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## ■ BRAKE PADS CUTTING MACHINE

The brake pads cutting machine is a single-component system consisting essentially of a welded steel base on which are fixed:

- a working bench suitable for shifting brake pads;
- a controlled axis, the one for angular positioning of the brake pad;
- working unit, consisting of a spindle fitted with a cutting disc.

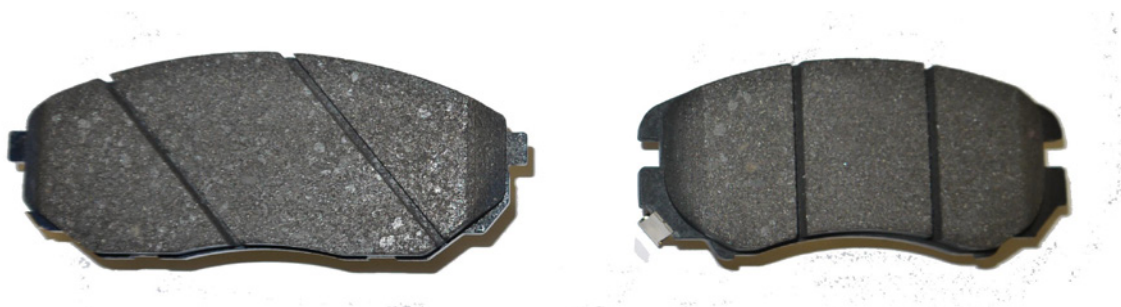


The brake pads are loaded manually by the operator onto a special dedicated template, depending on the kind of pad, with metallic support on the bottom, in order to be loaded on the machine in the exact cutting position. The pads are locked by means of special electromagnets.

To change type a special mask is required for each type to be machined, consisting of a disc shaped like the pad, and appropriately connected for fast positioning on the fixed electromagnets support.

The pads are unloaded manually by the same operator.

The purpose of the machine is to run parallel and oblique cuts on the brake pads and also machine “J” shaped chamfers on the brake pad, mounting a special shaped grinding wheel and positioning the cutting head in the desired position.



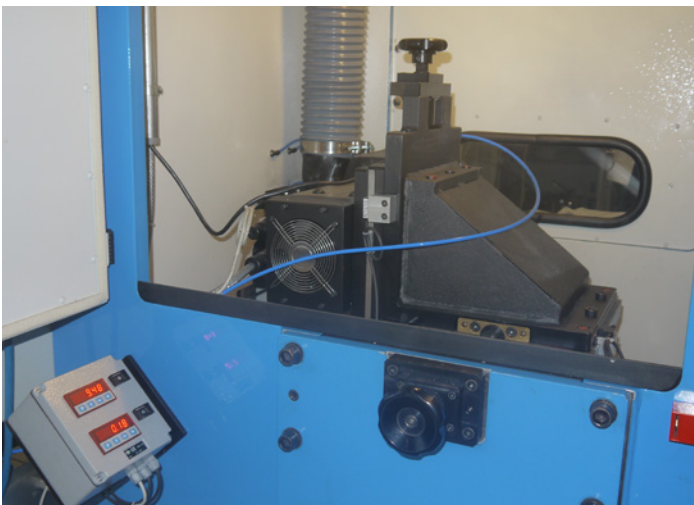
*Examples of machining*

## ■ BRAKE PADS CUTTING MACHINE

### Cycle // sequence of operations

- pad manually loaded in specific template;
- brake pad locked with the aid of the electromagnet;
- door closed– translation authorized;
- translation of linear table towards the cutting head;
- machining (cutting)
- linear table returns to starting position, passing under the cutting head again;
- door opened- electromagnet unlocked;
- pad unloaded manually;

**Productivity:** 3 pcs per minute (Productivity valid only in case the operator loads / unloads and starts cycle 4 “)



*Combined system for adjusting the position of the electric head*



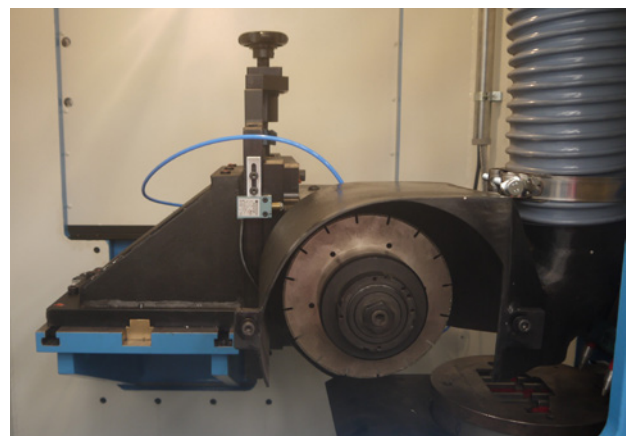
*Programming Keypad*

### The grinding head group consists of the following main parts:

- combined system with horizontal and a vertical slide with the possibility to be angularly adjusted with maneuvering handwheels.
- ability to view the position of the head by magnetic readers or with tachometers.
- Electric spindle “HSD” 4-pole - 8.1 kW - 380 V, attached to the faceplate of the head, on which to mount the diamond wheel;

The work area of the electric head is closed and isolated in a suitable compartment maintained in depression so as to allow aspiration of powders.

The angular position of the element will be managed by the Megatorque Motor NSK system including manual programming keypad.



*Cutting head with adjustable height*