

SALES GUIDE

MH/MSI SERIES

MH 25-4T

MSI 30T

MSI 35T

MSI 40T

MSI 50T



SALES GUIDE

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STRATEGY

The unique concept of the **MH/MSI Series Tier IV semi-industrial forklifts** make it possible to work efficiently both indoors and outdoors on multi-terrain environments. Lifting up to 11,023 lbs. (5000 kg), at heights up to 21'5" (6.53 m), the Manitou MH and MSI Series machines provide reliable handling with extra ground clearance, traction, and smooth operation.

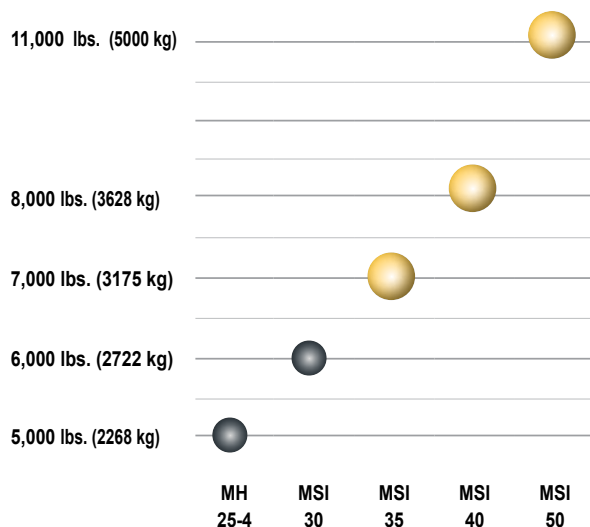


Manitou MH/MSI Semi-Industrial Forklifts excel in the following markets:

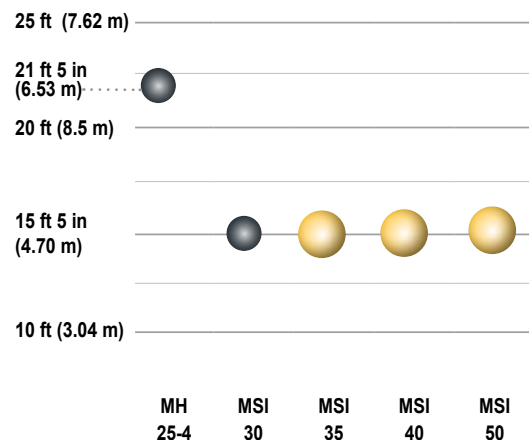
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|----------------------|-----------|-----------------------|---------|---|----------|
| ○ Agricultural Crops | SIC 01 | ○ Sand and Gravel | SIC 144 | ○ Retail Nurseries and Lawn/Garden Stores | SIC 526 |
| ○ Construction | SIC 15 | ○ Warehousing/Storage | SIC 422 | ○ Rental | SIC 735 |
| ○ Poultry | SIC 25 | ○ Lumber/Building | SIC 521 | ○ Scrap and Waste Materials | SIC 1629 |
| ○ Manufacturing | SIC 20-39 | ○ Hardware Stores | SIC 525 | ○ Brick and Block | SIC 3271 |

MANITOU MH/MSI SERIES SEMI-INDUSTRIAL FORKLIFTS

Maximum Capacity (lbs.)



Maximum Lift Height (Feet.)



SALES GUIDE

OVERVIEW

KEY SALES ARGUMENTS

LIFT CAPACITIES UP TO

11,023 lbs [5000 kg]

LIFT HEIGHTS UP TO

21'5" [6.53m]

TIER IV-CERTIFIED

59 hp [44 kW]

Kubota Turbo Diesel Engine
MH 24-4 / MSI 30 / MSI 35

74 hp [55 kW]

Perkins Turbo Diesel Engine
MSI 40 / MSI 50

HYBRID SEMI-ROUGH TERRAIN DESIGN

The large diameter of the front wheels provide more ground clearance and excellent weight distribution to handle long or heavy loads indoors and out.

HYDROSTATIC TRANSMISSION

A smooth shifting hydrostatic transmission provides dynamic power and fast machine response time. This automatic transmission is featured on all semi-industrial forklifts controlling speed, torque, power, and rotation.

ADAPTABLE FOR DIVERSE APPLICATIONS

The MH/MSI Series are designed for a variety of unique working applications such as agri-business, wood industry, oyster culture, transport logistics, brick and block, recycling/waste management and more. Offered with custom mast designs, carriages, buckets, forks, and a telehandler interface to provide extra versatility with one machine.

EASY TO MAINTAIN

Cab tilts forward hydro-electrically with the push of a button for full access to machine engine and other maintenance components.

INCREASED ERGONOMICS

Work more efficiently with more cabin space, 360 degree visibility, adjustable seat, and operator hydraulic shock protection.



MH 25-4

5,000 lbs. (2268 kg) lift capacity
21'5" (6.53 m) lift height
59 hp (44 kW) Kubota Diesel Engine
122 ft.-lbs (165 Nm)
Hydrostatic Transmission
4-Wheel Drive



MSI 30 / MSI 35

6,000 lbs. (2722 kg) lift capacity MSI 30
7,000 lbs. (3175 kg) lift capacity MSI 35
15'5" (4.70 m) lift height
59 hp (44 kW) Kubota Diesel Engine
122 ft.-lbs (165 Nm)
Hydrostatic Transmission










MSI 40 / MSI 50

8,179 lbs. (3710 kg) lift capacity MSI 40
11,023 lbs. (5000 kg) lift capacity MSI 50
15'5" (4.70 m) lift height
74 hp (55 kW) Perkins Diesel Engine
235 ft.-lbs (318 Nm)
Hydrostatic Transmission

OVERVIEW

SPECIFICATIONS

		MH 25-4	MSI 30	MSI 35	MSI 40	MSI 50
 LIFTING CAPACITIES	Lift Capacity- 24" Load Center (kg)	5,000 lbs. (2268)	6,000 lbs. (2722)	7,000 lbs. (3175)	8,179 lbs. (3710)	11,023 lbs. (5000)
	Lift Height (Standard Mast) (m)	10'10" (3.3)	10'10" (3.3)	10'10" (3.3)	12'2" (3.70)	12'2" (3.70)
	Maximum Lift Height (m)	21'5" (6.53)	15'5" (4.70)	15'5" (4.70)	15'5" (4.70)	15'5" (4.70)
	Capacity at Max. Lift Height (kg)	5,000 lbs. (2268)	6,000 lbs. (2722)	7,000 lbs. (3175)	8,179 lbs. (3710)	11,023 lbs. (5000)
 ENGINE	Manufacturer	Kubota	Kubota	Kubota	Perkins	Perkins
	Model	V2403 Turbo EPA Tier IV	V2403 Turbo EPA Tier IV	V2403 Turbo EPA Tier IV	854F-E34T Turbo EPA Tier IV	854F-E34T Turbo EPA Tier IV
	Power (kW)	59 hp (44)	59 hp (44)	59 hp (44)	74 hp (55)	74 hp (55)
	Displacement (cm³)	4 cyl. 148.5 cu.in. (2434)	4 cyl. 148.5 cu.in. (2434)	4 cyl. 148.5 cu.in. (2434)	4 cyl. 207.5 cu.in. (3400)	4 cyl. 207.5 cu.in. (3400)
	Aspiration	Turbocharged Diesel	Turbocharged Diesel	Turbocharged Diesel	Turbocharged Diesel	Turbocharged Diesel
	Torque (Nm)	122 ft.-lbs. (165) @1600 rpm	122 ft.-lbs. (165) @1600 rpm	122 ft.-lbs. (165) @1600 rpm	235 ft.-lbs. (318) @1400 rpm	235 ft.-lbs. (318) @1400 rpm
 TRANSMISSION	Transmission Type	Hydrostatic	Hydrostatic	Hydrostatic	Hydrostatic	Hydrostatic
	Reversing Shift	Electro-Hydraulic	Electro-Hydraulic	Electro-Hydraulic	Electro-Hydraulic	Electro-Hydraulic
	Maximum Travel Speed (km/hr)	8.7 mph (14)	12.4 mph (20)	12.4 mph (20)	13.7 mph (22)	13.7 mph (22)
	Number of Gears - Forward/Reverse	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1
 HYDRAULICS	Pump Type	Gear	Gear	Gear	Gear	Gear
	Pressure (bar)	2,465 psi (170)	2,683 psi (185)	2,755 psi (190)	3,335 psi (230)	3,335 psi (230)
	Flow Rate (L/min)	20.3 gpm (77)	20.3 gpm (77)	20.3 gpm (77)	36.2 gpm (137)	36.2 gpm (137)
 COMPONENTS	Tires- Drive/Steer	Drive - 280/80 R20 133 AE XMCL Steer - 27.10-12 14PR IC30	Drive - 275/70 R22.5 148/145M Steer - 7.00-12 14PR IC40	Drive - 275/70 R22.5 148/145M Steer - 7.00-12 14PR IC40	Drive - 315/70 R22.5 154/150L Steer - 225/75 R15 XZM	Drive - 315/70 R22.5 154/150L Steer - 225/75 R15 XZM
	Brakes - Service/Parking	Hydraulic	Hydraulic	Hydraulic	Mechanical	Mechanical
	Forks Length (mm)	48" (1200)	48" (1200)	48" (1200)	48" (1200)	48" (1200)
	Forks Width x Thickness (mm)	4" / 1.5" (102/38)	4" / 1.75" (102/44)	6" / 2" (152/50)	6" / 2" (152/50)	6" / 2.4" (152/60)
 SERVICE CAPACITIES	Cooling System (L)	2.6 gal. (10)	2.6 gal. (10)	2.6 gal. (10)	3.2 gal. (12)	3.2 gal. (12)
	Engine Oil (L)	8.8 qt. (8.3)	8.8 qt. (8.3)	8.8 qt. (8.3)	7.9 qt. (7.5)	7.9 qt. (7.5)
	Hydraulic Oil - Reservoir (L)	25 gal. (95)	25 gal. (95)	25 gal. (95)	34.9 gal. (132)	34.9 gal. (132)
	Fuel Tank (L)	19.4 gal. (73.5)	19.4 gal. (73.5)	19.4 gal. (73.5)	23.3 gal. (88)	23.3 gal. (88)
 GENERAL SPECIFICATIONS	Apprx.Weight w/o Mast or Forks (kg)	9,568 lbs. (4340)	9,568 lbs. (4340)	10,682 lbs. (4845)	15,388 lbs. (6980)	18,563 lbs. (8420)
	Overall Width (m)	4'9" (1.45)	4'4" (1.32)	4'4" (1.32)	5'8" (1.73)	5'8" (1.73)
	Overall Height to Overhead Guard (m)	6'7" (2.00)	6'11" (2.11)	6'11" (2.11)	8'0" (2.44)	8'0" (2.44)
	Turning Radius Outside Wheels (m)	10'8.5" (3.26)	8'8" (2.63)	8'9" (2.66)	9'5" (2.86)	9'8" (2.95)
	Overall Length Less Forks (m)	9'8" (2.94)	9'9" (2.98)	9'11" (3.03)	10'10" (3.29)	11'1" (3.38)
	Ground Clearance (mm)	10.2" (260)	10.6" (270)	10.6" (270)	7.3" (185)	7.3" (185)
	Mast Tilt (Forward/Backward)	10° / 12°	10° / 12°	10° / 12°	10° / 12°	10° / 12°
	Aisle Width	3'10" (1.16)	3'5" (1.05)	3'5" (1.05)	4'8" (1.42)	4'8" (1.42)
	Carriage Class	ITA Class II	ITA Class III	ITA Class III	ITA Class III	ITA Class IV
	Draw Bar Pull (kN)	7,531 lbf (33.5)	5,530 lbf (24.6)	5,935 lbf (26.4)	6,542 lbf (29.1)	7,194 lbf (32)

This publication in no way constitutes an offer and the company reserves the right to alter specification without notice. For compatibility conditions and restrictions, please contact your Manitou dealer or reference the forklift manual. Options may vary from illustrations provided.

SALES GUIDE

FEATURES

BODY & PERFORMANCE

TIER IV KUBOTA AND PERKINS DIESEL ENGINES

The MH/MSI machines are powered by Tier IV diesel engines utilizing DPF (diesel particulate filter) technology, providing 122 ft. lbs. (165 Nm) of torque on the MH 25-4, MSI 30 and MSI 35 and 235 ft. lbs. (318 Nm) on the MSI 40 and MSI 50.

SOLID CHASSIS DESIGN

The one piece chassis provides extra machine strength and longevity. This allows for the undercarriage to be fully-enclosed, providing increased airflow with integrated cooling ducts and full component protection including engine, hoses, valves, pumps, etc.

OSCILLATING REAR AXLE

Ensures the tires stay on the ground when traveling over semi-rough terrain surfaces.

EXCELLENT GRADEABILITY +/- 8°

BUILT FOR SEMI-ROUGH TERRAIN PERFORMANCE

GREAT VISIBILITY WHEN CARRIAGE IS LOW



COMPACT SIZE!

MACHINE WIDTH

MH 25-4	4'9" [1.45 _m]
MSI 30/35	4'4" [1.32 _m]
MSI 40/50	5'8" [1.73 _m]

MACHINE HEIGHT -UP TO MAST

MH 25-4	6'0" [1.83 _m]
MSI 30/35	7'7" [2.30 _m]
MSI 40/50	9'1" [2.77 _m]

MACHINE LENGTH LESS FORKS

MH 25-4	9'8" [2.94 _m]
MSI 30	9'9" [2.98 _m]
MSI 35	9'11" [3.03 _m]

- SMOOTH SHIFTING DURABLE MASTS
- HYDRAULIC SHOCK ABSORBER
- THREE DOUBLE ACTION AND ONE SINGLE ACTION HYDRAULIC VALVES
- SEMI / FULLY-ENCLOSED CAB OPTIONS



- **ULTRA-SHORT TURNING RADIUS**
8'8" [2.63m]

- **LARGE DIAMETER WHEELS**
Better stability and increased safety when handling long or bulky loads.

- **GROUND CLEARANCE UP TO**
10.6" [270mm]

MSI 40 **10'10" [3.29m]**

MSI 50 **11'1" [3.38m]**



**ROUGH TERRAIN
M SERIES**



**SEMI-INDUSTRIAL
MH/MSI SERIES**

M SERIES VERSUS MH /MSI SERIES	M Series 30 / 40 / 50		MH 25-4 4-Wheel	MSI Series 30 / 35 / 40 / 50 2-Wheel Drive Range
	2-Wheel Drive Range	4-Wheel Drive Range		
HEIGHT TO MAST (M)	8'11" (2.71) / 9'4" (2.85)	8'11" (2.71) / 9'6" (2.91)	6'0" (1.83)	7'7" (2.30) / 9'1" (2.77)
MACHINE WIDTH (M)	6'3" (1.9) / 6'9" (2.05)	6'4" (1.94) / 6'10" (2.08)	4'9" (1.45)	4'4" (1.32) / 5'8" (1.73)
MAX. LIFT CAPACITY (KG)	6,063 lbs. / 8,179 lbs. / 11,023 lbs. (2750 / 3710 / 5000)		5,000 lbs. (2268)	6,000 / 7,000 / 8,179 / 11,023 lbs. (2722 / 3175 / 3710 / 5000)
MAX. LIFT HEIGHT (M)	21'4" (6.5) / 19'6" (5.94) / 19'8" (6.0)		21'5" (6.53)	21'5" (6.53) / 15'4" (4.70)
GROUND CLEARANCE (MM)	14" (365)	15" (375) / 17" (430)	10.2" (260)	10.6" (270) / 7.3" (185)
TURNING RADIUS (M)	10'2" (3.1) to 11'2" (3.4)	14' (4.27) to 15' (4.57)	10'8.5" (3.26)	8'8" (2.63) to 9'8" (2.95)
FRONT TIRES (STD.)	14.5 R20 18PR MPT80 TL 18-19.5 18PR 8T P30 TUB	400/70-20 150B T37 STAB TL 18-22.5 163A8 MPT-06 TL	280/80 R20 133AE XMCL	275/70 R22.5 148/145M 315/70 R22.5 154/150L
REAR TIRES (STD.)	10R 17.5 134/132M G291	10.5/80-18 10PR TG-42 TL 340/80R18 XMCL 143A8	27.10 10-12 14PR IC30	7.00-12 14PR IC40 225/75 R15 XZM
UNIQUE APPLICATIONS	AGRICULTURE, BRICK/BLOCK, CONSTRUCTION, MINING, STEEL BUILDING CONSTRUCTION, WASTE MANAGEMENT, LUMBER HANDLING, PIPE HANDLING, AND MORE.		AGRICULTURE, BRICK/BLOCK, CONSTRUCTION, SCRAP/ WASTE MANAGEMENT, LUMBER HANDLING, TRANSPORT LOGISTICS, SAND/GRAVEL, WAREHOUSING, AND MORE.	



- **TILTING MAST FORWARD / BACKWARD**
10° / 12°

FEATURES

OPERATOR'S STATION



- **FORWARD / NEUTRAL / REVERSE**
Directional Drive is also located on the right side of the single joystick for the operator to easily select between drive modes. The JSM joystick also has this functionality.

- **SPACIOUS, ERGONOMIC CAB**, combined with visibility, comfort, wide leg room, and adjustability.
- **FULLY ENCLOSED CAB** with heat and defrost available on all models (A/C optional) or **SEMI-ENCLOSED CAB** available only on the MH and MSI 30/35 models.
- **OPERATE WITH DOOR WIDE OPEN** on enclosed cab. Driver's door locks in open-position for extra ventilation, improved communication, and easy access.
- **INTUITIVE EASY TO USE CONTROLS**
The MH/MSI machines come standard with a single joystick control, as shown to the left, which controls the functions of the boom (Up, Down and Tilt). An option to upgrade to the Manitou JSM Joystick (Switch and Move) is available on all semi-industrial models (shown above) for those who prefer this operating method.



○ PANORAMIC CAB = **360°** VISIBILITY

Achieved due to the design of the curved frame shape, low dashboard, and large open overhead guard structure.

○ FUNCTIONAL BUTTONS

Periodic maintenance, warning indicators, windshield wipers and washer, working lights and ventilation located in the dashboard for the MH and MSI 30/35 and on the right-hand side for the MSI 40/50.

○ STANDARD ADJUSTABLE SEAT WITH HYDRAULIC SHOCK ABSORBER

○ INTERIOR REARVIEW MIRROR

○ LEFT AND RIGHT SIDE MIRRORS

○ TILT STEERING COLUMN

○ DISPLAY INDICATORS

such as fuel gauge, engine oil temperature, hour meter, engine preheating, and directional drive to name a few.



○ SAFE AND QUICK ACCESS

Low, extra wide, non-slip step entrance with a large door on the MSI 40 / MSI 50, and quick access from both sides with no need for steps on the MH and MSI 30/35.

○ DOORS IN OPEN-LOCKED POSITION

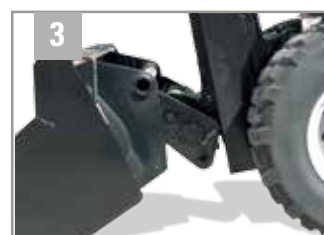


FEATURES

MAST, CARRIAGE, & ATTACHMENTS

THE NEW OPTIONAL TELEHANDLER INTERFACE TILTING CARRIAGE ATTACHMENT

The NEW TI- Tilting Carriage is a unique solution available for the MH 25-4, MSI 30 and MSI 35. This carriage will allow "quick fitting" of attachments as well as interchanging attachments, and the operator can remain seated inside the cab. This option requires the purchase of the TI Carriage, and is offered on 2-Stage full-visibility mast selections.

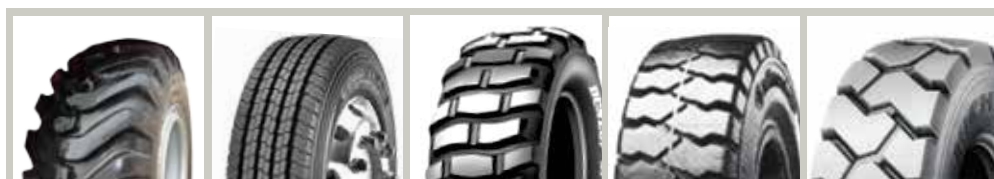


Attached with Bucket

ATTACHMENT SELECTION FOR MH/MSI SERIES SEMI-INDUSTRIAL FORKLIFTS

		MH 25-4	MSI 30	MSI 35	MSI 40	MSI 50
FORKS	Pallet Forks ITA Class II or III or IV, Classes vary per Machine	●	●	●	●	●
	Lumber Forks	●	●	●	●	
	Brick / Block Forks	●	●			
BUCKETS	Dirt/Construction 59" wide, 20.5 cu. ft. with Smooth Edge	●	●	●		
	Grain/Light Material 59" wide, 31.0 cu. ft. with Smooth Edge	●	●	●		
OTHER	Side Shifter 4" in each direction for ITA Class Carriages	●	●	●	●	●
	Side Shifting Fork Positioner	●				
	Load Backrests	●	●	●	●	●
	TI- (Telehandler Interface) Tilting Carriage Quick Attach Requires TI - ITA Class II Carriage, 2-Stage Mast ONLY	●	●	●		
	Hydraulic Quick Fit for Side Shift or Standard Carriages 3-Stage Mast				●	●

- **TIRE OPTIONS** Multiple tire options are available to customize according to jobsite requirements. Low pressure tires **absorb shocks** caused by driving over curbs, potholes and provide **perfect adhesion** on slippery surfaces. The design of the chassis **allows chains to be fitted and provides optimum traction** for extreme conditions.



MAST SELECTIONS

MH/MSI	Model	Mast Size (m)	Free Lift (FL) (mm)	Overall Height Lowered (OHL) (m)	Maximum Height Mast Extended (mm)	Maximum Fork Height (MFH) at Max. Capacity (m)
2-Stage Full Visibility	MH 25-4	130" / 10'10" (3.3)	5" (130)	90.4" (2.29)	171.06" (4.3)	130" / 10'10" (3.3)
	MSI 30 / MSI 35	130" / 10'10" (3.3)	5.3" (135)	90.6" (2.30)	165" (4.19)	131" / 10'11" (3.3)
		158" / 13'2" (4.0)	5.3" (135)	108.3" (2.75)	193" (4.89)	159" / 13'3" (4.0)
	MSI 40	146" / 12'2" (3.7)	N/A	115.2" (2.92)	184" (4.67)	147" / 12'3.6" (3.75)
		177" / 14'9" (4.5)	N/A	125" (3.17)	216" (5.477)	179" / 14'11" (4.55)
	MSI 50	146" / 12'2" (3.7)	N/A	109.3" (2.77)	184" (4.67)	148" / 12'4" (3.76)
		177" / 14'9" (4.5)	N/A	125" (3.17)	215" (5.472)	179.5" / 14'12" (4.56)
3-Stage Free Lift	MH 25-4	146" / 12'2" (3.7)	48" (1216)	76.6" (1.94)	176" (4.46)	146" / 12'2" (3.7)
		158" / 13'2" (4.0)	55" (1397)	80.5" (2.04)	188" (4.76)	158" / 13'2" (4.0)
		185" / 15'5" (4.7)	64" (1626)	94.6" (2.40)	233" (5.92)	185" / 15'5" (4.7)
		257" / 21'5" (6.5)	89" (2261)	118.1" (3.00)	305" (7.75)	257" / 21'5" (6.5)
	MSI 30 / MSI 35	158" / 13'2" (4.0)	55" (1397)	84.6" (2.15)	189" (4.80)	159" / 13'3" (4.04)
		185" / 15'5" (4.7)	65" (1647)	94.5" (2.40)	216" (5.50)	187" / 15'7" (4.74)
	MSI 40	158" / 13'2" (4.0)	54" (1358)	89.6" (2.27)	195" (4.96)	159" / 13'3" (4.05)
		185" / 15'5" (4.7)	63" (1593)	98.8" (2.51)	223" (5.66)	187" / 15'7" (4.75)
	MSI 50	158" / 13'2" (4.0)	54" (1363)	89.6" (2.27)	196" (4.97)	160" / 13'4" (4.06)
		185" / 15'5" (4.7)	63" (1598)	98.8" (2.51)	223" (5.67)	187" / 15'7" (4.76)

SERVICEABILITY AND EXTENDED COVERAGE

HYDROSTATIC TRANSMISSION COMPONENTS

- **HYDROSTATIC PUMP**
BOSCH-REXROTH A4VG71
- **TRANSMISSION MOTOR**
BOSCH-REXROTH A2FE28



FULL MAINTENANCE ACCESS

Cab tilts forward with the press of a button, for full access to the entire engine compartment and quicker serviceability checks.

AUTO-REGENERATION

DPF and auto-regeneration technology provide clean emissions with little to no effort for the operator and no need for extra fuel additives.

FOPS COMPLIANT

The cab has been designed for operator protection, satisfying FOPS requirements for falling object protection.

EXTENDED SERVICE

Available up to 5 years or 6,000 hours

Maniplus

ESSENTIAL Coverage

Powertrain coverages

2

offers

TOTAL Coverage

All machine components



MH/MSI SERIES TIER IV

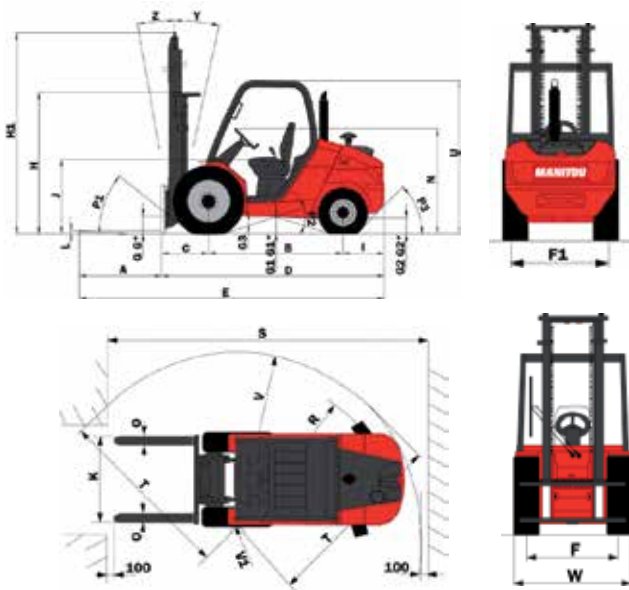
SALES GUIDE

SPECIFICATIONS

Load charts based on 24" load center per ANSI/ITSDF B56.1

(mm)	MH 25-4	MSI 30	MSI 35	MSI 40	MSI 50
A	48" (1200)	48" (1200)	48" (1200)	48" (1200)	48" (1200)
B	70.9" (1800)	70.9" (1800)	70.9" (1800)	81.7" (2075)	81.7" (2075)
C	24.6" (625)	24.8" (630)	24.8" (630)	27.2" (691)	27.6" (701)
D	9" (229)	9" (229)	9" (229)	10" (254)	10" (254)
E	13" (330)	13" (330)	13" (330)	14" (354)	15" (381)
F	45.7" (1160)	41.2" (1046)	41.2" (1046)	55.9" (1420)	55.9" (1420)
F1	45.8" (1164)	43.4" (1102)	43.4" (1102)	45" (1142)	45" (1142)
G	10.4" (265)	10.6" (270)	10.6" (270)	7.3" (185)	7.3" (185)
G*	9.3" (235)	9.4" (240)	9.4" (240)	5.5" (140)	5.5" (140)
G1	10.2" (260)	10.2" (260)	10.2" (260)	8.7" (220)	8.7" (220)
G1*	10.2" (260)	10.2" (260)	10.2" (260)	8.1" (205)	8.1" (205)
G2	8.5" (215)	8.5" (215)	8.5" (215)	8.9" (225)	8.9" (225)
G2*	9.1" (230)	9.1" (230)	9.1" (230)	9.7" (247)	9.7" (247)
G3	10.6" (270)	10.6" (270)	10.6" (270)	13.4" (340)	13.4" (340)
H	72.2" (1835)	90.6" (2300)	90.6" (2300)	109.3" (2775)	109.3" (2775)
H1	160.2" (4070)	165" (4193)	165" (4193)	184.1" (4677)	183.9" (4672)
I	20.5" (520)	21.7" (550)	23.6" (600)	20.8" (528)	23.9" (608)
J	40.4" (1025)	40.4" (1025)	40.4" (1025)	51.2" (1300)	51.2" (1300)
K	49.6" (1260)	49.6" (1260)	49.6" (1260)	65.7" (1670)	65.7" (1670)
L	1.6" (40)	1.8" (45)	1.8" (45)	2" (50)	2.4" (60)
N	57.1" (1450)	57.1" (1450)	57.1" (1450)	70.8" (1799)	70.8" (1799)
O	3.9" (100)	3.9" (100)	4.9" (125)	5.9" (150)	5.9" (150)
P1	49.5°	49.5°	49.5°	29°	29°
P2	40.5°	40.5°	40.5°	27°	27°
P3	44°	40°	40°	53°	42°
R	119.9" (3045)	90.9" (2310)	91.7" (2330)	106.9" (2715)	106.9" (2715)
S	200.4" (5090)	180" (4560)	180.9" (4595)	109.3" (2775)	112.6" (2860)
T	98.4" (2500)	101.6" (2580)	102" (2590)	195.1" (4956)	206.3" (5241)
U**	6" (152)	6" (152)	6" (152)	8" (203)	8" (203)
V	10" (254)	8" (203)	8" (203)	9" (229)	9" (229)
V1	42.5" (1080)	5.9" (150)	3.9" (100)	4.9" (125)	4.9" (125)
W	4" (102)	4" (102)	4" (102)	5" (127)	5" (127)
Y	12°	12°	12°	12°	12°
Z	10°	10°	10°	10°	10°

* Rated Load, **Cab height will increase on models that include Air Conditioning.



MH/MSI SERIES TIER IV

MH/MSI SERIES FEATURES	MH 25-4	MSI 30	MSI 35	MSI 40	MSI 50
ENGINE					
Kubota 59 hp (44 kW)	●	●	●	N/A	N/A
Perkins 74 hp (55 kW)	N/A	N/A	N/A	●	●
OPERATOR'S STATION					
Semi-Enclosed Cab	●	●	●	N/A	N/A
Fully Enclosed Cab with Heat	○	○	○	●	●
Fully Enclosed Cab with Heat & A/C *	○*	○*	○*	○*	○*
Adjustable Vinyl Seat	●	●	●	●	●
Tinted Front and Rear Windows	●	●	●	●	●
Rubber Mounted Electrically Hoisted Cab	●	●	●	●	●
Front, Rear, and Top Glass Wipers	●	●	●	●	●
Horn and Back Up Alarm	●	●	●	●	●
Exterior Left and Right Side Mirrors	●	●	●	●	●
Interior Rear View Mirror	●	●	●	●	●
PERFORMANCE					
Hydrostatic Transmission	●	●	●	●	●
Power Assisted Steering	●	●	●	●	●
Electro-Hydraulic Forward/Reverse Shift	●	●	●	●	●
Mast Tilt 10° Forward /12° Backward	●	●	●	●	●
Automatic Acceleration System for Lifting	●	●	●	●	●
2-Wheel Drive	N/A	●	●	●	●
4-Wheel Drive	●	N/A	N/A	N/A	N/A
Differential Lock	●	N/A	N/A	●	●
Engine Block Heater with 12V Battery	●	●	●	●	●
Insulated Lockable Engine Compartment	●	●	●	●	●
STRUCTURE					
Heavy-duty Steer Axle with Integral Cylinder	●	●	●	●	●
Side-Shifter	○	○	○	○	○
CONTROLS					
Single Joystick Combines Up/Down/Tilt	●	●	●	●	●
JSM/Joystick Controls	○*	○*	○*	○*	○*
Electro-Hydraulic Parking Brake	●	●	●	N/A	N/A
Mechanical Parking Brake	N/A	N/A	N/A	●	●
Full Instrumentation	●	●	●	●	●
HYDRAULIC SYSTEM					
Hydraulic Valves: 3 Double Action with 1 Single Action section	●	●	●	●	●
Hydraulic Shock Absorber	●	●	●	●	●
LIGHTS					
Complete Road Lights	○	○	○	○	○
Working Lights	○	○	○	○	○

● Standard ○ Optional *Extended Lead Time