

Dental burr coding and coating machine MIF-auto



The Dental burr coding and coating machine MIF-auto deposes a color ring code or a coating on dental burrs and implants.

1. Operation:

- The burrs are manually loaded into a palette
- A robotic arm with 3 numerically controlled axis picks the burr from the loading palette and places it into the marking station
- A inking station applies the color or the coating on the burr
- Up to 3 colors can be applied to the burr
- The robotic arm picks the burr from the inking station and places it back to the unloading palette

2. Performance:

- Capacity: up to 10 pce/min (depends of the recipe)

All dimensions and specifications are subject to change without notice.

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3. Features and Benefits:

- The robotic arm is controlled by 3 numeric axis
- The inking station is controlled by 2 numeric axis
- The spindle is controlled by 1 numeric axis
- The pressure in the syringe is controlled by a precision valve
- The vacuum in the syringe is controlled by a precision valve
- Every 6 numeric axis is completely programmable
- Graphical Human Machine Interface (HMI)
- Every recipe can be stored
- Rockwell control
- Rockwell brushless motors
- CE marked
- Safety according to the latest standard

4. Utilities:

- Compressed air:.....300 liter per minute @ 6 bar
- Voltage:..... 3x 380 VAC+N, 50 Hz or 3x 480 VAC+N, 60 Hz
- Current:..... 10 A

5. Specifications:

- Capacity:..... up to 15 pce/min
- Weight:..... 700 kg

6. Options

6.1. MIF module loading

Instead of working with two palettes, the loading palette is replaced by a loading system, compound of a vibration pot and a burr receptacle. The burrs are dropped in bulk in the vibration pot. The vibration pot extract the burr and put it into a loading receptacle. The robotic arm picks the burr from the loading receptacle and places it into the inking station.

6.2. MIF module loading set of change parts

The vibration pot has format parts. This format parts are specific to each type (shape) of burrs.

The MIF module loader tool set is a set of format parts.

6.3. MIF module quality

MIF module quality is a control system to check the quality of the inking process.

After the inking, the quality control system checks if there are no ink drops or streaks. After the inspection the robotic arm picks the burr from the inking station and places it to the unloading palette or in a separate bin, if the burr is not OK.

6.4. MIF module quality settings

For each type of burr and type of coding you need a set of control parameters, called recipe. The

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programming of the recipe can be done by yourself, or by Printing. If the programming has to be done by Printing it will be invoiced.

7. Pictures



Illustration 1: Operator point of view

7.1. Inking station

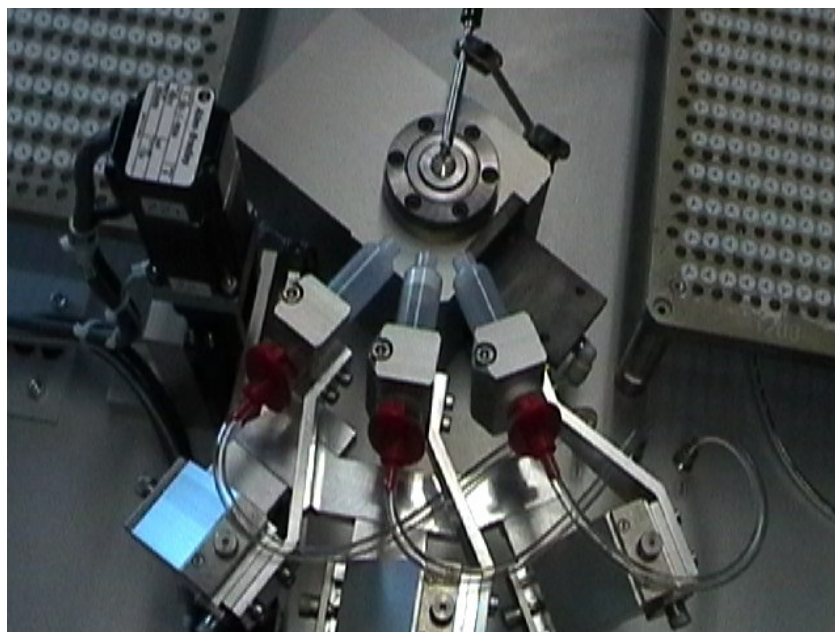


Illustration 2: Ink delivery system (with 3 syringes)

The inking station can hold up to three syringes.

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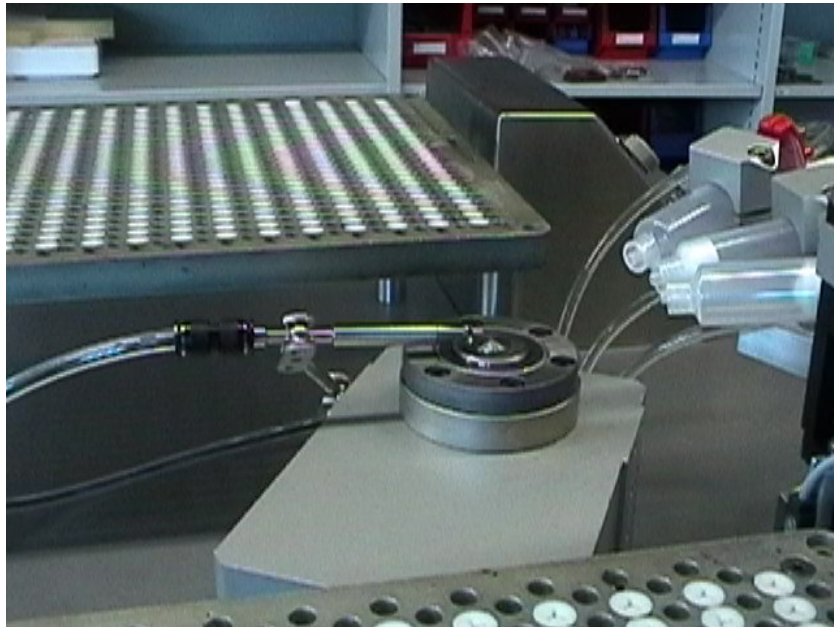


Illustration 3: Inking station with burr detector

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7.2. Robotic arm



On the Illustration 4 you can see the robotic arm, the loading palette on the right and the unloading palette on the left.

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