



ER RANGE
Electric reach trucks

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.

1984

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.

ER

Electric reach truck

On your logistics site, the ER (Electric Reach truck) range will meet your specific needs for compactness, storage at great height, etc.



6

Models

Aisles from

2.6 m

11.5 m

Max. working
height

Moving
mast

Hydraulic
cylinders

Mast tilt
pivot point

Side-shift
carriage

Forks

Ergonomic
cabin
with tilting seat

48 V battery box
Easy access to
components

Stabilisation lug



Basic information about this machine

What is a reach truck?

For use in indoor spaces only, this truck is designed to optimise logistics flows in storage areas.

The mast's technology enables travel speed to be maximised and increases storage capacity at height.

The advantages

- Optimal visibility onto the forks through the mast and cabin.
- Saves space in terms of aisle width.
- Work at height with maximum stability, with a load centre of gravity of up to 600 mm even at 11.50 m and the capacity to withstand long duty cycles.



Optimum safety

All the equipment on your Manitou reach truck allows you to operate safely:

S3 pack - Stability Support System

This pack assists the operator and reduces risks when using the machine.

The system constantly measures and adjusts the hydraulic movements, moving speed and degree of steering of the machine.

When your truck is in curve, the machine's steering sensitivity is adjusted to ensure maximum stability.

S3-2 pack

This pack includes the standard S3 pack and in addition the weighing device, height indicator and adjustment of moving speed to the weight on the forks.

Active mast oscillation regulator

Reduction of mast oscillation movements. Reduces mast oscillation by 80%, increasing safety when carrying out handling operations at great height.



Lateral stabilisation lug

Ensures optimal stability of the machine no matter how high you are working in the second row.

Blue LED lamp

Alerts the surrounding working area to the machine's presence.

Noise

Movement damping and soft stop of mast elements.



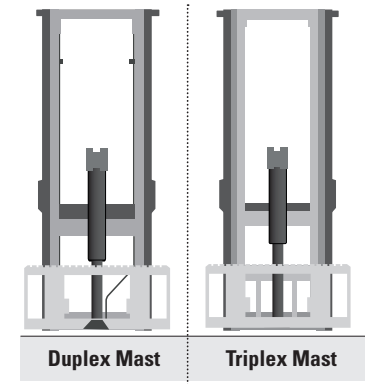
Masts and their options

2 masts available

- Full Visibility Duplex (FVD)
- Free Lift Triplex (FLT)

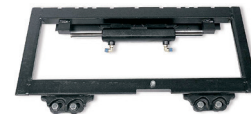
Various degrees of tilt

- $1^{\circ}/4^{\circ}$ on duplex masts
 - $1^{\circ}/3^{\circ}$ on triplex masts up to 6.75 m
 - $1^{\circ}/1^{\circ}$ on triplex masts from 6.75 m
 - Tilting carriage for triplex masts over 9.6 m (optional on other models).
- Secure the load on your forks!



Attachments

- Integrated sideshift carriage (standard)
- Fork positioner (optional)



Side-shift



Fork positioner



Ergonomic driving

A machine and an environment designed for all users.

An operator who is comfortably installed in his/her machine is a more productive operator, which is why Manitou offers you:

Seat

With the standard seat, you have the option of tilting back to increase your visibility through the roof and help you with your handling operations.

Visibility

Mast: hydraulic hoses integrated into the mast to give the best visibility on the market of the forks, the racks and the lifted load.

On-board computer

Comprehensive information on the performance and status of the machine.

Adjustable floor height

So the operator can adjust and optimise the driving position at the touch of a button.





Change the battery

It is important to select the right battery change mode in order to improve its efficiency and safety and eliminate the need for manual handling.

Vertical change (standard)

You can check your battery every day without leaving your seat. If you use the mast-in/out lever and push the lever on the floor on the right-hand side, your battery can be removed easily from its location.

Manual side change (optional)

Battery on roller bed.

This allows for rapid manual battery change for continuous operation of the truck.

This option also gives your machine greater durability and only a small amount of effort is required for battery change.

Motorised side change (optional)

This option of motorised support rollers allows the battery to be changed effortlessly in 60 seconds.

Low energy consumption, but please note that the external power supply system is not included.

The batteries for the ER machines range from 310 to 930 Ah depending on the model for correct use.

A wide range of battery technologies is available to equip the reach truck range to meet all your needs.



Exceptional performance

Designed and developed to optimise your logistics flows, the performance offered by the ER range is among the best on the market.

- Reduction of mast oscillation movements
As standard on masts over 7.2 m.

- Centre of gravity of load (600 mm)
Max. speed 14.5 kph
Max. lifting speed 0.8 m/sec

- Low noise level in cabin
The cabin is the quietest on the market, from 58 dB(A).



ER range

Transport,
Movement of Loads,
Storage,
Logistics.

Maintenance

- Interval 1000h
- Polyurethane drive wheel
- Hydraulic fluid: longer life (6% less energy)
- CAN Bus technology
- Modular design
- Reduced number of spare parts
- Easy access to components



ER 12

Capacity	kg
Battery power	Ah
Max. lifting height	mm
Centre of gravity	mm
Carriage class	
Dimensions (L x W x H)	mm
Aisle width from	mm
Turning radius	mm

1200
310 - 465
6750
600
2A
2413 x 1120 x 2440
2593
1598

ER 14

1,400
465 - 620
7250
600
2A
2410 x 1120 x 2440
2663
1598

ER 16

1600
465 - 775
7950
600
2A
2450 x 1270 x 2640
2629
1668

ER 16-HD

1600
600 - 775
10800
600
2A
2490 x 1270 x 2960
2734
1640

ER 20

2000
630 - 930
8950
600
2A
2460 x 1270 x 2640
2709
1750

ER 20-HD

2000
620 - 930
11500
600
2A
2490 x 1397 x 2960
2734
1750



		ER 12	ER 14	ER 16	ER 16 HD	ER 20	ER 20 HD
MASTS	Full Visibility Duplex mast	S	S				
	Free Lift Triplex mast	0	0	S	S	S	S
ATTACHMENTS	Integrated sideshift carriage	S*	S*	S	S	S	S
	Hooked-on sideshift	0	0				
	Fork positioner	0	0	0	0	0	0
DRIVER'S CAB / COMFORT	180° steering	S	S	S	S	S	S
	Adjustable steering wheel	S	S	S	S	S	S
	Mini-levers	S	S	S	S	S	S
	ATC3 on-board computer (wheel + battery charge indicator)	S	S	S	S	S	S
	Low backrest fabric seat	S	S				
	High backrest fabric seat (tilting)			S	S	S	S
	Heated cabin	-	-	0	0	0	0
	Heated cabin for stockpiling work	-	0	-	-	-	-
	Foot-operated FNR	S	S	S	S	S	S
	Storage compartment (bottle and pens)	S	S	S	S	S	S
	Ergonomic armrest	S	S	S	S	S	S
	Adjustable floor height with driver's presence detector	-	-	S	S	S	S
	"Clean Sight" mast	S	S	S	S	S	S
	Keyless access	S	S	S	S	S	S
	Heated seat (low or high backrest)	0	0	0	0	0	0
	PVC seat (low or high backrest)	0	0	0	0	0	0
	Headrest	0	0	0	0	0	0
	Equipment bar (ø 35mm)	0	0	0	0	0	0
	Writing board support with equipment bar	0	0	0	0	0	0
	Equipment holder (various sizes)	0	0	0	0	0	0
	Battery discharge alarm	0	0	0	0	0	0
	Car radio CD MP3	0	0	0	0	0	0
	48V/12V converter	0	0	0	0	0	0
	Ignition key	0	0	0	0	0	0
BATTERY	Vertical change	S	S	S	S	S	S
	Side change (manual or motorised)	0	0	0	0	0	0
	Battery central filling system	0	0	0	0	0	0
	Electrolyte mixing	0	0	0	0	0	0
	Air pump for electrolyte mixing	0	0	0	0	0	0
	Choice of battery (lead, waterless or gel)	0	0	0	0	0	0

* If a triplex mast has been chosen.

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.

		ER 12	ER 14	ER 16	ER 16 HD	ER 20	ER 20 HD
PERFORMANCE	Pack S3 improved stability			S	S	S	S
	Automatic parking brake	S	S	S	S	S	S
	Lift cut-off (with/without restart)	0	0	0	0	0	0
	Lift height indicator	0	0	0	0	0	0
	Weighing device	0	0	0	0	0	0
	Pack S3-2	0	0	0	0	0	0
	Active Traction Control	0	0	0	0	0	0
	Traction speed 14.5 km/h			0	0	0	0
	Hand-operated FNR	0	0	0	0	0	0
	360° steering	0	0	0	0	0	0
	Camera on forks and colour screen	0	0	0	0	0	0
	Automatic sideshift central positioning			0	0	0	0
	Automatic horizontal fork positioning			0	0	0	0
	Level selector (standard / Intelligent)			0	0	0	0
	Active Mast Oscillation Regulation	S/O	S/O	S/O	S/O	S/O	S/O
LIGHTING / SAFETY	Greasing points on mast	S	S	S	S	S	S
	Automatic speed reduction at great height	S	S	S	S	S	S
	FOPS overhead guard	S	S	S	S	S	S
	Cold store specification	0	0	0	0	0	0
	Automatic log-off	0	0	0	0	0	0
	Maintenance schedule alarm	0	0	0	0	0	0
	Automatic speed reduction with lifted forks	0	0	0	0	0	0
	Shock sensor (several levels)	0	0	0	0	0	0
	Mesh metal grid on overhead guard	0	0	0	0	0	0
	Flashing beacon	0	0	0	0	0	0
	LED front working lights (x2)	0	0	0	0	0	0
	Blue or Red LED lamp	0	0	0	0	0	0
	Panoramic inner rear-view mirror	0	0	0	0	0	0
TYRES / CHASSIS	Vulkollan® load wheels (various ø)	S	S	S	S	S	S
	Vulkollan® drive wheel 93 shore	S	S	S	S	S	S
	Various arm/machine widths	S	S	S	S/O	S/O	S/O
	Drive wheel 93 shore (slippery ground) or 95 shore	0	0	0	0	0	0
	Brake on 280 mm load wheels				0	0	0
	Load wheels protective cover			0	0	0	0





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.



Everyday 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 expertise and service on a daily basis!

Your dealer:



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