

# ITALSWISS

Engineering S.a.s.



Injection unit

## Murena

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# The injection pump

## Murena

**Murena is used for cement mortar or bentonite clay injections  
Used for the injections with the use of micropiles fitted with valves or  
self-drilling anchors.**

**In tunnels or for a small diameter jet grouting.**

**It can be installed on the drilling machines.**

**The possibility to use seven different flow rates allows to save the  
electrical energy.**

HEIGHT (switchboard included)	100 cm
WIDTH	90 cm
LENGHT	230 cm
WEIGHT	800 kg
MAXIMUM FLOW RATE*	100 l/min
MAXIMUM PRESSURE*	200 bar
ELECTRIC ENGINE	30 kW
MAXIMUM GRAIN SIZE	4 mm
PISTON DIAMETER	63 mm
PISTON STROKE	200 mm
PISTON SKIRT	63 mm
SUCTION CONNECTION OUTPUT	1 ¼ "
DISCHARGE CONNECTION OUTPUT	1 ¼ "
HYDRAULIC CYLINDERS	2
HEAT EXCHANGER	WATER/OIL
SWITCHBOARD	IMPULSE COUNTER
TANK	OIL

\*THEORETICAL CALCULATION

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# Turbomixer/Agitator

## MOSCARDINO PLUS TOTANO PLUS

The Moscardino Plus turbine mixer has been constructed in order to obtain cement mortar through the intense mixing of water and cement dust and/or bentonite.

The new turbomixer is equipped with an automatic control system that manages the machine during all work stages: load cells, a silo management control, a tank discharging automatic control, the possibility of choosing 8 different mixes.

Totano Plus agitator has been constructed for storing and maintaining in suspension the mixes obtained from Moscardino Plus.

The mix is transported through piping directly into the injection pump(Murena).

ASSEMBLY FRAME	230 x 115 x h.200 cm.
WEIGHT	650 kg
<b>MOSCARDINO PLUS TECHNICAL DATA</b>	
MOSCARDINO PLUS ELECTRIC ENGINE	5,5 kW
MOSCARDINO PLUS CAPACITY	300 l
CONTROL SYSTEM	4 load cells
PUMPING OPERATION SYSTEM	2 pneumatic valves controlled by 1.5 kW compressor, 50 l tank
<b>TOTANO PLUS TECHNICAL DATA</b>	
TOTANO PLUS ELECTRIC ENGINE	1,5 kW
TOTANO PLUS CAPACITY	750 l
<b>SWITCHBOARD TECHNICAL DATA</b>	
CONTROL	ON/OFF
CONNECTIONS	External sockets for: - water pump - worm and silos -2 sockets for other use Keyboard for recipes setting