



Comfort

- Man-machine engineering design improves operation comfort; wide view lifting system improves vision.

Intelligent gear shifting

- With electronic-hydraulic reversing system as standard configuration, make operation more liaght and easy; The updated new intelligent gear shifting system could avoid starting with second gear, improves the transmission box's reliability.

Maintainability

- Wider internal space, more reasonable parts layout and 80°hood opening angle make maintenance easy.

Reliability

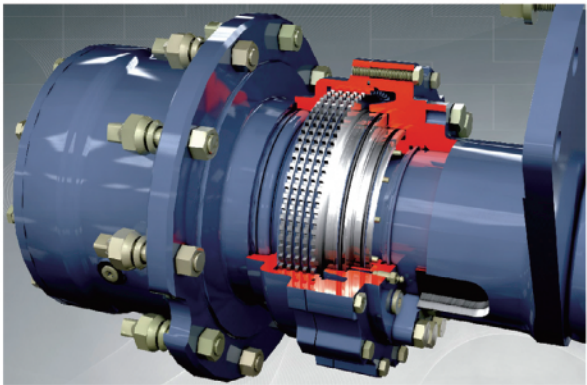
- Key parts like frame and mast apply CAE top-down design to improve their strength and make the truck tough.



Locked fuel tank cover



Folder

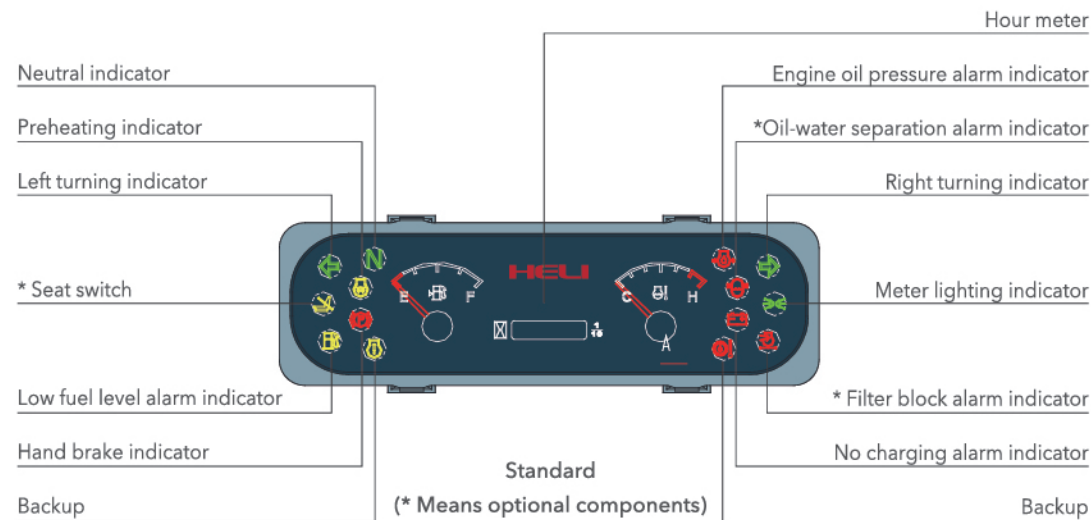


Wet-disc brake driving axle (optional choice):
Advantages: the convenient operation,
stable braking and free from maintenance.

HELI



Reliable special designed instrument



- Reliable special meter display the whole truck's working condition, fault detect and other important information completely which make the operator master the whole truck condition directly and conveniently.

Standard configuration		Optional	
Hour meter	Overhead guard	Driver's cab	User-specified color
Horn	Standard fork	Warning light	Optional attachments
Oil pressure alarm	Neutral gear switch	High air exhausting device	Sling
Control valve	Hydraulic circuit oil filter	Double air cleaner	Full LED light ass'y
Wholly hydraulic-powered steering	Electro-hydraulic changing-over	Suspension seat	Power switch
Rubber pad	Intelligent shift	Fork extension	Reversing voice speaker
Backrest	Speed-limiting valve	Heater	Universal key
Rear view mirror	Oil level gauge	Solid tyre	Overspeed 10km/h alarm
Front combined lamp (LED light)	Charging indicator	Widen fork carriage	Electric fam
Transmission oil filter	Wide view mast	Wind shield	OPS(Travelling function and loading function)
Engine flame out device	Air intaking device	Purifying muffler	Drive axle with wet disc type brak
Ratchet type parking brake	Durable tire with decorative pattern	Fire extinguisher muffler	
Water temperature meter	Lifting and tilting operating handles	Fire extinguisher	
Driver's tools	Traction pin	Rear working light	
Rear combined lamp(LED)	Semi-suspension seat	Air conditioner (certain type)	
Reversing buzzer	Hydraulic oil dipstick	OPS(travelling function)	
Tilt-lock valve	Overhead guard rain cover	Torque converter oil temperature meter	
Tilt adjustable steering column	Torque converter oil dipstick	Tilting cylinder sleeve	
Back view mirror	Combined instrument	Steering cylinder sleeve	



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* Our products are subject to improvements and changes without notice.

5-10 t

G series Internal Combustion Counterbalanced Forklift Truck



www.heliforklift.net

G SERIES 5-10 t

Technical features remarkably improved

Damping

- With suspension damping structure on overhead guard(cab) and optimized design for the transmission, the whole trucks's vibration reduced a lot and relieve driver's fatigue greatly.

Noise reduction

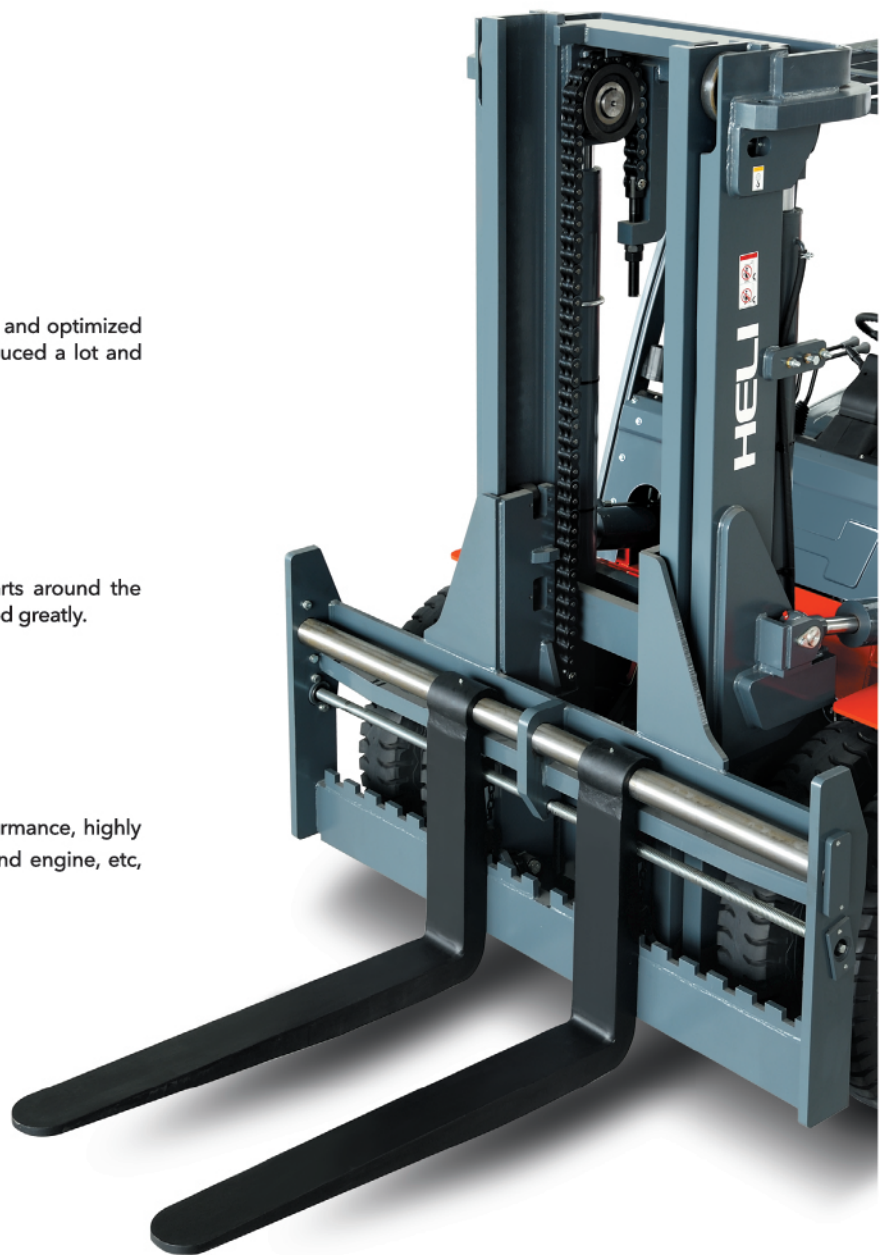
- Equipped with fully sealed cab and optimize designed parts around the engine, noise nearby ear and the truck sound level are reduced greatly.

Heat dissipation

- With the optimized cooling system and great cooling performance, highly improved the reliability and durability of the transmission and engine, etc, many key parts.

Energy efficiency

- With optimized hydraulic system, the truck is more energy-efficient and lower fuel consumption.



Independent integrated electric cabinet



LED signal (standard configuration)



Ratchet type parking brake

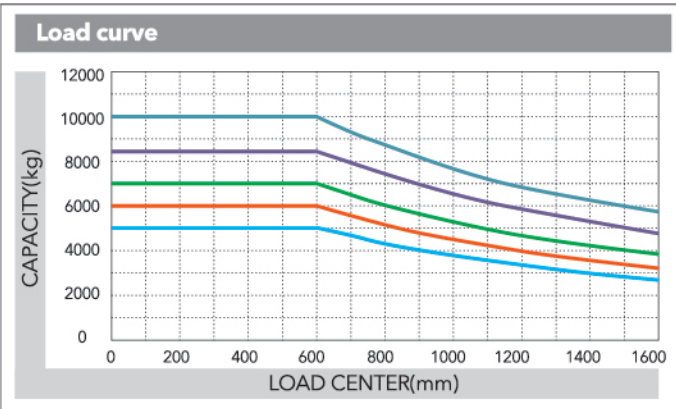
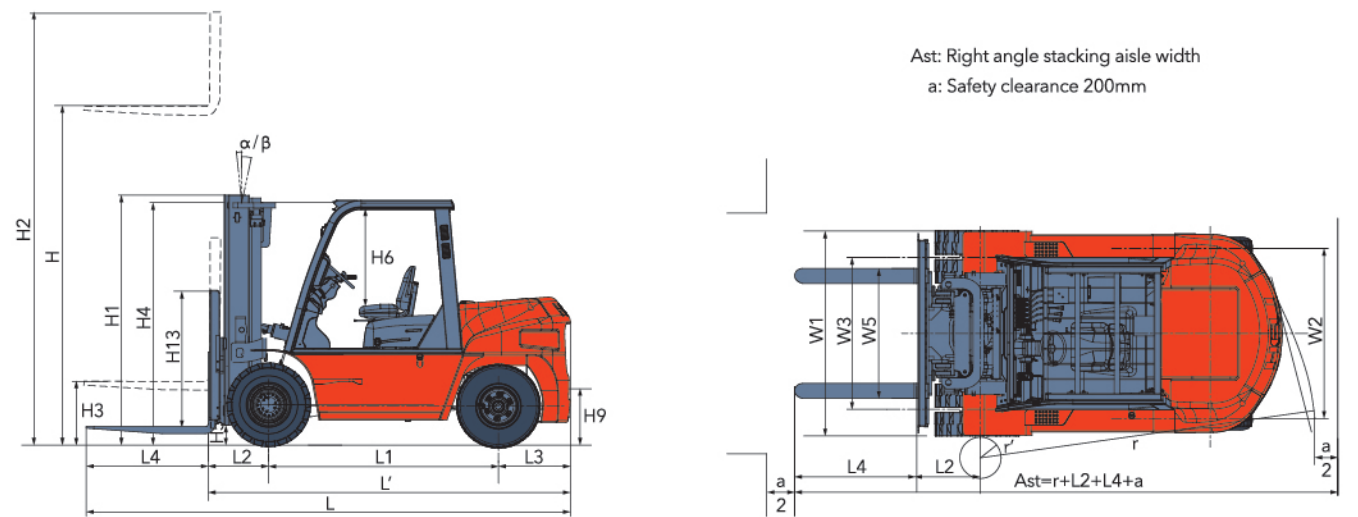
G SERIES 5-10t

Manufacturer and technical parameters

Characteristics								
1.01	Manufacturer		HELI					
1.02	Model		CPCD50	CPCD60	CPCD70	CPCD85	CPCD100	
1.03	Power type		Diesel					
1.04	Rated capacity	Q	kg	5000	6000	7000	8500	10000
1.05	Load center	c	mm	600				
1.06	Driving mode	Sit-on type						
Dimensions								
2.01	Mast height, extended (with backrest)	H2	mm	4400	4400	4400	4420	4415
2.02	Max fork height	H	mm	3000	3000	3000	3000	3000
2.03	Mast height, lowered	H1	mm	2500	2500	2500	2700	2850
2.04	Free lift	H3	mm	200	200	200	200	200
2.05	Backrest height (calculated from the fork surface)	H13	mm	1360	1350	1345	1360	1345
2.06	Overhead guard clearance (from face of seat)	H6	mm	1060	1060	1060	1060	1060
2.07	Overhead guard height	H4	mm	2450	2450	2450	2560	2560
2.08	Overall length (with forks)	L	mm	4710	4790	4840	5180	5430
2.09	Overall length (without forks)	L'	mm	3490	3570	3620	3960	4210
2.10	Front overhang	L2	mm	590	595	600	705	720
2.11	Rear overhang	L3	mm	600	675	720	755	715
2.12	Wheel base	L1	mm	2300	2300	2300	2500	2775
2.13	Traction pin center height	H9	mm	410	410	410	520	520
2.14	Min. Ground clearance (from bottom of mast)	H5	mm	200	200	200	250	250
2.15	Truck body width	W1	mm	2045	2045	2045	2165	2165
2.16	Lateral fork adjustment (outside of fork)(max./min.)	W6	mm	300-1835	300-1835	300-1835	348-1944	420-2060
2.17	Front tread	W3	mm	1520	1520	1520	1600	1600
2.18	Rear tread	W2	mm	1700	1700	1700	1700	1700
2.19	Min. Turning radius (external)	r	mm	3240	3300	3370	3650	3900
2.20	Min. Turning radius (internal)	r'	mm	200	200	200	200	200
2.21	In-right angle stacking aisle width (standard load size 1200X1200)	Ast	mm	5250	5315	5390	5775	6040
2.23	Mast tilting angle (forward /rear)	α / β	°	6/12	6/12	6/12	6/12	6/12
2.24	Fork size	L4	mm	55X1220X150	60X1220X150	65X1220X150	70X1220X170	80X1220X175
Tyre								
3.01	Wheel number (front/rear)	4X/2						
3.02	Tyre type (front/rear)	Pneumatic tyre						
3.03	Tyre size (front)	8.25-15-14PR						
3.04	Tyre size (rear)	8.25-15-14PR						
Specifications of the brake and transmission devices								
4.01	Battery (voltage/capacity)	V/Ah	2X12/80					
4.02	Service brake	Powered brake-pedal type						
4.03	Parking brake	Mechanical-hand brake lever type						
4.04	Oil tank capacity	L	160					
4.05	Transmission type	Intelligent gear shifting						
4.06	Transmission number of speed (fwd/bwd)	2/2						
Truck specifications								
5.01	Max. Travelling speed (loaded/unloaded)	km/h	25/29	25/29	25/29	25/29	25/29	
5.02	Lifting speed (loaded/unloaded)	mm/s	510/550	510/550	500/550	400/430	330/350	
5.03	Lowering speed (loaded/unloaded)	mm/s	WITHOUT LOAD≥300 WITH FULL LOAD≤600					
5.04	Max. Draw bar (loaded)	KN	60	60	60	60	58	
5.05	Max. Gradeability (loaded/unloaded)	%	34/19	31/19	29/19	23/20	21/20	
5.06	Weight (oil included)	kg	8300	9050	9650	11550	12660	
5.07	Axle load (loaded)front/rear	kg	11940/1360	13400/1650	14500/2150	17845/2205	20167/2493	
5.08	Axle load (unloaded)front/rear	kg	4130/4170	4060/4990	3870/5780	5082/6468	5570/7090	
Engine specifications								
6.01	Engine manufacturer /mode	ISUZU 6BG1						
6.02	Engine rated power/rotational speed	Kw/rpm	82/2000					
6.03	Engine rated torque/rotational speed	Nm/rpm	415/1400~1600					
6.04	Cylinder number	6						
6.05	Engine displacement	L	6.494					

Optional engine model and truck main specifications

Truck specifications																																			
Manufacturer		CPCD50	CPCD60	CPCD70	CPCD85	CPCD100	CPCD50	CPCD60	CPCD70	CPCD85	CPCD100	CPCD50	CPCD60	CPCD70	CPCD85	CPCD100	CPCD50	CPCD60	CPCD70	CP(Q)YD50	CP(Q)YD60	CP(Q)YD70	CPCD50	CPCD60	CPCD70	CPCD85	CPCD100								
Max. Travelling speed (loaded/unloaded)	km/h	26/30	26/30	26/30	26/30	26/30	26/30	26/30	26/30	26/30	26/30	24/29	24/29	24/28	24/28	26/30	26/30	26/30	26/30	28/30	28/30	28/30	26/30	26/30	26/30	26/30	26/30								
Lifting speed (loaded/unloaded)	mm/s	500/520	500/520	485/520	390/420	330/350	530/550	530/550	510/540	390/420	330/350	510/530	510/530	500/530	390/420	330/350	450/470	440/470	420/460	420/440	420/440	420/440	550/570	550/570	550/570	430/450	350/370								
Lowering speed (loaded/unloaded)	mm/s	WITHOUT LOAD≥300 WITH FULL LOAD≤600																																	
Max. Draw bar (loaded)	KN	62	62	62	60	60	60	60	60	60	58	63	63	62	60	58	42	40	40	60	60	60	62	62	62	56	56								
Max. Gradeability (loaded/unloaded)	%	39/20	34/20	30/20	22/20	20/20	34/19	31/19	29/19	23/20	21/20	38/19	35/19	32/19	23/20	21/20	23/19	20/19	20/19	38/19	35/19	31/19	42/22	36/20	32/20	24/20	21/20								
Weight (oil included)	kg	8150	8900	9500	11400	12510	8150	8900	9500	11400	12510	8300	9050	9650	11550	12660	8300	9050	9650	7980	8730	9330	8150	8900	9500	11400	12510								
Axle load (loaded)front/rear	kg	11830/1320	13330/1570	14450/2050	17750/2150	20030/2480	11830/1320	13330/1570	14450/2050	17750/2150	20030/2480	11940/1360	13400/1650	14500/2150	17845/2205	20167/2493	11940/1360	13400/1650	14550/2150	11620/1360	13080/1650	14180/2150	11830/1320	13330/1570	14450/2050	17750/2150	20030/2480								
Axle load (unloaded) front/rear	kg	4050/4100	4005/4895	3900/5600	6040/5360	5510/7000	4050/4100	4005/4895	3900/5600	5360/6040	5510/7000	4130/4170	4060/4990	3870/5780	5082/6468	5570/7090	4130/4170	4060/4990	3870/5780	3810/4170	3740/4990	3550/5780	4050/4100	4005/4895	3900/5600	5360/6040	5510/7000								
Engine specifications																																			
Engine manufacturer /mode		Cummins QSF3.8(Euro IIIA, CHINA STAGE III)										Perkins 1104D-44TA										XICHAI CA6110				Mitsubishi S6S-T				PSI 4.3		Cummins QSB4.5(EU Stage IIIB- US EPA Tier 4(i)- CHINA STAGE III)			
Engine rated power/rotational speed	Kw/rpm	86/2200										83/2000										63.9/2300				82/2200				77/2300					
Engine rated torque/rotational speed	Nm/rpm	470/1100~1700										418/1400										450/1400-1500				285/1700				332/1400					
Cylinder number		4										4										6				6				6		4			
Engine displacement	L	3.8										4.4										7.127				4.29				4.3		4.5			



Note: The vertical axis stands for load capacity and the horizontal axis stands for load center which is calculated from the front surface of the forks to the gravity of the standard load. the standard load means a cubic with 1200mm edge length. When mast is tilted forward, using non-standard forks or loading large goods, the load capacity will be reduced. The load capacity of standard mast at different load center can be known from this load chart.

5-7t WIDE VIEW MAST

Mast mode	Max. fork height (mm)	Load capacity (load center 600mm)(kg)			Mast height, lowered (mm)		Service weight (kg)			Mast tilting angle α / β
		CPCD50	CPCD60	CPCD70	CPCD50/60/70		CPCD50	CPCD60	CPCD70	
M200	2000	5000	6000	7000	2000		8005	8755	9409	6°/12°
M250	2500	5000	6000	7000	2250		8069	8819	9473	6°/12°
M270	2700	5000	6000	7000	2350		8101	8851	9451	6°/12°
M300	3000	5000	6000	7000	2500		8150	8900	9500	6°/12°
M330	3300	5000	6000	7000	2650		8199	8949	9549	6°/12°
M350	3500	5000	6000	7000	2750		8231	8981	9581	6°/12°
M375	3750	5000	6000	7000	2875		8272	9022	9622	6°/12°
M400	4000	5000	6000	7000	3050		8388	9188	9788	6°/12°
M425	4250	5000	6000	7000	3175		8478	9228	9828	6°/12°
M450	4500	5000	6000	7000	3300		8519	9269	9869	6°/12°
M475	4750	5000	6000	7000	3425		8560	9310	9910	6°/6°
M500	5000	5000	6000	7000	3550		8600	9350	9950	6°/6°
M550	5500	4750	5700	6600	3850		8794	9544	10144	3°/6°
M600	6000	4400	5400	6400	4100		8876	9626	10226	3°/6°

5-7t WIDE VIEW FULL FREE 2-STAGE MAST

Mast model	Max. fork height (mm)	Load capacity (load center 600mm)(kg)			Mast height, lowered (mm)	Free lift (with backrest) (mm)	Service weight (kg)			Mast tilting angle α / β
		CPCD50	CPCD60	CPCD70	CPCD50/60/70		CPCD50	CPCD60	CPCD70	
ZM250	2500	5000	6000	7000	2210	840	8189	8939	9539	6°/12°
ZM270	2700	5000	6000	7000	2310	940	8226	8976	9576	6°/12°
ZM300	3000	5000	6000	7000	2460	1090	8283	9033	9633	6°/12°
ZM330	3300	5000	6000	7000	2610	1240	8340	9090	9690	6°/12°
ZM350	3500	5000	6000	7000	2710	1340	8377	9127	9727	6°/12°
ZM375	3750	5000	6000	7000	2835	1465	8425	9175	9775	6°/12°
ZM400	4000	5000	6000	7000	3010	1640	8600	9350	9950	6°/12°
ZM425	4250	5000	6000	7000	3135	1765	8652	9402	10002	6°/12°
ZM450	4500	5000	6000	7000	3260	1890	8695	9445	10045	6°/12°
ZM475	4750	5000	6000	7000	3385	2015	8742	9492	10092	6°/6°
ZM500	5000	5000	6000	7000	3510	2140	8779	9529	10129	6°/6°
ZM550	5500	4750	5700	6600	3810	2440	8999	9749	10349	3°/6°
ZM600	6000	4400	5400	6400	4060	2690	9094	9844	10444	3°/6°

Note: (1) 5-6t: the free lift without backrest 465mm increased,(2) 7t: the free lift without backrest 310mm increased,