

◀WATCHMAKING / MEDICAL▶



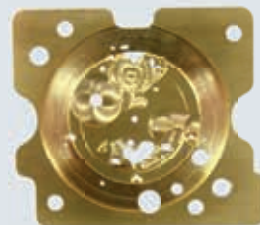
ROTOPAL 200

Complete machining solution with pallet change.



HIGH PRECISION HIGH PRODUCTIVITY

The ROTOPAL 200 is a high precision machining and micromachining machine with 4 axis. It's mainly dedicated to the machining of high-value, complex or high precision parts. With ROTOPAL 200, you are guaranteed to have an exceptional quality and high dimensional accuracy, required criterias by medical industry and the watchmaking / jewelry sector.



Pieces made on ROTOPAL 200 :

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

TOOL CHANGER



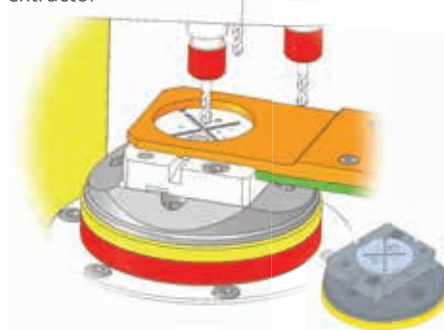
Tool changer 30 or 50 tools



MACHINING STATION

Machining on fixed station

Settings with central clamp system and extractor



Machining on turning station

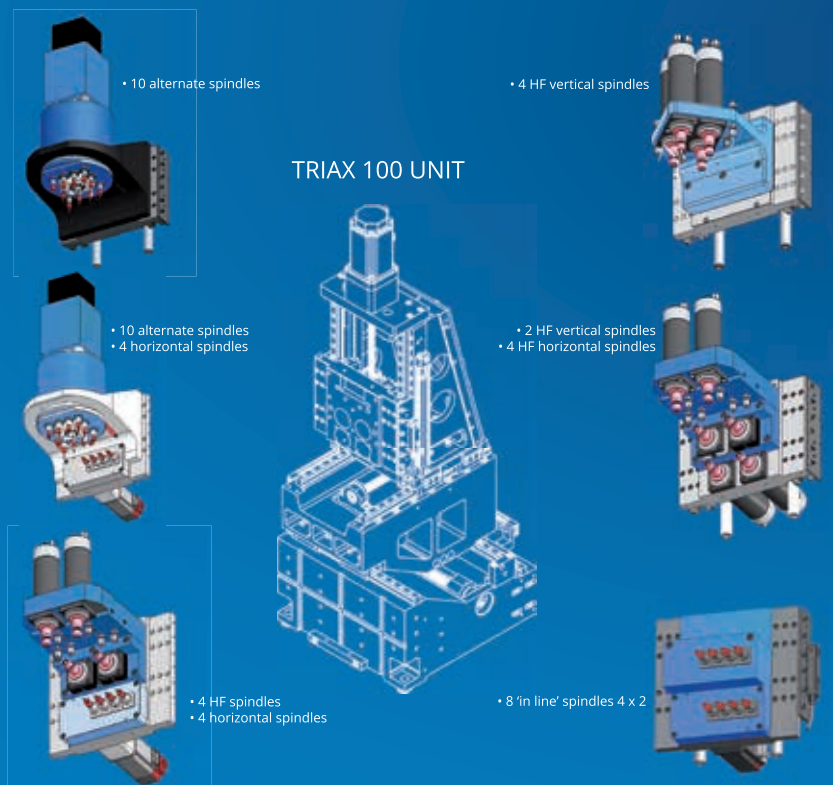
Settings with tension clamp system and extractor



BUILD YOUR MACHINE TO SUIT YOUR NEEDS

The ROTOPAL 200 is equipped as standard with a machining unit 'TRIAX'. This modular unit is extremely rigid and precise to the micron. It allows to integrate many options such as alternate or horizontal spindles.

The strong base of the ROTOPAL 200 provides stiffness and tightness. Many openings allow you to access the internal components for maintenance or adjustments.



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.

THE PALLETIZATION

The digital turntable 180° with floating palletization ensures accuracy of settings thanks to HSK system, in less than 3 microns target.

Flexibility is possible in the choice of tightening : bits, pliers, plating, clamping, vacuum.

The palletizer allows loading and unloading in masked time. It's possible to incorporate an optional loading robot.

HIGH SPEED SPINDLES

High speed spindles are powerful and very accurate.

Ideal for a high quality and efficient cutting performance, it provides speed up to 40 000 rpm and high performance with their synchronous motors.

- The system is HSK 40 / HSK 32 or ISO 10 modular with a quick load.



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	10 m/s ²
Pallets repeating accuracy	0.003 mm
Application domains	Watchmaking / Medical
Spindle speed	40 000 rpm
Numeric CN	FANUC OiMD

Integrated 4th axis

Rotation speed max	6000 rpm
Torque in slow rotation	9.4 Nm
Divisor	360 000 positions

Tool changer

Number of tools	30 / 50
Tool changing	Modular system with exterior settings

Options

Loading robot

Dimensions L x l x h	2120 x 1470 x 2470 mm
Power supply (Europe)	400 V AC / 63 A / 50 Hz
Total weight	4 tons



EMISSA SA

Jambe Ducommun, 18 • 2400 Le Locle • Switzerland
 Tel: +41 32 933 06 66 • Fax: +41 32 933 06 60 • info@emissa.com
www.emissa.com



IMPLANTATION

