

◀ WATCHMAKING / OTHER ▶



ROTOPAL 500

Complete machining solution for watchmaking



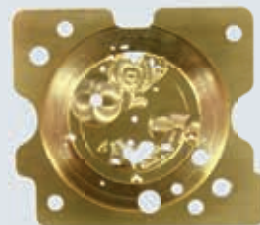
PRECISION MACHINING FOR THE MOST DEMANDING PARTS ON THE MARKETPLACE

The productivity and precision of the **ROTOPAL 500** provide the important criteria needed in competition.

To help you stay competitive with timepieces machining, EMISSA offers a complete machining solution with the **ROTOPAL 500**. It allows you to finish the pieces on the machine. The cycle time is very competitive thanks to the possibility of having a load/unload in masked time.

With ROTOPAL 500, it's possible to realize all types of machining :

- Countouring
- Tapping NC
- Drilling
- Chamfering
- Countersinking
- Boring
- Linear and Circular Interpolation
- Turning



Pieces made on ROTOPAL 500 :

Turntables of watch movements, bridges, dials, oscillating weights and other small components of the movement...



SIMPLICITY AND FLEXIBILITY

The **ROTOPAL 500** is a standard machining and micromachining system equipped with **4 TRIAX 100** units. Digital turntable with floating palletization provides tight settings and positional accuracies with the HSK system, less than a 3 microns target.

High added value is provided by **PIBOMULTI S.A.**, recognized by its spirit of innovation, exceptional skills and advanced manufacturing techniques. It is the ideal partner for the **ROTOPAL 500**; incorporating vertical and horizontal multiple spindles solutions, providing end users critical advantage in terms of simplicity, efficiency and high productivity.



POWERFUL 4th AXIS

The 4th axis spindle fixed under the base of TRIAX module shows improved performances in terms of rigidity and precision, at the range of micron.

The C axis offers two distinct modes of operation :

- High positioning accuracy, followed by low-speed path.
- Ability to perform turning work up to 6000 rpm.

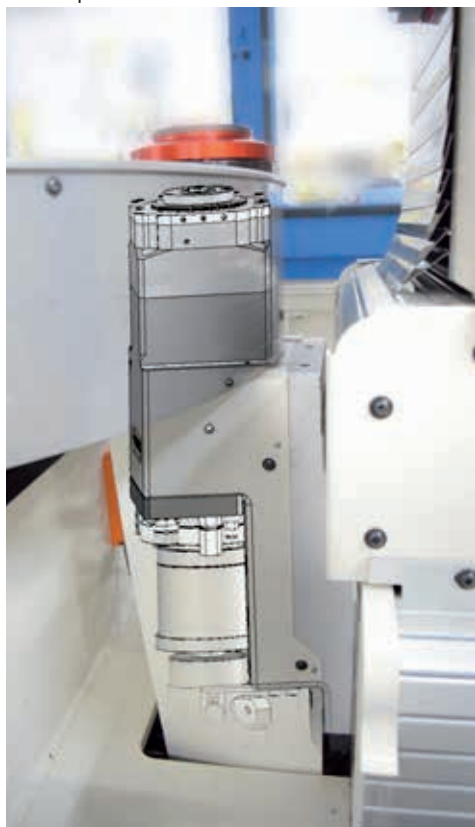
PERFECT ACCESSIBILITY

Three openings around the machine facilitate access to different machining stations.

Easy access allows quick settings and tools or series changes to increase production.

AUTOMATIC LOADING

The loading / unloading of the pieces is handled by a robot of the highest quality. Compact and powerful; this versatile industrial robot with six axis substantially reduces the loading and unloading cycles of the machine.



TECHNICAL DATA

Standard machine

TRIAX 100

Strokes X / Y / Z	120 / 130 / 150 mm
Speed X / Y / Z	20 m / min
Acceleration X / Y / Z	5 m/s ²
Pallets repeating accuracy	0.003 mm
Application domains	Watchmaking / Others
Spindle speed	40 000 rpm
Numeric CN	FANUC 31i

Options

4 th axis
Loading robot (with vision system)
Measurement rules HEIDENHAIN
Numeric CN SIEMENS 840D

Dimensions L x l x h	5427 x 3852 x 2250 mm
Power supply (Europe)	400 V AC / 63 A / 50 Hz
Total weight	8 tons



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IMPLANTATION

