



# **M** SERIES TIER IV

ROUGH TERRAIN VERTICAL MASTED forklifts







# SUCCESS THROUGH IMAGINATIVE POWER

MANITOU, the world's largest manufacturer of rough terrain forklift trucks, has its roots in a family tradition of innovation and imaginative power. For generations, the Braud family has dedicated themselves to creating innovative products for the lifting and handling markets.

Manufacturing its first truck in 1953, MANITOU is a pioneer in the rough terrain forklift market. By responding to market trends, MANITOU offers a complete line of rough terrain handling equipment adapted to the specific needs and challenges of each industry.

The long history of reliable, relevant equipment has led to more than 300,000 MANITOU rough terrain forklifts operating daily in more than 120 countries. This worldwide presence is backed up by a MANITOU dealer network staffed with trained mechanics and sales specialists to help you with your material handling requirements.

# ON **YOUR SIDE**, NO MATTER THE SITE

**M 30-2** 2-wheel drive

**M 30-4** 4-wheel drive



Unrivalled in the market, the M Series range of rough terrain forklifts is built on over 60 years of field experience, innovation, and customer feedback.

Renowned for their superior performance in the most extreme conditions, the rough terrain M Series forklifts go where others do not. Combining simplicity and productivity, the new M30 and M50 trucks are your most trusted allies on the jobsite. The power and maneuverability of the M30 and M50 allow you to do your job quickly and safely.

**M 50-2** 2-wheel drive

**M 50-4** 4-wheel drive





# PERFORMANCE

## ■ POWER and ■ VERSATILITY

### ■ 74 HP

Tier IV-certified Perkins engine utilizes diesel particulate filter (DPF) technology



### ■ ADAPTED TRANSMISSION

The torque converter transmission allows the operator to choose the ground speed that best suits the application (4-speed gearbox). The torque converter provides stabilized torque for traction on steep ground.

### ■ ENERGY SAVING

Fuel consumption reduced by up to 13%

### ■ EXCEPTIONAL GRADEABILITY

Large diameter wheels, excellent weight distribution and axle differential locking system provide exceptional handling in rough terrain applications.

### ■ LIFT HEIGHTS UP TO

**23 ft [7m]**



### ■ GROUND CLEARANCE

**17 in [432mm]**



### ■ WIDE TRACKS

Better stability increases safety when handling long or bulky loads





MAST TILT UP TO  
**15°**



ULTRA-SHORT TURNING RADIUS  
**10'2" [3.10m]**



OSCILLATING REAR AXLE  
WITH HIGH CLEARANCE





# SIMPLICITY

## ■ OPERATION and ■ MAINTENANCE simplified

### ■ SPACIOUS CAB WITH PANORAMIC VIEW



Optional fully enclosed cab with heater, defroster and air conditioning.

Doors can be locked in the open position for ventilation and easy access.

Cab suspension reduces vibration to the operator.

### ■ ERGONOMIC CONTROLS



Ideally positioned controls are at your fingertips for maximum comfort and productivity.

### ■ PANORAMIC CAB = **360°** VISIBILITY

### ■ IMPROVED REAR VISIBILITY WITH ROUNDED BODY STYLE



### ■ QUICK AND EASY ACCESS

through a large, wide door and oversized step.

## FULL MAINTENANCE ACCESS

On all models, the wide opening hood provides full access to the engine, gauges, and filters, reducing maintenance time and improving service access.

## LOAD ACCUMULATOR

Standard shock absorber technology allows the load to remain stable, regardless of the terrain.



# MAST SELECTIONS AND CAPACITIES

	Model	Mast (m)	Free Lift (mm)	Overall Height Lowered (mm)	Height Mast Extended (mm)	Height with Max. Capacity (m)		Capacity at Max. Height (kg)	
						With TDL*	Without TDL*	With TDL*	Without TDL*
2-Stage Full Visibility	M 30	130" / 10'10" (3.3)	5.12" (130)	96.65" (2455)	171.06" (4345)	130" / 10'10" (3.3)	130" / 10'10" (3.3)	6614 lbs. (3000)	6614 lbs. (3000)
	M 50		-	106.69" (2710)	173.82" (4415)			10,362 lbs. (4700)	11,023 lbs. (5000)
	M 30	146" / 12'2" (3.7)	5.12" (130)	106.89" (2715)	186.81" (4745)	146" / 12'2" (3.7)	146" / 12'2" (3.7)	6614 lbs. (3000)	6614 lbs. (3000)
	M 50		-	114.57" (2910)	189.57" (4815)			10,362 lbs. (4700)	11,023 lbs. (5000)
	M 30	158" / 13'1" (4)	5.12" (130)	114.37" (2905)	198.62" (5045)	158" / 13'1" (4)	158" / 13'1" (4)	6614 lbs. (3000)	6614 lbs. (3000)
	M 50		-	120.47" (3060)	201.38" (5115)			10,362 lbs. (4700)	11,023 lbs. (5000)
3-Stage Full Visibility	M 30	177" / 14'9" (4.5)	5.12" (130)	124.21" (3155)	218.31" (5545)	158" / 13'1" (4)	158" / 13'1" (4)	6173 lbs. (2800)	6393 lbs. (2900)
	M 50		-	130.12" (3305)	221.06" (5615)			8929 lbs. (4050)	9921 lbs. (4500)
3-Stage Free Lift	M 30	217" / 18'1" (5.5)	-	120.28" (3055)	264.76" (6725)	158" / 13'1" (4)	158" / 13'1" (4)	3307 lbs. (1500)	4409 lbs. (2000)
	M 50	185" / 15'5" (4.7)	62.99" (1600)	104.13" (2645)	228.54" (5805)	158" / 13'1" (4)	158" / 13'1" (4)	7385 lbs. (3350)	8157 lbs. (3700)
	M 30	197" / 16'5" (5)	70.59" (1793)	106.89" (2715)	234.72" (5962)	158" / 13'1" (4)	158" / 13'1" (4)	5291 lbs. (2400)	5732 lbs. (2600)
	M 50	217" / 18'1" (5.5)	73.43" (1865)	114.57" (2910)	259.88" (6601)	158" / 13'1" (4)	158" / 13'1" (4)	4739 lbs. (2150)	5291 lbs. (2400)
	M 50	236" / 19'8" (6)	80.31" (2040)	121.46" (3085)	279.72" (7105)	158" / 13'1" (4)	158" / 13'1" (4)	3968 lbs. (1800)	4409 lbs. (2000)
	M 30	256" / 21'4" (6.5)	97.76" (2483)	134.06" (3405)	293.78" (7462)	158" / 13'1" (4)	158" / 13'1" (4)	2646 lbs. (1200)	2976 lbs. (1350)

■ = Standard Mast

\*TDL = Sideshift Carriage

## CARRIAGE OPTIONS

A variety of carriage sizes and types are available to ensure that your needs are met on the jobsite. Available in 58" (1470 mm), 66" (1670 mm), 69" (1750 mm) and 79" (2000 mm) widths.



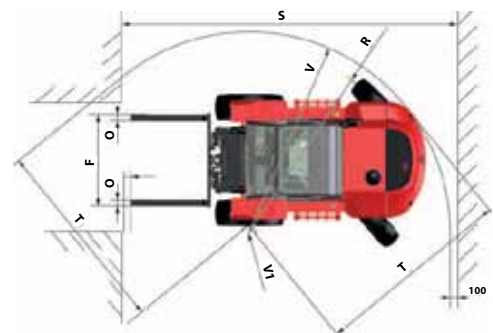
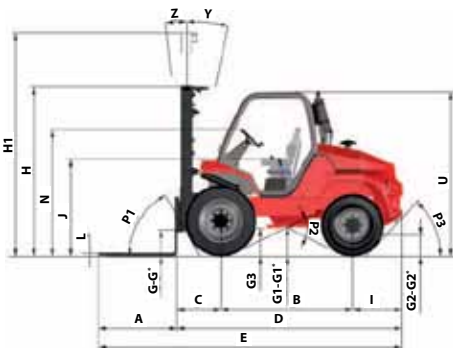
# M SERIES ROUGH TERRAIN VERTICAL MASTED FORKLIFT SPECIFICATIONS

		M 30-2	M 30-4	M 50-2	M 50-4
PERFORMANCE	Maximum Capacity (kg/mm)	6,063 lbs. (2750) at 23.6" (600) load center		11,023 lbs. (5000) at 23.6" (600) load center	
	Lift Height (Standard Mast) (m)	146" (3.7)			
	Max. Lift Height (m)	276" (7)		236" (6)	
	Turning Radius (m)	10'2" (3.10)	14' (4.27)	11'2" (3.40)	15' (4.57)
	Mast Tilt (Forward / Backward)	6° / 12°		15° / 15°	
	Forks				
	Length (mm)	47" (1200)			
	Width x Thickness (mm)	4.9" x 1.6" (125 x 40)		5.9" x 2.4" (150 x 60)	
BRAKES	Service	Hydraulic multidisc in oil bath on the front axle			
	Parking Brake	Mechanical multidisc in oil bath on the front axle			
ENGINE	Model	Perkins 854F-E34T Tier IV			
	Displacement (cm³)	207.4 cu.in. (3400)			
	Power (kW)	74 hp (55)			
	Maximum Torque (Nm) @ 1400 rpm	235 ft. lbs. (318)			
	Injection	Direct			
	Cooling	Water			
	Tractive Effort (daN)	10,499 lbs. (4670)	14,141 lbs. (6290)	13,691 lbs. (6090)	22,976 lbs. (10220)
TRANSMISSION	Type	Torque converter			
	Gear Box	Mechanical			
	Reverser	Electro-hydraulic			
	Number of speeds (forward/reverse)	4/4			
	Maximum Travel Speed (km/h)	13.7 mph (22)		15 mph (24)	
	Differential Lock Front Axle	Yes	Yes	Yes	No
	Switch for 2/4 Wheel Drive	No	Yes	No	Yes
HYDRAULICS	Pump Type	Gear			
	Pressure (bar)	3,602 psi (245)		3,381 psi (230)	
	Flow Rate (L/min)	26 gpm (97)			
CAPACITIES / WEIGHTS	Fuel Tank (L)	22.5 gal. (85)			
	Hydraulic Fluid (L)	21 gal. (80)			
	Nominal Weight (kg)	11,662 lbs. (5290)	12,092 lbs. (5485)	17,461 lbs. (7920)	18,056 lbs. (8190)
TIRES	Front	14.5 R20 18PR MPT80 TL	400/70-20 150B T37 STAB TL	18-19.5 18PR 166A6 TL	18-22.5 163A8 MPT-06 TL
	Rear	10R 17.5 134/132 M G291	10.5/80-18 10PR TG42 TL	10 R 17.5 134/132M G291	340/80 R18 XMCL 143A8

(mm)	M 30-2 / M 30-4	M 50-2 / M 50-4
A	47" (1200)	47" (1200)
B	79" (1995)	84" (2124)
C	27" (697)	30" (762)
D	136" (3442)	147" (3745)
E	183" (4642)	195" (4945)
F	61" (1550)	64" (1620)
F1	62" (1564)	69" (1740)
G	17" (425)	10" (265)
G*	15" (385)	8" (210)
G1	15" (385)	15" (375)
G1*	15" (370)	14" (355)
G2	12" (300)	12" (310)
G2*	12" (310)	13" (335)
G3	15" (380)	14" (360)
H	107" (2715)	115" (2910)
H1	187" (4745)	190" (4815)
I	30" (750)	34" (859)
J	55" (1400)	57" (1435)
K	58" (1470)	66" (1670)
L	2" (40)	2" (50)
N	74" (1880)	76" (1925)
O	5" (125)	6" (150)
P1	60.5°	43.5°
P2	49°	50°
P3	46.5°	48.5°
R	115" (2910)	157" (3985)
S	209" (5307)	249" (6337)
T	120" (3060)	132" (3363)
U	97" (2460)	98" (2495)
V	126" (3210)	164" (4155)
V1	8" (210)	44" (1120)
W	75" (1900)	82" (2080)
Y	12°	15°
Z	6°	15°

G - G1 - G2 - G3 = Unladen  
G\* - G1\* - G2\* = Rated load  
H - H1 = Standard mast 2-Stage Full Visibility 146" (3.7 m)

## DIMENSIONS REFERENCE DIAGRAMS

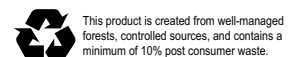


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