

MACHINES AND EQUIPMENT

We focus on technological innovation and invest in extremely high-performance equipment :

WIRE EROSION IN WATER BATH

- > 1 AgieCharmilles CUT 3000 with rotary indexing table JauchSchmider - L500 x I350 x H256
- > 1 AgieCharmilles 6050 TW - L630 x I400 x H160
- > 1 Charmilles 4030 SI- L450 x I320 x H240
- > 3 Charmilles 2030 SI - L320 x I220 x H116
- > 1 Rotary spindle System 3R
 - > Machining tolerance $\pm 0,002$ mm
 - > Ra 0,10
 - > Materials machined : all electrical conductor materials

WIRE EROSION IN OIL BATH

This technology allows parts to be machined for the medical and watchmaking fields, in order to avoid material corrosion.

- > 2 Charmilles 2050 TWO in oil with robot System 3R 12 positions - L320 x I220 x H160
 - > Machining tolerance $\pm 0,001$ mm
 - > Ra 0.10
 - > Materials machined : all electrical conductor materials except for aluminium

EDM DIE-SINKING

- > 1 AgieCharmilles FORM 3000 VHP with robot System 3R WPT 1+ - L600 x I400 x H500
- > 1 AgieCharmilles FORM 2000 with rotary indexing table JauchSchmider - L350 x I250 x H350
- > 1 Charmilles FORM 20 - L300 x I250 x H345
 - > Machining tolerance ± 0.005 mm
 - > 4 axis machining
 - > Materials machined : all electrical conductor materials except for aluminium

HIGH SPEED DRILLING

- > 1 AgieCharmilles DRILL 20 CN drilling option $\varnothing 0.15$ mm - L300 x I200 x H300
- > 1 Charmilles DRILL 11 drilling option $\varnothing 0.15$ mm L300 x I200 x H300
- > 1 Charmilles HD8 - L350 x I250 x H350
 - > Spark drilling
 - > High speed drilling of all materials $\varnothing 0,2$ to 3mm
 - > Materials : steel and tungsten carbide

HIGH SPEED MILLING

Machining of parts in all materials.

- > 2 MIKRON MILL S 400 U 5 axis spindle 42 000 r.p.m. with automatic feeder system System 3R 12 positions - Tool magazine : 68 tools L500 x I240 x H360
- > 2 MIKRON HSM 400 U 5 axis spindle 42 000 r.p.m with automatic feeder system System 3R 48 positions and 18 positions - Tool magazine : 36 and 68 tools - L400 x I240 x H350
- > 1 MIKRON HSM 400 3 axis spindle 42 000 r.p.m with automatic feeder system EROWA 7 positions Tool magazine : 36 tools - L400 x I450 x H350

TURNING

Machining of parts by a digitally controlled lathe.

- > 1 SOMAB OPTIMAB 350 V AERO TD 2 axes $\varnothing 410$ x L60
- > 1 SOMAB OPTIMAB 350 2 axes + axe C- $\varnothing 410$ xL600

HIGH PRECISION GRINDING

Flat and cylindrical grinding of parts made of steel and tungsten carbide.

- > 1 Flat grinding JONES & SHIPMAN 624 Easy L600 x I200 x H400
- > 1 flat grinding JONES et SHIPMAN TECHMASTER 634X - L600 x I300 x H605
- > 1 flat grinding JONES et SHIPMAN 540 X - L450 x I150 x H457
- > 1 Cylindrical grinding JONES & SHIPMAN Suprema 650 Easy - L650 x $\varnothing 320$
- > 1 cylindrical grinding LIPEMEC RC 250 L250 x I200 x H100

MEASURING EQUIPMENT

- > Optical and touch-probe measuring using MicroVu VERTEX 311 UM
- > 3D TESA micro Hite
- > TESA measuring arm
- > TESA probe
- > HEIDENHAIN probe
- > TESA measuring column 350+D
- > Microscope MITUTOYO
- > Profile projector TESA
- > Microscope with incorporated digital camera NM1 GARANT

PASSIVATION

- > Parts made from stainless steel are passivated. This is particularly important for the medical industry.

POLISHING

Polishing of flat parts.

- > 1 polishing machine LAM PLAN MM 8027

MASS FINISHING

- > 1 Machine OTEC ECO Series

LASER MARKING

We guarantee the traceability of our parts thanks to laser marking.

- > 1 laser marking machine SIC MARKING L-BOX 20W



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