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C R E A T E
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C A T A L O G U E

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■ MULTI-PURPOSE BEVEL-GRINDING MACHINE

The multi-purpose bevel-grinding machine for laboratory use is a self-contained system, substantially consisting of an electrowelded steel bed, where the following is fixed:

- One worktable suitable for brake pad transfer
- One working unit consisting of a power spindle, which the grinding wheel has to be coupled to.



The brake pads are manually loaded by the operator to a suitable template, dedicated to that specific pad typology, with metal support on the bottom and so positioned as to be loaded onto the bevel-grinding machine in the right position.

The pads are locked by suitable electromagnets.

When the pad type has to be changed, a template corresponding to the pad type to be machined has to be used; it consists of a disc having the same shape as the pad, properly fitted for a rapid positioning on the fixed support holding the electromagnets.

The brake pads are manually unloaded by the operator.

Function of this machine is chamfering parallel and radial bevels on the brake pads; if necessary, first the horizontal surface of the pad is ground.



Item to be machined



Item machined

■ MULTI-PURPOSE BEVEL-GRINDING MACHINE

Operating cycle // sequence

- Manual loading of the brake pad onto a matching template
- Pad locking by means of electromagnets
- Linear table translation towards the grinding head
- Machining (bevel on one side of the pad)
- Return of the linear table to the starting position by feeding again underneath the grinding wheel
- Manual unloading of the brake pad
- Once the whole brake pad lot is machined, the pad template has to be turned by 180° in order to chamfer the pad on the opposite side; then the above-mentioned steps are repeated.

Output rate: 3 pcs per minute (This output rate may be confirmed only on condition the operator loads/unloads the workpiece and starts the cycle within 4”).



Combined system for setting of the electric grinding head position

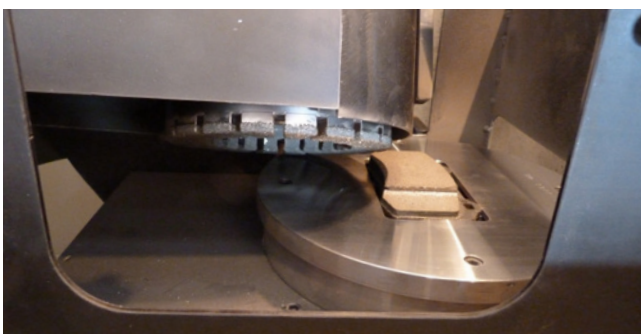


Electric grinding head

The grinding head unit includes the following main components:

- Combined system consisting of one horizontal and one vertical slides, with angle adjustment possibility by means of handwheels;
- Possible head position visualization through magnetic readers or revolution counters;
- Power spindle “Omlat”, 2-pole, 380 Volts, secured to the head coupling plate, where the diamond grinding wheel has to be mounted.

The electric head working area is closed and insulated in a suitable pressurized zone, vacuum held to assure dust suction.



Brake pad on process