



M & MC RANGES
Rough-terrain forklifts

Handling your world

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

The Group's product ranges include: rough-terrain fixed, rotating and heavy-load telehandlers; articulated loaders, rough-terrain, semi-industrial and industrial masted forklift trucks; wheel or track skid-steer loaders; backhoe loaders; aerial work platforms; truck-mounted forklifts; warehousing equipment; and attachments.

Through its iconic brands – Manitou, Gehl and Mustang by Manitou – and its worldwide network of 1,500 dealers, the Group offers the best solutions to create optimum value for its customers.

With its registered office in France, the group recorded revenue of 1.9 billion euros in 140 countries and employs 4,400 people, all committed to delivering customer satisfaction.



1958

Marcel Braud conceives the idea of the Manitou truck.

1972

The Group enters foreign markets.
Sales partnership agreement signed with Toyota for exclusive distribution of Toyota industrial forklift trucks in France.

1981

Launch of first Manitou telehandler.

1993

Manitou floated on stock exchange.

1993

First MRT rotating telehandlers are sold.

1995

Launch of first range of aerial work platforms.

1996

ISO 9001 certification obtained.

1998

Marcel Braud becomes Chairman of the Supervisory Board.

2007

Manitou opens an international logistics centre spanning 22,000 m².

3 brands
distributed by
1,500 dealers
in 140 countries



- 27 companies
- 11 production facilities
- 4,400 employees worldwide
- 80% of revenue comes from foreign markets
- Revenue of 1.9 billion euros in 2018

2008

Takeover of the American company Gehl.

2009

Change of management and a return to a Board of Directors.

2010

Launch of Gehl and Mustang articulated loaders.

2012

Crossover agreement signed with Yanmar for the manufacture and distribution of mini-excavators.

2013

Consolidation of Yanmar partnership as Yanmar becomes a Group shareholder, with 6.26% of the capital.

2014

January: Michel Denis appointed President and CEO.
April: A new roadmap is drawn up focusing on the three divisions, including one for services.

2015

Manitou celebrates the sale of its 500,000th machine worldwide.



2016

Launch of the new MLT range, NewAg.



2017

Inauguration of the new entity, Manitou Equipment India, specialising in compact loaders and backhoe loaders.

PRESENTATION

The first forklifts to carry the Manitou name, today they are renowned for their robustness and performance, even in the most extreme conditions. The M and MC trucks go where no others can!

Combining simplicity and gradability, power and manoeuvrability, these machines allow you to carry out your work efficiently and safely on all types of surface.

Any type of load, any type of terrain!



2/4

wheel drive

Hydrostatic
transmission

Capacities of

1.8 to 3
tons

MC
Compact

Rough-terrain handling, part of Manitou's DNA!

The M and MC ranges are ideally suited to rough-terrain applications. The masts, the engine powers and the robustness of the chassis and components are designed for extreme operating conditions.



2/4
wheel drive

**Hydrostatic
or torque
converter
transmission**

Capacities of
2.6 to 7
tonnes

M
Extreme applications

COMMON FEATURES THEIR GRADABILITY

A unique rough-terrain design

The MC and M trucks share the same rough-terrain design values:

- An important **ground clearance** of 30 cm for the MC range and up to 43 cm for the M range.
- An **oscillating rear axle** with a high degree of articulation.
- Mast designed for rough terrain **fixed** directly to the chassis to avoid mast torsion.

All these factors ensure that the MC and M rough-terrain forklift trucks offer you **exceptional performance while ensuring an optimal machine service life.**





An important choice, tyres

The M and MC trucks have various types of tyres:

- Rough-terrain: ideal for working on uneven, degraded surfaces.
- Mixed: suitable for moving from a stable surface to a rough-terrain surface (and vice versa).
- Low pressure to reduce the impact on your grassy / sandy ground

Two-wheel drive machines are fitted as standard with mixed tyres on the rear, with tyres more suited to rough-terrain on four-wheel drive machines.

The wide range of tyres offered by Manitou allows users to find the best compromise between compactness and motricity, depending on their applications.

An MC truck can go from a width of 1450 mm to 1600 mm with the biggest set of tyres. This reduces marking by the machine and gives greater stability. However, a standard set of tyres allows the compactness of the equipment to be preserved.

The M trucks can be fitted with tyres of up to 24 inches, allowing ground clearance to be increased even more for the most extreme applications.

Users should pay particular attention to the choice of tyres, as this item represents a significant expenditure as part of the total cost of ownership (TCO). Good tyres that are suited to your application will reduce the number of tyre changes and therefore help to optimise the TCO.

Ask your dealer for advice.



COMMON FEATURES THEIR PERFORMANCE

Transmission

These two ranges of rough-terrain forklifts offer the functionality to switch from four- to two-wheel drive.

This allows the operator to reduce fuel consumption by up to 12%, increase travelling speed and minimise wear and tear on the rear tyres.

Two types of transmission are available:

Torque converter (only on the M range)

Torque converter transmission allows the operator to choose between travelling speed on stable ground or engine torque for better motricity on steep slopes (four-speed gearbox).

Hydrostatic transmission *(for the M range, only on two-wheel drive machines.)*

Recommended for applications requiring:

- regulated working power,
- constant speed control,
- precision in driving and approach,
- repetitive braking: the automatic braking on release of the pedal improves driving comfort for the operator.





Tough enough for any challenge

Exceptional gradability

Equipped with large diameter front wheels for good weight distribution on the axles and the central differential locking system, the machines in this range offer very good performance. The M and MC trucks are available in two- and four-wheel drive (except for the M70, which is available only in two-wheel drive).

Lifting height of mast up to 7 m

Its width ensures better stability of the truck for greater safety when handling long or bulky loads.

Mast tilting up to 15° on the M machines and 12° on the MC range.

Turning radius from 3.40 m on the M range two-wheel drive trucks.

The MC machine, with a turning radius from 2.58 m, can meet the challenges of narrow storage areas and construction sites.

COMMON FEATURES THEIR MASTS

To meet your height requirements, the M and MC ranges offer a number of mast options:

Full Visibility Duplex (FVD)

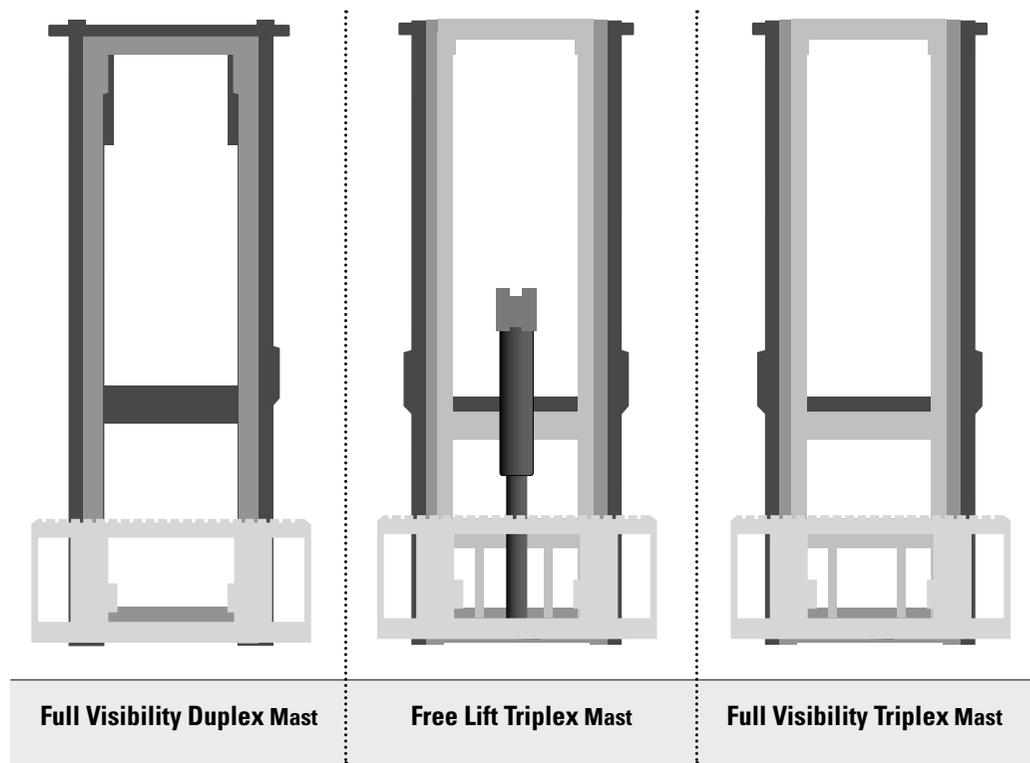
Two mast components with low free lift. The mobile component is activated when the operator uses the hydraulic lever.

Free Lift Triplex (FLT)

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

Full Visibility Triplex (FVT)

Three mast components without free lift. The mobile component is activated when the operator uses the hydraulic lever, allowing for both low height and good front visibility.





SAFETY

Visibility & safety

Visibility is an essential element in the safety of drivers and their environment, and this key element is factored in at the design stage.

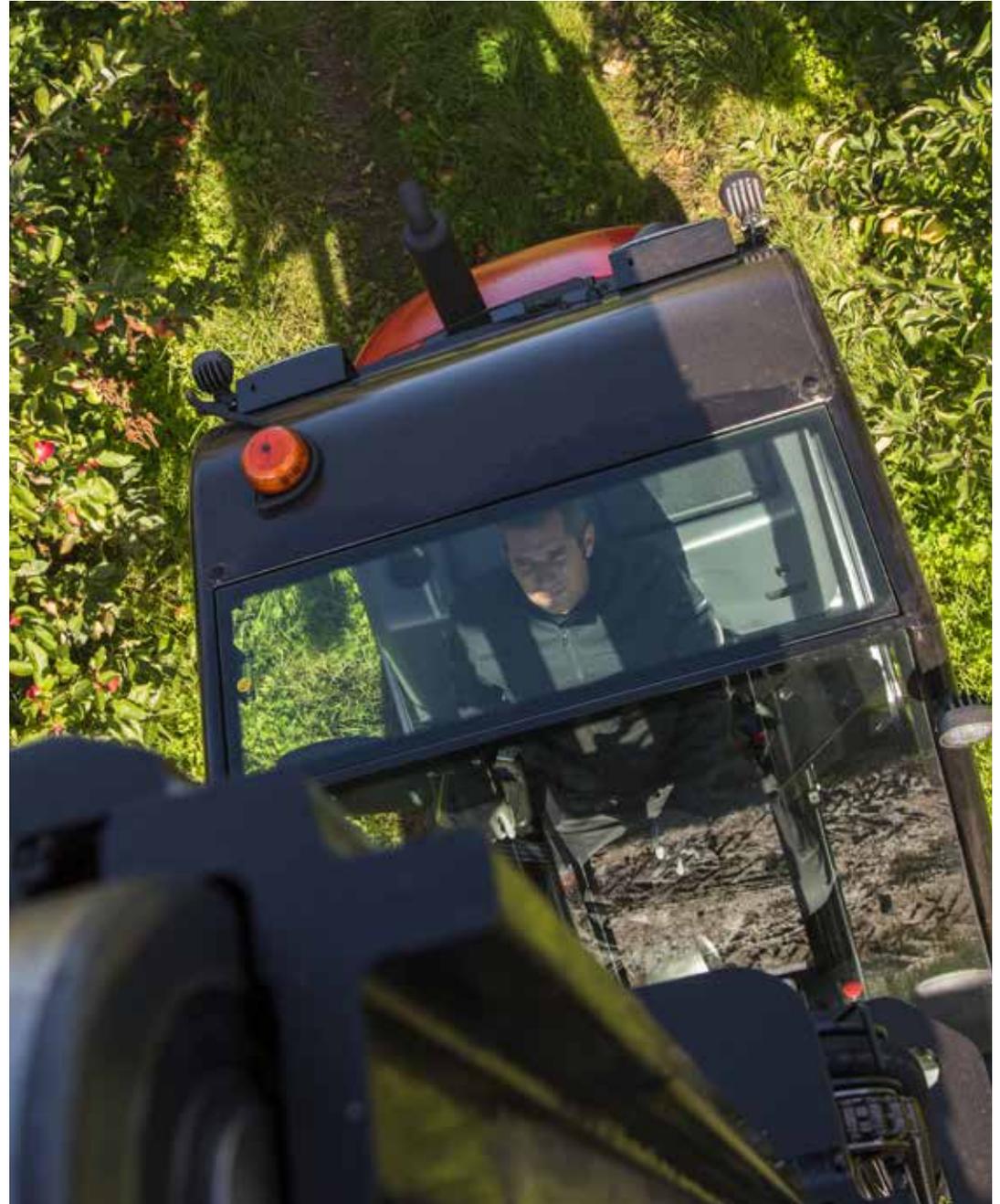
Mast: optimised hose routing for better vision between the uprights.

Panoramic interior rear-view mirror (as standard).

Curved counterweight for improved rear visibility.

Panoramic **cabin roof** (MC) and 360° cabin (M).

Shock absorber for load is standard to enable the load to remain stable regardless of the ground conditions you are working on.





Machines that are easy to use and maintain

Reducing machine downtime is a key factor in reducing costs, and the M and MC ranges meet this requirement with their ease of maintenance.

- Simplicity of design (a limited number of electronic parts) helps keep maintenance costs down.
- Easy access to components under the engine hood.
- The main electronic components are positioned in sealed casings protected from dust and moisture.



Open bonnet MC range

COMFORT

Easy access

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

The driver's cab is easily accessible, thanks to: the **handle attached** to the upper left-hand post of the overhead guard, **non-slip steps** on both sides, **open space** at floor level.





Comfortable working environment

The spacious and comfortable driver's cab offers the operator a remarkable driving experience, making work less tiring and improving productivity.

- **Spacious cab with a panoramic view**

Full vision cab with doors (optional), which can be locked automatically in the open position.

Suspended cabin, reducing vibrations for the operator.

Efficient heating and ventilation as standard on M range, air conditioning (optional).

- **Ergonomic levers**

The user benefits from being ideally positioned to use the controls, which are naturally located within easy reach.

The JSM* is optionally available on the MC range, putting all handling controls in the palm of your hand.

- **Control switches**

*Joystick Switch and Move

For all your applications!

The M and MC ranges are ideally suited to rough-terrain applications. The tyres, engine powers and robustness of the machines are designed for intensive use.



Attachments

Various attachments are available to meet your different application needs.



Advice

These attachments require three or four hydraulic movements, so allow for levers and distributors fitted up to the attachment mounting system when placing your order



Side-shift



Fork positioner



Bucket



Tilting carriage (on MC only)

Versatile machines

Manitou rough-terrain trucks are machines that fulfil all your needs, thanks to the numerous options and attachments that you can adapt to your application.





MC
Arboriculture, Nurseries,
Market Gardening, Orchards,
Basement Construction, Loading/
Unloading of Lorries and Containers,
the Events industry,
Masonry, etc.
Even on degraded soil





		M	M-X	MC
MASTS	Full Visibility Duplex Mast (FVD)	S	S	S
	Free Lift Triplex Mast (FLT)	0	0	0
	Full Visibility Triplex Mast (FVT)	0	0	0
ATTACHMENTS	Hooked on sideshift carriage	0	0	0
	Load backrest	0	0	0
	Fork positioner	0	0	0
	Tilting carriage	-	-	0
HYDRAULICS KITS AND DISTRIBUTORS	Quick hydraulic couplers	0	0	0
	Levers 2 hydraulic functions	-	-	S
	Levers 3 hydraulic functions	S	S	0
	Levers 4 hydraulic functions	0	0	0
	Levers 5 hydraulic functions	-	-	0
	JSM 3 hydraulic functions	-	-	0
	JSM 4 hydraulic functions	-	-	0
	JSM 5 hydraulic functions	-	-	0
CAB/COMFORT	Tuner / USB / Bluetooth radio	0	0	0
	Panoramic roof	-	-	S
	Overhead guard without front & rear glass panel	-	-	S
	Buggy (low height) overhead guard without front & rear glass panel	-	-	0
	Complete cabin	S	0	0
	Buggy (low height) complete cab	-	-	0
	Open cab	0	S	0
	Buggy (low height) open cab	-	-	0
	Sliding window on left- and right-hand doors	0	0	-
	Heating	S	S	0
	Air conditioning	0	0	0
	Adjustable steering column	0	0	S
	Front and rear windscreen wiper & front windscreen washer	S	S	0
	Windscreen wiper on roof window	0	0	-
	Sun visor on glass roof	0	0	0
	Windscreen sunvisor	0	0	-
	Document holder	0	0	0
	Skai mechanical suspension seat	S	S	S
	Skai pneumatic suspension seat	-	-	0
	Fabric mechanical suspension seat	0	0	0
Pneumatic cloth suspension seat	0	0	0	

		M	M-X	MC
LIGHTS	Complete road lighting (front and rear)	S	S	0
	Rotating beacon light	0	0	0
	Front/rear right and left working lights (x2)	0	0	0
SAFETY	Safety belt	S	S	S
	Self-cleaning pre-filter	0	0	0
	Cyclonic pre-filter	0	0	0
	Air inlet rain cap	S	S	S
	Balancing valve on tilting cylinder	0	0	0
	Engine preheat	-	-	0
	Battery cut off	S	S	S
	Audio warning in reverse	0	0	0
	Fuel tank tacting cap	-	-	0
	Emergency stop button	-	-	S
	Outside right rear-view mirror	0	0	0
	Internal rear-view mirror	0	0	0
Outside left rear-view mirror	-	-	0	
PRODUCTIVITY	4/2 wheel drive switch control	S	S	S
	Shock absorber	S	S	0
	Differential lock	S	S	S
	Hydraulic inching function	-	-	S
	Lifting acceleration	-	-	0
TYRES	Spare wheel ⁽¹⁾	0	0	0
	Tyre foam inflation ⁽¹⁾	0	0	0
	Anti-perforation fluid ⁽¹⁾	0	0	0
MISCELLANEOUS	Front fender flares extensions (metal)	0	0	0
	Rear fender flares extensions (metal)	0	0	0
	Front flaps (rubber)	-	-	0
	Rear flaps (rubber)	-	-	0
	Special colour paint ⁽¹⁾	0	0	0
	Cool environment fuel	0	0	0

(1) Special case.

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 that's right for you!

Choose from a wide range of forklifts with capacities from 1.8 to 7 tonnes and lifting heights of up to 7 m. You also benefit from a wide range of tyres and masts.





All-terrain



MC 18

Capacity	kg (lbs)
Engine power	kW (HP)
Max. lifting height	m (ft)
Load centre of gravity	mm (ft)
Carriage class	
Dimensions from (L x W x H)	m (ft)
Aisle width from	m (ft)
Turning radius	m (ft)

1800 (3960)
26.5 (35.5)
5.5 (18'04")
500
FEM 2A
2.95 x 1.45 x 1.99 (9'7" x 4'7" x 6'6")
4.55 (14'11")
2.58 (8'4")

MC 25

2500 (5512)
36.5 (48)
7 (23')
500
FEM 2A
3.05 x 1.45 x 1.99 (10' x 4'09" x 6'06")
4.59 (15'01")
2,62 (8'07")

MC 30

3000 (6614)
36.5 (48)
7 (23')
500
FEM 3A
3.09 x 1.45 x 1.99 (10'01" x 4'09" x 6'6")
4.62 (15'02")
2,65 (8'08")



Rough-terrain



M 26

Capacity	kg (lbs)
Engine power Standard Version X	kW (HP)
Max. lifting height	m (ft)
Load centre of gravity	mm (ft)
Dimensions from (L x W x H)	m (ft)
Aisle width from	m (ft)
Turning radius from	m (ft)

2600 (5720)
55.5 (74.4) -
7.0 (23'0")
500 (1'64")
3.49 x 1.9 x 2.73 (11'4 x 6'2 x 8'9)
5.2 (17'01")
3.22 (10'07")



M 30

3000 (6600)
55.5 (74.4) 70 (93.9)
7.0 (23'0")
500 (1'64")
3.49 x 1.9 x 2.73 (11'4 x 6'2 x 8'9)
5.2 (17'01")
3.22 (10'07")



M 40

4000 (8800)
55.5 (74.4) -
6.0 (19'7")
500 (1'64")
3.64 x 2.06 x 2.44 (11'9 x 6'8 x 8'0)
5.56 (18'03")
3.30 (10'08")



M 50

5000 (11000)
55.5 (74.4) 70 (93.9)
6.0 (19'7")
600 (1'97)
3.76 x 2.06 x 2.86 (12'3 x 6'8 x 9'4)
5.64 (18'06")
3.40 (11'02)



M 70

7000 (15400)
55.5 (74.4) 70 (93.9)
4.5 (14'8)
600 (1'97)
4.21 x 2.16 x 3.36 (13'8 x 7'1 x 11'0)
6.7 (22')
4.2 (13'08)





zone



Manitou is here to help!

To enable you to benefit from an operational forklift all year long, Manitou offers a wide range of products and services that are suited to all your needs. Find out more from your dealer.



Daily expertise and service

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.



1,500 dealers at your service

The Manitou network is present in more than 140 countries. In total, there are more than 8.000 expert technicians who are specially trained in Manitou technology and who are at your service to assist with purchasing or after-sales.



- Dealership network**
A network of experts at your service, whatever your field (agriculture, construction, industry).
- Maintenance contracts**
Three levels of contract that are tailored to your needs: Initial, Advanced and Excellence. Entrust the maintenance of your equipment to your dealer.
- Financing**
Hire or purchase? Whatever your business, simplify your investment with Manitou Finance financing or leasing solutions.
- Warranty extension**
With Maniplus, you can extend the cover of your Manitou for up to five years.
Use your equipment with peace of mind.
- The connected solution**
Easy MANAGER is a simple and flexible tool for managing, optimising and securing the operational monitoring of your machines.
- Second-hand products**
In the market for second-hand equipment? The Manitou network is here to help. Just visit your dealer or used.manitou.com, our reference site for second-hand Manitou machines.
- Original spare parts**
With more than 70,000 products available, your Manitou dealer offers daily expertise and service!

REDUCE

The Manitou Group's vision

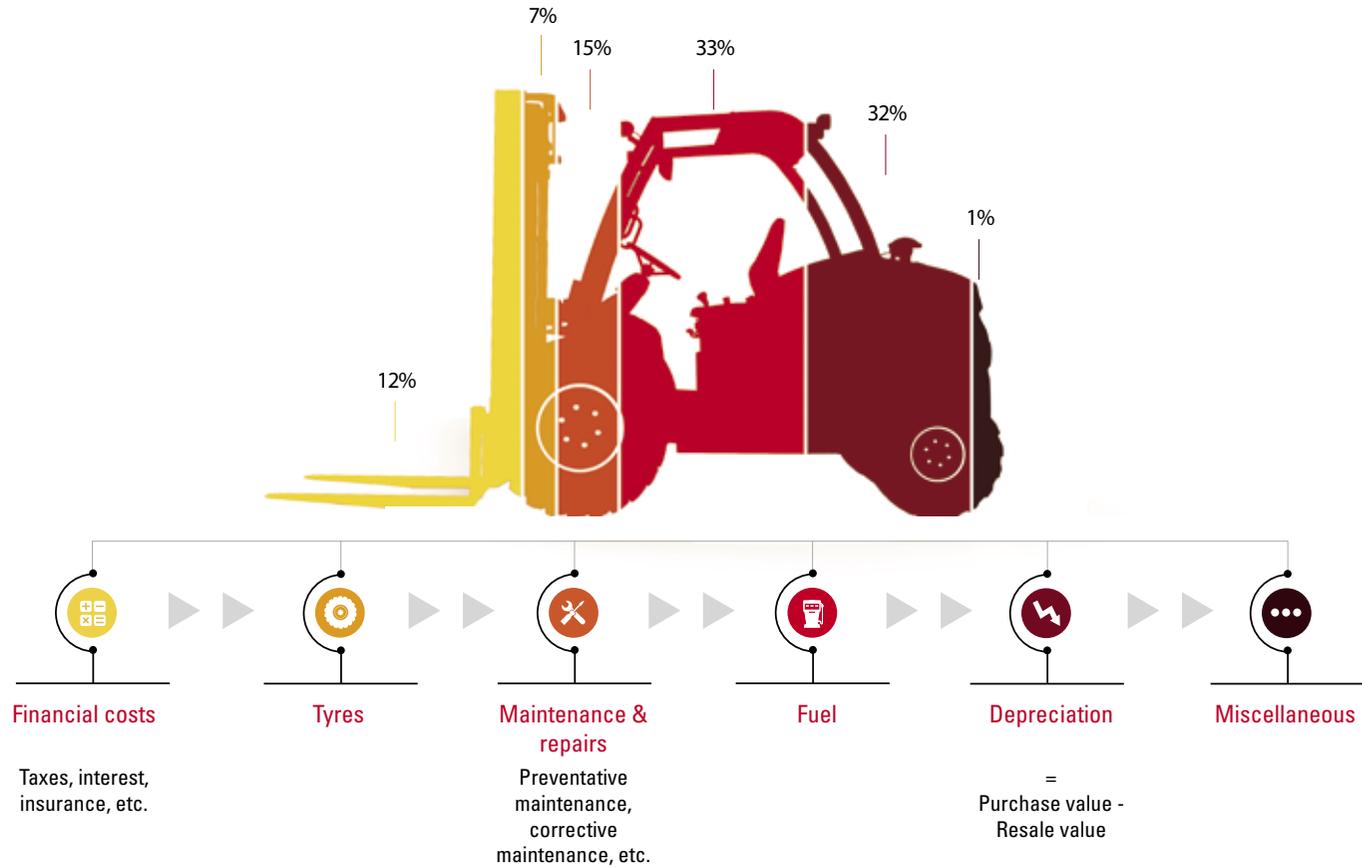
The REDUCE approach aims to improve our machine users' quality of life at work, whilst enhancing productivity and protecting the environment. This means transparency regarding fuel consumption data, reducing emissions, raising awareness of total cost of ownership (TCO), and putting a greater emphasis on the health and safety of operators.

Do you know the real cost of ownership of your equipment?

REDUCE TCO (Total Cost of Ownership) gives you a detailed breakdown of costs for your machine and helps you to optimise the profitability of your production tool.



Calculate your TCO on tco.manitou.com



What does TCO stand for?

The TCO is the total cost of ownership of an asset, more commonly known as the user cost. This indicator takes into consideration fixed costs (such as acquisition, interest, rent and residual value) and also variable costs linked to the use of your machine (such as maintenance and operator training).



Do you know how much your machine consumes?

Unlike the automobile sector, the handling machine sector does not yet have a standard rating system. We have therefore created a clear internal protocol enabling us to compare our machines' fuel consumption measurements. In order to provide you with clear, reliable and transparent information, this data has been verified by a recognised organisation.

We indicate the fuel consumption of our machines for the two principal activities for which the machine was designed, as well as the associated CO² emissions.

Machine charts

Reduce application

25 simple tips

Eco-driver simulator

Eco-driving course

Our recommendations for use will guide you in reducing your fuel consumption and your carbon footprint.

We train our network and the operators of our equipment to reduce their fuel consumption with an eco-driving module.

Discover our online calculator, which enables you to personalise your cycle and estimate your consumption, CO² emissions and savings.

To raise awareness of fuel costs and CO² emissions, Manitou Group has created an eco-driving simulator.

REDUCE Fuel Eco-Program responsibly informs you on the fuel consumption and CO₂ emissions of our de MLT and MT machines, as well as our platforms.



Calculate your fuel consumption at reduce.manitou.com

Your dealer:



Head office

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

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

