

**Rough terrain forklifts
6000, 7000, 8000, 10000, 12000, 16000 kg**



SERIES 3

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- The forklifts HMT complies with the Directive 2006/42/EC; 2004/108/EC; 2000/14/EC&2005/88/EC.
 - Integrated hydraulic fork positioner and side shift.
 - Heavy duty pneumatic tires.
 - Overhead guard according to FOPS&RPOS standard.
 - Air conditioning.
 - Comfort driver seat with air-cushions, wide armrests and backrest, safety belt.
 - Hand opening windows in the cab door.
 - Adjustable steering wheel.
 - Radio instalation device with sound speakers.
 - Rear view camera with display inside cabin.
 - Combimeter with necessary indicators: hour meter, fuel indicator, parking brake light, battery charging, engine coolant indicator, engine oil pressure indicator and others.
 - Sound alarm for rear movement.
 - Front / Rear Lights.
 - Set of filters for 1st maintenance



CHASSIS

- The chassis of fabricated steel plate gives high strength and reliability of construction.
- Uniform alignment of loading over entire construction

LIFTING EQUIPMENT

- A robust produced mast of all roller construction affords immense strength, maximum load stability and mast rigidity at full lift height.
- Excellent visibility
- Full width load rollers and side thrust rollers between inner and outer mast ensure complete alignment and an even distribution of loading.



ENGINE

- Modern 4/6 cylinders diesel engine Perkins / CAT Tier4F / Stage 4
- According to the last standards and requirements for exhaust emissions and noise level
- High performance, long service period, low fuel consumption



TRANSMISSION

- Heavy-duty industrial power shift transmission DANA for work in hard conditions, directly mounted to the engine.
- Hydrodynamic transmission gives 3/4 forward and 3/4 reverse speeds. Gear selection is electrically controlled.



— DRIVE AXLE —

- The forklifts HMT have a heavy-duty wide truck double reduction type drive axle DANA or OMCI with spiral bevel primary and hub planetary secondary.
- The half shafts are fully floating and run in taper roller bearings in oil, which has independence cooling
- The drive axle is equipped with disk brakes, which are working in oil bath.

— STEERING AXLE —

- Mounted to the chassis through pin type axle
- Double acting cylinder is fully protected from mechanical damages
- Hydraulic valves protected double acting cylinder from high overloading
- Fully hydrostatic power steering is giving excellent manoeuvrability without operator fatigue.

— BRAKES —

- Oil-actuated, hub-mounted wet disc brake units with own cooling system.
- Fail-safe oil-actuated brake system.
- Input shaft, disc mounted parking brake unit.
- Brake system SAFIM is isolate from surroundings.



DRIVE LINE

- The forklifts HMT DRT have option to be equip with hydrostatic transmission. Pump is mounted on the engine and hydraulic motor is mounted on the drop-box.
- The forklifts HMT have option for differential locking

DRIVER'S MODULE

- The drive's module is mounted to the chassis on independence rubber pads.
- A wide staircase gives good access to the driver's position.



- The truck is equipped with suspension seat, which is adjustable to ensure high level of driver comfort. The seat is with shock - absorber.
- Panoramic windows giving excellent view, adjustable speed of glass-wiper
- All meters and gauges are on the adjustable steering column.

SAFETY

- Pressure relief valves in: brake pedal, hydrostatic power steering, control valves and other units.
- Load lifting and lowering speed valve.
- Load lowering valve in hoisting hydraulic plunger cylinders.
- Tilt speed valve.
- Fork movement speed and anti willfully movement of forks with load valve.
- The forward / reverse lever do not give possibility to start the engine if is not in the neutral position.
- Alarm signal for reverse movement.
- Warning orange lamp.
- Driver's overhead guard answered of all requirements for safety work and gives possibility for good all round visibility.
- Seat belts.
- Proper rings for easy lifting and lowering of the truck, which are integrant part of chassis.

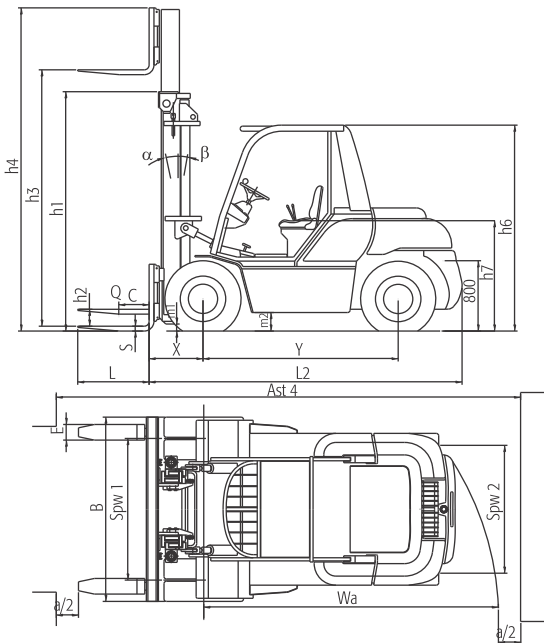
OPTIONAL EQUIPMENT

- Spark arrestor and inlet flame trap.
- Automatic gear selection.
- All attachments for forklift trucks.

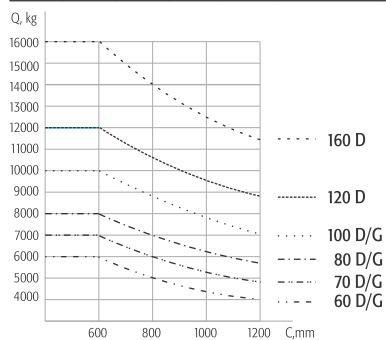


Technical Data

Identification	1.1 Manufacturer	17N Ltd.		17N Ltd.		17N Ltd.		17N Ltd.		17N Ltd.		17N Ltd.	
	1.2 Type	60 D	60 G	70 D	70 G	80 D	80 G	100 D	100 G	120 D	160 D		
	1.3 Drive: elec., diesel, gasoline, LPG	Diesel	LPG	Diesel	LPG	Diesel	LPG	Diesel	LPG	Diesel	Diesel		
	1.4 Driver position: Seated	Seated		Seated		Seated		Seated		Seated		Seated	
	1.5 Load capacity Q(t)	6.0		7.0		8.0		10.0		12.0		16.0	
	1.6 Load center C(mm)	600		600		600		600		600		600	
	1.7 Distance from CL of front axle to fork face X(mm)	600		600		600		648		748		783	
	1.8 Wheel base Y(mm)	2200		2200		2200		2800		3000		3200	
Weights	2.1 Weight - unladen kg	8850		9500		10300		12400		14900		17200	
	2.2 Axle weight laden, front / rear kg	13030 / 1820		14620 / 1880		16270 / 2030		19630 / 2770		24070 / 2830		30100 / 3100	
	2.3 Axle weight unladen, front / rear kg	3760 / 5090		3760 / 5740		3910 / 6390		6420 / 5980		7420 / 7480		7800 / 9400	
Wheels, Chassis	3.1 Tyre type: SE=Superelastic, L=Pneumatic	L / L		L / L		L / L		L / L		L / L		L / L	
	3.2 Tyre size, front	8.25 – 15		8.25 – 15		8.25 – 15		9.00 – 20		10.00 – 20		12.00 – 20	
	3.3 Tyre size, rear	8.25 – 15		8.25 – 15		8.25 – 15		9.00 – 20		10.00 – 20		12.00 – 20	
	3.4 Wheels, no. front / rear (x=drive)	4 x / 2		4 x / 2		4 x / 2		4 x / 2		4 x / 2		4 x / 2	
	3.5 Track, Spw1 / Spw2 front / rear	1814 / 1686		1814 / 1686		1814 / 1686		1908 / 1806		1908 / 1806		1908 / 1806	
Basic Dimensions	4.1 Mast tilt angles, forward (α) / backward (β)	6/10		6/10		6/10		6/10		6/10		6/10	
	4.2 Mast height - closed h1(mm)	2680		2680		2780		3050		3100		3200	
	4.3 Free lift h2(mm)	150		150		150		150		190		190	
	4.4 Lift h3(mm)	3300		3300		3300		3300		3300		3300	
	4.5 Mast height - extended h4(mm)	4255		4255		4455		4700		4800		5000	
	4.6 Full free lift, duplex / triplex h5(mm)	-		-		-		-		-		-	
	4.7 Height of overhead guard h6(mm)	2610		2610		2610		2800		2800		2800	
	4.8 Seat height h7(mm)	1230		1230		1230		1322		1337		1372	
	4.9 Length to fork face L2(mm)	3550		3550		3550		4198		4498		4733	
	4.10 Overall width B(mm)	2337		2337		2337		2450		2550		2600	
	4.11 Fork dimension (thickness/width/length) s/e/l(mm)	60x150x1600		60x150x1600		70x1500x1600		70x1500x1600		60x200x1600		80x200x1600	
	4.12 Fork carriage to ISO 2328, Class A, B	4A		4A		4A		5A		5A		-	
	4.13 Ground clearance laden under mast m1(mm)	200		200		200		250		250		250	
	4.14 Ground clearance center of wheel base m2(mm)	245		245		245		335		350		350	
	4.15 Aisle width, pallet 800x1200 / 1000x1200 mm	4800 / 5000		4800 / 5000		4800 / 5000		5628 / 5828		5948 / 6148		6163 / 6363	
	4.16 Turning radius Wa(mm)	3200		3200		3200		3980		4200		4380	
Performance Data	5.1 Travel speed, laden / unladen km/h	7:13:20 / 9:15:22		7:13:20 / 9:15:22		7:13:20 / 9:15:22		7:13:23 / 9:15:25		7:13:23 / 9:15:25		7:13:23 / 9:15:25	
	5.2 Lifting speed, laden / unladen m/s	0.40 / 0.45		0.40 / 0.45		0.40 / 0.45		0.40 / 0.45		0.40 / 0.45		0.30 / 0.35	
	5.3 Lowering speed, laden / unladen m/s	0.50 / 0.30		0.50 / 0.30		0.50 / 0.30		0.50 / 0.30		0.50 / 0.30		0.50 / 0.30	
	5.4 Drawbar pull, laden / unladen kN	64		64		64		80		93		93	
	5.5 Gradeability, laden / unladen %	36		36		36		36		36		36	
	5.6 Service brake, type	Hydraulic		Hydraulic		Hydraulic		Hydraulic		Hydraulic		Hydraulic	
	5.7 Parking brake, type	Hand		Hand		Hand		Hand		Hand		Hand	
Engine	6.1 Engine manufacturer / type	PERKINS	GM	PERKINS	GM	PERKINS	GM	PERKINS	GM	PERKINS	PERKINS		
	6.2 Engine output to ISO 1585 kW	70	89	70	89	70	89	89	89	97	129		
	6.3 Rated speed rotation 1/min	2200	2800	2200	2800	2200	2800	2200	2800	2200	2200		
	6.4 Cylinders / displacement /cm³	4 / 4400	6 / 4300	4 / 4400	6 / 4300	4 / 4400	6 / 4300	4 / 4400	6 / 4300	4 / 4400	6 / 7100		
Other Details	7.1 Fuel tank capacity	140		140		140		140		180		180	
	7.2 Type of drive control	Torque converter		Torque converter		Torque converter		Torque converter		Torque converter		Torque converter	
	7.3 Transmission Speeds forward/backward	3/3		3/3		3/3		3/3		3/3		3/3	
	7.4 Working pressure for attachments bar	180		180		180		180		180		180	



	D (G) 60, 70				D (G) 80				D (G)100				D 120, 160			
	simplex				simplex				simplex				simplex			
h3	3700	4000	4500	5000	3700	4000	4500	5000	3700	4000	4500	5000	3700	4000	4500	5000
h1	2880	3030	3280	3530	2980	3130	3380	3630	3250	3400	3650	3900	3300	3450	3700	3950
h4	4655	4955	5455	5955	4855	5155	5655	6155	5100	5400	5900	6400	5200	5500	6000	6500
h2	150	150	150	150	150	150	150	150	150	150	150	150	190	190	190	190
α/β	6/10	6/10	3/5	3/5	6/10	6/10	3/5	3/5	6/10	6/10	3/5	3/5	6/10	6/10	3/5	3/5



HMT trucks
conform to
the EU Safety
Requirements



Capacity heights	Lifting				
	simplex				
	3300	3700	4000	4500	5000
6.0 t	6.0 t	6.0 t	6.0 t	6.0 t	6.0 t
7.0 t	7.0 t	7.0 t	7.0 t	7.0 t	7.0 t
8.0 t	8.0 t	8.0 t	8.0 t	8.0 t	8.0 t
10.0 t	10.0 t	10.0 t	10.0 t	10.0 t	10.0 t
12.0 t	12.0 t	12.0 t	12.0 t	12.0 t	12.0 t
16.0 t	16.0 t	16.0 t	16.0 t	16.0 t	16.0 t



4230 Assenovgrad, BULGARIA
Tel.: +359 32 626 725, +359 87 9970742
office@hercu-mt.com



AQAP 2110



HMT trucks conform to
the EU Safety Requirements

please contact

www.hmtforklift.com