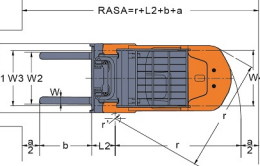
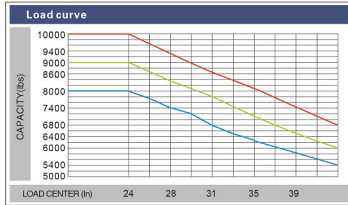


RASA: Aisle width with load  
a: Clearance  
b: Length of loading



Clearance from background	414/5151
Drive axle	190
Steering axle	240
Balance weight	220
Frame	230



**Note:** The vertical axis stands for load capacity and the horizontal axis stands for load center which is calculated from the front of the fork. The base point of the standard load refers to the center position of the cube with 39.37 in length of side. When mast is tilted forward, nonstandard fork usage or load with over wide goods, load capacity will be reduced. Different load capacity in different load center can be known in time through load chart.

Engine Model and Main Specification for Option			
Configuration No.	CPCD40/45/50-DE1	CP(Q)YD40/45/50-TY5	CP(Q)YD40/45/50-TY6
Battery (voltage/capacity)	vAh 24/80	12/100	12/100
Brand/Model	DEUTZ TCD 3.6 L04 Diesel (Tier IV)	PSI 4.3L Non-certific GAS/LPG Engine	PSI 4.3L Certific GAS/LPG Engine
Rated power/rotating speed	kW/rpm 55.4/2200	Gas: 70/2300, LPG: 76.6/2300	Gas: 70/2300, LPG: 76.6/2300
Rated torque/rotating speed	Nm/rpm 390/1300	Gas: 287/1700, LPG: 323.5/1700	Gas: 287/1700, LPG: 323.5/1700
Cylinder number (bore x stroke)	4-98 x 120	6-101.5X98.39	6-101.5X98.39
Displacement	L 3.62	4.29/4.18	4.29/4.18
Engine fuel tank capacity	L 90		
Number of gears (fwd/bwd)		2-1 Power Shift	

Note: \*Suitable for mechanical drive.



**Standard configuration**

- Standard Fork
- Standard Fork Carriage
- M300 2-stage Mast
- Overhead Guard
- Single Air Filter
- Standard Muffler
- Two-spool Control Valve
- Pneumatic Tyres
- Standard Seat
- Tool Kits

**Optional**

- Cab
- Beacon
- Dual Air Filter
- Heater
- Electric Fan
- Fences
- Dual Tyres
- Solid Tire
- Longer Fork
- Suspension seat
- Windshield glass
- Rear Working Lights
- Non-standard Fork Carriage
- Three/Four/Five-spool Control Valve
- Vertical Exhaust
- Spark Arrester Muffler
- Purifying Muffler
- Tilt Cylinder Sleeve
- Steering Cylinder Sleeve
- Full Free 2-stage Mast
- Full Free 3-stage Mast

**Attachment selection**

- Sideshifter
- Fork Positioner
- Paper Roll Clamp
- Push/Pull
- Canton Clamp
- Rotator
- Bale Clamp
- Block Clamp
- Tyre Clamp
- Drum Clamp
- Fork Clamp
- Tumaloads
- Single Double Pallet Handlers
- Double Wide Sideshifters
- Load Stabilizer
- Tipping Multi-Purpose Clamp

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



**ANHUI HELI CO., LTD.**

ADD: NO.688 Fangxing Street, Economical Development Zone, Hefei, P.R.China  
TEL: (86 55) 163639068 (America) 63639258 (Europe) 63639358 (Asia)  
63662105 (Africa & Middle East)  
FAX: (86 55) 163639966  
WEBSITE: <http://www.helichina.net>  
Email: [hel@helichina.net](mailto:hel@helichina.net)

AUTHORIZED DEALER

Catalog No.190321 Fokell Print



**8000~10000lbs (4.0-5.0 ton)**  
**H series IC Pneumatic Tire Forklift**  
**CPCD40-50&CPIQYD40-50**



**H series** / HIGH EFFICIENT  
ENERGY EFFICIENT

# 8000~10000lbs [4.0-5.0 ton]

## H series IC Pneumatic Tire Forklift



Data and design Characteristics																
Characteristics																
1.01	Manufacturer	<b>HELI</b>														
1.02	Model	CPCD40-DE1	CPCD45-DE1	CPCD50-DE1	CP(Q)YD40-PW1	CP(Q)YD45-PW1	CP(Q)YD50-PW1	CP(Q)YD40-TY6	CP(Q)YD45-TY6	CP(Q)YD50-TY6						
1.03	Power type	Gasoline/LPG														
1.04	Rated capacity	lbs	8000	9000	10000	8000	9000	10000	8000	9000	10000					
1.05	Load center	in	24													
1.06	Driving mode	Seated														
Dimensions																
2.01	Mast height, extended (with backrest)	H2	in		166											
2.02	Max.fork height	H	in		118											
2.03	Mast height, lowered (with backrest)	H1	in		89.6											
2.04	Free lift	H3	in		5.9											
2.05	Backrest height (calculated from the fork surface)	H13	in		47.9											
2.06	Distance from the seat surface to the overhead guard	H6	in		44											
2.07	Overall height	H4	in		93											
2.08	Overall length (with forks/without forks)	LL/L	in	163.2/121.1	163.8/121.9	165.7/123.6	163.2/121.1	163.8/121.9	165.7/123.6	163.2/121.1	163.8/121.9	165.7/123.6				
2.09	Front overhang	L2	in		21.9											
2.10	Rear overhang	L3	in		21.3											
2.11	Wheel base	L1	in		78.4											
2.12	Traction pin height	H9	in		15.2											
2.13	Min. Ground clearance (at mast)	H5	in		6.9											
2.14	Overall width	W1	in		58.3											
2.15	Fork distance max/min (external)	W5	in		52.8/11.9											
2.16	Tread (front/rear)	W3/W2	in		46.5/46.9											
2.17	Min. Turning radius (Outside)	r'	in		8.7											
2.18	Min. Turning radius (Inside)	r	in		107.9											
2.19	Min. Right angle aisle width	Ra	in		97.6											
2.20	Mast tilting angle (forward/rear)	α/β	°		6° /12°											
2.21	Fork size	L4*W T	in		42/5.9/1.97											
Performance																
3.01	Max. Traveling speed (loaded/unloaded)	mile/h	15.53/16.16			15.53/16.16										
3.02	Lifting speed (loaded/unloaded)	ft/min	91/102			91/102										
3.03	Lowering speed (loaded/unloaded)	ft/min	<118/>59													
3.04	Traction force (loaded/unloaded)	lbs	4950/3600			4950/3600										
3.05	Max. Gradeability (loaded/unloaded)	%	18/20	17/20	16/20	18/20	17/20	16/20	18/20	17/20	16/20					
Weight																
4.01	Service weight	lbs	13000	13600	14200	13000	13600	14200	13000	13600	14200					
4.02	Weight distribution loaded (front/rear)	lbs	17850/3150	19500/3100	21000/3200	17850/3150	19500/3100	21000/3200	17850/3150	19500/3100	21000/3200					
4.03	Weight distribution unloaded (front/rear)	lbs	5400/7600	5420/8180	5360/8840	5400/7600	5420/8180	5360/8840	5400/7600	5420/8180	5360/8840					
Tyre																
5.01	Wheel number (front/rear)	2 × 2/2														
5.02	Tyre type (front/rear)	Pneumatic Tyres														
5.03	Tyre size (front)	8.25-15-14PR			300-15-20PR			8.25-15-14PR			8.25-15-14PR			300-15-20PR		
5.04	Tyre size (rear)	7.00-12-12PR														
5.05	Service brake	Powered brake-pedal tyre														
5.06	Parking brake	Mechanical-hand brake lever type														
Drive and control device																
6.01	Battery (voltage/capacity)	VI/Ah	24/80			12/100										
6.02	Engine manufacturer/model	DEUTZ TCD 3.6LD4 Diesel (Tier IV)			PSI4.3L Non-Certificate											
6.03	Engine rated power	Hp/rpm	74/2200			Gasoline 109/2400 LPG 107/2400										
6.04	Engine rated torque	lb.ft/rpm	305/1300			Gasoline 332.85/1400 LPG 318/2300										
6.05	Engine cylinder	4														
6.06	Engine displacement	L	3.6			4.29418										
6.07	Engine fuel tank capacity	L	90													

WIDE VIEW MAST										
Mast model	Max. lifting height (m)	Load capacity (lbs)- Load center 24 In			Height mast retracted (C) (in)	Mfting angles Forward/backward	Service weight (lbs)			
		CPCD40/CP(Q)YD40	CPCD45/CP(Q)YD45	CPCD50/CP(Q)YD50			CPCD40/CP(Q)YD40	CPCD45/CP(Q)YD45	CPCD50/CP(Q)YD50	
M260	103	8000	9000	10000	81.7	6° /12°	12900	13500	14100	
M300	118	8000	9000	10000	89.6	6° /12°	13000	13600	14200	
M330	130	8000	9000	10000	95.5	6° /12°	13030	13630	14230	
M350	137	8000	9000	10000	99.4	6° /12°	13050	13650	14250	
M370	145	8000	9000	10000	103.3	6° /12°	13070	13670	14270	
M400	157	8000	9000	10000	111.2	6° /6°	13100	13700	14300	
M450	177	7400 *9000	8400 *9000	9000 *10000	121.1	6° /6°	13150	13750	14350	
M475	187	7000 *7400	8000 *8400	8500 *9200	126.0	6° /6°	13180	13780	14380	
M500	196	6400 *6800	7200 *8000	8000 *8400	130.9	6° /6°	13200	13800	14400	
M600	236	5200 *5800	6000 *6400	6600 *7200	150.6	3° /6°	13300	13900	14500	

Note: (1)\*\*stands for the rated capacity when the front tyre is double-tyre.(2) stands for standard configuration.(3)\*\*stands for load center 600mm model.

WIDE VIEW FULL FREE 2-STAGE MAST										
Mast model	Max. lifting height (m)	Load capacity (lbs)- Load center 24 In			Height mast retracted (C) (in)	Free lift (with backrest) (in)	Tilting angles Forward/backward	Service Weight (lbs)		
		CPCD40/CP(Q)YD40	CPCD45/CP(Q)YD45	CPCD50/CP(Q)YD50				CPCD40/CP(Q)YD40	CPCD45/CP(Q)YD45	CPCD50/CP(Q)YD50
ZM270	106	8000	9000	10000	87.8	39.8	6° /12°	13000	13600	14200
ZM300	118	8000	9000	10000	93.5	45.5	6° /12°	13100	13700	14300
ZM330	130	8000	9000	10000	99.4	51.4	6° /12°	13130	13730	14330
ZM350	137	8000	9000	10000	103.3	55.3	6° /12°	13150	13750	14350
ZM375	145	8000	9000	10000	108.3	60.2	6° /12°	13180	13780	14380
ZM400	157	8000	9000	10000	113.2	65.2	6° /6°	13210	13810	14410
ZM450	177	7400 *9000	8400 *9000	9000 *10000	123.0	75.0	6° /6°	13260	13860	14460
ZM500	196	6400 *6800	7200 *8000	8000 *8400	132.9	84.8	6° /6°	13330	13930	14530

Note: (1)\*\*stands for the rated capacity when the front tyre is double-tyre.(2)free lifting height without lift-bracket +325mm.(3)\*\*stands for load center 600mm model.

WIDE VIEW FULL FREE 3-STAGE MAST										
Mast model	Max. lifting height (m)	Load capacity (lbs)- Load center 24 In			Height mast retracted (C) (in)	Free lift (with backrest) (in)	Tilting angles Forward/backward	Service Weight (lbs)		
		CPCD40/CP(Q)YD40	CPCD45/CP(Q)YD45	CPCD50/CP(Q)YD50				CPCD40/CP(Q)YD40	CPCD45/CP(Q)YD45	CPCD50/CP(Q)YD50
ZSM392	154	7680 *8000	8700 *9000	7600 *10000	88.0	39.8	6° /6°	13400	14000	14600
ZSM435	171	7000 *7600	8200 *8600	8600 *9600	93.7	45.6	6° /6°	13480	14080	14680
ZSM450	177	6700 *7000	8000 *8400	8400 *9400	95.7	47.6	6° /6°	13510	14110	14710
ZSM470	185	6500 *6800	7600 *8000	8100 *9000	98.2	50.2	6° /6°	13550	14150	14750
ZSM480	189	6300 *6600	7400 *7800	7900 *8900	99.6	51.5	6° /6°	13570	14170	14770
ZSM500	196	6100 *6400	6800 *7500	7600 *8600	103.5	55.4	6° /6°	13610	14210	14810
ZSM540	212	5500 *6000	6500 *6800	6800 *7200	108.5	60.3	3° /6°	13690	14290	14890
ZSM600	236	4800 *5000	5600 *6000	6200 *6800	117.9	69.8	3° /6°	13730	14330	14930

Note: (1)\*\*stands for the rated capacity when the front tyre is double-tyre.(2)free lifting height without lift-bracket +325mm.(3)\*\*stands for load center 600mm model.