

Rough terrain forklifts
3500, 5000, 7000, 8000, 10000 kg
2- or 4- wheel drive
2- or 4- wheel steer



HMT
forklifts

SERIES DRT
DR

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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.
 - 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 cylinders turbo diesel engine CAT C4.4T / Perkins 1104D – 11T
- 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 forward and 3 reverse speeds. Gear selection is electrically controlled. Transmission is proposing also with 4F / 4R speeds depending on working conditions.
- Electro-hydraulically controlling disconnection on the rear drive axle gives possibility forklift to work with 2- or 4- drive wheels



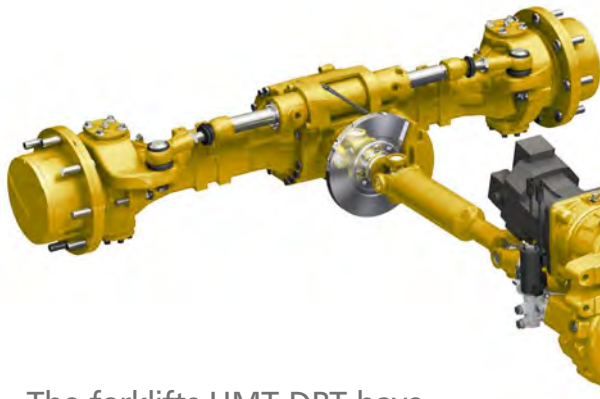


DRIVE-STEER AXLES

- The forklifts HMT have a heavy-duty double reduction type drive axles DANA 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 axles are equip with disk brakes, which are working in oil bath without service
- 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.
- The front axle has electro-hydraulically control switching ON/OFF of differential lock
- The rear axle is mounted to the chassis through pin type axle
- The rear axle has a automatic slip differential lock system to control the truck in all conditions

BRAKES

- Brake amplifier SAFIM provide light control and smooth operation.
- Brake system is working with mineral oil.
- The forklifts HMT are equip with inching system for smooth moving



- The forklifts HMT DRT have possibility for 3 steering models:
2 Wheel steer;
4 Wheel steer;
CRAB steer



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.

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.



WATER HURDLE TEST

- Forklifts HMT DRT are designed to work in heavy duty rough terrain conditions and to pass through water hurdle with depth 500 mm.

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

- Air condition.
- Spark arrestor and inlet flame trap.
- Automatic gear selection.



Technical Data

Identification	1.1 Manufacturer		17 N Ltd.	17 N Ltd.	17 N Ltd.	17 N Ltd.	17 N Ltd.
	1.2 Type		HMT 35 DRT	HMT 50 DRT	HMT 70 DRT	HMT 80 DRT	HMT 100 DRT
	1.3 Drive: elec., diesel, gasoline, LPG		Diesel	Diesel	Diesel	Diesel	Diesel
	1.4 Driver position: Seated		Seated	Seated	Seated	Seated	Seated
	1.5 Load capacity	Q(t)	3,5	5	7	8	10
	1.6 Load center	C(mm)	600	600	600	600	600
	1.7 Distance from CL of front axle to fork face	X(mm)	805	805	805	805	940
	1.8 Wheel base	Y(mm)	2350	2700	2950	2950	3200
Weights	2.1 Weight - unladen	kg	6760	8000	9820	10660	12400
	2.2 Axle weight laden, front / rear	kg	8500 / 1760	10960 / 2040	13800 / 3020	14640 / 3020	19320 / 3080
	2.3 Axle weight unladen, front / rear	kg	2920 / 3840	3400 / 4600	4620 / 5200	4780 / 5880	6420 / 5980
Wheels, Chassis	3.1 Tyre type: SE=Superelastic, L=Pneumatic		L / L	L / L	L / L	L / L	L / L
	3.2 Tyre size, front	*	9.00x20	11.00x20	18 x 22,5	17.5 - 25	23.5 - 25
	3.3 Tyre size, rear	*	9.00x20	11.00x20	18 x 22,5	17.5 - 25	23.5 - 25
	3.4 Wheels, no. front / rear (x=drive)		2 x / 2 x	2 x / 2 x	2 x / 2 x	2 x / 2 x	2 x / 2 x
	3.5 Track, Spw1 / Spw2 front / rear		1510 / 1510	1940 / 1940	1940 / 1940	1940 / 1940	1940 / 1940
Basic Dimensions	4.1 Mast tilt angles, forward (a) / backward (b)	deg	10 / 12	10 / 12	10 / 12	10 / 12	10 / 12
	4.2 Mast height - closed	h1(mm)	2350	2710	2845	2945	3100
	4.3 Free lift	h2(mm)	130	130	150	150	180
	4.4 Lift	h3(mm)	3300	3300	3300	3300	3300
	4.5 Mast height - extended	h4(mm)	3950	4350	4620	4820	4865
	4.6 Full free lift, duplex / triplex	h5(mm)	-	-	-	-	-
	4.7 Height of overhead guard	h6(mm)	2350	2600	2600	2800	2860
	4.8 Seat height	h7(mm)	1350	1450	1450	1650	1710
	4.9 Length to fork face	L2(mm)	3800	4350	4650	4980	5230
	4.10 Overall width	B(mm)	1800	2300	2300	2300	2300
	4.11 Fork dimension (thickness/width/length)	s/e/l(mm)	45x125x1200	50x120x1600	70x150x1200	60x200x1200	70x200x1200
	4.12 Fork carriage to ISO 2328, Class A, B		3B	4B	4B	4B	4B
	4.13 Ground clearance laden under mast	m1(mm)	250	365	365	365	365
	4.14 Ground clearance center of wheel base	m2(mm)	320	400	400	400	400
	4.15 Turning radius, minimum	R min (mm)	1300	1300	1500	1500	1640
	4.16 Turning radius, maximum	R max (mm)	3300	3600	3800	3900	4120
Performance Data	5.1 Travel speed, laden / unladen	km/h	20 / 29	20 / 29	20 / 28	20 / 30	20 / 30
	5.2 Lifting speed, laden / unladen	m/s	0.40 / 0.50	0.40 / 0.50	0.40 / 0.50	0.40 / 0.50	0.40 / 0.50
	5.3 Lowering speed, laden / unladen	m/s	0.60 / 0.40	0.60 / 0.40	0.60 / 0.40	0.60 / 0.40	0.60 / 0.40
	5.4 Drawbar pull, laden / unladen	kN	50	56	63	63	80
	5.5 Gradeability, laden / unladen	%	28 / 42	28 / 42	28 / 42	28 / 42	28 / 42
	5.6 Service brake, type		Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
	5.7 Parking brake, type		Hand	Hand	Hand	Hand	Hand
Engine	6.1 Engine manufacturer / type	**	Perkins 404D-22T	Perkins 1104D-44T	Perkins 1104D-44T	Perkins 1104D-44T	Perkins 1104D-44T
	6.2 Engine output to ISO 1585	kW	45	62	70	70	83
	6.3 Rated speed rotation	1/min	2800	2200	2200	2200	2200
	6.4 Cylinders / displacement	/cm3	4 / 2200	4 / 4400	4 / 4400	4 / 4400	4 / 4400
Other Details	7.1 Fuel tank capacity		90	90	90	90	120
	7.2 Transmission manufacturer / type	***	DANA	DANA	DANA	DANA	DANA
	7.3 Coupling		Hydrodynamic	Hydrodynamic	Hydrodynamic	Hydrodynamic	Hydrodynamic
	7.4 Working pressure for attachments	bar	180	180	180	180	180

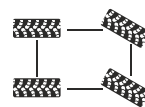
* Options for other sizes and types of tyres

** Options with diesel engine Stage 4F

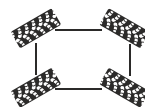
*** Option for hydrostatic transmission

The producer has a right to make modification on the specification regarding requirements

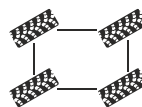
Heavy Duty axles with oil bath epicyclical reduction with 3 satellites. Integrated steering cylinders with double action in high position. 3 steering modes:



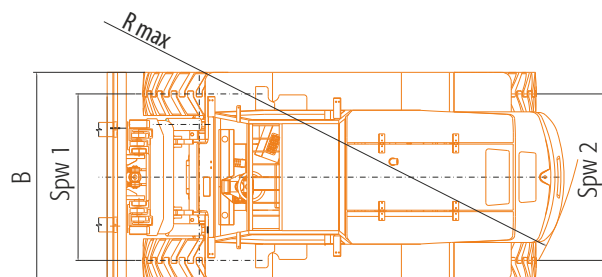
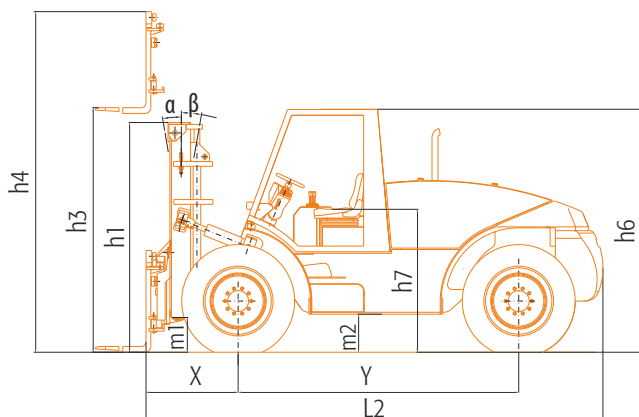
2 WHEEL STEERING



4 WHEEL STEERING



CRABSTEER





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HMT trucks conform to
the EU Safety Requirements

please contact

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