZM300	118	11000	13200	15400	96.9	42.9	18810	20240	21780	6°/12°
ZM330	130	11000	13200	15400	102.8	48.8	18920	20350	21890	6°/12°
ZM350	137	11000	13200	15400	106.7	52.8	18990	20420	21960	6°/12°
ZM375	148	11000	13200	15400	111.6	57.7	19080	20500	22050	6°/12°
ZM400	157	11000	13200	15400	118.5	64.6	19430	20860	23400	6°/12°
ZM450	177	11000	13200	15400	128.3	74.4	19600	21040	22580	6°/12°

Note: (1) 11,000-13,000lbs:the free lift without backrest 18.3 inch increased.
(2) 15,500lbs:the free lift without backrest 12.2 inch increased.

11,000-15,500lbs Wide View Full Free 3-Stage Mast										
Mast model	Max. Fork Height (inch)	Load Capacity (lbs@load center 24inch)			Overall Lower Height (inch)	Free Lift with backrest (inch)	Service weight (lbs)			Tilting angle Fwd/Bwd (deg.)
		CPCD55 CP(Q)(Y)D55	CPCD60 CP(Q)(Y)D60	CPCD70 CP(Q)(Y)D70			CPCD55/60/70 CP(Q)(Y)D55/60/70	CPCD55 CP(Q)(Y)D55	CPCD60 CP(Q)(Y)D60	
ZSM360	141	9900	12320	13640	91.9	35.8	20090	21520	23020	6°/6°
ZSM400	157	9900	12320	13640	97.2	40.9	20220	21650	23150	6°/6°
ZSM435	171	9900	12320	13640	101.8	45.5	20350	21780	23240	6°/6°
ZSM450	177	9900	12320	13640	103.7	47.4	20570	22000	23430	6°/6°
ZSM480	189	9900	12320	13640	107.9	51.6	20770	22200	23650	3°/6°
ZSM500	196	9900	12320	13640	110.4	54.3	20840	22270	23720	3°/6°
ZSM540	212	9240	11660	13200	115.7	59.4	20990	22420	24090	3°/6°
ZSM600	236	8800	11000	12100	123.6	67.3	21190	22620	24270	3°/6°
ZSM650	256	7920	9460	9900	134.1	77.8	21430	22770	24750	3°/6°
ZSM700	275	6160	7700	8140	138.4	82.1	21760	23100	24990	3°/6°

Note: (1) 11,000-13,000lbs:the free lift without backrest 15.0 inch increased.
(2) 15,500lbs:the free lift without backrest 8.9 inch increased.

18,500-22,000lbs Wide View Mast								
Mast model	Max. Fork Height (inch)	Load Capacity (lbs@load center 24inch)		Overall Lower Height (inch)		Service weight (lbs)		Tilting angle Fwd/Bwd (deg.)
		CPCD85	CPCD100	CPCD85	CPCD100	CPCD85	CPCD100	
M300	118	18700	22000	106.3	112.2	25410	27860	6°/12°
M330	130	18700	22000	112.2	118.1	25530	27990	6°/12°
M350	137	18700	22000	116.1	122.0	25630	28100	6°/12°
M375	148	18700	22000	121.1	127.0	25720	28200	6°/12°
M400	157	18700	22000	128.0	133.9	26180	28520	6°/12°
M450	177	18700	22000	137.8	143.7	26380	28760	6°/12°
M475	187	18700	22000	142.7	148.6	26490	28890	6°/6°
M500	196	18700	22000	147.6	153.5	26600	29000	6°/6°
M550	216	17270	19800	159.4	165.4	27130	29530	3°/6°
M600	236	16280	17600	169.3	175.2	27330	29770	3°/6°

18,500-22,000lbs Wide View Full Free 2-Stage Mast										
Mast model	Max. Fork Height (inch)	Load Capacity (lbs@load center 24inch)		Overall Lower Height (inch)		Free Lift with backrest (inch)		Service weight (lbs)		Tilting angle Fwd/Bwd (deg.)
		CPCD85	CPCD100	CPCD85	CPCD100	CPCD85	CPCD100	CPCD85	CPCD100	
ZM300	118	18700	22000	106.3	112.2	52.8	61.0	25690	28560	6°/12°
ZM330	130	18700	22000	112.2	118.1	58.7	66.9	25790	28760	6°/12°
ZM350	137	18700	22000	116.1	122.0	62.6	70.9	25920	28910	6°/12°
ZM375	148	18700	22000	121.1	127.0	67.5	75.8	26050	29090	6°/12°
ZM400	157	18700	22000	128.0	133.9	74.4	82.7	26600	29440	6°/12°
ZM450	177	18700	22000	137.8	143.7	84.3	92.5	26900	29770	6°/12°