

**MSI** RANGE  
Semi-industrial forklift trucks



# Handling your world

Founded over 60 years ago by the Braud family, Manitou Group now operates worldwide. A world-leader in all-terrain material handling, the Group designs, produces, distributes and services equipment intended for construction, agriculture and industries.

The Group's product ranges include: telescopic loaders including rotary and heavyweight all-terrain telescopic forklift-trucks, semi industrial and industrial all-terrain masted forklifts, compact loaders (skid-steers) on wheels or tracks, aerial work-platforms for personnel, truck-mounted forklifts, warehousing equipment and attachments.

Thanks to its high-profile brands, Manitou, Gehl and Mustang, and its network of 1,400 dealers throughout the world, the group provides the best solutions, creating most value for its customers.

With its head office in France, the group had a revenue of €1.332 billion in 2016 in 140 countries and employs 3,700 staff who are resolutely focused on customer satisfaction.



1958

First Manitou forklift truck created based on an idea from Marcel Braud.

1972

Group's global expansion began.

Sales & marketing partnership agreement signed with Toyota for the exclusive distribution of Toyota industrial forklifts in France.

1981

Manitou's first telehandler launched.

1984

The company went public.

1993

First MRT rotating telescopic forklifts were launched.

1995

Aerial workplatforms launched.

1996

Manitou was ISO-9001-certified for the first time.

1998

Marcel Braud appointed Chairman of the Supervisory Board..

2007

Manitou inaugurated a 22,000 m<sup>2</sup> international logistics center.



**3 brands**  
distributed by  
1.500 dealers  
in 140 countries

**MANITOU** | **GEHL** | **MUSTANG**

- 21 subsidiaries
- 11 production facilities
- 3.700 employees worldwide
- 65% of the share capital held by the founding families
- 78% of revenue comes from foreign markets
- Revenue of 1.332 billion euros in 2016

2008

The American Gehl Company was acquired.

2009

Governance changed and the company went back to having a Board of directors.

2010

Gehl and Mustang articulated loaders launched.

2012

Crossover agreement signed with the company Yanmar for the manufacturing and distribution of compact excavators.

2013

Partnership with Yanmar made stronger with Yanmar taking a 6,26%-stake in the Group's capital.

2014

January: Michel Denis appointed as President and CEO.  
April: new roadmap hinged in the three divisions, including one for service.

2015

Celebration of the 500,000th machine sold in the world.



2016

Launch of the new MLT range, NewAg.

*NEWAG*

2017

Inauguration of the new entity Manitou Equipment India, specialised in compact loaders and backhoes.









## The Manitou semi-industrial forklift trucks(MSI)

The Manitou group is the real expert and the pioneer of this type of machines.

Specially designed to meet specific handling requirements:

- sloping or uneven terrain;
- long or heavy loads; and
- high permanent power output and precision for accurate operation and handling.

In a difficult environment and/or with specific requests, the MSIs are the appropriate solution in terms of total cost of ownership compared to a standard industrial forklift.

# PRODUCTIVITY

## Versatile machines

Drive your forklift easily, no matter the type of ground.

Large front wheels, combined with hydrostatic transmission, provide for a smooth operation.

With a capacity ranging from 2 to 5 tonnes, MSIs boost high maneuverability and flexibility of use. In addition, thanks to its stability and versatility, an MSI can easily operate in warehouses or outdoor storage areas, even in rough terrain.



**2**

wheel-drive

Hydrostatic  
transmission

Capacities from

**2 to 5**  
tons

## **Productivity & maneuverability**

Thanks to its powerful gradeability, you are able to optimise space and efficiency in the working area.

Additionally, you save precious time through an ergonomic operator cab and easy ground maneuvering of the truck.

The engine power, coupled with hydrostatic transmission, provide for precise operation and increased productivity.



Work easily in confined spaces. With their compact dimensions and a very tight turning radius (thanks to the steering axle with built-in cylinder), MSIs provide exceptional mobility.



# RELIABILITY

## Robust chassis & ergonomic levers

Manufactured by Manitou, the monoblock chassis and other key components have been designed to offer long service life.

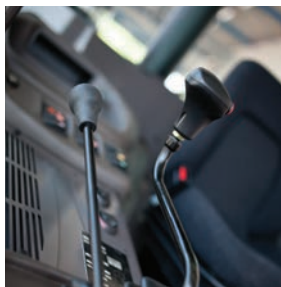
The masts have been designed and manufactured by Manitou. They have been specially designed to meet the requirements of the toughest applications.

Located near the driving seat, the cross levers (in standard) group together all controls to raise/lower and tilt the mast.

MSIs feature an automatic mast lifting acceleration system, which operates independently of the transmission system.

As an option, MSIs may be equipped with a JSM to have all machine functions in the palm of your hand.

\* Joystick Switch Movements







## **Machines easy to use and maintain**

MSI forklifts are fitted with a cab featuring an electro-hydraulic lifting system: the entire cab can tilt forward effortlessly with a single button.

The outstanding access to the entire engine compartment facilitates maintenance operations, reducing machine downtime and, therefore, maintenance costs.

## **High precision machine**

Handle your loads as accurately as you would with your bare hands. Hydrostatic transmission offers absolute precision in total safety. This system also allows the machine to operate smoothly, even on rough terrain. It also provides double dynamic braking.





# COMFORT

## Access made easier

Get easily in and out of the cab several times a day. Manitou has designed forklifts to be accessible from either side without footboards. Only for the 2 to 3.5 t versions.



## Stability

Optimised by the track width to wheelbase ratio, the stability of MSI forklifts allows you to safely handle long loads or several pallets at the same time. In addition, its mast tilt angle (10-12°) and a very low centre of gravity further enhances machine stability.







## **Operator comfort**

The MSI range delivers superior operator comfort.

The driver's cab insulates the driver from vibrations (excellent shock-absorbers). As an option, the fully enclosed driver's cab includes the following features:

- adjustable suspension seat; and
- adjustable steering column and fan-assisted heating.

Keep control of your loads while driving, even on irregular terrain.

MSIs feature a unique, ergonomic and intuitive joystick that groups all key controls together: raise, lower, mast tilt and reversing shift.



## **Clear visibility**

Nothing escapes your control. MSI forklifts offer all-round visibility of the forks and the work environment. The roof window provides clear visibility for upward views.

Safety comes first.









## For all your applications !

The MSIs are perfectly adapted to semi-industrial applications. The tyres, power and robustness of the machine are designed for heavy duty applications.



## Versatile machines

Manitou proposes a wide range of products perfectly adapted to your particular needs.

MSI high-capacity forklifts are powered by reliable and high-performance engines, which facilitates handling of different type of loads: raw materials, wood and other building material.

The 2 and 2.5 t series are also available in Buggy version (overall height of less than 2m), which is ideal for height-restricted spaces.







**MSI**

Sawmills, paper industries,  
recycling industrial waste and cars,  
manufacturing and  
distribution of materials, ...  
Even on degraded ground



# A wide array of options and attachments

## Tyres

Low pressure tyres absorb shocks when driving over pavements, potholes, etc., offering perfect traction on sloping ground.

A wide range of tyres enables you to optimise your machine performance according to ground conditions.



The chassis design allows chains to be fitted and provides optimum traction under extreme conditions.

## Attachments

A range of attachments are available to suit specific applications:

- Side-shift carriage
- Fork positioner
- Waste bucket, bale clamp...
- Skip
- ...

Please note that these attachments will require 3 or 4 hydraulic services. Therefore, you need to include levers and distributors mounted up to the carriage when placing your order.



Fork positioner



Bucket





## Tilt carriage

The tilt carriage is a unique solution in the market, available for the MSI 2 to 3.5 t models. Equipped with a full visibility duplex mast (DVT), the tilt carriage allows very fast attachment changes without the need to leave the driver's cab (hydraulic locking option).

Operators work under excellent working conditions and in a clean environment.

Also available in a skip version. With a tilt angle of 66°, the carriage increases accuracy when loading and unloading materials.



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## Specific options

To meet your specific needs:

- Customised painting
- Specific equipment or attachment...





		MSI 20	MSI 25	MSI 30	MSI 35	MSI 40	MSI 50
<b>MATS</b>	Full Visibility Duplex Mast	S	S	S	S	S	S
	Free Lift Duplex Mast	O <sup>(1)</sup>	O <sup>(1)</sup>	O <sup>(1)</sup>	O <sup>(1)</sup>	-	-
	Free Lift Triplex Mast	O	O	O	O	O	O
	Total Visibility Triplex Mast	O	O	-	-	-	-
<b>ATTACHMENTS</b>	Integrated or hook-on side-shift carriage	O	O	O	O	O	O
	Load back rest	O	O	O	O	O	O
	Double side-shift carriage	-	-	-	-	O	O
	Fork positioner	O	O	O	O	-	-
	Tilt carriage	O	O	O	O	-	-
<b>Hydraulic kits and distributors</b>	Quick hydraulic couplers	O	O	O	O	O	O
	Straight lever-operated directional valve (2 double acting + 1 single acting)	O	O	O	O	-	-
	Straight lever-operated directional valve (3 double acting + 1 single acting)	O	O	O	O	-	-
	Directional valve with Switch & Move joystick (3 double acting + 1 single acting)	O	O	O	O	O	O
	Directional valve with Switch & Move joystick (4 double acting + 1 single acting)	O	O	O	O	O	O
	Cross directional valve with Switch & Move joystick (3 double acting + 1 single acting)	O	O	O	O	O <sup>(2)</sup>	O <sup>(2)</sup>
	Cross directional valve with reverse movements (2 double acting + 1 single acting)	S	S	S	S	S	S
<b>CAB / COMFORT</b>	CD/MP3 player	O	O	O	O	O	O
	Radio player with speakers and antenna	O	O	O	O	O	O
	Fully enclosed cab	O	O	O	O	S <sup>(3)</sup>	S <sup>(3)</sup>
	Driver protection without windscreen	O	O	O	O	-	-
	2-section door	O	O	O	O	S <sup>(4)</sup>	S <sup>(4)</sup>
	Low cab "buggy" version	O	O	O	O	-	-
	Right and left doors with sliding window	O	O	O	O	S <sup>(5)</sup>	S <sup>(5)</sup>
	Heating	O	O	O	O	-	-
	Air conditioning	O	O	O	O	O	O
	Driver protection with tinted front windshield and rear windows	S	S	S	S	-	-
	Tilting steering column	S	S	S	S	S	S
	Rear/front wipers and front screen washer	S	S	S	S	S	S
	Wiper for roof panel	-	-	-	-	S	S
	Sun visor on roof panel	-	-	-	-	S	S
	Document-holder	O	O	O	O	O	O
	Mechanical suspension seat in artificial leather	S	S	S	S	S	S
	Cloth mechanical suspension seat	O	O	O	O	-	-
	Cloth air suspension seat	O	O	O	O	O	O



		MSI 20	MSI 25	MSI 30	MSI 35	MSI 40	MSI 50
<b>LIGHTING</b>	Complete front/rear road lights	0	0	0	0	0	0
	Rotating beacon	0	0	0	0	0	0
	Left and right front/rear work lights (x2)	0	0	0	0	0	0
<b>SAFETY</b>	Safety belt	S	S	S	S	S	S
	Self-cleaning pre-filre	0	0	0	0	0	0
	Cyclone pre-filre	0	0	0	0	0	0
	Balancing valve on tilting cylinder	0	0	0	0	0	0
	Battery isolator switch	S	S	S	S	0	0
	Reverse motion warning alarm	0	0	0	0	0	0
	Timed engine cut-off	0	0	0	0	-	-
	Fuel tank screwdriver cap	0	0	0	0	-	-
	Emergency stop button	0	0	0	0	-	-
	Final drive protection	0	0	0	0	-	-
	Speed limiter 12 km/h	0	0	0	0	-	-
	Anti-theft predisposition	-	-	-	-	S	S
	Right-side view mirror	0	0	0	0	S	S
	Internal rear view mirror	0	0	0	0	0	0
	Left-side view mirror	0	0	0	0	S	S
<b>PRODUCTIVITY</b>	Load shock absorber	0	0	0	0	S	S
	Differential locking system	-	-	-	-	S	S
	Hydraulic inching function	0	0	0	0	S	S
	Lifting acceleration	S	S	S	S	-	-
<b>TYRES</b>	Spare wheel <sup>(1)</sup>	0	0	0	0	0	0
	Foam filled tyres <sup>(1)</sup>	-	-	-	-	0	0
	Anti-puncture liquid	0	0	0	0	-	-
	Wheel tightening tool	0	0	0	0	-	-
<b>Miscellaneous</b>	Front wing extension	0	0	0	0	0	0
	Rear wing extension	0	0	0	0	0	0
	Special colour paint	0	0	0	0	0	0
	Low temperature oil	0	0	0	0	-	-

(1) Through an special deal. - (2) Available in 4 double acting + 1 single acting - (3) With tinted windows - (4) On right door only - (5) On left door only for the MSI40-50

Specifications may vary according to the regulations in force in the country of use or with the addition of optional equipment. Manitou is constantly researching and developing new products and reserves the right to make any changes without prior warning.







## The model you need !

Choose from a range of 2 to 5 tonnes, with lifting heights up to 7 m.  
You also have a wide range of tyres and masts at your disposal.



**All-terrain**



## MSI 20

Capacity	kg (lbs)
Engine power 3B 3A (X version)	kW (HP)
Max. lifting height	m (ft)
Center of gravity	mm (ft)
Carriage class	
Dimensions from (LxWxH)	m (ft)
Aisle width from	m (ft)
Turning radius from	m (ft)

2000 (4400)
48.6 (65.2) -
7 (23')
500 (1'64")
FEM 2A
2.95 x 1.32 x 2.22 (9'8" x 4'4" x 6'1")
4.49 (14'73")
2.54 (8'3")

## MSI 25

2500 (5500)
48.6 (65.2) 36 (48.3)
7 (23')
500 (1'64")
FEM 2A
2.95 x 1.32 x 2.22 (9'8" x 4'4" x 6'1")
4.52 (14'82")
2.54 (8'3")

## MSI 30

3000 (6600)
48.6 (65.2) 36 (48.3)
7 (23')
500 (1'64")
FEM 3A
2.98 x 1.32 x 2.22 (9'9" x 4'4" x 6'1")
4.56 (14'96")
2.64 (8'5")



**MSI 35**

3500 (7700)
48.6 (65.2) 36 (48.3)
7 (23')
500 (1'64")
FEM 3A
3.03 x 1.32 x 2.22 (9'11" x 4'4" x 6'1")
4.6 (15'09")
2.67 (8'7")

**MSI 40**

4000 (8800)
55 (73.8) -
6 (19'8")
500 (1'64")
FEM 3A
3.29 x 1.73 x 2.44 (10'10" x 5'8" x 8'0")
4.76 (16'53")
2.87 (9'4")

**MSI 50**

5000 (11000)
55 (73.8) -
6 (19'8")
600 (1'97")
FEM 4A
3.38 x 1.73 x 2.44 (11'1" x 5'8" x 8'0")
5.04 (15'61")
2.95 (9'7")









## Manitou is here to help !

So that you can benefit from an operational forklift all year long, Manitou offers a wide range of products and services that are suited to all your needs.



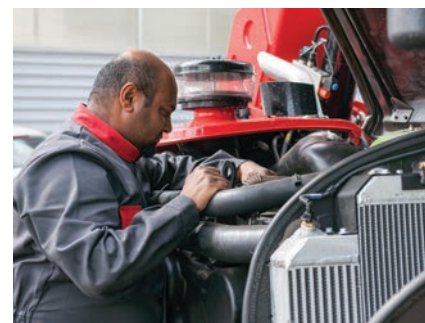
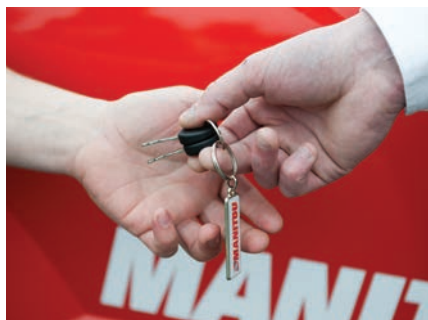
## Expertise and service on a daily basis

Your Manitou dealer can guarantee a complete range of services at all stages of your machine's life and is there to provide support and meet your needs, always looking to provide you with the best solution.

## 1 400 dealers at your service

The Manitou network is present in more than 120 countries, with over 2,000 expert technicians, specially trained in Manitou technology, who are at your service to assist with everything from purchasing to after-sales.





- **Dealer network**  
 A network of experts at your service, whatever your activity (agriculture, construction, industry).
- **Maintenance contracts**  
 3 levels of contracts which are tailored to your specific needs: Initial, Advanced, and Excellence. Leave maintenance to your Manitou dealer.
- **Financing**  
 Buy or rent? Whatever your business, simplify your investment with financing or leasing solutions using Manitou Finance.
- **Warranty extension**  
 With Maniplus, you can extend coverage on your Manitou for up to 5 years. Use your machine with full peace of mind.
- **The connected solution**  
 Easy Manager is a simple and flexible tool for managing, optimizing and securing the operational monitoring of your machines.
- **Used**  
 In the market for second-hand equipment? The Manitou network can help you. Visit your dealer or [used.manitou.com](http://used.manitou.com), our dedicated reference site for second-hand machines.
- **Genuine spare parts**  
 With more than 70,000 parts available, your Manitou dealer never fails to give you expertise and service you need!

Your dealer :



Head office

B.P. 249 - 430 rue de l'Aubinière - 44158 Ancenis Cedex - France

Tél.: 00 33 (0)2 40 09 10 11 - Fax: 00 33 (0)2 40 09 10 97



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