



T H I N K  
C R E A T E  
A U T O M A T E

C A T A L O G U E

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## ROBOTIC CHAMFERING MODULE

The robotic chamfering machine is a machine inserted at inside a safety protection cabin, equipped with dust extractionhoods. It is essentially composed of an electro-welded steel base on which are fixed:

- a FANUC robot with 6 axis for gripping and machine the brake pads;
- a unit composed of an electric head on which is inserted the grinder for chamfering;
- a dispensing unit for brake pads;
- preparation for the electric head to cut the brake pads



The brake pads which feed the machine all arrive in the same position through a conveyor, which, through an automatic dispenser, feeds the robot.

A single pad is released from the dispenser and stops on a template.



*Item to be machined*



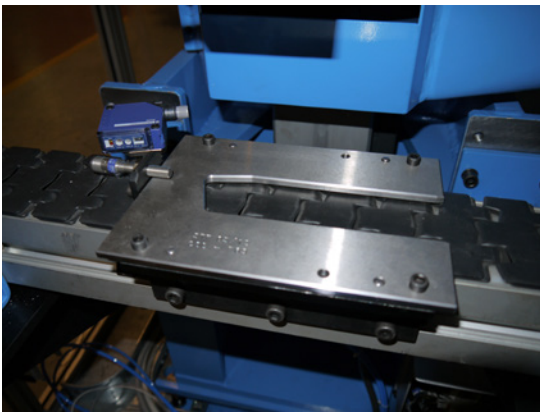
*Item machined*

## ROBOTIC CHAMFERING MODULE

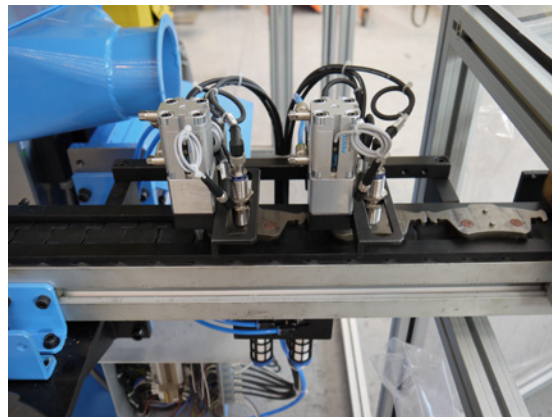
The robot picks up and locks the brake pad by means of a suction system and a pneumatic gripper. According to the recipe previously set by the operator on the operator panel the robot chamfers the pad.

### Cycle // sequence of operations

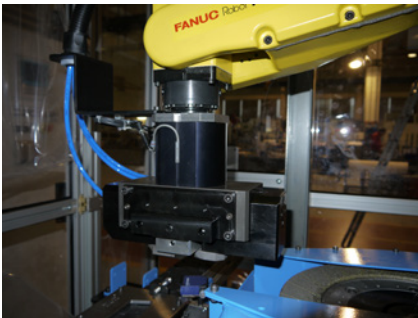
- the pad is released by the dispenser;
- the pad is locked in the robot's gripper by suction pads;
- the robot moves the gripper towards the grinder;
- chamfering (chamfered on one side);
- the robot rotates the wrist 180° to chamfer the other side
- the robot moves towards the conveyor;
- the pad is released onto the conveyor;



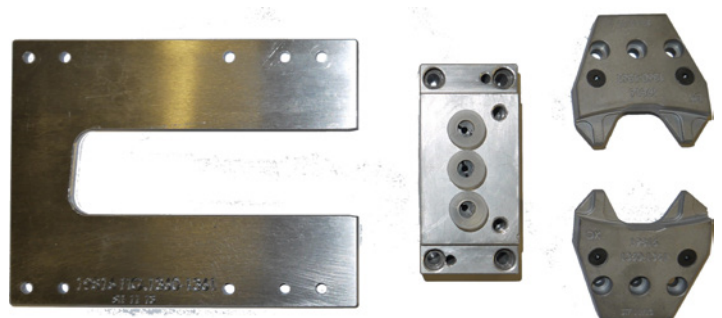
*Pads stopping template*



*Brake pads dispensing group*



*Pads gripper*



*Kit for changing type*

**Productivity:** 10/20 pieces per minute (Productivity is based on the characteristics of the brake pads).

**The gripper group (change type), for each type of pad is composed of the following parts:**

- Template for stopping on the conveyor
- Suction support block
- Right and left Jaw

The working area of the grinding wheel is closed in a hood in order to allow the aspiration of dust.