

Industrial
trucks

MI 60 H
MI 70 H

- Nominal capacity: 6,000 and 7,000 kg
- Hydrostatic transmission
- Enclosed cab as standard
- MANITOU joystick with inbuilt reverse control



 **MANITOU**

MI 60/MI 70 H : 5 promises

You can handle long, heavy or bulky loads in perfect safety

thanks to the stability of the 6 and 7-tonne MIs, **with single wheels**

You can reduce your cycle times

with the **MANITOU joystick** and its built-in reversing control

Your fork-lift drivers will be more alert

in intensive working, thanks to **the unmatched comfort of the enclosed cab.**



that make all the difference!

**You will increase
the cost-effectiveness**
of your fleet by taking advantage
**of the accuracy
and safety of hydrostatic
transmission.**

**Your logistics are
more efficient**
with this rugged,
smooth-lined truck,
that slips easily between
your storage bays.



MI 60/MI 70 H : a truck

As soon as the shift begins, the driver is **comfortably** installed in a spacious cab; and **quickly takes control** of the truck.

**The standard "JSM"
(Joystick Switch & Move)
to improve your cycle times!**

Perm
accessories 2 or 3

Accessory
functions 2/3
Accessory
functions 1
Reversing
control

Raise
forks

Tilt
mast
forwards

Tilt
mast
back

Lower
forks

**Unique MANITOU
patented design**

For high-level storage **the driver**
can watch his load through the
roof-light which gives total visibility,
and can **carry out his manoeuvres
in perfect safety.**



that's comfortable and safe



Located high and slightly off-centre, the driver is in the ideal working position:

- **Perfect view** of the forks at all lift heights
- **Easy handling** of JSM and steering wheel
- **Personalised adjustment** of the height and distance of the arm-rest and the joystick console



- **To reduce the risk of accidental moves** the MI truck is fitted with a seat **contact switch** as standard

COMFORT

MI 60/MI 70 H : more than

To cope with more and more intensive cycles, the driver needs optimum conditions of **STABILITY, SPEED and MANOEUVRABILITY**
MI 60/70 H trucks take up the challenge.

Storage and loading operations carried out in record time

with the automatic acceleration of the mast lift speed.

Goods-handling in the yard sometimes means **overcoming obstacles** (edging, ramps, rails, door thresholds, pieces of wood, etc.).



To help cope, the MI has a unique ground clearance of 260 mm.



a fork-lift, a production tool

For manipulating long, bulky or offset loads, **the specific design of the wide-track MI** together with its low centre of gravity **makes it absolutely stable in the single wheeled version.**

Dual wheels available as an option.



Ideal for tackling congested sites

or warehouse aisles, the MI offers a very tight turning circle.



MANOEUVRABILITY



MI 60/MI 70 H :

The MI uses reliable components – a rugged axle, enclosed chassis to protect all the mechanical components, and **a cab suspended on silent-blocs to insulate the driver from shocks and vibrations.**

To make **preventive maintenance** and daily upkeep easier, the cab lifts up **electro-hydraulically** to offer **full access to the mechanical parts and check points.**

Fast and easy servicing is an additional feature **to reduce down-time** of the truck and the associated costs.



designed to last...

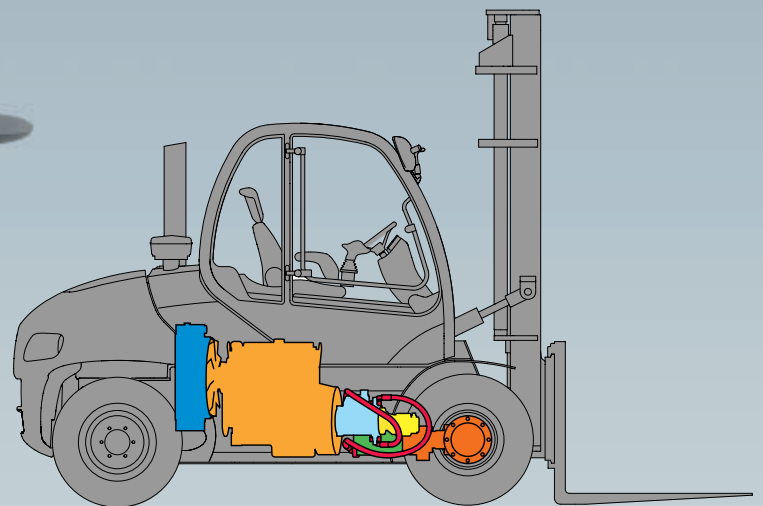









The engine and hydrostatic transmission assembly ensures lasting productivity.

- **Flexibility and precision in handling materials,**

thanks to the hydrostatic transmission. Braking is automatic when the accelerator pedal is released, ensuring controlled approach, millimetre by millimetre.

- **Speed and power for driving outdoors** with the **Perkins 1104 C44 Turbo** engine (101 hp - 74.5 kW). Travelling is up to 23 kph laden or unladen.



-  Radiator
-  Diesel engine
-  Hydrostatic pump
-  Hydraulic motor
-  Servo-pump
-  Axle
-  High pressure hose

RELIABILITY

Expect it to increase

Fitted with accessories like sideshift, double sideshift, triple sideshift, fork positioner or mono-multifork option, the MI is an effective solution to **increasing the efficiency of your fleet.**

Inside the MI's comfortable and ergonomically-designed cab, the driver is totally concentrated and able to **play his part in improving production cycles.**



Reduce your productivity

**Loading is accurate
and fast**

because the driver controls
all the JSM functions
with just one hand.

The speed and accuracy
of approach of the MI
**reduce
the waiting-time
of lorries.**



PRODUCTIVITY

Give it your

Handling containers, drums, tree-trunks or other bulky loads, is now easy, using an MI fitted with: wide carriage, long forks, clamps, etc.

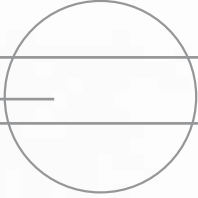


The design of carriage and mast has been strengthened to **support lateral and longitudinal stress** due to unstable or offset loads.

The operator can **manoeuvre safely** because he has perfect all-round vision including in reverse.



bulkiest loads



The MI can easily access the most unstable areas of the yard.



The sideways stability of the MI is an extra safety feature when driving outdoors, whether on hard or soft surfaces.

STABILITY

Give it your

In the warehouse,
perfect vision
all round the truck
and above it reduces
the risk of an accident.

The MI offers
a very short
turning radius for
manoeuvring quickly
in the aisles.



trickiest jobs

A black forklift is positioned on the left side of the frame, facing right. It is in a warehouse aisle filled with large, white, cylindrical rolls of material. The rolls are stacked in rows, creating a perspective that leads the eye into the distance. The ceiling has recessed lighting fixtures. The overall scene is brightly lit, with a clean, industrial aesthetic.

The accurate steering and flexibility of the MI **mean safe handling of fragile loads**

Tricky handling operations are mastered with the proportional JSM control

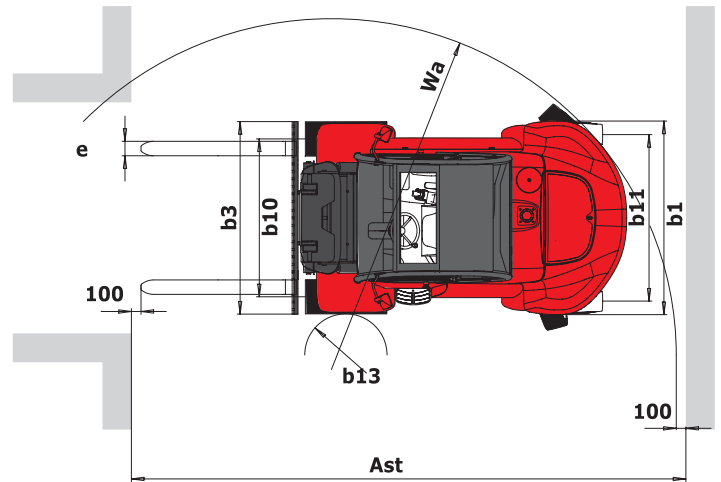
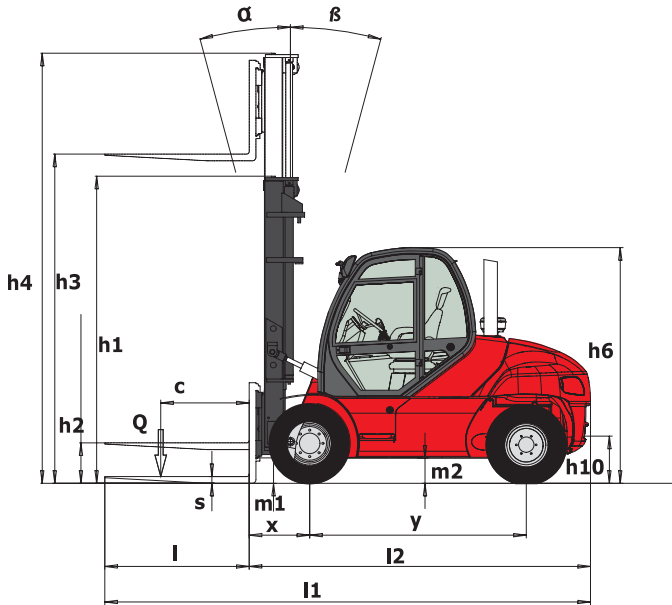
PRECISION

Description	1.1	Manufacturer		MANITOU	MANITOU
	1.2	Type of model		MI60H	MI70H
	1.3	Power source: battery, diesel, petrol, LPG, mains		Diesel	Diesel
	1.4	Driving position : manual, walking alongside, standing, seated		Seated	Seated
	1.5	Nominal load / Load on forks (basic capacity)	Q(t)	6	7
	1.6	Centre of gravity of the load	c (mm)	600	600
	1.8	Distance of the load from centre of front axle	x (mm)	628	628
	1.9	Wheelbase	y (mm)	2250	2250
	Weight	2.1	Kerb weight of truck	kg	9070
2.2		Front axle load laden	kg	13660	15090
2.2.1		Rear axle load laden	kg	1410	1660
2.3		Front axle load unladen	kg	4390	4270
2.3.1		Rear axle load unladen	kg	4680	5480
Running carriage	3.1	Tyre equipment: bandage(V), superelastic(SE), pneumatic(L), polyurethane(PE)		L	L
	3.2	Size of front wheels	" or mm	355/65 R15	355/65 R15
	3.3	Size of rear wheels	" or mm	8,25 R15	8,25 R15
	3.5	Number of front wheels (x = drive wheel)		2x	2x
	3.5.1	Number of rear wheels (x = drive wheel)		2	2
	3.6	Front wheel gauge (middle of wheels)	b10 (mm)	1640	1640
	3.7	Rear wheel gauge (middle of wheels)	b11 (mm)	1710	1710
Dimensions	4.1	Tilt of mast forwards	_ (°)	10	10
	4.1.1	Tilt of mast backwards	_ (°)	12	12
	4.2	Height mast lowered	h1 (mm)	3391	3391
	4.3	Normal free lift	h2 (mm)	-	-
	4.4	Height of lift	h3 (mm)	4070	4070
	4.5	Height mast extended	h4 (mm)	5391	5391
	4.7	Height of driver protection (cab)	h6 (mm)	2449	2449
	4.8	Height of seat	h7 (mm)	1398	1398
	4.12	Height of towing bar	h10(mm)	490	490
	4.19	Overall length	11 (mm)	4745	4745
	4.20	Length at fork heels	12 (mm)	3545	3545
	4.21	Total width (overall)	b1 (mm)	2011	2011
	4.22	Section of fork arms	s (mm)	70	70
	4.22.1	Width of fork arms	e (mm)	150	150
	4.22.2	Length of fork arms	1 (mm)	1200	1200
	4.23	Fork carriage to DIN 15173 A/B		FEM4A	FEM4A
	4.24	Width of fork carriage	b3 (mm)	1750	1750
	4.31	Ground clearance of mast	m1 (mm)	127	127
	4.32	Ground clearance at centre of wheel-base	m2 (mm)	260	260
	4.33	Width of aisle for pallet 1000x1200 crossways	Ast (mm)	5488	5488
	4.34	Width of aisle for pallet 800x1200 lengthways	Ast (mm)	5288	5288
	4.35	Turning radius (position down/up)	Wa (mm)	3465	3465
	4.36	Inner turning radius	b13 (mm)	470	470
Performance	5.1	Speed of travel laden	km/h	23	23
	5.1.1	Speed of travel unladen	km/h	23,3	23,3
	5.2	Speed of raise laden	m/s	0,38	0,39
	5.2.1	Speed of raise unladen	m/s	0,47	0,40
	5.3	Speed of lowering laden	m/s	0,47	0,40
	5.3.1	Speed of lowering unladen	m/s	0,42	0,36
	5.5	Nominal towing power laden	N	6800	6800
	5.5.1	Nominal towing power unladen	N	3175	2845
	5.7	Slope laden	%	47	38
	5.7.1	Slope unladen	%	33	30
	5.9	Acceleration time laden	s	-	-
5.9.1	Acceleration time unladen	s	-	-	
5.10	Service brake		Hydrostatic	Hydrostatic	
Engine	7.1	Manufacturer / Type of engine		Perkins/1104C-44T	Perkins/1104C-44T
	7.2	Power delivery according to ISO/TR 14396	kW	74,5	74,5
	7.3	Rated speed	rpm	2200	2200
	7.4	Number of pistons / Cubic capacity	cm3	4 / 4400	4/ 4400
Miscell.	8.1	Speed control		Hydrostatic	Hydrostatic
	8.2	Hydraulic pressure to serve accessories	bar	260	260
	8.3	Oil flow for accessories	I / min	103	103
	8.4	Average noise level for the driver (in motion) measured / guaranteed	dB (A)	81	81
	8.5	Tow-bar / DIN type		-	-

Duplex total visibility	Lifting mast mm	Height of free lift H2	Height of mast when		Height at maximum load (mm)	Capacity at height maxi (kg)	
			lowered H1	extended H4		cdg 600 mm	
							MI 60 H
	3600	-	3231	5031	3600	6000	7000
	4000	-	3431	5431	4000	6000	7000
	4500	-	3681	5931	4500	6000	7000
	5000	-	3931	6431	4500	5600	6700
	5500	-	4181	6931	4500	5500	6500





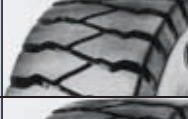

Standard equipment:

- Enclosed cab with tinted glass
- Grammer suspended seat with arm-rest
- Adjustable steering column
- Heater
- Front and rear wipers, front screen washers
- Left and right external mirrors
- Rear driving lights
- Multifunction joystick with built-in reverse
- Sun visor on roof-light
- Wiper and washer on roof-light
- Seat contact switch
- Load absorber
- Emergency stop in cab
- Hydraulic movement immobilising



Options :

- Headlights
- Rotating beacon
- Reverse alarm and light
- Double front working lights
- Double rear working lights
- Air conditioning
- Sun blind for windscreen
- Internal reversing mirror
- Radio
- High capacity battery 165 Ah
- Front mud-flaps
- Rear mud-flaps
- Battery cut-out
- Catalytic converter
- Mast tilt angle of 14°/11° or 7°/8°
- Various accessories such as sideshift, clamps, double sideshift, triple sideshift, mono-multiforks, built-in fork positioner, etc.

		Enveloppe	Type	Width of tyre (mm)	Width hors tout machine (mm)	Profile
Monte standard	front	Single wheels 355/65 R15 XZM	pneumatic	355	1995	
	rear	8.25 R15 XZM 153 A5	pneumatic	237	1947	
Tyre option	front	Single wheels 355/65 15 CSE SC10	PPS	300	1940	
		Dual wheels 8.25 R15 XZM 153 A5	pneumatic	237	2177	
		Dual wheels 8.25 -15 CSE SC10	PPS	208	2170	
	rear	8.25 -15 CSE SC10	PPS	208	1918	

**Enjoy the service that
goes with it!**



**The success of a partnership
is measured in years.**

To manage that, we lay great emphasis on service: the density of our sales network, ongoing technical training, the logistics of delivering spares. And we go the extra mile – suitable modular financing options, advice and expertise.

**In your business,
as in ours,
responsiveness and professionalism
are what matter.**



Anywhere in the world,
95% of MANITOU spares
are sent out
within 24 hours.
**That's the sort of response
you need!**

Manitou, material handling world leader

Inventor of the rough terrain forklift truck, Manitou offers today the most comprehensive range to meet all specific handling and personal lifting requirements :

Telescopic trucks
MANISCOPIC

Rough terrain
and semi industrial
masted trucks
MANITOU

Access
equipment
MANIACCESS

Compact telescopic
handler
Twisco

Truck mounted forklifts
MANITRANSIT

Backhoe/Loader
with telescopic boom
MANIHOE

Swinging arm
and articulated
wheeled loaders
MANILOADER



A network of skilled professionals at your service

With a network of 500 service and parts centres in more than 100 countries, Manitou provides an efficient after-sales support based on the expertise of 2000 factory trained technicians.

This publication in no way constitutes an offer and the company reserves the right to alter specification without prior notice.
The MANITOU models presented in this brochure can be supplied complete with optional equipment attachments.



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