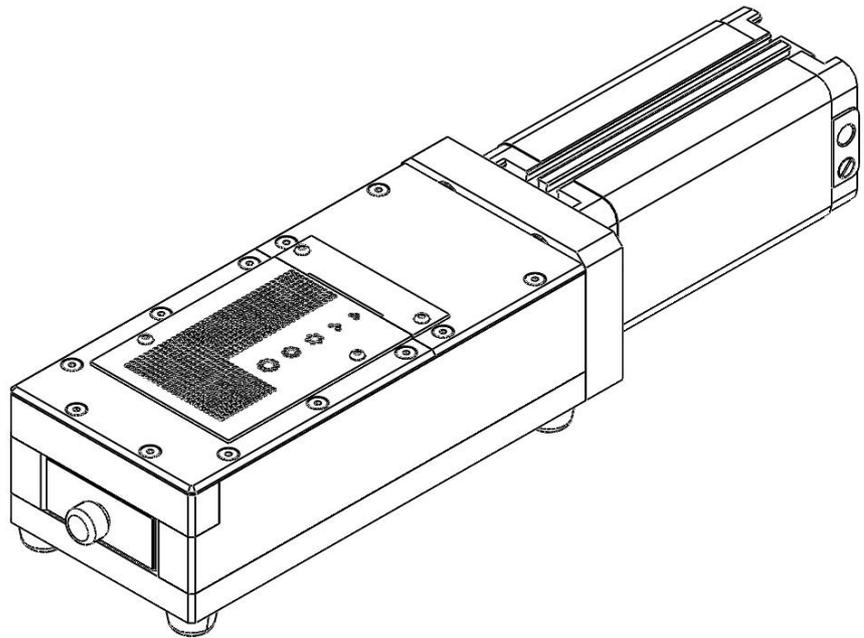
**MMP-10****MMP-15****INSTRUCTION MANUAL**

REV. 00

# CONTENTS OF MANUAL

*This manual contains the following information :*

- Chapter 1 – Page 3 – Security regulations
- Chapter 2 – Page 3 - Machine description
- Chapter 3 – Page 4 – Installation of the machine
- Chapter 4 – Page 4 – How to use the machine
- Chapter 5 – Page 5 – How to change cutting length
- Chapter 6 – Page 5 - Replacement of the cutting plate
- Chapter 7 – Page 6 - Maintenance of the machine
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- Chapter 8 – Page 7 - Technical information
  - Page 8 - Conformity Declaration

## **NOTICE**

**The manufacturer reserves the right to change or modify the information contained in this manual at any time without prior warning.**

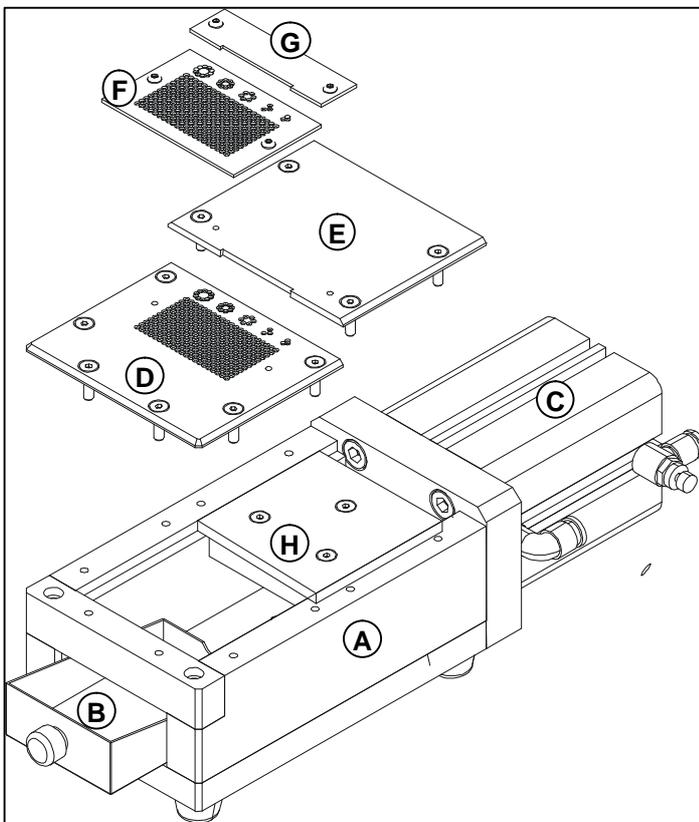
## 1. SECURITY REGULATIONS



Before any kind of adjustment or registration to be performed on the machine, be sure the compressed air supply system is not connected.

**WARNING!!! Piergiacomini Sud S.r.l. refuses all responsibilities for any damage caused to operators if the machine's chassis has been removed or modified: therefore it is strictly forbidden to perform any maintenance or registration while the machine is in use.**

## 2. MACHINE DESCRIPTION



**Fig. 1 – MMP-10**

The machines MMP-10/15 have been specifically designed for cutting loose electronics components of various shape and dimension (transistors, LED, capacitors, resistances etc).

The cutting plate 1 (D) and the mask 2 (F) has holes where the components to cut should be inserted.

The peculiarity of this mask is that it fits a large number of different type of components with a pitch of 1.27 or multiple.

The standard cutting length is determined from the cutting plate (3 mm), but it can be changed adding the masks 1 and 2 ( F & G) supplied with the machine.

The machine is a pneumatic type activated by a command pedal supplied with the machine.

The differences between machine MMP-10 and the model MMP-15 it's only in the exterior dimensions and in the work area.



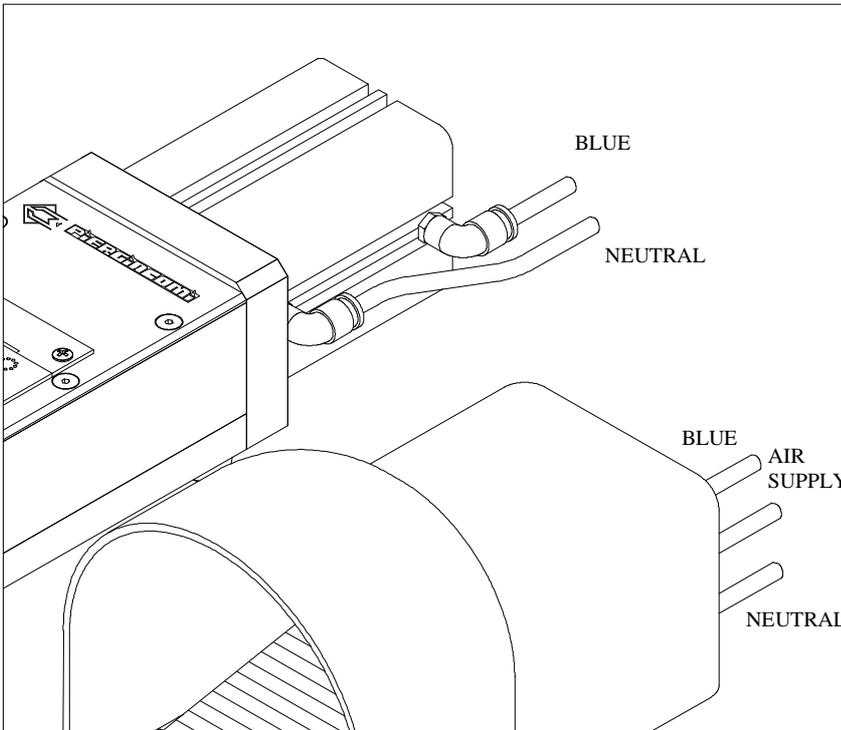
### **WARNING!**

The insertion of components different from the ones mentioned above could cause damages.

Here below, the main parts of the machine as shown in the Figure 1:

- A - Machine body
- B – Case for rests collection
- C - Cylinder ( MMP-10 run 50mm – MMP-15 run 100mm)
- D - Cutting Plate 1
- E - Cutting Plate 2
- F - Mask 1
- G - Mask 2
- H - Cutting blade

## 3. INSTALLATION OF THE MACHINE



The machine is supplied with all the parts already assembled except compressed air connection. The connection of the tube command pedal and of the cylinder have to be done accordingly their colours:

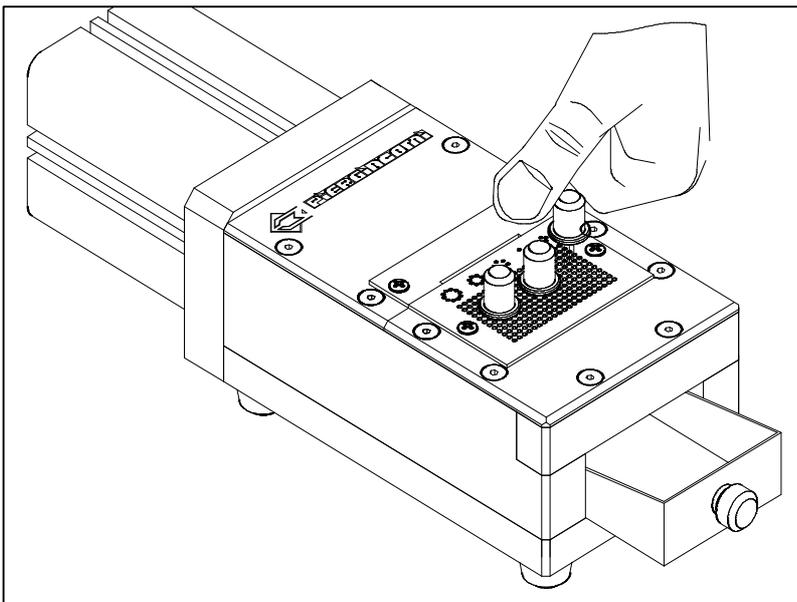
BLUE (input) and NEUTRAL (output) as shown in Figure 2. Connect the air supply tube at the compressed air source.

Put the command pedal in a place accessible only to the operator.

The air supply has to be done with low lubricated air at a pressure of 6 bar.

**Fig. 2**

## 4. HOW TO USE THE MACHINE



Insert one or more components in vertical position inside the relative holes (based on your cutting needs) as shown in Figure 3.

Deeply push and then release the command pedal.

The machine has completed the working cycle.

At this point is possible to extract the cut components and insert new ones.

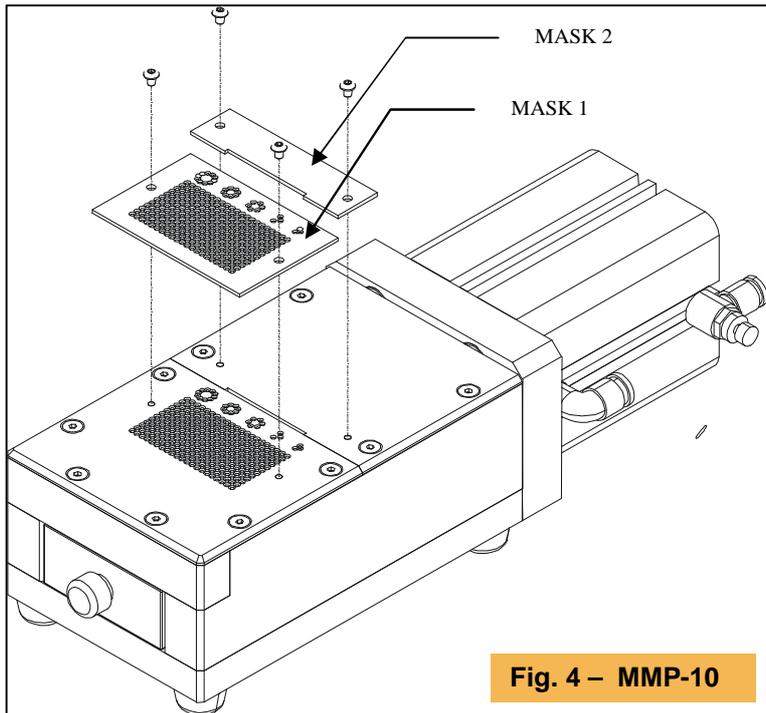


### **WARNING!**

The insertion of components different from those listed on the Chapter 2 could cause damages.

**Fig. 3 – MMP-10**

## 5. HOW TO CHANGE CUTTING LENGTH



Whenever you need to cut a component at a bigger length than the standard one (3 mm), standard masks 1 and 2, (supplied with the machine), can be added by screwing the 4 screws supplied, in order to obtain the cutting height of 4,5 mm (the standard mask supplied is of thickness 1,5 mm).

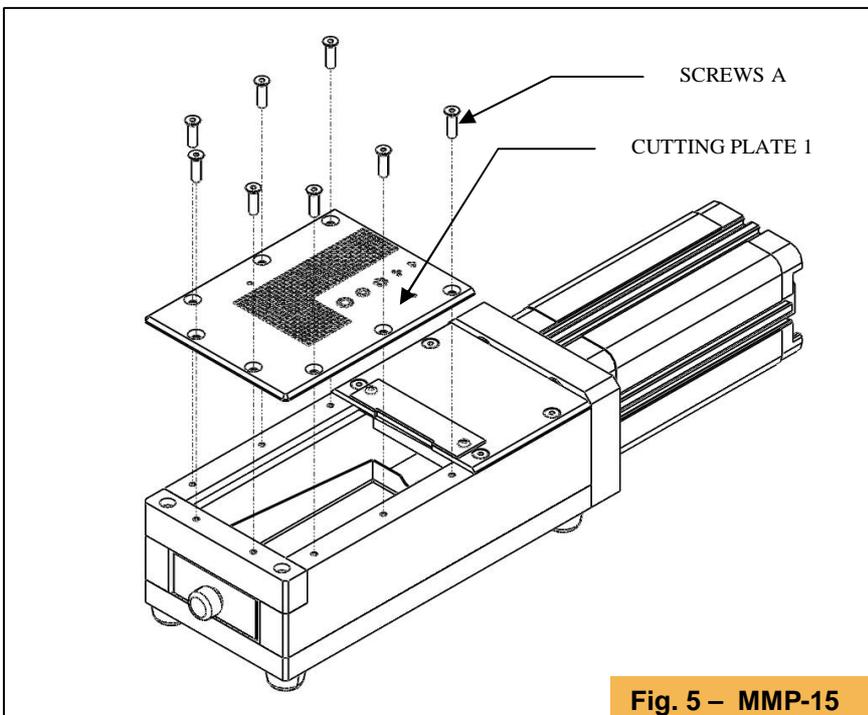
On request we realize masks with thickness suitable for the client's request.



### WARNING!

Don't use screws different and/or longer from those supplied with the machine, as these could stick out from the cutting plate and cause damages to the cutting plate.

## 6. REPLACEMENT OF THE CUTTING PLATE



Whenever you need to cut a component with a smaller length or with a special pitch replace the cutting plate 1 with a special plate.

Follow phases as shown in the Figure 6 :

- 1- Unscrew all the screws A.
- 2- Remove the cutting plate 1 and clean the support surface.
- 3- Put on the new cutting plate.
- 4- Screw all the screws fixing well the plate.



### WARNING!

Respect the safety regulations indicated in Chapter 1.

On request can be realized lower special cutting plates interchangeable with the original one.

## 7. MAINTENANCE

### TO MAKE PERIODICALLY:

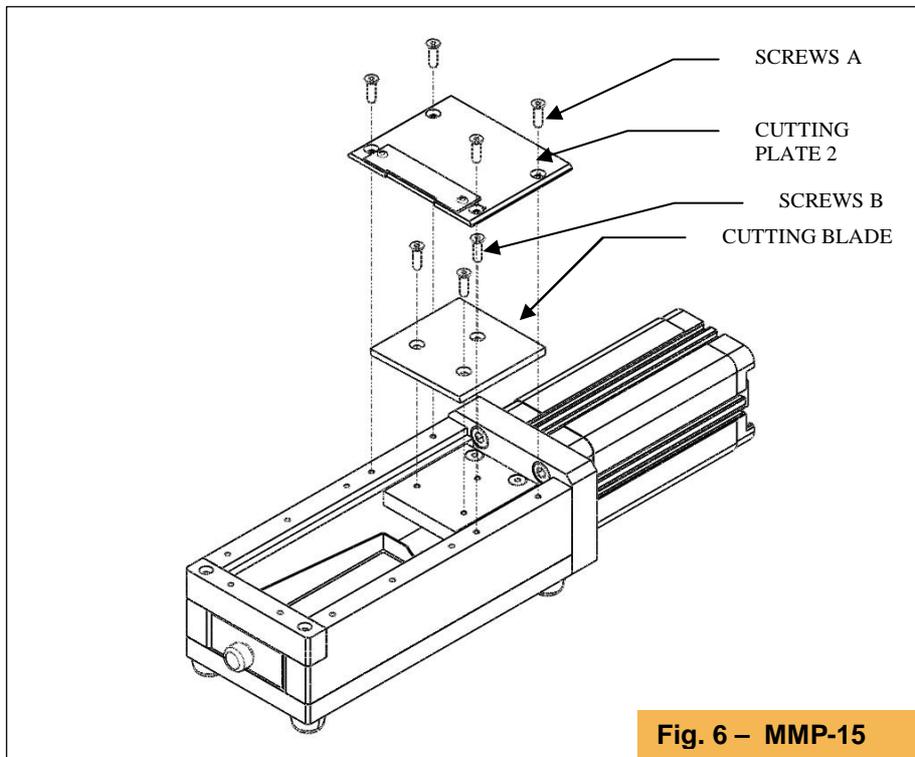
#### OPERATIONS:

- Lubricate the blade by making flow some oil drops through the plate's holes and afterwards making some unloaded operations with the machine.
- General cleaning of the machine (do not use the solvents or corrosive products)

#### CONTROL:

- Check maintenance of the pneumatic system and the fixing of the screws.
- Check maintenance of the cutting plate 1, and in case see the instructions of Chapter 6.
- Check maintenance of the cutting blade, and in case see the instructions of Chapter 7.1.

### 7.1 REPLACEMENT OF THE CUTTING BLADE



If after checking the maintenance status of the blade, the replacement of the damaged parts is needed, please follow the phases here listed:

- 1- Remove the cutting plate 1 as indicated in the Chapter 6.
- 2- Unscrew the screws A.
- 3- Remove the cutting plate 2.
- 4- Unscrew the screws B.
- 5- Provide with a pair of anti-cut gloves.
- 6- Remove the cutting blade.
- 7- Clean the support surface.
- 8- Insert the new cutting blade.
- 9- Screw the screws B
- 10- Insert the cutting plate 2.
- 11- Screw screws A.

#### WARNING!

Respect the safety regulations indicated on the Chapter 1.



## 8. TECHNICAL INFORMATION

### Characteristics of the MMP-10 machine

<b>Weight :</b>	6,5 Kg
<b>Dimensions :</b>	28 cm (p) X 10 cm (l) X 7,8 cm (h)
<b>Storage temperature :</b>	from -10°C to 40°C
<b>Working Temperature :</b>	from 5°C to 40°C
<b>Air Pressure :</b>	6 bar
<b>Work area :</b>	51 x 43
<b>Ø Pins Min. - Max. :</b>	0.3 mm – 1.3 mm
<b>No. Max. of pins to cut :</b>	60 pins for cycle
<b>Production :</b>	3000 pcs/ h

### Characteristics of the MMP-15 machine

<b>Weight :</b>	7,8 Kg
<b>Dimensions :</b>	38 cm (p) X 10 cm (l) X 7,8 cm (h)
<b>Storage temperature :</b>	from -10°C to 40°C
<b>Working Temperature :</b>	from 5°C to 40°C
<b>Air Pressure :</b>	6 bar
<b>Work area :</b>	51 x 93
<b>Ø Pins Min. - Max. :</b>	0.3 mm – 1.3 mm
<b>No. Max. of pins to cut :</b>	60 pins for cycle
<b>Production :</b>	3000 pcs/h

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## CONFORMITY DECLARATION

PRODUCER : **PIERGIACOMI SUD s.r.l.**  
Via 81° Strada, 3 - Frazione Centobuchi  
I-63030 MONTEPRANDONE (AP) - ITALY

MACHINE DESCRIPTION : **MMP-10 / MMP-15**  
Pneumatic machines for cutting electronics  
components.

THE **MMP-10** AND **MMP-15** MACHINES ARE IN CONFORMITY WITH THE ESSENTIAL REQUISITES OF THE FOLLOWING STANDARD OR HARMONISED NORMS AND CORRELATED DIRECTIVES :

DIRECTIVE 98/37/CE

**EN 12100-1** Safety of the machinery. Essential concepts, General design principles.  
Part 1 – Base terminology methodology..

**EN 12100-2** Safety of the machinery. Essential concepts, General design principles.  
Part 2 – Specifies and technical principles.

**EN 294** Safety of the machinery. Safety distance for preventing upper limbs to reach dangerous places.

**EN 1050** Safety of the machinery. Principles for the risks evaluation.

Monteprandone li 08 - 07 - 2008

General Manager

