



**ME** RANGE  
Electric 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 €1.287 billion in 2015 in 140 countries and employs 3,214 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..

2006

Manitou surpassed the 1 billion euro sales mark.

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

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

- 21 subsidiaries
- 9 production facilities
- 3.214 employees worldwide
- 65% of the share capital held by the founding families
- 78% of revenue comes from foreign markets
- Revenue of 1.287 billion euros in 2015

2007

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

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.

2011

Family shareholding reorganized.

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.

500 000





## The Manitou Electric (ME) trucks

### **EFFICIENCY DEDICATED TO STYLE**

Like their engine equivalents (MI), the ME range responds perfectly to the requirements of today's industrial markets. They are easy to use and maintain, as well as being reliable in all situations.

# DESIGN

## Design dedicated to material handling

Since it is always more enjoyable to operate well-designed equipment, the ME range of trucks has been designed with this in mind, while at the same time providing efficient, safe and reliable material handling equipment.

Whatever the load type and operating frequency, you will find your solution in the ME range.



From  
**3 134 mm**  
aisle width

Up to  
**6,5 m**  
lifting height

Capacities from

**1,5 to 5**  
tons

**3 WHEELS 24 VOLTS**



**3 WHEELS 48 VOLTS**



**14**  
models

**4 WHEELS 48 VOLTS**



**4 WHEELS 80 VOLTS**



# EFFICIENCY

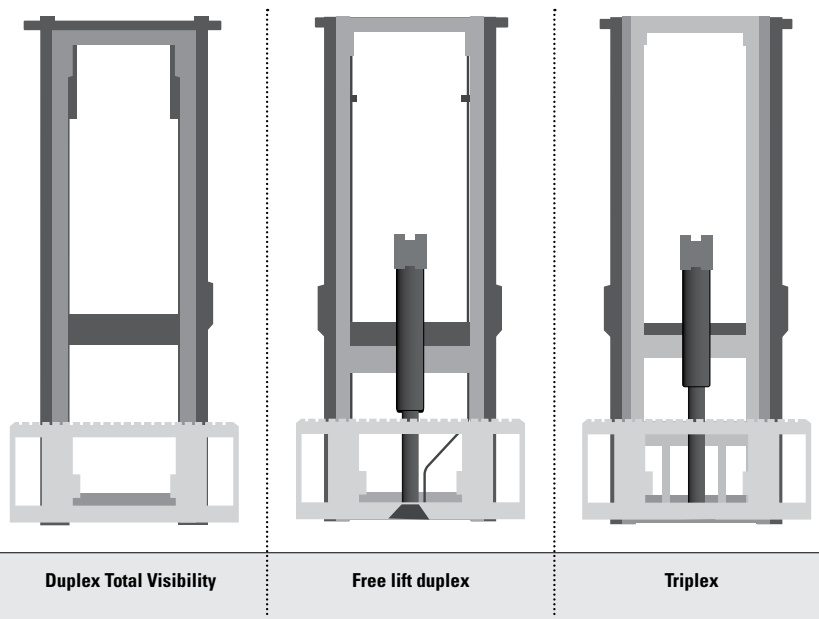
## Efficiency machines

When designing its range of electric forklift trucks, Manitou has made efficiency the main focus. The recognised components and performance of these machines offer you optimal productivity whatever your application.

- **Asynchronous engine** is coupled with the machine's protective functions, thanks to the temperature and speed sensors. Increased reliability and service life of your machine.
- More than **28 adjustable settings** for everything from moving speed, to braking responsiveness, to hydraulic performance.
- **ME truck dimensions** mean they can operate in the tightest of spaces.
- **Wide range of batteries** to adapt to your power requirements and duration of the work.
- **Regenerative engine braking** allows part of the kinetic energy to be converted during deceleration of the traction motors.







## Mast types

The ME range offers you several mast options, enabling you to reach heights of up to 6.5 m.

### Duplex Total Visibility

Two mast sections one fixed, one sliding. The sliding section is activated when the operator uses the hydraulic lever.

### Free lift duplex

The central cylinder gives the operator greater free lift without having to raise the mast.

### Triplex free lift

The central cylinder gives the operator greater free lift without having to raise the mast. The mast consists of three sections, which allow for a low overall height while maintaining a significant working height.

We can also fulfill your specific requirements: please contact your nearest dealership.



Your  
productivity,  
our  
priority!



## Visibility & safety

The safety of the driver and the surrounding environment relies first and foremost on visibility. The machine has been designed with this priority in mind:

- Mast: optimized hose routing for better vision between the uprights,
- Overhead guard with honeycomb roof ensuring excellent upward visibility,
- Streamlined back uprights,
- Operator presence sensor, which secures use by locking the hydraulic movements of the mast and the forward/backward movement of the machine (standard ISO 3691),
- Handle on rear frame fitted with a horn (as standard, except on the ME440, 445 and 450).
- Curve control: speed reduction on cornering, on three-wheel trucks.
- Hill start and anti-runaway option for slopes and travelling downhill for operation on inclines.

# SAFETY



## Easy access

Across our whole product range, one of Manitou's concerns is the safety and comfort of the user during the often repetitive activities of getting in and out of the driver's cab.

Regardless of body shape, users can easily access the driver's cab from both sides thanks to:

- the fixed handles on the front left side of the overhead guard,
- the wide anti-slip steps located on both sides,
- the large open space on the platform.



# RELIABILITY

## Easy-to-use and maintain machines

To reduce machine downtime and service costs, ME trucks are easy to maintain.

- Simplicity of design with reduced on-board electronics helps keep maintenance costs down.
- Easier access to components (side cover) and battery.
  - The main electronic components are positioned in sealed casings protected from dust and moisture..

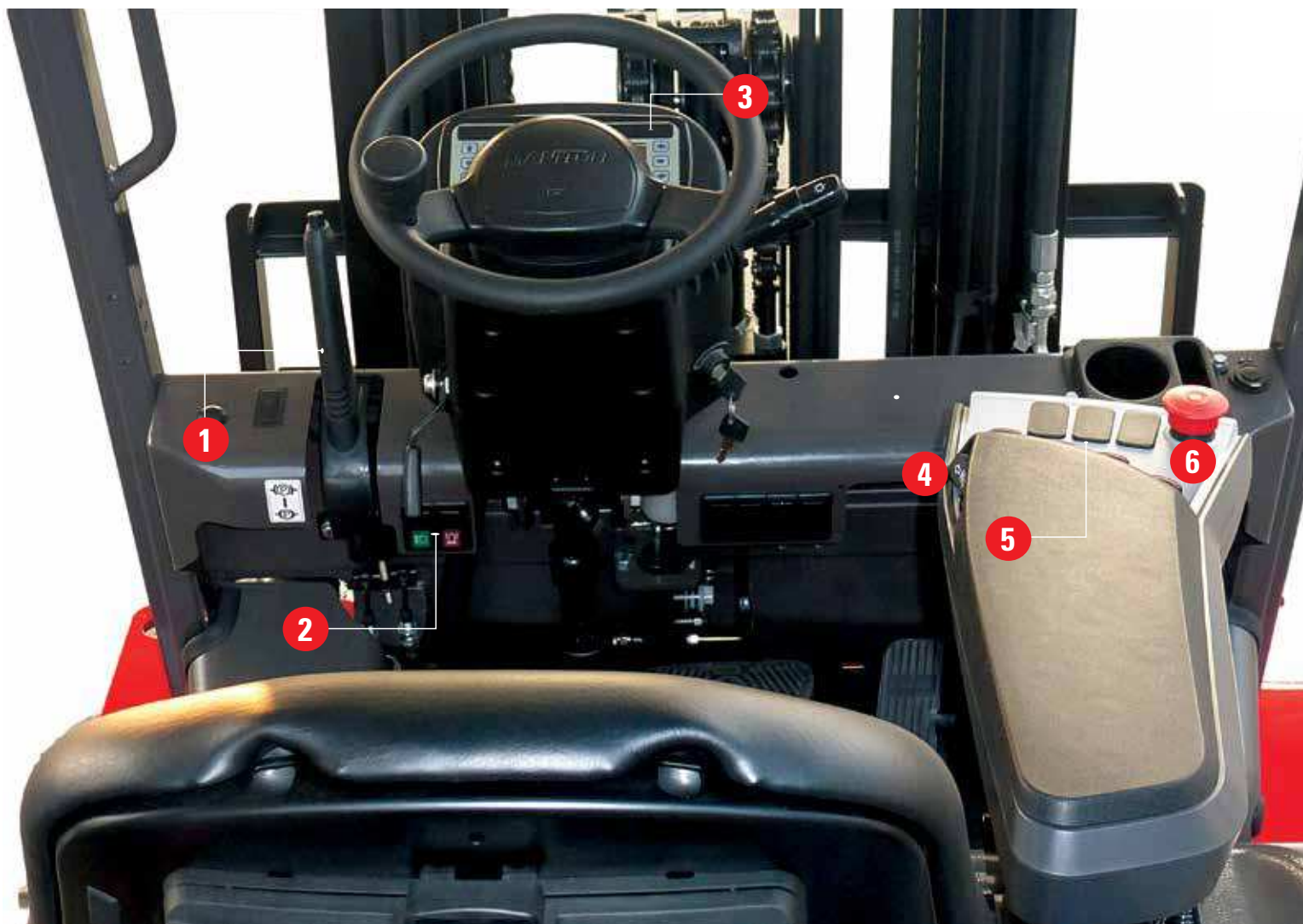
### Kollmorgen® controller

This controller complies with the strictest standards and is innovative in the way it facilitates data collection, thus reducing maintenance time.

### Connected equipment

Our Easy Manager solution allows you to monitor your equipment in real time, schedule your servicing, and more. It's a simple tool to manage, optimise and secure your machines. Easy Manager is available in six options, so there is sure to be one that suits your needs!





## User comfort

The spacious and comfortable driver's cab provides the operator with outstanding driving comfort, making work less tiring and improving productivity.

- Adjustable suspension seat,
- Safety belt (standard),
- Adjustable steering column,
- End of travel shock absorbing systems for forks and to reduce jolting when deploying the mast.
- LED display
- Different types of cab and a wide range of options available.



Hydraulic levers as standard

- |                                     |   |   |   |
|-------------------------------------|---|---|---|
| Parking brake                       | 1 | 4 | FNR (forward/neutral/reverse) operating lever |
| Control switches (headlights, etc.) | 2 | 5 | Finger tip controls (as option)               |
| Display                             | 3 |   | (extending/retracting, tilting mast)          |
|                                     |   | 6 | Emergency stop mechanism                      |





## For all your applications!

Whether loading/unloading a lorry, placing goods in storage, feeding the production line, etc., our ME trucks will simplify your material handling tasks.

## Versatile machines

Manitou electric trucks are machines that fulfill all your needs, thanks to the numerous options and attachments that you can adapt according to your application.



**3 WHEELS  
24 VOLTS**

Public authorities,  
hospitals, small shops and  
warehouses, distribution centres,  
various industries, etc.

Average annual commitment:  
500 to 800 hours







**3 WHEELS**  
**48 VOLTS**

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Logistics platforms,  
shops and warehouses,  
distribution centres,  
various industries, etc.

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Average annual commitment:  
800 to 1500 hours

**4 WHEELS  
48 VOLTS**

Logistics platforms,  
the agri-food sector,  
loading/unloading lorries,  
distribution centres,  
various industries, etc.

Average annual commitment:  
800 to 1500 hours





**4 WHEELS  
80 VOLTS**

Car industry,  
logistics platforms,  
material manufacturing, paper mills,  
various industries, etc.

Average annual commitment:  
1000 to 2500 hours

# Options and attachments selection

## Cabin

From the overhead guard to the enclosed cabin, ME machines are tailored to your working conditions to ensure your working comfort.

- Overhead guard only
- Roof protection
- Front screen
- Front and rear screens
- Complete cab
- Cold environment protection
- Salt water environment protection



## Mini-levers

Integrated into the armrest of your seat, allowing you to activate all the functions of your truck using your fingertips:

- Raising / lowering of mast.
- Tilting the mast.
- Lateral movement of the forks carriage.
- Last lever controls the fourth hydraulic line for the use of your attachment.

*This option is available on all ME models, except the ME 315c.*

## Lateral battery removal

Battery extraction system with or without protective side cover.

*Available as standard or as an option on all ME models, except for ME 440, 445 and 450.*



## Tyres

ME trucks are fitted as standard with **super-elastic tyres (SE)** to avoid punctures and ensure an optimum service life.

You have the option of choosing from several brands or other types of tyres:

- **Pneumatic tyres** for enhanced drivability (except on three-wheel models).
- **Super-elastic non-marking tyres** for use inside to protect floors.

## Attachments

Various attachments are available to meet your different application needs:

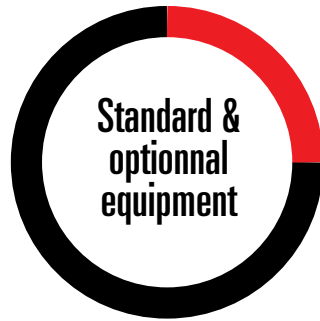
- integrated or hooked-on sideshift
- integrated or hooked-on positionner



Sideshift



Fork-positionner



		ME 3R 24V	ME 3R 48V	ME 4R 48V	ME 4R 80V
<b>MASTS</b>	Duplex Total Visibility Mast	S	S	S	S
	Free Lift Duplex Mast	0	0	0	0
	Triplex Free Lift Mast	0	0	0	0
<b>ATTACHMENTS</b>	integrated sideshift	0	0	0	0
	Hooked-on sideshift	0	0	0	0
	Fork positionner	0	0	0	0
<b>HYDRAULICS KITS AND DISTRIBUTORS</b>	Hydraulic kit 2nd element double acting	S	S	S	S
	Hydraulic kit 3rd element double acting	0	0	0	0
	Hydraulic kit 4th element double acting	0	0	0	0
	Distributor 1 double acting + 1 single acting	S	S	S	S
	Distributor 2 double acting + 1 single acting	0	0	0	0
	Distributor 3 double acting + 1 single acting	0	0	0	0
<b>CABIN / COMFORT</b>	FOPS operator guard	S	S	S	S
	Front panel, roof protector and windscreen wipers	0	0	0	0
	Protective roof	0	0	0	0
	Open cab	0	0	0	0
	Enclosed cab		0	0	0
	MSG 65 seat	S	S	S	S
	Mini-levers		0	0	0
	Grip handle for access to the driver's cab	S	S	S	S
	Non-slip step	S	S	S	S
	Storage	S	S	S	S
	Document holder	S	S	S	S
	A4 clipboard holder	0	0	0	0
	12 V connector	0	0	0	0
	Pre-equipped for cold environment	0	0	0	0
	Adjustable steering column	S	S	S	S
Adjustable seat	S	S	S	S	

Specifications can vary depending on regulations existing in the country of use or by the addition of optional equipments.  
Manitou looks for and develops constantly new products and reserves the right to proceed to any modification without advance notice.

		ME 3R 24V	ME 3R 48V	ME 4R 48V	ME 4R 80V
<b>LIGHTS</b>	LED indicator lights (AV/AR)	S	S	S	S
	Front work lamps 1 rear LED light	S	S	S	S
	Flashing LED light	S	S	S	S
<b>SAFETY</b>	Safety belt	S	S	S	S
	Drum brake	S		S	S*
	Oil-immersed disc brake		S		S
	Electric engine brake	S	S	S	S
	Hydraulic braking system	S	S	S	S
	Horn on rear handle	S	S	S	S**
	Emergency stop button	S	S	S	S
	Battery isolator switch	S	S	S	S
	Reversing warning buzzer	S	S	S	S
	Internal rear-view mirror	S	S	S	S
	Operator presence in seat detector	S	S	S	S
	Digicode	0	0	0	0
	Operator presence pedal	0	0	0	0
Exterior rear-view mirror	0	0	0	0	
Interior panoramic rear-view mirror	0	0	0	0	
<b>TYRES</b>	Pneumatic tyres			0	0
	Super-elastic tyres	S	S	S	S
	Super-elastic non-marking tyres	0	0	0	0
<b>BATTERY OPTIONS</b>	Kollmorgen controller	S	S	S	S
	Kollmorgen screen	S	S	S	S
	Without battery	0	0	0	0
	Central refuelling	0	0	0	0
	Lateral battery extraction	S	0	0	S**
Support truck for lateral battery extraction	0	0	0	0	

\* Only on ME440, 445 and 450 / \*\* Except on ME 440, 445 and 450.  
S = Standard; 0 = Option






**MANITOU**  
**HANDLING YOUR**





The image shows two red Manitou forklifts parked on a grey concrete floor in front of a large white corrugated metal wall. The wall features the word 'MANITOU' in large, bold, red letters, and below it, the words 'OUR WORLD' in smaller, bold, black letters. The forklifts are positioned in the lower-left corner of the frame. The overall scene is brightly lit, suggesting an outdoor or well-lit indoor setting.

**MANITOU**  
**OUR WORLD**



## **The model that's right for you!**

Choose from a wide range of forklifts with lifting capacities from 1.5 to 5 tons and lifting heights of 2.7 to 6.5 metres.

 3 wheels 24 volts



**ME 315C**

Capacity	kg (lbs)
Engine power	kW (HP)
Mini battery capacity	Ah
Load centre	mm (ft)
Carriage	
Max. lifting height	mm (ft)
Aisle width	mm (ft)
Length w/o forks	mm (ft)

1500 (3300)
8,6 (11,5)
840
500 (1'64)
FEM 2A
6500 (21'32)
3183 (10'44)
1835 (6'02)

 3 wheels 48 volts

**ME 315**

1500 (3300)
8,6 (11,5)
460
500 (1'64)
FEM 2A
6500 (21'32)
3134 (10'28)
1790 (5'87)



**ME 316**

1600 (3520)
8,6 (11,5)
575
500 (1'64)
FEM 2A
6500 (21'32)
3237 (10'62)
1898 (6'23)

**ME 318**

1800 (3960)
8,6 (11,5)
575
500 (1'64)
FEM 2A
6500 (21'32)
3237 (10'62)
1898 (6'23)

**ME 320**

2000 (4400)
8,6 (11,5)
690
500 (1'64)
FEM 2A
6500 (21'32)
3342 (10'96)
2006 (6'58)



 **4 wheels 48 volts**



### **ME 418**

Capacity	kg (lbs)
Engine power	kW (HP)
Mini battery capacity	Ah
Load centre	mm (ft)
Carriage	
Max. lifting height	mm (ft)
Aisle width	mm (ft)
Length w/o forks	mm (ft)

1800 (3960)
8,6 (11,5)
465
500 (1'64)
FEM 2A
6500 (21'32)
3506 (11'50)
2098 (6'88)

### **ME 420**

2000 (4400)
8,6 (11,5)
700
500 (1'64)
FEM 2A
6500 (21'32)
3745 (12'28)
2342 (7'68)

### **ME 425C**

2500 (5500)
8,6 (11,5)
700
500 (1'64)
FEM 2A
6500 (21'32)
3745 (12'28)
2342 (7'68)



 4 wheels 80 volts



### **ME 425**

Capacity	kg (lbs)
Engine power	kW (HP)
Mini battery capacity	Ah
Load centre	mm (ft)
Carriage	
Max. lifting height	mm (ft)
Aisle width	mm (ft)
Length w/o forks	mm (ft)

2500 (5500)
25,4 (34,06)
700
500 (1'64)
FEM 2A
6000 (19'68)
4035 (13'23)
2490 (8'17)

### **ME 430**

3000 (6600)
25,4 (34,06)
700
500 (1'64)
FEM 3A
6000 (19'68)
4040 (13'25)
2495 (8'18)

### **ME 435**

3500 (7700)
25,4 (34,06)
700
500 (1'64)
FEM 3A
6000 (19'68)
4050 (13'28)
2500 (8'20)

## **ME 440**

4000 (8800)
25,4 (34,06)
700
500 (1'64)
FEM 3A
6000 (19'68)
4470 (14'66)
3015 (9'89)

## **ME 445**

4500 (9900)
25,4 (34,06)
700
500 (1'64)
FEM 3A
6000 (19'68)
4470 (14'66)
3015 (9'89)

## **ME 450**

5000 (11000)
25,4 (34,06)
700
500 (1'64)
FEM 3A
6000 (19'68)
4470 (14'66)
3015 (9'89)



A close-up photograph of a red Manitou vehicle. The word "MANITOU" is printed in large, white, bold, sans-serif capital letters on a curved red surface. The background is slightly blurred, showing parts of the vehicle's structure and what appears to be a person's arm in a dark jacket.

**MANITOU**





## **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.

## TCO, what's that?

As part of our REDUCE programme, the TCO (Total Cost of Ownership) is an important factor for our customers.

The TCO is the total cost of ownership of an asset, more commonly known as the user cost. This indicator considers both fixed costs such as acquisition, interest, rent, residual value, etc., and variable costs linked to the use of your machine, such as such as maintenance, user training, etc.



Calculate your TCO on [tco.manitou.com](http://tco.manitou.com)



- **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

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



This brochure describes versions and configuration options for Manitou products which may be fitted with different equipment. The equipment described in this brochure may be standard, optional or not available depending on version. Manitou reserves the right to change the specifications shown and described at any time and without prior warning. The manufacturer is not liable for the specifications given. For more information, contact your Manitou dealer. Non-contractual document. Product descriptions may differ from actual products. List of specifications is not comprehensive. The logos and visual identity of the company are the property of Manitou and may not be used without authorisation. All rights reserved. The photos and diagrams contained in this brochure are provided for information only.  
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