

Italswiss



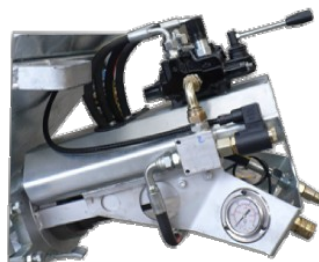
MARMOTTA

Grout pump

		ELECTRIC VERSIONS					HYDRAULIC VERSION		
MODEL		230 V	2010		Tronic				
Power/Oil flow rate		1,5 kW	4 kW	5,5 kW	4 kW		30 l/min *	50 l/min *	
rpm		400	240	400	240	400	240	400	
		Max pressure ¹	Flow rate l/h ¹		Flow rate l/h ¹		Flow rate l/h ¹		
MPX - GREY	25 bar	900 l/h							
MP 2 - YELLOW	60 bar		240 l/h	400 l/h	240 l/h	400 l/h	240 l/h	400 l/h	
MP 3 - BLUE	70 bar		750 l/h	1250 l/h	750 l/h	1250 l/h	750 l/h	1250 l/h	
MP 7 - GREEN	80 bar		960 l/h	1600 l/h	960 l/h	1600 l/h	960 l/h	1600 l/h	
MP 8 - ORANGE	60 bar		1440 l/h	2350 l/h	1440 l/h	2350 l/h	1440 l/h	2350 l/h	
MP 13 - WHITE	60 bar		2160 l/h	3600 l/h	2160 l/h	3600 l/h	2160 l/h	3600 l/h	
Power pack		min. 5 KVA	min. 12 KVA						
Control panel supply		230 V/50 Hz	380 V/ 50 Hz					12 V battery or 220 V supply	
Gear motor			gear motor						
Max delivery		50 m	100 m						
Max grain size		2 mm	3 mm						
Cleaning time		10 min	10 min						
Length		1650 mm	1650 mm						
Weight		680 mm	680 mm						
Charging height		880 mm	880 mm						
Frame with wheels, hydraulic system and control panel:		97 Kg	119 Kg						
Gear motor and flange		35 Kg	-					20 Kg	
Motor and flange		-	43 Kg					-	
Pump body		8 Kg	18 Kg					18 Kg	
Total weight		157 Kg	180 Kg					157 Kg	
¹ with a new pump body							* Oil pressure 120/150 bar		



Electric motor



Hydraulic motor



Pump body

The **Marmotta** grout pump was created as an effect of long-standing experience in the fields of cement mortar injections.

The basic principles applied while constructing this modern pump were:

- small size
- manoeuvrability
- lack of complicated mechanisms
- modularity
- high performance
- easy to use and to maintain
- interesting price

The **Marmotta** grout pump allows to mix and pump cement mortars with a maximum grain size of 3 mm, continuously and without problems. It also permits to spray mortar with an air compressor. It is powered by only one motor. Dry mortar or cement are put into the hopper and transported through the worm conveyor into the mixing chamber, in which the water flows continuously in order to obtain cement mix. Then, the latter is pumped through the pump body which permits the working pressure of 80 bar and the maximum transport distance of 100 m. The flow rate may vary depending on the pump bodies installed (from MP2 model to MP13 model).

The indicating lights on a control panel show immediately possible causes of machine stop: lack of water pressure and electricity, motor overheating or an open grating. The machine stops automatically and does not start until the problem is solved. In case of worm clogging, it is possible to reverse the motor. New wheels, a redesigned charging hopper and a modern digital liter counter make the machine the most innovative on the market.

Marmotta grout pump has several versions:

- **Single-phase Marmotta 230 V**
- **Electric Marmotta 2010 4 kW or 5.5 kW**
- **Marmotta 2010 TRONIC 4 kW equipped with an inverter**
- **Hydraulic Marmotta 2010**

The new **Marmotta 2010 TRONIC** has been equipped with a variable speed drive. Its advantages are:

- lower energy absorption during activation(-30%)
- use of 12 KVA power engine generator (older Marmotta's versions need 18 KVA)
- gradual start
- double pumping speed (slow/fast)
- reduced consumptions mean electricity saving and respect for the environment.

Hydraulic Marmotta 2010 grout pump works using a hydraulic oil from drilling rig or power pack. The only electrical part, a control panel, is fed by a rechargeable battery. We may additionally provide a hydraulic water pump, which uses return oil so the machine becomes completely independent from electricity.

