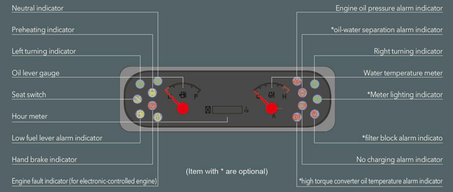
HELI

Reliable special designed instrument



(Item with * are optional)

■ 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

Horn
Control valve
Backrest
Back view mirror
Front combined lamp
Transmission oil filter
Engine flame out device
Cable type parking brake
Driver's tool
Rear combined lamp
Backward buzzer
Tilt oil circuit self lock valve
Tilt adjustable steering column
Overhead guard rain cover
Standard fork
Integrated electric box
Flow regulator
Wide view mast
Durable tread tyre
Lifting and tilting operation lever
Traction pin
Head lamp
Hydraulic oil dipstick
Overhead guard
Torque converter oil dipstick
Combined instrument
Electro-hydraulic direction changing

Optional

Driver's cab
Warning light
High air exhausting device
Double air cleaner
Suspension seat
Lengthening fork extension
Warm air blower
Solid tyre
Widen carriage
Wind shield
Cleansing muffler
Fire arrested muffler
Fire extinguisher
Rear working light
Travelling control system
Torque converter oil temperature meter
Tilting cylinder sleeve
Customer made color
Optional attachments
Steel protection net
Double-tyre and protection device
Rotating bracket for lpg
Single/dual fuel system
Low speed alrm
Attachments

ÖZİSMAK
SMZ Lift + Vehicle

ÖZİSMAK İSTİF MAKİNELERİ SANAYİ ve TİC. LTD. ŞTİ.

Merkez Adres : İkitelli O.S.B. Dolapdere San. Sit. 25. Ada No:14 Başakşehir/İstanbul
Telefon : +90 (212) 671 50 24 pbx Fax : +90 (212) 671 49 82
Fabrika Adres : Türkgücü Mah. Türkgücü O.S.B. Yılmaz Alpaslan Cad. No:64 Çorlu/Tekirdağ
Telefon : +90 (282) 681 80 77 pbx E-mail : info@ozismak.com www.ozismak.com

1-1.8 t H3 series Internal Combustion Counterbalanced Forklift Truck

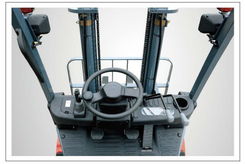
HELI
LIFTING THE FUTURE

H3 series / HIGH EFFICIENCY ENERGY SAVING

H3 1-1.8t H3 series Internal Combustion Counterbalanced Forklift Truck

H3 series / HIGH EFFICIENCY ENERGY SAVING

Improved performance superior quality



Vibration 20% reduced
Noise 1.9dB reduced

- 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.

Workspace 45% increased

- 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.

Operator's view 20% improved

- 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.

Working efficiency 20% improved

- Small turning radius makes steering flexible and easy.
- The truck has fast lifting speed, good gradeability 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.

Reliability 40% improved

- 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 retroposition of whole truck's gravity center improve loading capacity, stability and safety.

Engine hood open angle increased to 80°

- Enlarged internal space is convenient for engine and transmission box maintenance.
- Increased hood open angle contributes to quick and convenient maintenance.

H3 1-1.8t

H3 series
Internal Combustion Counterbalanced Forklift Truck

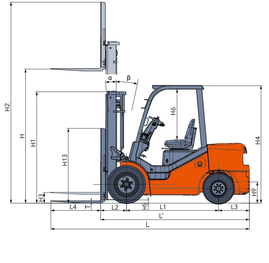
Manufacturer and technical parameters

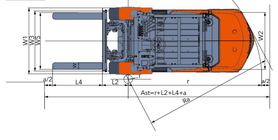
	Character				
1.01	Manufacturer			HELI	
1.02	Model			CPCD10/CP(Q)(Y)D10	CPCD15/CP(Q)(Y)D15	CPCD18/CP(Q)(Y)D18
1.03	Rated capacity		kg	1000	1500	1750
1.04	Load center		mm		500	
1.05	Operation mode				Seat-type	
	Size					
2.01	Max.lifting height	H	mm		3000	
2.02	Mast overall height(Fork to the ground and mast be vertical)	H1	mm	1995	1995	1995
2.03	Max.fork lifting height(With backrest)	H2	mm		4014	
2.04	Free lift height	H3	mm	152	155	155
2.05	Overall height(Overhead guard)	H4	mm		2140	
2.06	Min.groung clearance(At the mast)	H5	mm		110	
2.07	Distance from the surface of the seat to the overahead guard	H6	mm		1018	
2.08	Traction pin height	H9	mm		255	
2.09	Backrest height(Calculated from the surface of the fork)	H13	mm		1014	
2.10	Overall length(With fork/Without fork)	(L/L')	mm	3197/2277	3201/2281	3219/2299
2.11	Wheel base	L1	mm		1450	
2.12	Front overhang	L2	mm	406	409	409
2.13	Rear overhang	L3	mm	406	412	432
2.14	Overall width	W1	mm		1070	
2.15	Tread (Front tread/Rear tread)	(W3/W2)	mm	902/928	902/928	932/928
2.16	Fork adjustable range(the external of the fork)(Max./Min.)	W5	mm		950/200	
2.17	Min.turning radius(Exterior)	r	mm	1875	1910	1930
2.18	Min.turning radius(Interior)	r'	mm	49	49	49
2.19	Min.right angle aisle width	Ra	mm	2011	2016	2035
2.20	Min.right angle stacking aisle width	Ast	mm	3576	3584	3603
2.21	Mast tilting angle	α / β	deg		6°/10°	
2.22	Fork size	L4×W×T	mm	770×100×32	920×100×35	920×100×35
	Weight					
3.01	Total weight		kg	2458	2760	2890
3.02	Weight distribution loaded (Front/Rear)		kg	2859/599	3645/615	4035/605
3.03	Weight distribution unloaded (Front/Rear)		kg	1232/1226	1204/1556	1188/1702
	Wheel and tyre					
4.01	Wheel number x = drive wheel (Front/Rear)				2X/2	
4.02	Tyre type(Front/Rear)				Pneumatic tyre	
4.03	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	Service brake				Hydraulic-Foot Pedal	
4.05	Parking brake				Mechanical-Hand Lever	

Performance										
Model		CPCD10-WS1H	CPCD15-WS1H	CPCD18-WS1H	CP(Q)(Y)D10-RC2H	CP(Q)(Y)D15-RC2H	CP(Q)(Y)D18-RC2H	CPCD10-KU11H	CPCD15-KU11H	CPCD18-KU11H
Max.drawbar pull (Loaded/Unloaded)	kN	19/12	19/12	19/12	18/7	18/7	18/7	19/11	19/11	19/11
Max.Gradeability (Loaded/Unloaded)	%	40/24	40/20	39/18	39/23	39/19	35/17	36/18	40/19	42/45
Max.traveling speed (Loaded/Unloaded)	km/h	17/18	17/18	17/18	16/17	16/17	16/17	17/18	17/18	17/18
Lifting Speed (Loaded/Unloaded)	mm/s					610/650				
Lowing Speed (Loaded/Unloaded)	mm/s					450/600				
Drive and transmission control device										
Engine mode			ISUZU C240			GCT K21			KUBOTA V2403	
Engine rated power	kW/rpm		35.4/2500			31.2/2200			34.1/2400	
Engine rated torque	Nm/rpm		139.9/1800			143.7/1600			155.9/1600	
Engine cylinder number-borexstroke			4-86×102			4-89×83			87x102.4	
Engine displacement	L		2.369			2.065			2.434	
Engine type			Diesel			GAS/LPG			Diesel	
Emission			Euro Stage3A			-			Euro Ⅲ / EPA T4i	
Battery(Voltage/Capacity)	V/Ah		12/80			12/60			12/80	
Engine fuel tank capacity	L		40			40			40	
Tranmission box shifting gears(Front/Rear type)						1-1Power Shift T/M				

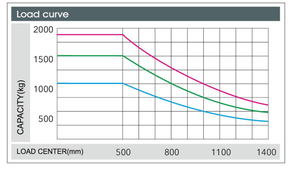
Engine Model and Main Specification for Option

Engine model	Rated power/ rotating speed (Kw/rpm)	Rated power/ rotating speed (Nm/rpm)	Engine displacement (L)	Cylinder number - BorexStroke	Engine type
GCT K15	23.6/2400	103/1600	1.486	4- 75.5×83	GAS/LPG
QUANCHAI 4B4- 45V32	32/2600	132/1800	2.27	4- 85x100	Diesel
XINCHANG 4N23G31（VE）	30/2600	131/1800	2.27	4- 85x100	Diesel
XINCHANG 4N23G31-200（VP）	30/2600	131/1800	2.27	4- 85x100	Diesel





Ast: Right angle stacking aisle width
a: Clearance
L4: Fork Length



CPCD10
CP(Q)(Y)D10

CPCD15
CP(Q)(Y)D15

CPCD18
CP(Q)(Y)D18

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.

H3 series HIGH EFFICIENCY ENERGY SAVING

WIDE VIEW MAST

mast model	Max. lifting height mm	load capacity (load center 500mm) (kg) CPCD10 CP(Q)(Y)D10	CPCD15 CP(Q)(Y)D15	CPCD18 CP(Q)(Y)D18	mast overall height (fork to the ground) (mm)	service weight (kg) CPCD10 CP(Q)(Y)D10	CPCD15 CP(Q)(Y)D15	CPCD18 CP(Q)(Y)D18	mast tilting angle (°) α / β
M200	2000	1000	1500	1750	1495	2395	2695	2825	6/10
M250	2500	1000	1500	1750	1745	2425	2730	2860	6/10
M300	3000	1000	1500	1750	1995	2458	2760	2890	6/10
M330	3300	1000	1500	1750	2145	2480	2780	2910	6/10
M350	3500	1000	1500	1750	2245	2490	2790	2920	6/10
M370	3700	1000	1500	1750	2345	2505	2810	2940	6/6 *6/10
M400	4000	1000	1500	*1750	2545	2550	2855	2985	*6/10
M425	4250	950	*1400	*1600	2670	2570	2870	3000	6/6 *6/10
M450	4500	950	*1300	*1500	2795	2585	2885	3015	*6/10
M500	5000	930 *950	*1200 *1350	*1400 *1600	3045	2615	2920	3050	6/6 *6/6
M550	5500	*900	*1150	*1500	3345	2680	2980	3110	3/6
M600	6000	*850	*1050	*1400	3595	2710	3010	3140	3/6

Note: (1) *stands for the rated capacity when the front tyre is double-tyre. (2) When the front tyre of the 1-1.8t truck is double tyre, the service weight of the truck is the weight in the table plus 50kg.

WIDE VIEW FULL FREE 2-STAGE MAST

mast model	Max. lifting height mm	load capacity (load center 500mm)(Kg) CPCD10 CP(Q)(Y)D10	CPCD15 CP(Q)(Y)D15	CPCD18 CP(Q)(Y)D18	mast overall height (fork to the ground) (mm)	free lifting height (with backrest) (mm)	service weight (kg) CPCD10 CP(Q)(Y)D10	CPCD15 CP(Q)(Y)D15	CPCD18 CP(Q)(Y)D18	mast tilting angle (°) α / β
ZM200	2000	1000	1500	1750	1495	480	2430	2730	2860	6/10
ZM250	2500	1000	1500	1750	1745	730	2460	2765	2895	6/10
ZM300	3000	1000	1500	1750	1995	980	2495	2795	2930	6/10
ZM330	3300	1000	1500	1750	2145	1130	2520	2820	2950	6/10
ZM350	3500	1000	1500	1750	2245	1230	2535	2835	2965	6/10
ZM370	3700	1000	1500	1750	2345	1330	2545	2845	2975	6/6 *6/10
ZM400	4000	1000	1500	*1700	2545	1530	2590	2895	3025	*6/10
ZM425	4250	1000	1400	*1600	2670	1655	2610	2915	3045	6/6 *6/10
ZM450	4500	950	*1300	*1500	2795	1780	2630	2930	3060	*6/10
ZM500	5000	930 *950	*1200 *1350	*1400 *1600	3045	2030	2665	2965	3095	6/6 *6/6
ZM550	5500	*900	*1150	*1500	3345	2330	2725	3030	3155	3/6
ZM600	6000	*850	*1050	*1400	3595	2580	2760	3060	3190	3/6

Note:(1) *stands for the rated capacity when the front tyre is double-tyre.
(2) When the front tyre of the 1-1.8t truck is double tyre, 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 379mm.

WIDE VIEW FULL FREE 3–STAGE MAST

mast model	Max. lifting height mm	load capacity (load center 500mm)(Kg) CPCD10 CP(Q)(Y)D10	CPCD15 CP(Q)(Y)D15	CPCD18 CP(Q)(Y)D18	(mm) mast overall height (fork to the ground)	(mm) free lifting height (with backrest)	service weight (kg) CPCD10 CP(Q)(Y)D10	CPCD15 CP(Q)(Y)D15	CPCD18 CP(Q)(Y)D18	mast tilting angle (°) α / β
ZSM360	3600	1000	1450	1750	1790	775	2545	2845	2975	6/6
ZSM400	4000	1000	1400	1600	1925	910	2565	2870	3000	6/6
ZSM435	4350	*900	*1300	*1500	2040	1025	2590	2895	3025	6/6
ZSM450	4500	*900	*1300	*1500	2090	1075	2605	2905	3035	6/6
ZSM470	4700	*850	*1250	*1400	2160	1145	2620	2920	3050	6/6
ZSM480	4800	*850	*1200	*1400	2190	1175	2625	2930	3060	6/6
ZSM500	5000	*850	*1000	*1400	2290	1275	2645	2950	3080	6/6
ZSM540	5400	*800 *850	*850 *1000	*1000 *1400	2415	1400	2675	2975	3105	3/6
ZSM600	6000	*550	*1000	*1000	2640	1625	2745	3045	3175	3/6

Note:(1) *stands for the rated capacity when the front tyre is double-tyre.
(2) When the front tyre of the 1-1.8t truck is double tyre, 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 484mm.