

CHARACTERISTICS

MHT 780 H-E3

I.C. ENGINE		
Type		PERKINS 1104D-44TA NJ 38996
Fuel		Diesel
Number of cylinders		4 in line
Suction		Supercharged
Injection system		Direct
Ignition sequence		1,3,4,2
Capacity	cm ³	4400
Bore and stroke	mm	105 x 127
Compression ratio		18,2:1
Nominal rating loaded	rpm	2200
Rating slow unladen	rpm	930
Max. rating unladen	rpm	2200
Power ISO/TR 14396	cv- kW	144 - 106
Power SAE J 1995	cv- kW	144 - 106
Maximum torque ISO/TR 14396	Nm	556 to 1400 rpm
Air cleaner	µm	3
Type of cooling		By water
Fan		Puller (1760 min ⁻¹)

TRANSMISSION		
Hydrostatic pump		REXROTH
Type		A4VG71DA Hydrostatic with continuous speed adjustment and engine with inching
Forward/reverse selector		Electromagnetic
Number of forward speeds		2
Number of reverse speeds		2
Main pump		
displacement min./max.	cm ³ /giri	0 a 71
Capacity max.	L/min.	170
Pressure	bar	450
Supply pump		
displacement	cm ³	19,6
Capacity max.	L/min.	47
Pressure	bar	32 ±2
Hydrostatic motor		REXROTH
Type		A6VM107DA
displacement min./max.	cm ³ /giri	32 a 107
Front axle		DANA
Differential		Limited slip
Reduction gear		Planetary gear
Rear axle		DANA
Reduction gear		Planetary gear
Drive wheels		4RM Permanent
Front tyres		MICHELIN
Size		18R 22,5 XF 1E TL
Pressure	bar	7,5
Rear tyres		MICHELIN
Size		18R 22,5 XF 1E TL
Pressure	bar	7,5

ELECTRIC CIRCUIT		
Battery	Standard	12 V - 105 Ah - 850 A EN
Alternator		12 V - 120 A
Starter		12 V - 3 kw

BRAKE CIRCUIT		
Service brake		Hydraulic power brake
Type of brake		Multidisk brake immersed in oil
Type of control		Foot-operated for the front and rear axles
Parking brake		
Type of brake		Negative action, acts on front axle service brakes
Type of control		Electro-hydraulic

SOUND AND VIBRATION		
Level of sound pressure in the driver's cab LpA (according to standard NF EN 12053)	dB	79,7
Level of sound power ensured in the LwA environment (according to directive 2000/14/EC modified by directive 2005/88/EC)	dB	103 (measured) 105 (ensured)
Average weighted acceleration on driver's body (according to standard NF EN 13059)	m/s ²	
The average weighted acceleration transmitted to the driver's hand/arm system (according to standard ISO 5349-2)	m/s ²	< 2,5

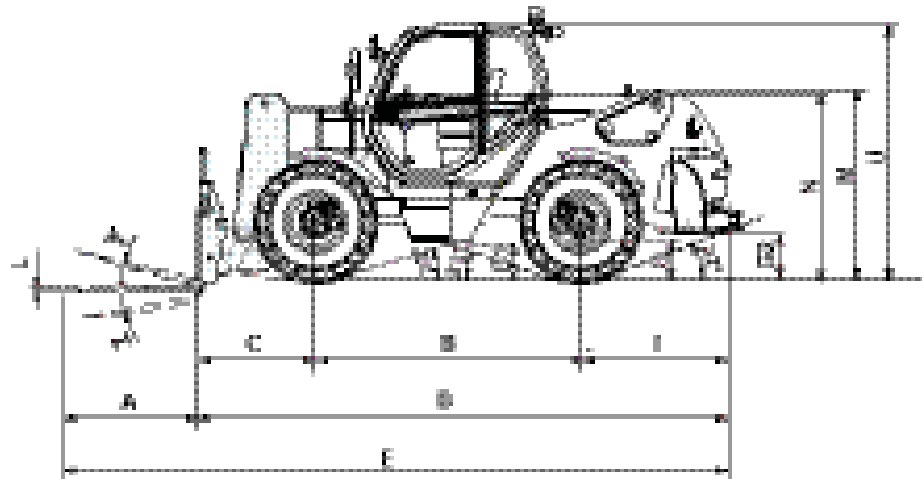
HYDRAULIC CIRCUIT		
Hydraulic pump		
Type		Variable volume pistons
		1st casing
Capacity	cm ³	63
Max. rating capacity unladen	l/mn	140
Flow rate at 1600 rpm	l/mn	100
Maximum service pressure	bar	270
Telescoping circuit	bar	220 / 270
Lifting circuit	bar	270 / 270
Tilt circuit	bar	190 / 280
Attachment circuit	bar	270
Steering circuit	bar	175

HYDRAULIC MOVEMENTS		
Longitudinal stability limiter and warning device		Electronic
Lifting motions (boom retracted)		
Unladen lifting	s - m/mn	-
Unladen lowering	s - m/mn	-
Telescoping motions (boom raised)		
Unladen extending	s - m/mn	-
Unladen retracting	s - m/mn	-
Tilting movements		
Unladen digging	s - °/s	-
Forward tilting unladen	s - °/s	-

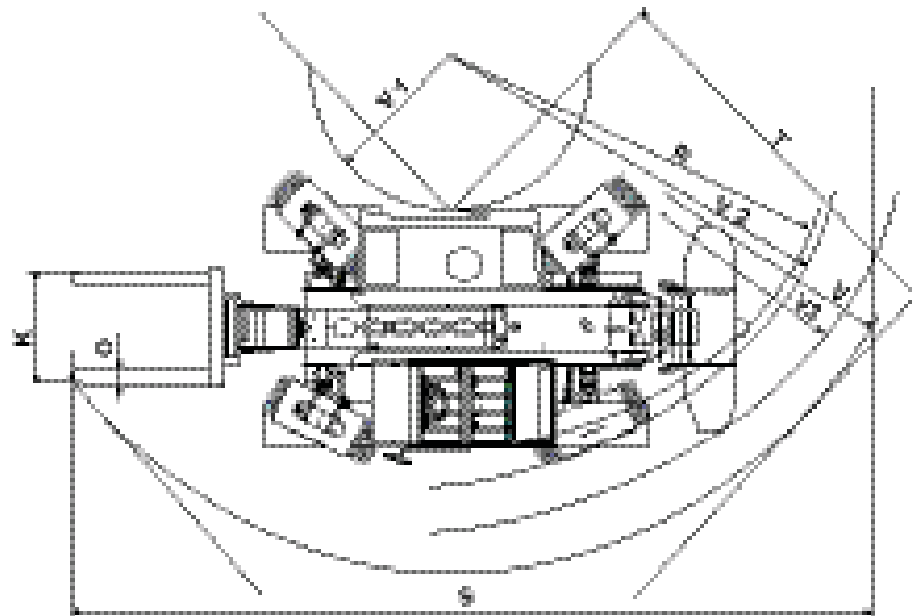
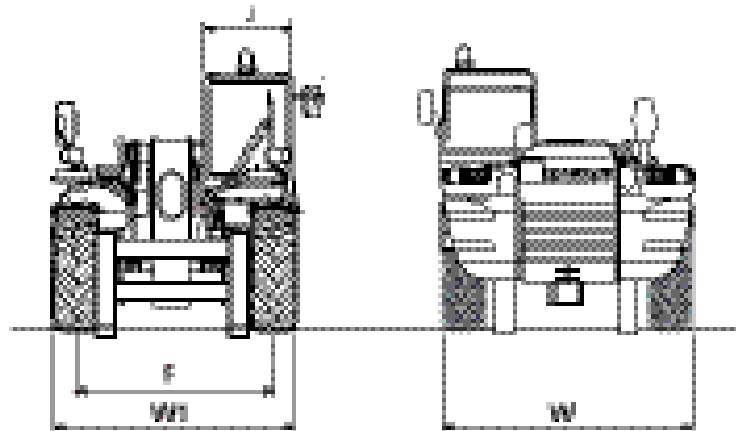
SPECIFICATIONS AND WEIGHTS		
Speed of movement for lift truck in standard configuration on flat ground (except particular conditions)		
Front unladen	km/h	28
laden	km/h	10
Rear unladen	km/h	28
laden	km/h	10
Rated capacity with standard attachment	kg	8000
Standard lifting height	kg	6800
Fork dimensions (length x width x thickness)	mm	1200 x 200 x 60
Distance from the centre of gravity from the load to the lug of the forks	mm	600
Lift truck weight with standard attachment		
Unladen	kg	12775
At rated load	kg	20775
Weight per axle with standard attachment (transport position)		
Front unladen	kg	4085
Rear unladen	kg	8690
Front rated load	kg	18175
Rear rated load	kg	2600
Drag strain on the coupling hook		
Unladen (sliding)	daN	9200
At rated load (transmission setting)	daN	10500
Pull strain with open carrier (according to standard ISO 8313)	daN	-

DIMENSIONS AND LOAD CHART

MHT 780 HT-E3



MHT 780	
A	1200
B	2870
C	1075
D	6225
E	6425
F	1980
G	380
G1	445
G2	445
I	1480
J	865
K	1750
L	60
M	1865
N	1805
O	200
R	2980
S	8040
T	4070
U	2520
V	4420
V1	485
V2	3265
V3	3875
W	2440
W1	2440
Y	12°
Z	124°



mm

Ai sensi Normativa EN 1459-allegato B

