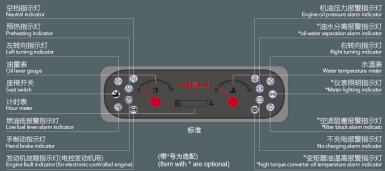


可靠的专用仪表 Reliable special designed instrument



机油压力报警指示灯
Engine oil pressure alarm indicator

“油水分离器”报警指示灯
“Water separator” alarm indicator

右转向灯指示灯
Right turning indicator

水温表
Water temperature meter

“空滤阻塞”报警指示灯
“Air filter blocking” alarm indicator

“充电”报警指示灯
“Charging” alarm indicator

“空速”报警指示灯
“Air speed” alarm indicator

“空速”报警指示灯
“Air speed” alarm indicator

“空速”报警指示灯
“Air speed” alarm indicator

可靠的专用仪表将整车运行状态、故障检测等重要信息完整传递给操作者，使操作者更直观、方便地了解车辆状态。

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.

标准配置 Standard configuration

- 电喇叭 Horn
- 二片多速阀 Control valve
- 全液压助力转向 Wholly hydraulic-powered steering
- 半包脚踏制动 Half enclosed seat
- 后减震 Backrest
- 后视镜 Back view mirror
- 前组合灯 Front combined lamp
- 传动油滤芯 Transmission oil filter
- 发动机熄火装置 Engine flame out device
- 拉索式驻车制动 Cable type parking brake
- 后组合灯 Rear combined lamp
- 倒车蜂鸣器 Backward buzzer
- 熄火脚踏锁闭装置 Kill oil circuit self lock valve
- 倾斜可调节方向盘 Tilt adjustable steering column
- 防护顶棚雨罩 Overhead guard rain cover
- 标准英文 Standard fork
- 集成电锁盒 Integrated electric box
- 液压油回油滤清器 Hydraulic oil circuit filter
- 流量阀 Flow regulator
- 宽视野门架 Wide view mast
- 进气装置 Air intake device
- 花纹配轮胎 Durable tread tyre
- 起升和倾斜脚踏杆 Lifting and tilting operation lever
- 牵引销 Traction pin
- 前大灯 Head lamp
- 液压油杯 Hydraulic oil dipstick
- 护顶架 Overhead guard
- 空滤报警指示 Air dipstick
- 组合仪表 Combined instrument
- 电液换向 Electro-hydraulic direction changing

选装配置 Optional

- 驾驶室 Driver's cab
- 警示灯 Warning light
- 高气排放装置 High air exhausting device
- 双空调 Double air cleaner
- 悬浮座椅 Suspension seat
- 加长叉臂装置 Lengthening fork extension
- 暖风机 Warm air blower
- 实心轮胎 Solid tyre
- 加厚叉架 Wide fork arm carrier
- 防风玻璃 Wind shield
- 净化消声器 Purifier/muffler
- 火灾报警器 Fire extinguisher/muffler
- 灭火器 Fire extinguisher
- 后工作灯 Rear working light
- 行走控制系统 Travelling control system
- 扭矩转换器 Torque converter oil temperature meter
- 倾斜缸缸罩 Tilt cylinder bush
- 用户指定颜色 Custom made color
- Optional attachments
- 钢制护罩 Steel protection net
- 双轮胎及保护装置 Double-tyre and protection device
- 旋转座椅 for big Rotating seat for big
- 单/双燃料系统 Single/dual fuel system
- 低速挡风罩 Low speed air



H3 series | 高效·节能 HIGH EFFICIENT ENERGY SAVING

HELI 中国合力 提升未来

1-1.8 t H3系列
内燃平衡重式叉车
H3 series internal combustion counterbalanced forklift truck

H3 1-1.8t 内燃平衡重式叉车
H3 series internal combustion counterbalanced forklift truck

六大性能显著提升 品质更加优越
Improved performance, superior quality



- 整车振动 降低20% Vibration 20% reduced
- 整车噪音 降低1.9dB Noise 1.9dB reduced
- 减少驾驶室震动，全悬浮式驾驶室，有效吸收车身震动。
- 精制油缸下移至底座下，全封闭碟片式驾驶室，降低怠速噪音。
- 起重系统配备下缓冲装置，降低门架冲击和震动，避免货物落地碰撞。
- Cushion connection and wholly suspension driver's cab absorb whole truck's vibration effectively.
- Noise around ear is reduced through down the tilting cylinder under the floor board and using fully closed patch type driver's cab.
- Lower damping device inside the lifting system reduces mast shock and vibration, avoiding crash noise caused by goods falling to the ground.

- 操作空间 增加45% Workspace 45% increased
- 转向上升，微动控制采用悬挂式，大幅提升下降空间。
- 护顶架前侧无遮挡及增高护顶架，扩展驾驶室空间。
- 半包座椅，小直径方向盘和电液换向设计，轿车化双手柄组合开关，大幅度提升驾驶舒适性。
- Space around foot is effectively increased through up steering unit and using suspension type inching.
- The operation space is enlarged by heightened overhead guard and using large arc shape of the overhead guard's front leg
- Semi-suspension seat, steering wheel with small diameter, electro-hydraulic direction changing and automobile type double joystick combined switch effectively improve driving comfort.

- 驾驶员视野 增加20% Operator's view 20% improved
- 标准宽视野门架，驾驶室前仪表下移，增大驾驶员前方视野。
- 通过CAE软件优化设计平衡重，增大驾驶员后方视野。
- Operator's front view is improved through the assembling of stand wide view mast and lowering the dashboard.
- Operator's rear view improved through the CAE optimal designed counterweight.



- 作业效率 提升20% Working efficiency 20% improved
- 转弯半径小，转向方便，机动灵活。
- 起升速度快，提升能力强，作业效率高。
- 高效的作业效率可完美保障装卸、码头、车站等环境的货物装卸工作，满足复杂苛刻的工况需求。
- Small turning radius makes steering flexible and easy
- The truck has fast lifting speed, good gradability and high efficiency.
- High working efficiency guarantees the truck could meet the requirements for various kinds of complicated work condition perfectly wherever at port, dock and railway station.
- 可靠性 提升40% Reliability 40% improved
- 热风回流装置设置，优化的散热风道，铝制铝制水箱，全面提升散热能力，确保发动机可靠工作。
- 汽车式燃油加注器，优化燃油管路结构及工艺，整车安全可靠。
- 定置架负荷传感器系统，提高起升速度，降低液压流量。
- 关键结构件如车架、门架、护顶架、转向桥优化设计，全面提升整车安全性和可靠性。
- 整车重心低移，承载能力提升，更稳定、更安心。
- The hot air reflow isolating device, optimal thermal dissipation duct and aluminum plate fin type radiator improve cooling ability and ensure engine work reliability.
- Automobile type oil filling cap and optimal oil filling channel structure and process ensure whole truck's safety.
- The constant displacement pump load sensing steering system increases the lifting speed and reduces the hydraulic oil temperature.
- The optimal design of key parts like frame, mast, overhead guard and steering axle improve the whole truck's safety and reliability.
- The reposition of whole truck's gravity center improve loading capacity, stability and safety.
- 引擎开启角度 提升至80° Engine hood open angle increased to 80°
- 车体内空间增大，便于发动机变速箱维护保养。
- 引擎开启角度加大，为实现方便快捷维护方式。
- Enlarged internal space is convenient for engine and transmission box maintenance.
- Increased hood open angle contributes to quick and convenient maintenance.



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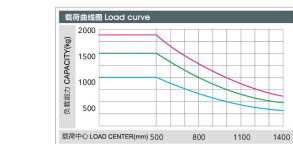
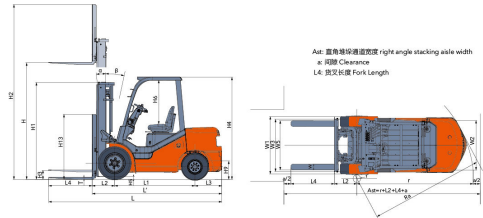
H3 1-1.8t 内燃平衡重式叉车

H3 series internal combustion counterbalanced forklift truck



制造商和技术参数 Manufacturer and technical parameters				
特性 Character	HELI			
1.01 制造商 Manufacturer	HELI			
1.02 型号 Model	CPCD10/CP/Q(Y)D10	CPCD15/CP/Q(Y)D15	CPCD18/CP/Q(Y)D18	
1.03 额定负荷 Rated capacity	kg	1000	1500	1750
1.04 负载中心 Load center	mm	500		
1.05 驾驶室方式 Operation mode	座驾式 Seat-type			
2.01 最大提升高度 Max lifting height	H	mm	3000	
2.02 门架全高度(从叉架基座、门架垂直) Max overall height(Fork to the ground and mast be vertical)	H1	mm	1995	1995
2.03 最大提升高度(带后配重) Max fork lifting height(with backrest)	H2	mm	4039	4036
2.04 自由提升高度 Free lift height	H3	mm	152	155
2.05 全罩护顶架 Overall height(Overhead guard)	H4	mm	2140	
2.06 最小离地间隙(Min) Minimum ground clearance(at the mast)	H5	mm	110	
2.07 座椅表面至护顶架距离 Distance from the surface of the seat to the overhead guard	H6	mm	1018	
2.08 牵引销高度 Traction pin height	HP	mm	255	
2.09 护顶架顶面(从叉架基座起) Backrest height(Calculated from the surface of the fork)	H9	mm	1014	
2.10 叉架(带叉叉/不带叉叉) Overall length(with fork/without fork)	(L/LA)	mm	3197/2277	3201/2281
2.11 轴距 Wheel base	L1	mm	1450	
2.12 前悬 Front overhang	L2	mm	406	409
2.13 后悬 Rear overhang	L3	mm	406	412
2.14 总宽 Overall width	W1	mm	1070	
2.15 轮胎(前轮胎/后轮胎) Tread (Front tread/Rear tread)	(W3/W2)	mm	902/928	902/928
2.16 叉车前叉可调长度(最大/最小) Fork adjustable length(the external of the fork(Max./Min.))	W5	mm	950/200	
2.17 最小转弯半径(外侧) Minimum turning radius(Exterior)	r	mm	1910	1975
2.18 最小转弯半径(内侧) Minimum turning radius(Interior)	r'	mm	49	49
2.19 最小离地间隙(侧宽) Minimum ground clearance side width	Ra	mm	2011	2035
2.20 最小离地间隙(侧宽) Minimum ground clearance side width	Aat	mm	3576	3603
2.21 门架倾角 Mast tilting angle	α/β	°	6°/10°	
2.22 货叉尺寸 Fork size	L4*W*T	mm	770*100*32	920*100*35
3.01 总重 Total weight	kg	2458	2760	2890
3.02 重量分配(满载/前/后) Weight distribution loaded (Front/Rear)	kg	2859/599	3645/615	4035/605
3.03 重量分配(空载/前/后) Weight distribution unloaded (Front/Rear)	kg	1232/1226	1204/1556	1188/1702
4.01 车轮和轮胎 Wheel and tyre	2X/2			
4.02 驱动轮(前/后) Type type(Front/Rear)	充气胎			
4.03 轮胎尺寸(前/后) Tyre size(Front/Rear)	6.50-10/10PR/5.00-8-10PR 6.50-10/10PR/5.00-8-10PR 6.50-10/10PR/5.00-8-10PR			
4.04 行车制动装置 Service brake	液压-踏板式 Hydraulic-Foot Pedal			
4.05 驻车制动装置 Parking brake	机械-手动式 Mechanical-Hand Lever			

性能 Performance										
型号 Model	CPCD10-W5H	CPCD15-W5H	CPCD18-W5H	CPQD10-QC1H	CPQD15-QC1H	CPQD18-QC1H	CRQ(Y)D10-RC2H	CRQ(Y)D15-RC2H	CRQ(Y)D18-RC2H	
最大牵引力(满载/空载) Max. drawbar pull (Loaded/Unloaded)	kN	19/12	19/12	19/12	18/7	18/7	18/7	18/7	18/7	18/7
最大爬坡度(满载/空载) Max. Gradeability (Loaded/Unloaded)	%	40/24	40/20	39/18	42/25	40/20	36/18	39/23	39/19	35/17
最大行驶速度(满载/空载) Max.traveling speed (Loaded/Unloaded)	km/h	17/18	17/18	17/18	17/18	17/18	17/18	16/17	16/17	16/17
起升速度(满载/空载) Lifting Speed (Loaded/Unloaded)	mm/s	610/650								
下降速度(满载/空载) Lowering Speed (Loaded/Unloaded)	mm/s	450/600								
驱动、传动控制装置 Drive and transmission control device										
发动机型号 Engine model	C240PKJ-30			全柴4B4.45V32			GCT K21			
发动机额定功率 Engine rated power	kW/rpm			32/2600			31.5/2200			
发动机额定扭矩 Engine rated torque	Nm/rpm			139.8/1800			140/1600			
发动机缸数 Engine cylinder number	boresstroke			4.8*102			4.8*83			
发动机排量 Engine displacement	L			2.369			2.065			
动力类型 Engine type	柴油 Diesel			柴油 Diesel						
排放标准 Emission	国四/Stage3A CHINA STAGE II / Euro STAGE IIIA			国III CHINA STAGE II						
蓄电池(电压/容量) Battery(Voltage/Capacity)	V/Ah			12/80			12/60			
发动机燃油箱容量 Engine fuel tank capacity	L			40			40			
变速箱(前进/后退/空挡) Transmission box (shifting gear)/Front/Rear type	1-1动力换挡TAM 1-1Power Shift TAM									



注: 该图表示承载量, 根据表中所列中心, 载荷中心是从叉架正上方算起, 标准载荷的基点是指负荷边长为1000毫米的立方体中心位置。当门架前倾, 使用非标准货叉或满载超过正常宽度的负荷时, 将会使承载量减少, 通过负荷曲线图, 能及时了解各种载荷中心时的承载能力。

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 1000mm 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.

宽视野基本型门架 WIDE VIEW MAST											
门架型号 mast model	最大提升高度 lifting height mm	承载能力(载荷中心为500mm) (kg) load capacity(load center 500mm)			门架全高(叉架垂直) mast overall height (fork be vertical)			自重 (kg) service weight			门架倾角 mast tilt angle α/β
		CPQD10/CP/Q(Y)D10	CPQD15/CP/Q(Y)D15	CPQD18/CP/Q(Y)D18	CPQD10/CP/Q(Y)D10	CPQD15/CP/Q(Y)D15	CPQD18/CP/Q(Y)D18	CPQD10/CP/Q(Y)D10	CPQD15/CP/Q(Y)D15	CPQD18/CP/Q(Y)D18	
M200	2000	1000	1500	1750	1495	2395	2895	2825	6/10	6/10	
M250	2500	1000	1500	1750	1745	2425	2730	2860	6/10	6/10	
M300	3000	1000	1500	1750	1995	2458	2760	2890	6/10	6/10	
M330	3300	1000	1500	1750	2145	2480	2780	2910	6/10	6/10	
M350	3500	1000	1500	1750	2245	2490	2790	2920	6/10	6/10	
M370	3700	1000	1500	1750	2345	2505	2810	2940	6/10	6/10	
M400	4000	1000	1500	1750	2545	2550	2855	2985	6/10	6/10	
M425	4250	950	1400	1600	2670	2570	2870	3000	6/10	6/10	
M450	4500	950	1400	1600	2795	2585	2885	3015	6/10	6/10	
M500	5000	*900	*1100	*1400	3045	2615	2920	3050	6/10	6/10	
M550	5500	*900	*1150	*1500	3345	2680	2980	3110	3/6	3/6	
M600	6000	*850	*1050	*1400	3595	2710	3010	3140	3/6	3/6	

注: (1) 叉架前倾时的额定承载量。(2) 1-1 门架倾角为双门架, 自重为前倾时。*50kg。
Note: (1) stands for the rated capacity when the front type is double type. (2) When the front type of the 1-1.8t truck is double type, the service weight of the truck is the weight in the table plus 50kg.

二阶段自由门架 WIDE VIEW FULL FREE 2-STAGE MAST											
门架型号 mast model	最大提升高度 lifting height mm	承载能力(载荷中心为500mm) (kg) load capacity(load center 500mm)			门架全高(叉架垂直) mast overall height (fork be vertical)			自重 (kg) service weight			门架倾角 mast tilt angle α/β
		CPQD10/CP/Q(Y)D10	CPQD15/CP/Q(Y)D15	CPQD18/CP/Q(Y)D18	CPQD10/CP/Q(Y)D10	CPQD15/CP/Q(Y)D15	CPQD18/CP/Q(Y)D18	CPQD10/CP/Q(Y)D10	CPQD15/CP/Q(Y)D15	CPQD18/CP/Q(Y)D18	
ZM200	2000	1000	1500	1750	1495	485	2430	2730	2860	6/10	
ZM250	2500	1000	1500	1750	1745	735	2440	2765	2895	6/10	
ZM300	3000	1000	1500	1750	1995	985	2495	2795	2930	6/10	
ZM330	3300	1000	1500	1750	2145	1135	2520	2820	2950	6/10	
ZM350	3500	1000	1500	1750	2245	1235	2535	2835	2965	6/10	
ZM370	3700	1000	1500	1750	2345	1335	2545	2845	2975	6/10	
ZM400	4000	1000	1500	1750	2545	1535	2590	2895	3025	6/10	
ZM425	4250	1000	1400	1600	2670	1660	2610	2915	3045	6/10	
ZM450	4500	950	1400	1600	2795	1785	2630	2930	3060	6/10	
ZM500	5000	*900	*1100	*1400	3045	2035	2645	2945	3095	6/10	
ZM550	5500	*900	*1150	*1500	3345	2135	2725	3030	3155	3/6	
ZM600	6000	*850	*1050	*1400	3595	2585	2760	3060	3190	3/6	

注: (1) 叉架前倾时的额定承载量。(2) 1-1 门架倾角为双门架, 自重为前倾时。*50kg。
Note: (1) stands for the rated capacity when the front type is double type. (2) When the front type of the 1-1.8t truck is double type, the service weight of the truck is the weight in the table plus 50kg.
(3) The free lifting height (without backrest) of the 1-1.8t truck is the height (with backrest) in the table plus 30mm.

三阶段自由门架 WIDE VIEW FULL FREE 3-STAGE MAST											
门架型号 mast model	最大提升高度 lifting height mm	承载能力(载荷中心为500mm) (kg) load capacity(load center 500mm)			门架全高(叉架垂直) mast overall height (fork be vertical)			自重 (kg) service weight			门架倾角 mast tilt angle α/β
		CPQD10/CP/Q(Y)D10	CPQD15/CP/Q(Y)D15	CPQD18/CP/Q(Y)D18	CPQD10/CP/Q(Y)D10	CPQD15/CP/Q(Y)D15	CPQD18/CP/Q(Y)D18	CPQD10/CP/Q(Y)D10	CPQD15/CP/Q(Y)D15	CPQD18/CP/Q(Y)D18	
ZSM340	3400	1000	1400	1600	1790	785	2545	2845	2975	6/6	
ZSM400	4000	1000	1400	1600	1925	920	2565	2870	3000	6/6	
ZSM435	4350	*900	*1100	*1400	2040	1035	2590	2895	3025	6/6	
ZSM450	4500	*900	*1100	*1400	2090	1085	2605	2905	3035	6/6	
ZSM470	4700	*900	*1100	*1400	2160	1155	2620	2920	3050	6/6	
ZSM480	4800	*900	*1100	*1400	2190	1185	2625	2930	3060	6/6	
ZSM500	5000	*900	*1100	*1400	2290	1285	2645	2950	3080	6/6	
ZSM450	5400	*900	*1100	*1400	2415	1410	2675	2975	3105	3/6	
ZSM600	6000	*850	*1050	*1400	2640	1635	2745	3045	3175	3/6	

注: (1) 叉架前倾时的额定承载量。(2) 1-1 门架倾角为双门架, 自重为前倾时。*50kg。
Note: (1) stands for the rated capacity when the front type is double type. (2) When the front type of the 1-1.8t truck is double type, the service weight of the truck is the weight in the table plus 50kg.
(3) The free lifting height (without backrest) of the 1-1.8t truck is the height (with backrest) in the table plus 30mm.