

**MI** 40 45 50  
IC masted 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 manufactures, produces, distributes and services and equipment for construction, agriculture and industries.

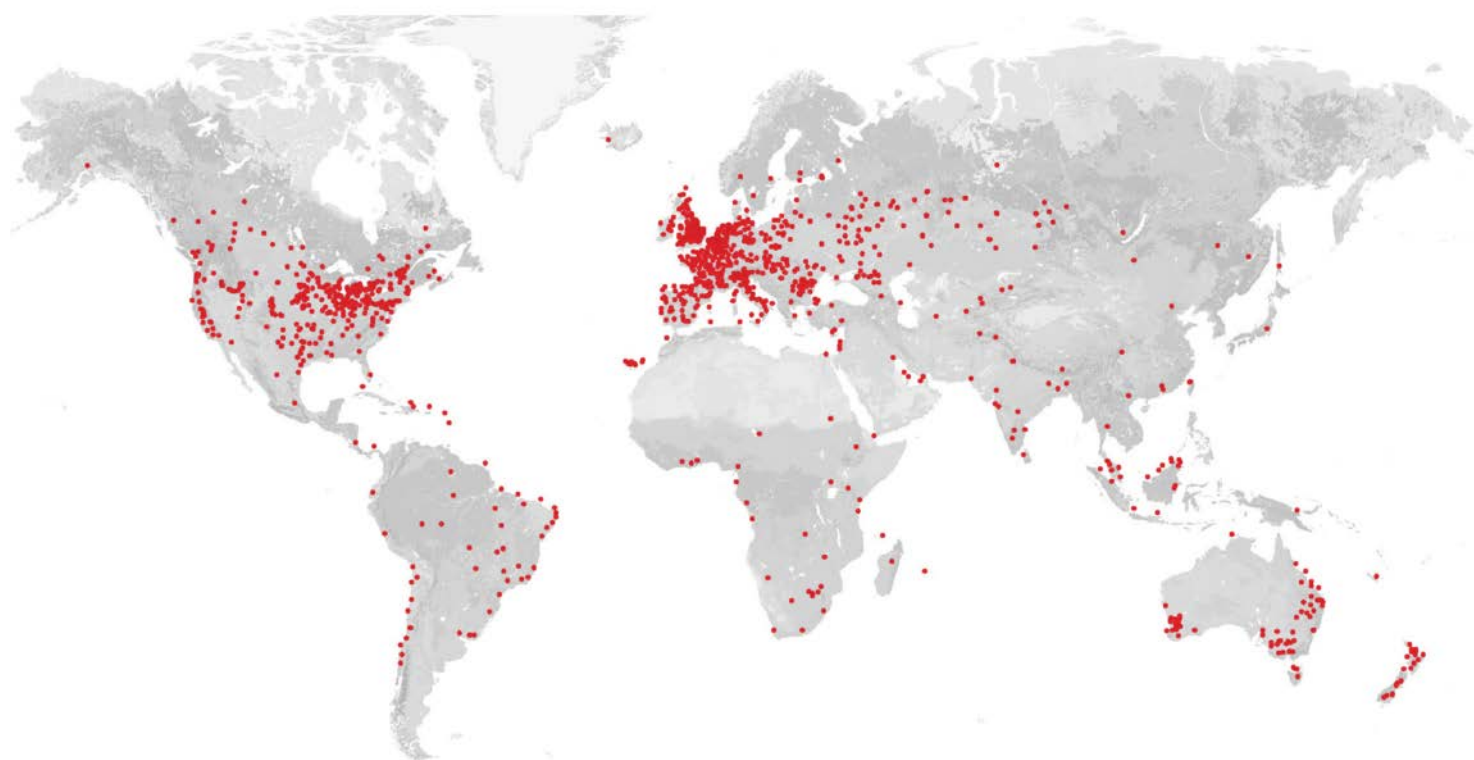
The Group's product ranges include: telescopic loaders including rotary and heavy lift models, semi industrial and industrial all-terrain masted forklifts, compact loaders (skid-steers) on wheels or tracks, aerial work-platforms for personnel, truck-mounted forklifts, warehousing equipment and attachments.

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 1.246 billion euros in 2014 in 140 countries and employs 3,300 staff who are resolutely focused on customer satisfaction.



1958	1972	1981	1984	1993	1995	1996
First Manitou forklift-truck created based on an idea from Marcel Braud.	Group's global expansion began.  Sales & marketing partnership agreement signed with Toyota for the exclusive distribution of Toyota industrial forklifts in France.	Manitou's first telehandler launched.	The company went public.	The first of the MRT rotating telescopic forklifts were launched.	Aerial workplatforms launched.	Manitou was ISO-9001-certified for the first time



## 3 BRANDS

distributed  
by 1,400 dealers  
in 140 countries

- 19 subsidiaries
- 9 production sites
- 3 300 employees worldwide
- 65% of the company's share capital held by the founding family
- 78% of sales generated abroad
- 2014 revenue, 1,246 billion euros

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

2006

Manitou surpassed the one billion euro sales mark.

2007

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

2008

The American Gehl Company was acquired.

2010

Gehl and Mustang articulated loaders launched.

2013

Partnership with Yanmar made stronger with Yanmar taking a 6.26%-stake in the Group's capital.

2015

Celebration of the 500,000th machine sold in the world.







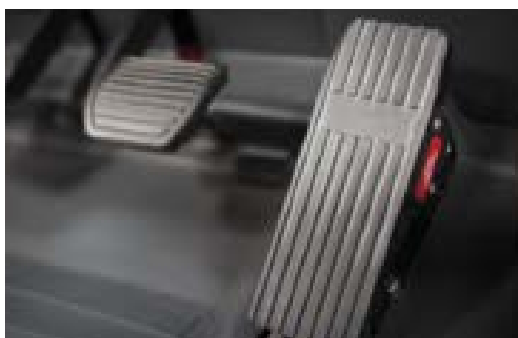
## A full range for all your needs

The line of MI (Manitou Industrial) machines is designed to meet user expectations such as simplicity, comfort, reliability and efficiency in mind, all at the lowest operational cost. Our MI range of forklifts now features six new models, capable of handling 1.5 to 10 tons for all of your industrial applications.









## Easy to use

Our machines feature simple and effective controls, so operators can quickly get up and running:

- Power steering makes manoeuvring easier, even with bulky loads.
- Hydraulic and reverse controls designed for a natural, effortless feel during handling operations.
- Suspended pedal configuration and steering wheel controls (for lighting, signalling) for improved driver's cab ergonomics.
- A full, optimally-positioned dashboard display makes reading control indicators easy, meaning operators can keep an eye on the condition of the machine at all times whilst working.





## Advantages

### Maximum work comfort

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

- Adjustable suspension seat.
- Safety belt (standard).
- Tilting steering column.
- Shock absorption systems.
- Systems enabling the smooth lowering of the forks at the end (dampers) which also reduce jerky movements and noise when deploying the mast.
- Various types of cabs with a variety of options available.







## Advantages

### Ease of access

Getting in and out of the driver's cab is frequently a repetitive affair, which is why Manitou has designed its machines to ensure maximum user comfort and safety in this regard.

The cab can be accessed from both sides thanks to:

- The fixed handles on each side of the overhead guard.
- The wide anti-slip steps located on both sides.
- More floor space.







## Visibility & safety

The safety of the driver and their surrounding environment is absolutely crucial, so our machines are designed with visibility as top priority:

- Optimized hose routing in the mast for improved vision between uprights.
- A panoramic overhead guard ensuring excellent vision.
- An operator presence sensor for even safer usage, which locks hydraulic mast movements as well as machine forward/backward movement (to standard ISO 3691) normed with in the seat.

# Advantages

## High-performance machines

The MI range comes equipped with a wide range of engines for performance and durability whilst maintaining torque converter power: MI Gaz machines feature PSI engines, with IIIB versions fitted with Cummins (turbo) engines and MI-X Diesel machines with Perkins engines.

The combination of a powerful and clean engine (which meets stage IIIB/tier 4 final international standards) and recyclable materials help reduce the impact your machine has on the environment over the whole of its service life.

Usage costs are kept low as well thanks to:

- LED lighting (energy consumption reduced by 95%).
- Guideline-compliant fuel consumption levels.



LPG Engine  
PSI



Diesel Engine  
Cummins



Diesel Engine  
Perkins (MI-X)

## Strong machines

The MI range is equipped with a reinforced monoblock frame, masts and axles for maximum adaptability to a wide range of handling operations. Units featuring an Okamura transmission have a tried and tested powertrain for power efficiency.

The full range also comes standard equipped with dust- and humidity-proof drum brakes for maximum performance.

Additionally dual-element air and safety filters are also standard issue. These are designed with maximum resistance against corrosion and shocks in mind, for an increased service life as well as filtration capacity. And for the most demanding projects, cyclonic prefilters (with optional self-cleaning function) can also be fitted.





## Easy-to-maintain machines

Reducing machine downtime is a key factor in reducing costs and the MI range more than meets this expectation with its ease of upkeep and maintenance.

- Design simplicity (i.e. a limited number of electronic parts) helps keep maintenance costs down.
- Easy access to components located under the hood with an opening mechanism to ensure technician safety during maintenance operations.
- The air filter is equipped with an alarm which activates in the event of a pressure drop.



**4.000-5.000kg  
load capacities**



**MI 40 G**

Energy	
Engine power (3A/3B)	kW (HP)
Capacity	kg
Load center	mm
Carriage class	
Max. lift height	mm
Turning radius	mm
Length w/o forks	mm

<b>LPG</b>
<b>74 (99)</b>
<b>4.000</b>
<b>500</b>
<b>FEM 3A</b>
<b>6.000</b>
<b>2.780</b>
<b>3.070</b>



**MI 40 D**

<b>Diesel</b>
<b>56 (75) / 55 (74)</b>
<b>4.000</b>
<b>500</b>
<b>FEM 3A</b>
<b>6.000</b>
<b>2.780</b>
<b>3.070</b>







MI 45 G

LPG
74 (99)
4.500
500
FEM 3A
6.000
2.800
3.110



MI 45 D

Diesel
56 (75) / 55 (74)
4.500
500
FEM 3A
6.000
2.800
3.110



MI 50 G

%LPG%
74 (99)
5.000
500
FEM 3A
6.000
2.920
3.255



MI 50 D

Diesel
56 (75) / 55 (74)
5.000
500
FEM 3A
6.000
2.920
3.255





## An industrial center of expertise

For years now, MANITOU also has its own center of expertise (dedicated R&D and sales teams) for the industrial sector as well as a tailor-made production facility.



## 1.400 dealers at your service

The Manitou network is present in more than 120 countries, with over 2000 expert technicians who are specially trained in Manitou technology and are at your service.







## Everyday, expertise and services.

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.

### Dealers' network

A network of experts at your service regardless of your professional activity (agriculture, construction, industry).

### Maintenance contracts

3 levels of contracts which are tailored to your specific needs: Initial, Advanced, Excellence. Leave maintenance to your Manitou dealer.

### Financing

To lease or to buy, that is the question. Either way Manitou Finance is there to help you choose the best solution for your projects. Why look elsewhere?

### Warranty extension

With Maniplus, you can extend coverage on your Manitou for up to 5 years. Use your machine with full peace of mind.

### Fleet management

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 leads you. Just visit [used.com](http://used.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 the expertise and service you need!



Your dealer:



Head office:

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

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

[www.manitou.com](http://www.manitou.com)



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.  
MANITOU BF SA - Limited company with board of directors - Share capital: 39,547,824 euros - 857 802 508 RCS Nantes



# Technical book

MI medium tonnage range

4 to 5 tons

IC trucks



# 4000 kg

## TECHNICAL SPECS

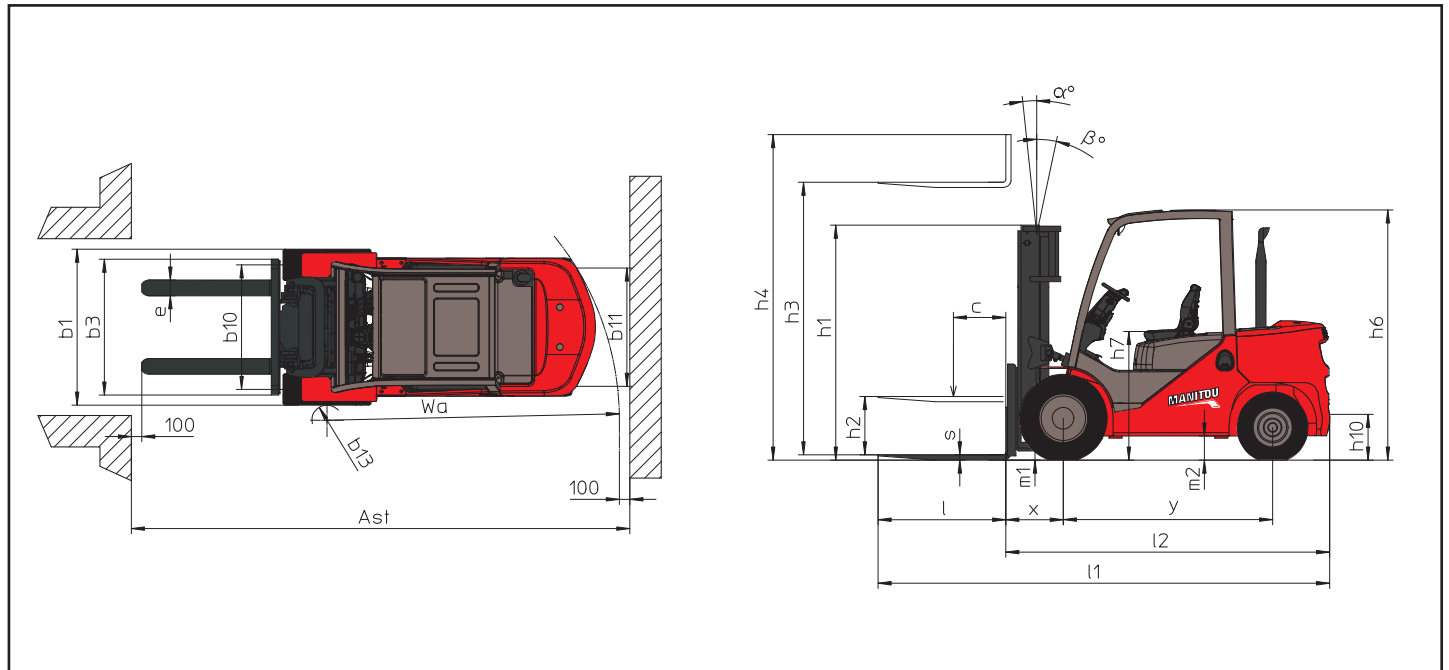
Specifications	1.1	Manufacturer			MANITOU	MANITOU
	1.2	Model			MI40G	MI40D
	1.3	Power source			LPG	Diesel
	1.4	Driving position			Seated	Seated
	1.5	Nominal capacity	Q	t	4	4
	1.6	Load - Centre of gravity	c	mm	500	500
	1.8	Distance from the load-bearing surface to centre of front axle	x	mm	550	550
	1.9	Wheelbase	y	mm	2000	2000
Weights	2.1	Operating weighth		kg	6300	6300
	2.2	Axle load, with load, front / rear		kg	9000 / 1300	9000 / 1300
	2.3	Axle load, without load, front / rear		kg	2800 / 3500	2800 / 3500
Tyres, frame	3.1	Tyre equipment : cushion (V), superelastic (SE), pneumatic (L)			SE	SE
	3.2	Size of front wheels			8.25-15-14PR	8.25-15-14PR
	3.3	Size of rear wheels			7.00-12-12PR	7.00-12-12PR
	3.5	Number of front wheels (x=drive wheel) / rear wheels			2x / 2	2x / 2
	3.6	Front wheel gauge (middle of wheels)	b10	mm	1160	1160
	3.7	Rear wheel gauge (middle of wheels)	b11	mm	1130	1130
Dimensions	4.1	Tilt of mast forwards/backwards (1)	$\alpha / \beta$	deg	6 / 12	6 / 12
	4.2	Height mast lowered	h1	mm	2245	2245
	4.3	Free lift	h2	mm	160	160
	4.4	Lift height	h3	mm	3000	3000
	4.5	Height mast extended	h4	mm	4170	4170
	4.7	Height of overhead guard	h6	mm	2390	2390
	4.8	Height of seat	h7	mm	1370	1370
	4.12	Height of towing bar	h10	mm	445	445
	4.19	Overall length	l1	mm	4290	4290
	4.20	Length at fork heels	l2	mm	3070	3070
	4.21	Total width (overall)	b1	mm	1395	1395
	4.22	Fork dimensions		mm	150 / 50 / 1220	150 / 50 / 1220
	4.23	Fork carriage to DIN 15173 A/B			FEM 3A	FEM 3A
	4.24	Width of fork carriage b3	b3	mm	1250	1250
	4.31	Ground clearance below mast	m1	mm	170	170
	4.32	Ground clearance at centre of wheel-base	m2	mm	230	230
	4.33	Width of aisle for pallet 1000x1200 crossways	Ast	mm	4530	4530
	4.34	Width of aisle for pallet 800x1200 lengthways	Ast	mm	4330	4330
Performances	4.35	Turning radius	Wa	mm	2780	2780
	4.36	Inner turning radius	b13	mm	135	135
	5.1	Speed of travel laden / unladen		km/h	22 / 24	22 / 24
	5.2	Speed of raise laden / unladen		m/s	0,46 / 0,48	0,46 / 0,48
	5.3	Speed of lowering laden / unladen m/s		m/s	0,5 / 0,5	0,5 / 0,5
	5.5	Nominal towing power laden / unladen		N	38000 / 22000	40000 / 20000
Engines	5.7	Gradeability with / without load		%	24 / 37	31 / 39
	5.10	Service brake			Hydraulic	Hydraulic
	7.1	Engine Manufacturer / Type			PSI 4.3L	Cummins QSF2.8T4F - Stage 3B
	7.2	Power delivery		kW	74	55
	7.3	Rated speed		tr/min	2300	2600
Misc.	7.4	Number of pistons / Cubic capacity		cm <sup>3</sup>	6 / 4300	4 / 2800
	8.2	Operating pressure for attachments		bar	160	160
	8.3	Oil flow for attachments		l/min	90	90
	-	Average weighted acceleration on driver's body (acc to std NF EN 13059)		m/s <sup>2</sup>	1	1

1 Values with duplex mast

Data is based on standard configurations (forks, battery).  
Performance data and dimensions are nominal and subject to tolerances.  
Specifications are subject to change without notice.



## DIMENSIONAL DRAWINGS



## MAST AND RATED CAPACITIES

MI 4,0 T			Duplex Total Visibility							Duplex Free Lift				Triplex Free Lift						
			DVT30	DVT33	DVT35	DVT37	DVT40	DVT45	DVT50	DLL30	DLL33	DLL35	DLL37	TLL40	TLL43	TLL45	TLL47	TLL50	TLL55	TLL60
h3*	Lift height	mm	3000	3300	3500	3700	4000	4500	5000	3000	3300	3500	3700	4000	4300	4500	4700	5000	5500	6000
h1	Height mast lowered	mm	2245	2395	2495	2595	2795	3070	3345	2226	2376	2476	2576	2080	2180	2248	2310	2410	2575	2790
h2	Free lift	mm	160	160	160	160	160	160	160	1364	1514	1614	1714	1229	1329	1395	1459	1559	1724	1939
h4*	Height mast extended*	mm	4170	4470	4670	4870	5170	5670	6170	4170	4470	4670	4870	5170	5470	5685	5870	6170	6670	7180
	Residual capacity without attachment	kg	4000	4000	4000	4000	4000	3700	3200	4000	4000	4000	4000	4000	3900	3500	3300	3100	2800	2300
	Residual capacity with Integrated sideshift	kg	4000	4000	4000	4000	4000	3600	3100	4000	4000	4000	4000	3900	3800	3400	3200	3000	2700	2200
$\alpha / \beta$	Tilt of mast forwards / backwards	deg	6 / 12	6 / 12	6 / 12	6 / 12	6 / 12	6 / 6	6 / 6	6 / 12	6 / 12	6 / 12	6 / 12	6 / 6	6 / 6	6 / 6	6 / 6	6 / 6	3 / 6	3 / 6

\* Without backrest

# 4500 kg

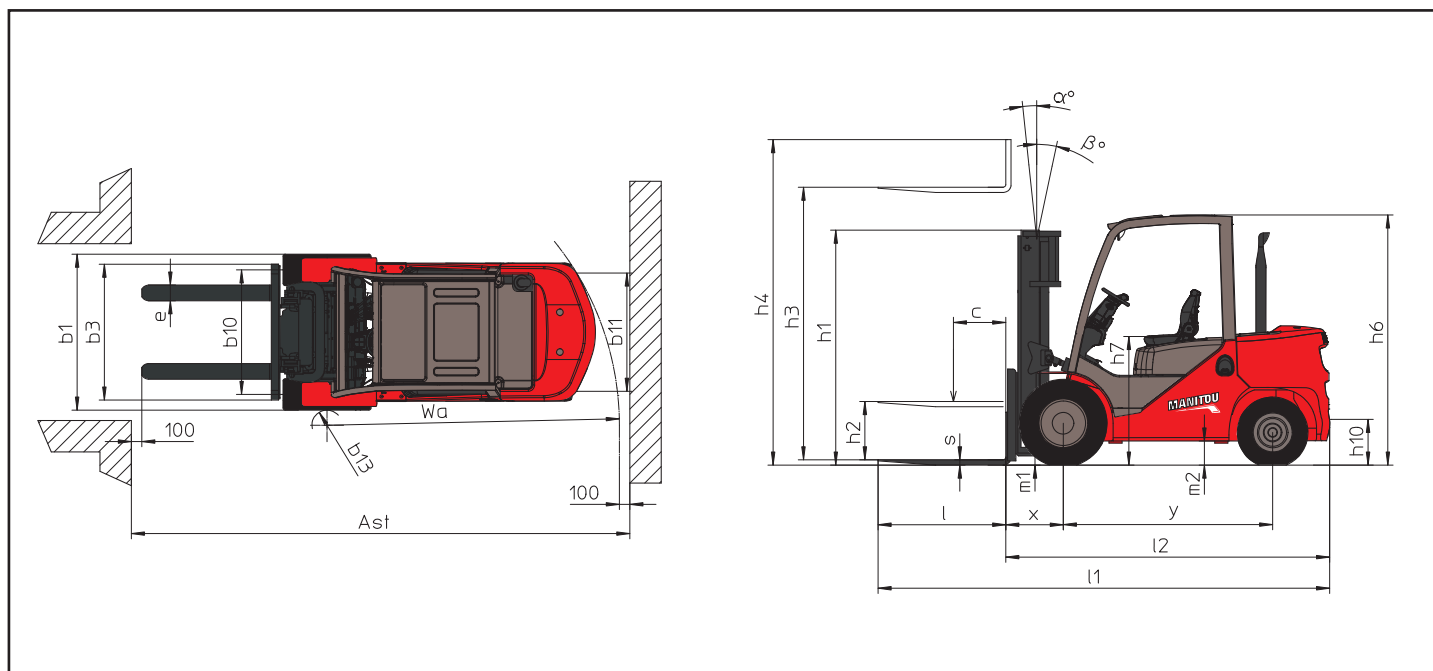
## TECHNICAL SPECS

Specifications	1.1	Manufacturer			MANITOU	MANITOU
	1.2	Model			MI45G	MI45D
	1.3	Power source			LPG	Diesel
	1.4	Driving position			Seated	Seated
	1.5	Nominal capacity	Q	t	4,5	4,5
	1.6	Load - Centre of gravity	c	mm	500	500
	1.8	Distance from the load-bearing surface to centre of front axle	x	mm	550	550
	1.9	Wheelbase	y	mm	2000	2000
Weights	2.1	Operating weighth		kg	6500	6500
	2.2	Axle load, with load, front / rear		kg	9625 / 1375	9625 / 1375
	2.3	Axle load, without load, front / rear		kg	2820 / 3680	2820 / 3680
Tyres, frame	3.1	Tyre equipment : cushion (V), superelastic (SE), pneumatic (L)			SE	SE
	3.2	Size of front wheels			300-15-18PR	300-15-18PR
	3.3	Size of rear wheels			7.00-12-12PR	7.00-12-12PR
	3.5	Number of front wheels (x=drive wheel) / rear wheels			2x / 2	2x / 2
	3.6	Front wheel gauge (middle of wheels)	b10	mm	1190	1190
	3.7	Rear wheel gauge (middle of wheels)	b11	mm	1130	1130
Dimensions	4.1	Tilt of mast forwards/backwards (1)	$\alpha / \beta$		6 / 12	6 / 12
	4.2	Height mast lowered	h1	mm	2245	2245
	4.3	Free lift	h2	mm	160	160
	4.4	Lift height	h3	mm	3000	3000
	4.5	Height mast extended	h4	mm	4170	4170
	4.7	Height of overhead guard	h6	mm	2390	2390
	4.8	Height of seat	h7	mm	1370	1370
	4.12	Height of towing bar	h10	mm	445	445
	4.19	Overall length	l1	mm	4330	4330
	4.20	Length at fork heels	l2	mm	3110	3110
	4.21	Total width (overall)	b1	mm	1490	1490
	4.22	Fork dimensions		mm	150 / 50 / 1220	150 / 50 / 1220
	4.23	Fork carriage to DIN 15173 A/B			FEM 3A	FEM 3A
	4.24	Width of fork carriage b3	b3	mm	1250	1250
	4.31	Ground clearance below mast	m1	mm	170	170
	4.32	Ground clearance at centre of wheel-base	m2	mm	230	230
	4.33	Width of aisle for pallet 1000x1200 crossways	Ast	mm	4550	4550
	4.34	Width of aisle for pallet 800x1200 lengthways	Ast	mm	4350	4350
Performances	4.35	Turning radius	Wa	mm	2800	2800
	4.36	Inner turning radius	b13	mm	100	100
	5.1	Speed of travel laden / unladen		km/h	22 / 24	22 / 24
	5.2	Speed of raise laden / unladen		m/s	0,46 / 0,48	0,46 / 0,48
	5.3	Speed of lowering laden / unladen m/s		m/s	0,5 / 0,5	0,5 / 0,5
	5.5	Nominal towing power laden / unladen		N	38000 / 22000	40000 / 20000
Engines	5.7	Gradeability with / without load		%	23 / 34	30 / 36
	5.10	Service brake			Hydraulic	Hydraulic
	7.1	Engine Manufacturer / Type			PSI 4.3L	Cummins QSF2.8T4F - Stage 3B
	7.2	Power delivery		kW	74	55
	7.3	Rated speed		tr/min	2300	2600
Misc.	7.4	Number of pistons / Cubic capacity		cm <sup>3</sup>	6 / 4300	4 / 2800
	8.2	Operating pressure for attachments		bar	160	160
	8.3	Oil flow for attachments		l/min	90	90
	-	Average weighted acceleration on driver's body (acc to std NF EN 13059)		m/s <sup>2</sup>	1	1

<sup>1</sup> Values with duplex mast



## DIMENSIONAL DRAWINGS



## MAST AND RATED CAPACITIES

MI 4,5 T			Duplex Total Visibility							Duplex Free Lift				Triplex Free Lift						
			DVT30	DVT33	DVT35	DVT37	DVT40	DVT45	DVT50	DLL30	DLL33	DLL35	DLL37	TLL40	TLL43	TLL45	TLL47	TLL50	TLL55	TLL60
h3*	Lift height	mm	3000	3300	3500	3700	4000	4500	5000	3000	3300	3500	3700	4000	4300	4500	4700	5000	5500	6000
h1	Height mast lowered	mm	2245	2395	2495	2595	2795	3070	3345	2226	2376	2476	2576	2080	2180	2248	2310	2410	2575	2790
h2	Free lift	mm	160	160	160	160	160	160	160	1364	1514	1614	1714	1229	1329	1395	1459	1559	1724	1939
h4*	Height mast extended*	mm	4170	4470	4670	4870	5170	5670	6170	4170	4470	4670	4870	5170	5470	5685	5870	6170	6670	7180
	Residual capacity without attachment	kg	4500	4500	4500	4500	4500	4100	3700	4500	4500	4500	4500	4450	4300	4100	3900	3600	3100	2500
	Residual capacity with Integrated sideshift	kg	4500	4500	4500	4500	41500	4000	3600	4500	4500	4500	4500	4350	4200	4000	3800	3500	23000	2400
$\alpha / \beta$	Tilt of mast forwards / backwards	deg	6 / 12	6 / 12	6 / 12	6 / 12	6 / 12	6 / 6	6 / 6	6 / 12	6 / 12	6 / 12	6 / 12	6 / 6	6 / 6	6 / 6	6 / 6	6 / 6	3 / 6	3 / 6

\* Without backrest

# 5000 kg

## TECHNICAL SPECS

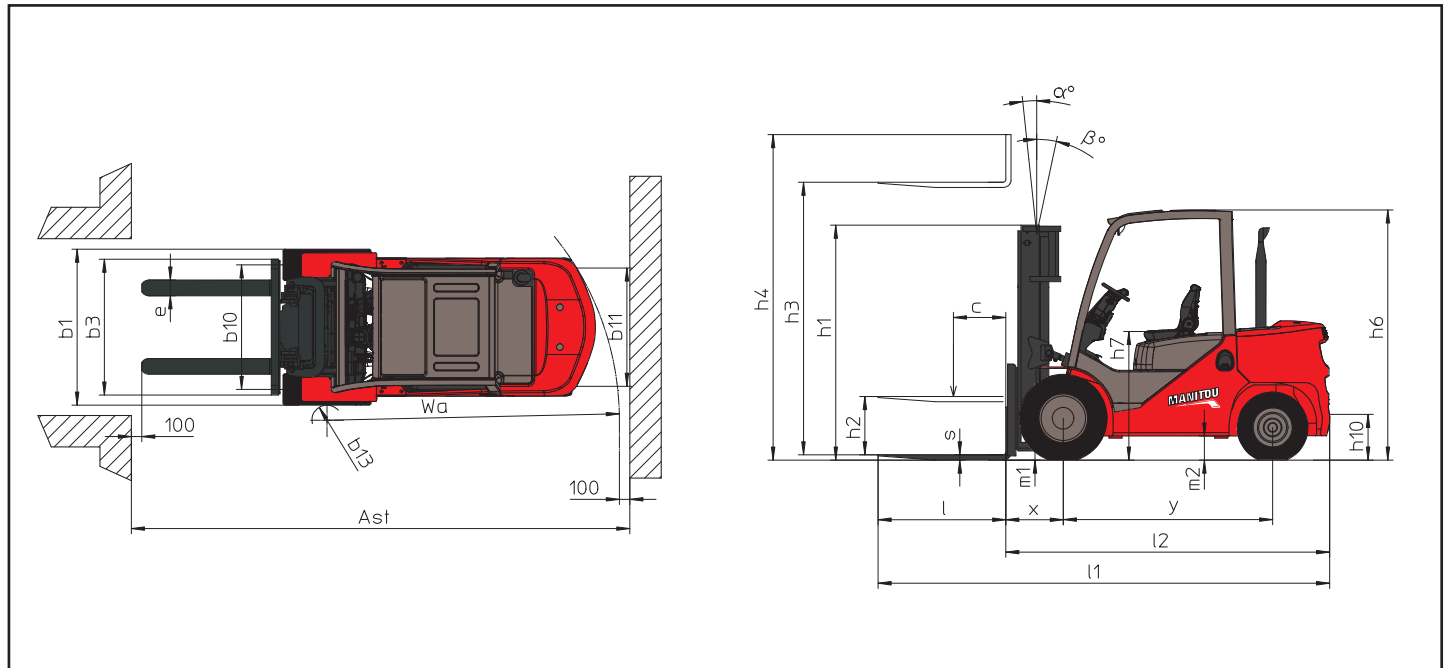
Specifications	1.1	Manufacturer			MANITOU	MANITOU
	1.2	Model			MI50G	MI50D
	1.3	Power source			LPG	Diesel
	1.4	Driving position			Seated	Seated
	1.5	Nominal capacity	Q	t	5	5
	1.6	Load - Centre of gravity	c	mm	500	500
	1.8	Distance from the load-bearing surface to centre of front axle	x	mm	560	560
	1.9	Wheelbase	y	mm	2150	2150
Weights	2.1	Operating weighth		kg	6800	6800
	2.2	Axle load, with load, front / rear		kg	10450 / 1350	10450 / 1350
	2.3	Axle load, without load, front / rear		kg	3000 / 3800	3000 / 3800
Tyres, frame	3.1	Tyre equipment : cushion (V), superelastic (SE), pneumatic (L)			SE	SE
	3.2	Size of front wheels			300-15-18PR	300-15-18PR
	3.3	Size of rear wheels			7.00-12-12PR	7.00-12-12PR
	3.5	Number of front wheels (x=drive wheel) / rear wheels			2x / 2	2x / 2
	3.6	Front wheel gauge (middle of wheels)	b10	mm	1190	1190
	3.7	Rear wheel gauge (middle of wheels)	b11	mm	1130	1130
Dimensions	4.1	Tilt of mast forwards/backwards (1)	$\alpha / \beta$		6 / 12	6 / 12
	4.2	Height mast lowered	h1	mm	2395	2395
	4.3	Free lift	h2	mm	160	160
	4.4	Lift height	h3	mm	3000	3000
	4.5	Height mast extended	h4	mm	4320	4320
	4.7	Height of overhead guard	h6	mm	2390	2390
	4.8	Height of seat	h7	mm	1370	1370
	4.12	Height of towing bar	h10	mm	445	445
	4.19	Overall length	l1	mm	4475	4475
	4.20	Length at fork heels	l2	mm	3255	3255
	4.21	Total width (overall)	b1	mm	1490	1490
	4.22	Fork dimensions		mm	150 / 55 / 1220	150 / 55 / 1220
	4.23	Fork carriage to DIN 15173 A/B			FEM 3A	FEM 3A
	4.24	Width of fork carriage b3	b3	mm	1250	1250
	4.31	Ground clearance below mast	m1	mm	170	170
	4.32	Ground clearance at centre of wheel-base	m2	mm	230	230
	4.33	Width of aisle for pallet 1000x1200 crossways	Ast	mm	4675	4675
	4.34	Width of aisle for pallet 800x1200 lengthways	Ast	mm	4475	4475
Performances	4.35	Turning radius	Wa	mm	2920	2920
	4.36	Inner turning radius	b13	mm	130	130
	5.1	Speed of travel laden / unladen		km/h	22 / 24	22 / 24
	5.2	Speed of raise laden / unladen		m/s	0,4 / 0,43	0,4 / 0,43
	5.3	Speed of lowering laden / unladen m/s		m/s	0,5 / 0,5	0,5 / 0,5
	5.5	Nominal towing power laden / unladen		N	38000 / 23000	40000 / 21000
Engines	5.7	Gradeability with / without load		%	22 / 32	31 / 34
	5.10	Service brake			Hydraulic	Hydraulic
	7.1	Engine Manufacturer / Type			PSI 4.3L	Cummins QSF2.8T4F - Stage 3B
	7.2	Power delivery		kW	74	55
Misc.	7.3	Rated speed		tr/min	2300	2600
	7.4	Number of pistons / Cubic capacity		cm <sup>3</sup>	6 / 4300	4 / 2800
	8.2	Operating pressure for attachments		bar	160	160
	8.3	Oil flow for attachments		l/min	90	90
	-	Average weighted acceleration on driver's body (acc to std NF EN 13059)		m/s <sup>2</sup>	1	1

1 Values with duplex mast

Data is based on standard configurations (forks, battery).  
Performance data and dimensions are nominal and subject to tolerances.  
Specifications are subject to change without notice.



## DIMENSIONAL DRAWINGS



## MAST AND RATED CAPACITIES

MI 5,0 T			Duplex Total Visibility							Duplex Free Lift				Triplex Free Lift						
			DVT30	DVT33	DVT35	DVT37	DVT40	DVT45	DVT50	DLL30	DLL33	DLL35	DLL37	TLL40	TLL43	TLL45	TLL47	TLL50	TLL55	TLL60
h3*	Lift height	mm	3000	3300	3500	3700	4000	4500	5000	3000	3300	3500	3700	4000	4300	4500	4700	5000	5500	6000
h1	Height mast lowered	mm	2245	2395	2495	2595	2795	3070	3345	2226	2376	2476	2576	2080	2180	2248	2310	2410	2575	2790
h2	Free lift	mm	160	160	160	160	160	160	160	1364	1514	1614	1714	1222	1322	1390	1452	1552	1718	1932
h4*	Height mast extended*	mm	4365	4665	4865	5065	5365	5865	6365	4365	4665	4865	5065	5365	5665	5880	6070	6370	6870	7380
	Residual capacity without attachment	kg	5000	5000	5000	5000	5000	4700	4100	5000	5000	5000	5000	4850	4700	4600	4300	3900	3400	2700
	Residual capacity with Integrated sideshift	kg	5000	5000	5000	5000	5000	4600	4000	5000	5000	5000	5000	4750	4600	4500	4200	3800	3300	2600
$\alpha / \beta$	Tilt of mast forwards / backwards	deg	6 / 12	6 / 12	6 / 12	6 / 12	6 / 12	6 / 6	6 / 6	6 / 12	6 / 12	6 / 12	6 / 12	6 / 6	6 / 6	6 / 6	6 / 6	6 / 6	3 / 6	3 / 6

\* Without backrest

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