

IC FORKLIFT TRUCKS HANDLING SOLUTIONS

MI Range 1,5 to 3,5 T



MANITOU

MANITOU, YOUR KEY INDUSTRIAL PARTNER

A global group

A global handling benchmark, the MANITOU group designs, assembles and distributes handling solutions for all sectors including industry, construction and agriculture.

Backed by over 50 years of experience, MANITOU innovates constantly and guarantees high-quality products and services that are always suited to your changing business activities.

A centre of industrial expertise

For many years, through its IMH (Industrial Material Handling) Division, MANITOU has been developing handling solutions appreciated by the most demanding of industrial companies.

IMH has a true skills centre and production plant specifically dedicated to the industrial market, with a high-class Research and Development team and a dedicated sales team.

A new comprehensive range

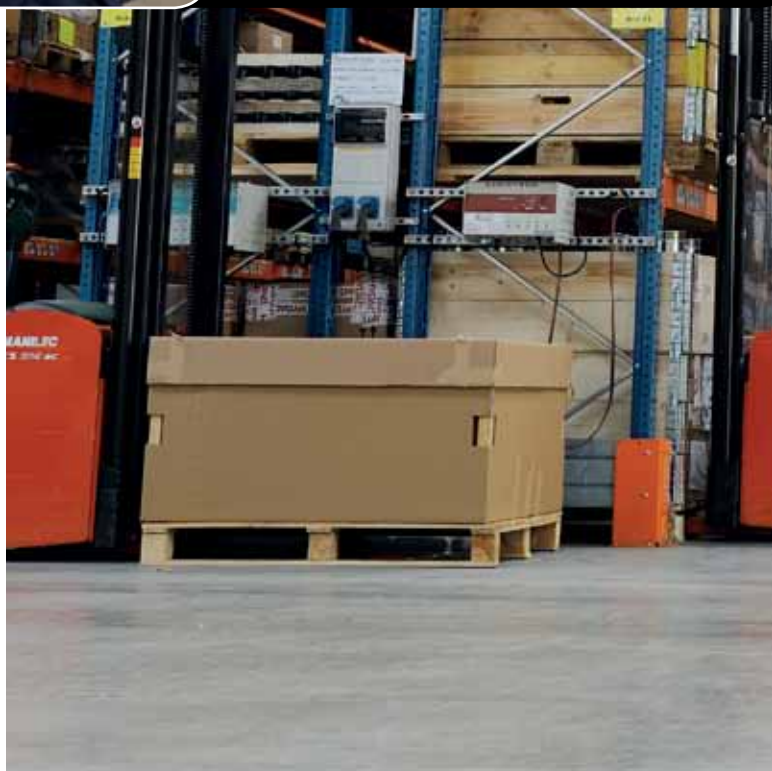
MANITOU MI, the new range of internal combustion industrial forklifts, is a perfect example of MANITOU's commitment to its industrial markets. It was designed around users' needs for simplicity, comfort, reliability and efficiency, all at the lowest operating cost.

With 12 different models to choose from, the MI meets the needs of all your industrial applications.

In MANITOU, you've got a solid, specialised and passionate partner!



**" Today, MANITOU
takes care of all my
handling needs "**



MANITOU MI, A COMPREHENSIVE

**/ 600 DISTRIBUTION
POINTS...**

**// ...PRESENT IN OVER
120 COUNTRIES**

**/// OVER 2,000
SPECIALISED
TECHNICIANS**

**//// 22,000 M² PARTS
WAREHOUSE
CENTRALISED IN EUROPE**



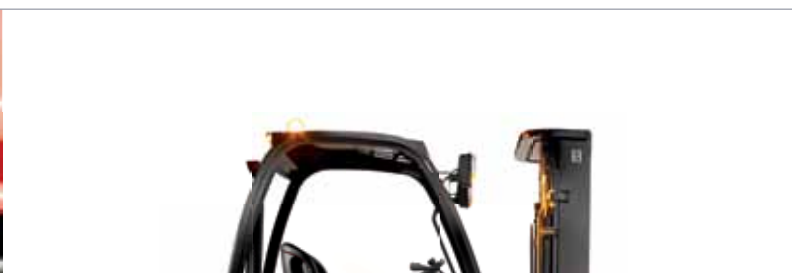
RANGE AND A GLOBAL NETWORK

////// A UNIQUE INDUSTRIAL RANGE:
INDUSTRIAL AND SEMI-INDUSTRIAL FORKLIFTS,
TRUCK-MOUNTED FORKLIFTS,
INDUSTRIAL TRACTORS,
WAREHOUSING EQUIPMENT,
ACCESS PLATFORMS, ETC.

DESIGN 100% EFFICIENCY

With the new line of MANITOU MI industrial forklifts, we put design to work for efficiency! Take advantage of the experience and quality that have helped build the excellent reputation of MANITOU products.





RESEARCH & DEVELOPMENT //

The new MI was designed and developed by our R&D teams. Thanks to their expertise, they have designed a simple and efficient machine that perfectly meets the needs of users and fleet managers.



DESIGN THAT HELPS THE OPERATOR //

With its streamlined silhouette and smooth curves, the new MI certainly catches the eye. However, this innovative design is intended to help the operator. The roomy and refined operator's compartment allows for a pleasant and safe working environment. The fluid design of the entire product guarantees better handling and visibility. In sum, the new MI ensures you work under the best conditions so that you can be efficient all day long.

12 MODELS AVAILABLE //

	1.5 t		1.8 t		2 t		2.5 t		3 t		3.5 t	
	Model	Engine power (kW)	Model	Engine power (kW)	Model	Engine power (kW)	Model	Engine power (kW)	Model	Engine power (kW)	Model	Engine power (kW)
DIESEL	MI 15D	32.8	MI 18D	32.8	MI 20D	42.1	MI 25D	42.1	MI 30D	42.1	MI 35D	42.1
GPL	MI 15G	31.5	MI 18G	31.5	MI 20G	38	MI 25G	38	MI 30G	38	MI 35G	38

EASIER ACCESS //

MANITOU strives to provide as much safety and comfort as possible for the operator during repetitive tasks like entering and exiting the operating compartment. So, it's easy to get into the cab regardless of the operator's height or shape.

- A handle for easy stepping up to the compartment
- Non-slip steps on both sides
- Tilting cylinders under the floor to increase space



OPTIMAL VISIBILITY //

The forklift is easy and safe to manoeuvre in all conditions.

- Wide mast opening
- Open-work roof for high vision
- Profiled rear pillars for reversing
- Rear headlights on top of protective roof



EXCELLENT WORKING COMFORT //

The operator's compartment is roomy and comfortable, so that operators can be more productive. The simplified dashboard with LCD screen guarantees optimal handling.

- Standard contoured seat with seatbelt
- Wide floor with moulded floor mat
- Optional: a cab heating for challenging environments
- Inclined steering column
- Panoramic rear-view mirror



OPERATOR COMFORT **100% PRODUCTIVITY**

With a more user-friendly operator's compartment, you will optimise your operators' working conditions and enhance productivity!



OVERALL QUALITY PROCESS //

Our quality process comes into play right from the product design stage and is applied at every step of the project. Dedicated teams oversee the product until it is put into production and check that the appropriate care is taken in the assembly and accessibility of components. The engine, mast, drive train and all major components are carefully selected and tested to guarantee optimal reliability for a minimal operating cost.

TRANSMISSION WITH INCHING //

The new MI is equipped with Powershift transmission for optimal reliability.

The standard Inching function:

- Guarantees a jerk-free approach
- Optimises duty cycle times
- Includes an end-of-stroke braking function

HIGH-PERFORMANCE ENGINES //

For engines, MANITOU has selected top-quality Yanmar diesel and Nissan GPL models, with optimised related components to ensure long life.

They come with:

- High-level air intake
- Air-filter safety-cartridge
- Vertical exhaust





ENGINE AND TRANSMISSION **100% RELIABILITY**

Use the new MI to increase
your work power and speed over
the long term in total security!



MANITOU SERVICES **100% CUSTOMER-ORIENTED**

You can count on the expertise and responsiveness of your MANITOU network, the availability of parts, and on safe and flexible financing solutions at all times!

EASY MAINTENANCE //

Easy access to the entire engine compartment makes handling easy and reduces down time, thus cutting equipment maintenance costs.



YOUR GLOBAL PARTNER //

When you choose MANITOU, you can count on the professionalism of a leading handling network. You also benefit from quick and efficient services: maintenance and repairs by MANITOU technicians, delivery of parts within 48 hours worldwide.

RELATED SERVICES //

With MANITOU services, take advantage of our comprehensive solutions that will help you to control costs and optimise the use of your equipment.

- Maintenance or Full Service contract
- Adapted financing
- Extended guarantee



Your nearest **MANITOU** 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 83 36 88

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

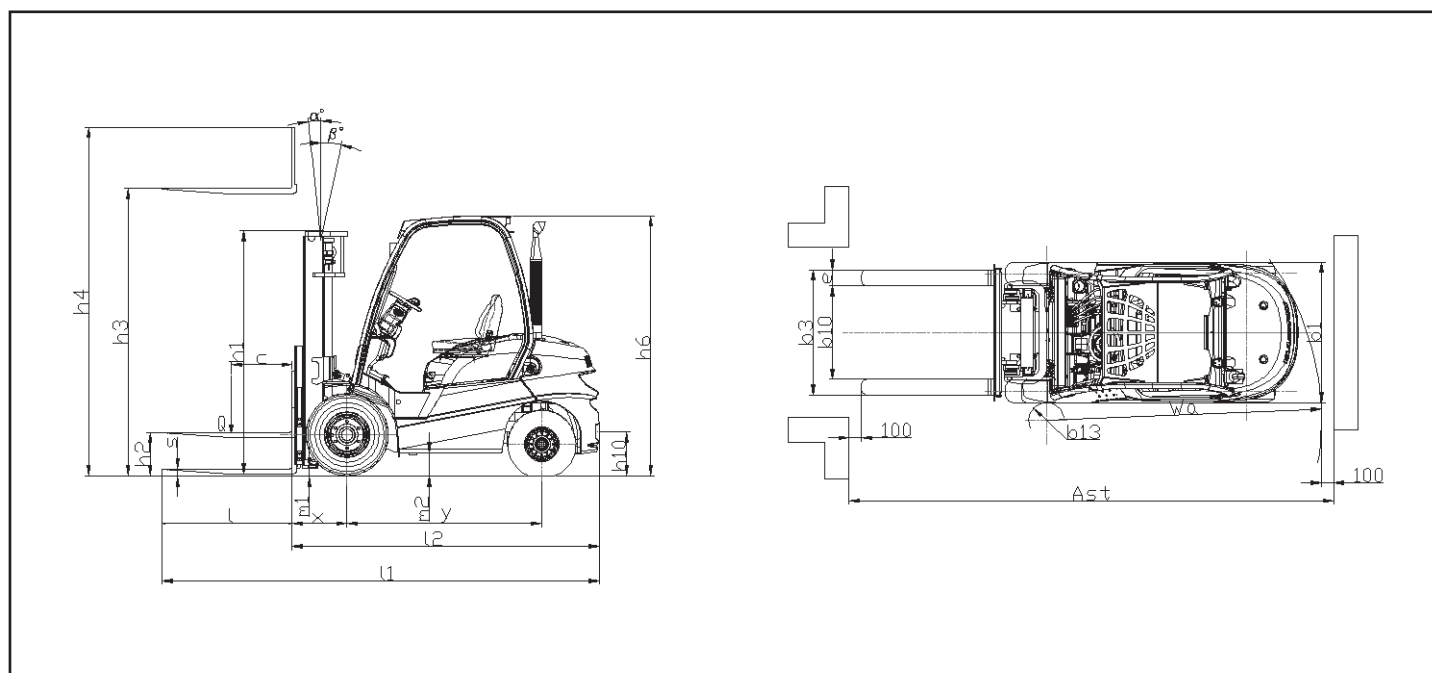


				MANITOU	MANITOU	MANITOU	MANITOU
				MI15G	MI15D	MI18G	MI18D
		Q	t	1,5	1,5	1,8	1,8
		c	mm	500	500	500	500
		x	mm	405	405	405	405
		y	mm	1420	1420	1420	1420
			kg	2710	2905	2905	3100
			kg	3640 / 570	3820 / 585	4160 / 545	4260 / 640
			kg	1230 / 1480	1325 / 1580	1215 / 1690	1315 / 1785
				6.50-10 10	6.50-10 10	6.50-10 10	6.50-10 10
				5.00-8 8	5.00-8 8	5.00-8 8	5.00-8 8
				2 x 2	2 x 2	2 x 2	2 x 2
		b10	mm	900	900	900	900
		b11	mm	920	920	920	920
		α / β		6 / 12	6 / 12	6 / 12	6 / 12
		h1	mm	2145	2145	2145	2145
		h2	mm	155	155	155	155
		h3	mm	3300	3300	3300	3300
		h4	mm	4255	4255	4255	4255
		h6	mm	2090	2090	2090	2090
		h7	mm	1160	1160	1160	1160
		h10	mm	315	315	315	315
		l1	mm	3310	3310	3350	3350
		l2	mm	2240	2240	2280	2280
		b1	mm	1080	1080	1080	1080
			mm	35 / 100 / 1070	35 / 100 / 1070	35 / 100 / 1070	35 / 100 / 1070
		b3	mm	1000	1000	1000	1000
		m1	mm	115	115	115	115
		m2	mm	150	150	150	150
		Ast	mm	3555	3555	3580	3580
		Ast	mm	3755	3755	3780	3780
		Wa	mm	1950	1950	1975	1975
		b13	mm	55	55	55	55
			km/h	17.5 / 18	18.5 / 19	17.5 / 18	18.6 / 19.3
			m/s	0.45 / 0.55	0.45 / 0.55	0.50 / 0.55	0.50 / 0.55
			m/s	0.50 / 0.55	0.50 / 0.55	0.50 / 0.55	0.50 / 0.55
			N	14600 / 7700	14500 / 7600	14500 / 8000	14400 / 7950
			%	>20	>20	>20	>20
			kW	31,5	32,8	31,5	32,8
				2300	2450	2300	2450
			cm³	4/2065	4/2659	4/2065	4/2659
			bar	160	160	160	160
			l/min	53	56	53	56

MI 1,5 T															
			DVT33	DVT37	DVT40	DLL33	DLL37	DLL40	TLL45	TLL47	TLL48	TLL50	TLL55	TLL60	TLL65
h3*		mm	3300	3700	4000	3300	3700	4000	4500	4700	4800	5000	5500	6000	6500
h1		mm	2145	2395	2595	2160	2360	2560	2120	2170	2220	2270	2470	2720	2870
h2		mm	155	155	155	1575	1775	1975	1500	1585	1600	1685	1885	2100	2200
h4		mm	3865	4265	4600	3885	4285	4585	5130	5380	5430	5595	6095	6730	7180
		kg	1500	1500	1500	1500	1500	1500	1300	1250	1250	1200	950	700	-
		kg	1500	1500	1500	1500	1500	1500	1300	1150	1150	1100	850	600	-
		kg	1400	1400	1400	1400	1400	1400	1200	1050	1050	1000	750	500	-

MI 1,8 T															
			DVT33	DVT37	DVT40	DLL33	DLL37	DLL40	TLL45	TLL47	TLL48	TLL50	TLL55	TLL60	TLL65
h3*		mm	3300	3700	4000	3300	3700	4000	4500	4700	4800	5000	5500	6000	6500
h1		mm	2145	2395	2595	2160	2360	2560	2120	2170	2220	2270	2470	2720	2870
h2		mm	155	155	155	1575	1775	1975	1500	1585	1600	1685	1885	2100	2200
h4		mm	3865	4265	4600	3885	4285	4585	5130	5380	5430	5595	6095	6730	7180
		kg	1800	1800	1700	1800	1800	1700	1700	1650	1650	1350	1050	700	-
		kg	1750	1750	1650	1750	1750	1650	1600	1550	1550	1250	950	650	-
		kg	1650	1650	1550	1650	1650	1550	1500	1450	1450	1150	900	600	-

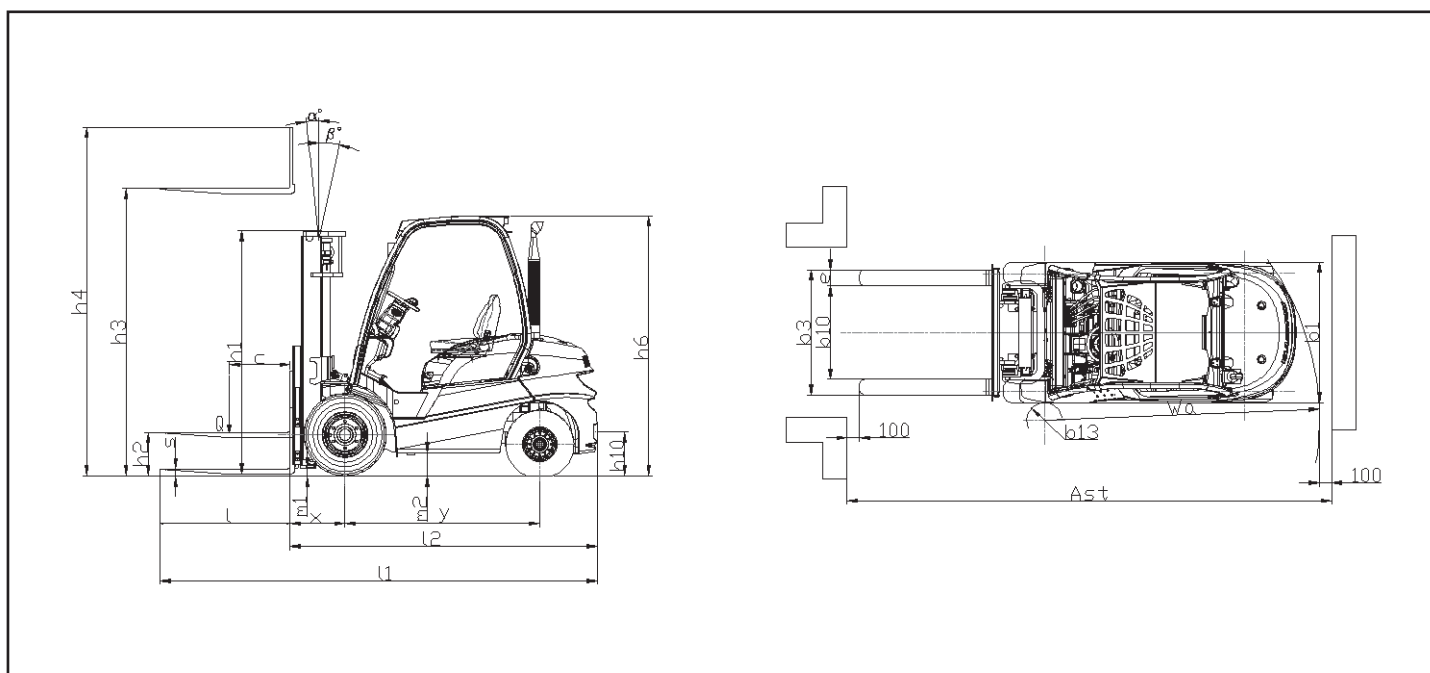
				MANITOU	MANITOU	MANITOU	MANITOU
				MI20G	MI20D	MI25G	MI25D
		Q	t	2	2	2,5	2,5
		c	mm	500	500	500	500
		x	mm	465	465	465	465
		y	mm	1600	1600	1600	1600
			kg	3620	3725	3895	4000
			kg	4930 / 690	5005 / 720	5665 / 730	5735 / 765
			kg	1720 / 1900	1765 / 1960	1665 / 2230	1710 / 2290
				7.00-12 12	7.00-12 12	7.00-12 12	7.00-12 12
				6.00-9 10	6.00-9 10	6.00-9 10	6.00-9 10
				2 x 2	2 x 2	2 x 2	2 x 2
		b10	mm	965	965	965	965
		b11	mm	973	973	973	973
		α / β		6 / 12	6 / 12	6 / 12	6 / 12
		h1	mm	2185	2185	2185	2185
		h2	mm	140	140	140	140
		h3	mm	3300	3300	3300	3300
		h4	mm	4345	4345	4345	4345
		h6	mm	2115	2115	2115	2115
		h7	mm	1190	1190	1190	1190
		h10	mm	355	355	360	360
		l1	mm	3615	3615	3685	3685
		l2	mm	2465	2465	2535	2535
		b1	mm	1155	1155	1155	1155
			mm	40 / 122 / 1150	40 / 122 / 1150	40 / 122 / 1150	40 / 122 / 1150
		b3	mm	1038	1038	1038	1038
		m1	mm	115	115	115	115
		m2	mm	175	175	175	175
		Ast	mm	3865	3865	3930	3930
		Ast	mm	4065	4065	4130	4130
		Wa	mm	2200	2200	2265	2265
		b13	mm	145	145	145	145
			km/h	18.8 / 19.4	18 / 18.5	19.4 / 19.7	18 / 18.6
			m/s	0.56 / 0.55	0.56 / 0.58	0.56 / 0.55	0.56 / 0.58
			m/s	0.48 / 0.50	0.48 / 0.55	0.50 / 0.50	0.50 / 0.55
			N	16800 / 10400	19000 / 10200	17000 / 10400	19400 / 10250
			%	>20	>20	>20	>20
			kW	38	42.1	38	42.1
				2400	2300	2400	2300
			cm³	4/2488	4/3319	4/2488	4/3319
			bar	160	160	160	160
			l/min	72	69	72	69



MI 2,0 T			DVT33			DVT37			DVT40			DLL33			DLL37			DLL40			TLL45			TLL47			TLL48			TLL50			TLL55			TLL60			TLL65		
			DVT33	DVT37	DVT40	DVT33	DVT37	DVT40	DVT33	DVT37	DVT40	DLL33	DLL37	DLL40	DLL33	DLL37	DLL40	DLL33	DLL37	DLL40	TLL45	TLL47	TLL48	TLL50	TLL55	TLL60	TLL65	TLL45	TLL47	TLL48	TLL50	TLL55	TLL60	TLL65	TLL45	TLL47	TLL48	TLL50	TLL55	TLL60	TLL65
h3*		mm	3300	3700	4000	3300	3700	4000	3300	3700	4000	3300	3700	4000	3300	3700	4000	3300	3700	4000	4500	4700	4800	5000	5500	6000	6500	4500	4700	4800	5000	5500	6000	6500	4500	4700	4800	5000	5500	6000	6500
h1		mm	2185	2435	2635	2185	2435	2635	2185	2435	2635	2160	2360	2560	2160	2360	2560	2160	2360	2560	2150	2200	2250	2300	2500	2750	2900	2150	2200	2250	2300	2500	2750	2900	2150	2200	2250	2300	2500	2750	2900
h2		mm	140	140	140	140	140	140	140	140	140	1480	1680	1880	1480	1680	1880	1480	1680	1880	1470	152	1570	1620	1820	2070	2200	1470	152	1570	1620	1820	2070	2200	1470	152	1570	1620	1820	2070	2200
h4		mm	3960	4360	4660	3960	4360	4660	3960	4360	4660	3980	4330	4680	3980	4330	4680	3980	4330	4680	5230	5380	5480	5680	6180	6730	7200	5230	5380	5480	5680	6180	6730	7200	5230	5380	5480	5680	6180	6730	7200
		kg	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	1800	1750	1750	1700	1300	900	-	1800	1750	1750	1700	1300	900	-	1800	1750	1750	1700	1300	900	-
		kg	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	1700	1650	1650	1600	1200	800	-	1700	1650	1650	1600	1200	800	-	1700	1650	1650	1600	1200	800	-
		kg	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1700	1650	1650	1600	1200	800	-	1700	1650	1650	1600	1200	800	-	1700	1650	1650	1600	1200	800	-

MI 2,5 T			DVT33			DVT37			DVT40			DLL33			DLL37			DLL40			TLL45			TLL47			TLL48			TLL50			TLL55			TLL60			TLL65		
			DVT33	DVT37	DVT40	DVT33	DVT37	DVT40	DVT33	DVT37	DVT40	DLL33	DLL37	DLL40	DLL33	DLL37	DLL40	DLL33	DLL37	DLL40	TLL45	TLL47	TLL48	TLL50	TLL55	TLL60	TLL65	TLL45	TLL47	TLL48	TLL50	TLL55	TLL60	TLL65	TLL45	TLL47	TLL48	TLL50	TLL55	TLL60	TLL65
h3*		mm	3300	3700	4000	3300	3700	4000	3300	3700	4000	3300	3700	4000	3300	3700	4000	3300	3700	4000	4500	4700	4800	5000	5500	6000	6500	4500	4700	4800	5000	5500	6000	6500	4500	4700	4800	5000	5500	6000	6500
h1		mm	2185	2435	2635	2185	2435	2635	2185	2435	2635	2160	2360	2560	2160	2360	2560	2160	2360	2560	2150	2200	2250	2300	2500	2750	2900	2150	2200	2250	2300	2500	2750	2900	2150	2200	2250	2300	2500	2750	2900
h2		mm	140	140	140	140	140	140	140	140	140	1480	1680	1880	1480	1680	1880	1480	1680	1880	1470	152	1570	1620	1820	2070	2200	1470	152	1570	1620	1820	2070	2200	1470	152	1570	1620	1820	2070	2200
h4		mm	3960	4360	4660	3960	4360	4660	3960	4360	4660	3980	4330	4680	3980	4330	4680	3980	4330	4680	5230	5380	5480	5680	6180	6730	7200	5230	5380	5480	5680	6180	6730	7200	5230	5380	5480	5680	6180	6730	7200
		kg	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2350	2200	2200	1950	1650	1050	-	2350	2200	2200	1950	1650	1050	-	2350	2200	2200	1950	1650	1050	-
		kg	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2300	2150	2150	1900	1600	1000	-	2300	2150	2150	1900	1600	1000	-	2300	2150	2150	1900	1600	1000	-
		kg	2500	2500	2450	2500	2500	2450	2500	2500	2450	2500	2500	2450	2500	2500	2450	2500	2500	2450	2250	2100	2100	1850	1550	950	-	2250	2100	2100	1850	1550	950	-	2250	2100	2100	1850	1550	950	-

				MANITOU	MANITOU	MANITOU	MANITOU
				MI30G	MI30D	MI35G	MI35D
		Q	t	3	3	3,5	3,5
		c	mm	500	500	500	500
		x	mm	480	480	485	485
		y	mm	1700	1700	1700	1700
			kg	4490	4610	4740	4860
			kg	6560 / 930	6650 / 960	7260 / 980	7360 / 1000
			kg	1805 / 2685	1860 / 2750	1775 / 2965	1825 / 3035
				28-9-15 12	28-9-15 12	28-9-15 12	28-9-15 12
				6.50-10 10	6.50-10 10	6.50-10 10	6.50-10 10
				2 x 2	2 x 2	2 x 2	2 x 2
		b10	mm	1005	1005	1005	1005
		b11	mm	975	975	975	975
		α / β		6 / 12	6 / 12	6 / 12	6 / 12
		h1	mm	2200	2200	2315	2315
		h2	mm	145	145	145	145
		h3	mm	3300	3300	3300	3300
		h4	mm	4445	4445	4445	4445
		h6	mm	2130	2130	2130	2130
		h7	mm	1215	1215	1215	1215
		h10	mm	355	355	360	360
		l1	mm	3865	3865	3935	3935
		l2	mm	2715	2715	2785	2785
		b1	mm	1225	1225	1225	1225
			mm	45 / 122 / 1115	45 / 122 / 1115	45 / 122 / 1115	45 / 122 / 1115
		b3	mm	1100	1100	1100	1100
		m1	mm	130	130	130	130
		m2	mm	200	200	200	200
		Ast	mm	4140	4140	4195	4195
		Ast	mm	4340	4340	4395	4395
		Wa	mm	2460	2460	2510	2510
		b13	mm	160	160	160	160
			km/h	18 / 18.5	18 / 18.5	17 / 17.5	18 / 18.5
			m/s	0.45 / 0.55	0.45 / 0.52	0.395 / 0.52	0.39 / 0.40
			m/s	0.48 / 0.50	0.43 / 0.48	0.47 / 0.38	0.40 / 0.350
			N	17400 / 10800	20000 / 10600	17500 / 11000	20500 / 10800
			%	>20	>20	>18 / >20	>18 / >20
			kW	38	42.1	38	42.1
				2400	2300	2400	2300
			cm³	4/2488	4/3319	4/2488	4/3319
			bar	160	160	160	160
			l/min	72	69	72	69



MI 3,0 T															
			DVT33	DVT37	DVT40	DLL33	DLL37	DLL40	TLL45	TLL47	TLL48	TLL50	TLL55	TLL60	TLL65
h3*		mm	3300	3700	4000	3300	3700	4000	4500	4700	4800	5000	5500	6000	6500
h1		mm	2200	2450	2650	2230	2430	2580	2165	2215	2265	2315	2515	2765	2915
h2		mm	145	145	145	1475	1675	1825	1410	1460	1510	1560	1760	2010	2160
h4		mm	4035	4435	4735	4055	4455	4755	5305	5455	5555	5755	6255	6805	7255
		kg	3000	3000	3000	3000	3000	3000	2900	2800	2800	2500	1850	1400	-
		kg	3000	3000	3000	3000	3000	3000	2800	2700	2700	2400	1750	1300	-
		kg	2900	2900	2900	2900	2900	2900	2700	2600	2600	2300	1650	1200	-

MI 3,0 T															
			DVT33	DVT37	DVT40	DLL33	DLL37	DLL40	TLL45	TLL47	TLL48	TLL50	TLL55	TLL60	TLL65
h3*		mm	3300	3700	4000	3300	3700	4000	4500	4700	4800	5000	5500	6000	6500
h1		mm	2315	2565	2715	2330	2530	2680	2265	2315	2365	2415	2565	2815	2965
h2		mm	145	145	145	1500	1700	1850	1435	1485	1535	1585	1735	1985	2135
h4		mm	4115	4515	4815	4130	4530	4830	5380	5530	5630	5830	6330	6880	7330
		kg	3500	3500	3500	3500	3500	3500	3400	3300	3300	300	2200	1400	-
		kg	3500	3500	3500	3500	3500	3500	3300	3200	3200	2900	2100	1500	-
		kg	3400	3400	3400	3400	3400	3400	3200	3100	3100	2800	2000	1400	-

