

## Injector for lost wax casting & his conveyor



### Among new features:

- ➔ New convenient interface with a 10" touch screen
- ➔ Remote control for diagnostic and maintenance
- ➔ Library of standard models
- ➔ Self-learning functions to adjust perfectly injection parameters
- ➔ Easy pre-setting for injection parameters
- ➔ Statistics per machine, mould, operator through a local cloud
- ➔ Free software updates to get immediately new features

The lost wax-casting sector becomes a focus for METACONCEPT Group; creation of dedicated spaces for injectors manufacture and for Research & Development with a new technical team especially devoted to this activity.

Machines can be delivered as a stand-alone equipment for moulds injections either one by one or with a conveyor for the manipulation of several moulds at the same time, increasing the throughput for the operator. Different sizes of injection heads can be adapted depending on pieces dimensions.

## Characteristics:

Part nb	Designation	Characteristics
MXMA 1263	WAXMAX 4000 C1 2V STD Standard wax injector with manual adjustment of the mould	Standard wax injector including 3 moulds holders among 4 dimensions (73x48 mm, 75x60mm, 70x85mm, optional 70x55mm), 1-foot pedal, cables for vacuum pump and compressor (4x6) and 10 RFID microchips
MXMA 1265	WAXMAX 4000 C1 2V SL Advanced wax injector with automatic adjustment of the mould (lateral clamping)	Advanced wax injector with lateral clamping system including 1-foot pedal, cables for vacuum pump and compressor (4x6) and 10 RFID microchips
MXMA 1269	WAXMAX 4000T C1 2V STD Advanced wax injector with manual adjustment of the mould and 10" touch pad	Standard wax injector including 3 moulds holders (among 4 dimensions 73x48 mm, 75x60mm, 70x85mm, optional 70x55mm), and 10" touch pad including 1-foot pedal, cables for vacuum pump and compressor (4x6) and 10 RFID microchips
MXMA 1267	WAXMAX 4000T C1 2V SL Advanced wax injector with automatic adjustment of the mould (lateral clamping) and 10" touch pad	Advanced wax injector with lateral clamping system, 10" touch pad including 1-foot pedal, cables for vacuum pump and compressor (4x6) and 10 RFID microchips

The Waxmax 4000 series have been developed by considering all users' needs in order to provide an equipment adjustable in almost every situation. Small pieces, big parts, thin/filigrees or thick models, the injector can be adjusted to get an optimal injection for all types of applications.

A set of 11 parameters can be perfectly adjusted to reach the best tuning for every piece. Corresponding tuning can be stored in a memory or in a RFID chip to ensure high accuracy production process at a very high speed. Depending on the version, following parameters are included:

Features	WAXMAX 4000		WAXMAX 4000T	
	C1 2V STD	C1 2V SL	C1 2V STD	C1 2V SL
Full automatic injection	x	x	x	x
Parameters stored in a RFID microchip for fast production	x	x	x	x
100 memory possibilities to store parameters	x	x	x	x
11 adjustable parameters to optimize wax injection	x	x	x	x
Easy pre-setting for injection parameters	-	-	x	x
Wax melting point adjustable to support different types	x	x	x	x
0.1°C accuracy for pot and injector temperature	x	x	x	x
0.01 bar pressure precision	x	x	x	x
6L wax pot for many injections before wax refill	x	x	x	x
Moisture and micro-bubbles elimination	x	x	x	x
Wax fluidity control	x	-	x	-
Injection accuracy and repeatability	x	x	x	x
Mould positioning through different mould holders	-	x	-	x
Automatic mould positioning in front of the injector	x	x	x	x
Joystick control with B&W display	x	x	-	-
10" touch pad control	-	-	x	x
Remote diagnostics and maintenance	-	-	x	x
Library of standard models for standard products	-	-	x	x
Self-learning functions	-	-	x	x
Statistics per machine, operator and mould (Optional)	-	-	x	x
Optional local cloud for production statistics storage	-	-	x	x

## Accessories

The Waxmax 4000 series is provided with a standard press C1 accepting moulds up to 70mm width. Optional press C2 and C3 can allow the injector to support wider moulds. Please contact our technical staff for dimensions available.

In order to take advantage of Maxmatic injector's technology, we recommend using our special vacuum pump reference MXAI1437 which can reach a 1/1000 bar vacuum.

## Conveyor

For high throughput, the injector Waxmax 4000 can be equipped with a conveyor. In this configuration, we can double the productivity and reach up to 3 000 injections/day with one operator.

Thanks to the RFID technology, each mould is recognized, and corresponding parameters are automatically downloaded in the injector before injection. This technology allows the user to produce different pieces in the same process.



## Training and installation

To take advantage of the high technology provided in Waxmax 4000 series injectors, METACONCEPT Group proposes one training day in its premises to explain all functionalities of the injector as well as the best way to create a mould depending on the type of the piece. On request, this training day can take place on the customer's site. Multi-companies' trainings are also provided; please check with your sales contact.

## Maintenance

The new Waxmax 4000T SL injector touch pad allows advanced equipment supervising operations all over the world through Wi-Fi connexion: remotely help and support for the user, full diagnostic of the injector's parameters, and fast technical solution for the customer.

## Free updates



The new Waxmax 4000T SL range is controlled with an Android™ tablet. New features will be available on the Google Play Store®, enabling to work with the latest software version and new models' libraries.