

SEMI-INDUSTRIAL HANDLING SOLUTIONS

MSI 2 to 5 T series



MANITOU

MANITOU MSI

THE MULTIPLE- PERFORMANCE FORKLIFT TRUCKS

Over the years, many industrial companies have recognised **the exclusive advantages of MANITOU's MSI design**. Provided with **large diameter wheels in the front**, these **compact semi-industrial** forklift trucks excel over any type of ground, **both inside and outside**.

With their **abilities to clear obstacles along with their stability and manoeuvrability**, qualities which are incomparable for vehicles of their class, the MSI 2 to 5 tonne forklift trucks are very versatile: **handling long loads, entry and removal from storage, loading/unloading** (lorries, railway wagons, etc.), and are used in a wide variety of business sectors such as oyster culture, agri-foodstuffs and wood industry.

In 2011, MANITOU celebrated the **10000th model** sold and now offers you these new models, the "MSI Evolution and K Series". Discover the improvements made across the range and the generic advantages of these forklift trucks in the following pages.



**"I work
equally well
inside or out"**

CONTENTS

APPLICATIONS FOR A UNIQUE DESIGN.....	
VERSATILITY AND PERFORMANCE.....	
COMFORT AND SAFETY.....	
MAINTENANCE AND SERVICES.....	
OPTIONS.....	



TECHNICAL DATA SHEETS //

P. 4	MSI 20 T / 25 T / 30 T / 35 T	P. 14
P. 6	MSI 40 T / 50 T EVOLUTION	P. 15
P. 8		
P. 10		
P. 12		

APPLICATIONS FOR A UNIQUE DESIGN



Whatever your trade or business, MANITOU offers models fully adapted to your requirements. The high capacity, reliability and power of the MSI power units facilitates the handling of **raw materials, wood and other building materials**. The 2 and 2.5 T K Series are also available in Buggie version a **low profile machine**.



ENVIRONMENT //



MATERIALS //



WOOD //



AGRI-FOODSTUFFS //



TRANSPORT LOGISTICS //

VERSATILITY AND PERFORMANCE

Drive your forklift easily whatever the nature of the terrain. The design which incorporates **large front wheels** combined with the **hydrostatic transmission** gives MSI Evolution models excellent flexibility of use. With a capacity of 2 to 5 tonnes, the MSI is particularly manoeuvrable and flexible to use. Its stability and versatility makes it equally at ease in warehouses and storage areas.



EXCELLENT PRODUCTIVITY //

Through its powerful ability to clear obstacles, **you are able to make the most of the working area available.** Furthermore, **you save precious time** through the ergonomics of the driving position and the high degree of manoeuvrability of the truck. The power of the engine coupled with the hydrostatic transmission allows precise movement and provides you with better productivity.

VERSATILITY //

The MSI models can be easily adapted. If you need to, you can use a **tilting carriage** (optional equipment - see p.13) or a **skip**.



IN-LINE LEVERS //

Located near the driving seat, they **combine** the **raise/lower** and **mast tilt angle** (10°/12°)* functions. The new MSI has an **automatic mast raising acceleration system** which operates independently of the transmission operation.

*Only for duplex and triplex masts (lift < 5 m).





HIGH MANOEUVRABILITY //

Manoeuvre easily in **confined spaces**. The steering axle with built-in cylinder provides a **very tight turning circle**. This advantage, taken with the compactness of the truck, makes you ultra-mobile.



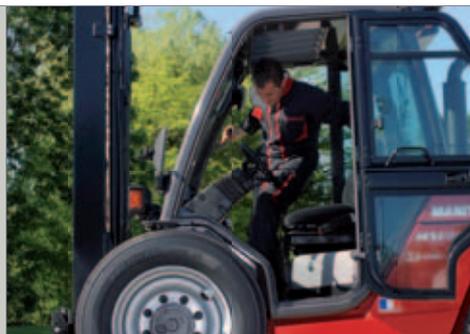
STURDINESS //

The one-piece chassis manufactured by MANITOU along with the key components have been designed to give **exceptional longevity**.

The masts have been **designed and fabricated by Manitou**. They have been specifically manufactured to withstand the rigours of the most arduous applications.

COMFORT AND SAFETY

Benefit from an impressive **interior space** and a **large glazed area**. You can work with the door open (folded back to the side to avoid discomfort) or closed.
The right-hand side window can be opened fully or only slightly.



DIRECT ACCESS //

Get in and out of the cab without any problem. MANITOU has designed **forklift trucks which are accessible from either side** without a running board. Only for the 2 to 3.5 T versions.



ERGONOMICS //

Gain working comfort with the MSI series. The driving position insulates the driver from vibrations (excellent shock-absorbers). The closed cab version (option) is fitted with an adjustable suspended seat, an adjustable steering column (MSI 40 T / 50 T) and fan-assisted heating.

Keep control of your loads while driving, even over uneven ground. The single joystick (MSI 40 T / 50 T) which is intuitive to use, enables all controls to be concentrated into one area: raise, lower, mast tilt and reversing shift.



VISIBILITY //

The MSI forklifts provide **optimum visibility of the forks and all round the truck**. The roof window offers the operator full visibility for improved field of vision when placing loads at height. A safety priority.

HIGH PRECISION //

Handle your loads as accurately as you would by hand. **The hydrostatic transmission provides pinpoint accuracy** in total safety. It also gives a very flexible drive, even over uneven ground. It also provides **double dynamic braking**.



STABILITY //

The stability of the MSI forklifts, optimised by the track width to wheelbase ratio, allows you to **handle long loads** or several pallets at a time in total safety, which is reinforced by the mast tilt angle (10-12°) combined with the very low load centre of the truck.



MAINTENANCE AND SERVICE

Relying on the **expertise of the technical support** in the MANITOU dealer network, the availability of our genuine spare parts and the flexibility of our **finance solutions**, MANITOU works alongside you **throughout the life of your machine**.



EASE OF MAINTENANCE //

The forklift trucks in the MSI range are fitted with a cab featuring an **electro-hydraulic lifting system**: the entire cab tilts forward effortlessly.

Exceptional access to the entire engine compartment facilitates maintenance operations, reduces the time taken for maintenance and repair work and consequently reduces the maintenance costs of the equipment.

MANITOU NEAR YOU //

With a network of **600 distribution points in more than 120 countries**, MANITOU puts being near to its customers at the forefront.

A POWERFUL AND EFFICIENT SPARE PARTS ORGANISATION //

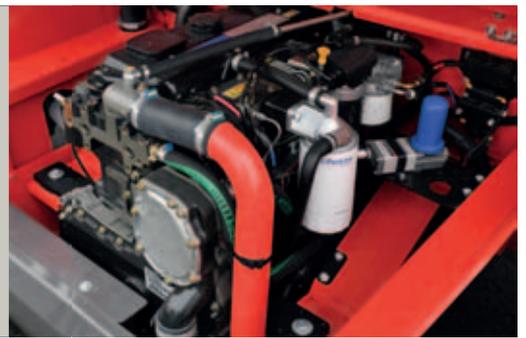
Thanks to our centralised European stock covering 22000 m², **all parts ordered the same day are delivered the next day**. The efficiency of our spare parts logistics centre is the best guarantor of the service level of your MSI, and therefore of its productivity.



MANITOU SERVICE //

- Genuine MANITOU spare parts.
- After-sales service on-site interventions.
- Made-to-measure maintenance contracts.
- Financial solutions suited to your requirements.





SPECIALIST TECHNICIANS AT YOUR SERVICE //

Our network has more than 2000 skilled technicians available to help you, who are regularly trained on MANITOU products. They are there to listen to you and ensure everything is to your satisfaction.



OPTIONAL EXTRAS

Increase your versatility thanks to the **optional equipment available** for fitting to MSI forklifts, tilting side-shift carriage and low pressure tyres.

TYRES //

Low pressure tyres **absorb shocks** caused by driving over kerbstones and potholes and provide **perfect adhesion** on slippery surfaces.

A wide choice of tyres enables you to optimise the performance of your MSI according to the ground conditions.



The design of the chassis **allows chains to be fitted** and provides **optimum traction** in extreme conditions.





TILTING CARRIAGE //

Unique solution available for the MSI 2 to 3.5 T fitted with a full visibility duplex mast (DVT), the tilting carriage allows the quick fitting of accessories without the need to alight from the cab (hydraulic locking option).

This provides **optimum working conditions and conditions of cleanliness** for the forklift truck operator.



Also available in a skip version.
The tilt angle of the carriage to 66° facilitates the filling and discharging of materials with great accuracy.



MSI 20 T / 25 T / 30 T / 35 T

MASTED FORKLIFT TRUCK



CAPACITY

	MSI 20T	MSI 25T	MSI 30T	MSI 35T
Capacity	2000 kg	2500 kg	3000 kg	3500 kg

LOAD CENTRE

Load centre	500 mm			
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TYRES

Front tyres	250/70 R 22,5 RHS			
Rear tyres	7.00x12 14 PR IC 40			

ENGINES

Engine	Kubota V2403-M-T-E3 (60/44 kW) Euro 3 A			
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LIFTING

Standard lifting height	3300 mm			
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DIMENSIONS

Height of protective roof	2105 mm			
Length up to front face of forks	2945 mm	2980 mm	3030 mm	
Overall Width	1323 mm			
Aisle width with 800 x 1,200 pallet	4525 mm	4525 mm	4560 mm	4595 mm
Turning circle	2600 mm	2600 mm	2635 mm	2665 mm

EQUIPMENT

- Carriage 1260 mm (FEM IIA or IIIA)
- Driver's overhead guard:
 - Tinted windscreen and rear window
 - Front and rear wiper
 - Front windscreen washer
 - Imitation leather seat
 - Seat belt
- Cab tilts under electro-hydraulic control
- Battery cut-off
- Driver's presence detector



MSI 40 T / 50 T EVOLUTION

MASTED FORKLIFT TRUCK



CAPACITY

MSI 40T

MSI 50T

Capacity

4000 kg

5000 kg

LOAD CENTRE

Load centre

500 mm

600 mm

TYRES

Front tyres

315/70 R22.5 154/150L RHS

Rear tyres

225/75 R15 XZM

ENGINES

Engine

PERKINS 1104D-44T (65/70 kW) Euro 3 A

LIFTING

Standard lifting height

3700 mm

DIMENSIONS

Height of protective roof

2440 mm

Length up to front face of forks

3294 mm

3384 mm

Overall Width

1732 mm

Aisle width with 800 x 1,200 pallet

4956 mm

5241 mm

Turning circle

2865 mm

2950 mm

EQUIPMENT

- Closed cab with tinted windows
- Cloth-covered seat
- Adjustable steering column
- Heating
- Rear/front wipers and front screen washer
- Right- and left-hand side door mirrors
- Rear road lighting
- Cross lever with built-in reversing shift
- Load shock absorber
- Electro-hydraulic cab lift
- Washer/wiper for rooflight
- Sun blind for rooflight
- Differential lock



Your nearest **MANITOU** dealer:



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