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 ±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 ±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 Ø 0.15 mm - L300 x I200 x H300
- 1 Charmilles DRILL 11 drilling option Ø 0.15 mm L300 x I200 x H300
- 1 Charmilles HD 8 - L350 x I250 x H350
  - Spark drilling
  - High speed drilling of all materials Ø 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 Ø 410 x L60
- 1 SOMAB OPTIMAB 350 2 axes + axe C-Ø 410xL600

**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 Ø 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
- HEIDENHAUIM 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