

SMALL-SCALE
MACHINING
FOR YOUR
LARGE-SCALE OBJECTIVES



AT TAVADEC, WE PRODUCE ULTRA-PRECISION MICRO PARTS

Our well-honed technique and heritage stems from our experience as a supplier of high-end watch movement components for many of the world's most renowned Swiss timepieces.



SYNERGY OF TECHNOLOGIES

In addition to our highly sophisticated multi-axis CNC machines, we strategically maintain traditional cam-operated automatic machines. We purvey a modern, highly versatile and diverse operation in a state-of-the-art production facility. **Our unique combination of in-house machines, specialized custom lathe tooling and technical experts enable us to deliver our hallmark quality competitively and quickly to customers.**

QUALITY IS OUR UNCHANGING GOAL



Through our well-established network of trusted partners, we control the complete manufacturing process to produce your parts. Our comprehensive services include project management and technical expertise from supply through delivery. We provide material and treatment certificates to guarantee the traceability and caliber of our products. **Our quality management system is certified by Bureau Veritas in accordance with the ISO 9001 standard.**



ZERO CO₂ EMISSIONS

Our corporate philosophy embodies initiatives to promote care of the environment. Our state-of-the-art facility houses a heat recovery system to warm our administration areas and supply our domestic hot water requirements. Our on-site water treatment plant recycles and reduces water consumption and waste. **At least 25% of our energy requirements are generated through the use of 450 m² photovoltaic solar panels.**

DIVERSITY OF APPLICATIONS

We specialize in the art of micro-diameter bar turning and parts finishing. Our in-house technical expertise and machining skills equip us to produce parts up to 12mm for a wide range of applications in a variety of industry sectors.

WATCHMAKING

The production of high quality watchmaking components for the world's most accurate watches requires us to maintain total command of all aspects of our operations. This control enables us to meet the aesthetic and dimensional requirements of the largest and most precise Swiss watchmaking brands.



MACHINED MATERIALS

Steel / Brass / Aluminium / Stainless Steel / Beryllium Copper / Bronze / Titanium / Arcap / Synthetic materials / and other materials.

CONNECTOR TECHNOLOGY

Uniquely shaped and highly precise micro-parts are used nowadays in nearly every digital communication device. Such parts are also used in a wide range of other industrial sectors, including fiber optics, aeronautics, instrumentation and the automotive industry.



MULTI-AXIS CNC OR CAM MACHINING

Types of controlled operations

Threading / Lateral drilling / Milling / Long drilling / Off-set tapping / Tapping / Off-set drilling / Polygonal machining / Knurling / Thread whirling / Gear hobbing / Thread chasing / Stamping / Fine turning / Diamond machining / Pivot polishing / Eccentric turning.

INSTRUMENTATION

All mechanisms using micro-components must consistently deliver in terms of reliability and precision over long periods of time.



ULTRA-PRECISION GEAR HOBGING

As masters in micro-gear hobbing, we manufacture complete parts on multi-axis CNC machines, or on specialized or dedicated second-operation machines.

We produce hob spur and helical pinions, splines, straight bevel gears, and crown face gear wheels by either generative or single index cutting methods.

MEDICAL

We meet the highest criterion set by our customers who service the medical sector. Our rigorous operational standards allow us to ensure perfect traceability of all parts produced by our organization.



GLITTERING PARTS

Surface Finishes

Our broad range of partnerships coupled with our own infrastructure, position us to skillfully perform a variety of finishing operations including decoration, flat polishing, round end polishing, round head polishing, black polishing, bulk polishing, rolling, outer diameter chamfering, slot chamfering, and deburring operations of micro-parts. We further manage all facets of thermal and galvanic treatments.

OUR PROUD HERITAGE

Founded in 1988, the company's development strategy was instituted by founder, Jacques A. Monnin. Sons Cédric and Didier joined him a decade later in 1998 and took over management in 2003. All three have made significant contributions to the growth and expansion of the company during their tenures.



TAVADEC SA is located in the Bernese Jura, the cradle of precision machining and Swiss watch making in Switzerland. This region is reputed to be one of the world's top micro-parts manufacturing centers.

Justifiably, many of the most prestigious Swiss watch manufacturers and other highly regarded companies from other industries rely on us as a leading ultra-precision micro-parts supplier.

Geographically at our disposal is a precious network of trustworthy partners spanning all sectors of the micro-technology field, including staff training facilities, materials suppliers and manufacturers of machines, equipment, tools and components. This extraordinary concentration of expertise guarantees we have the specialized skills necessary to meet the highest technical challenges of our clients.

We are endowed with a dedicated, highly qualified and stable workforce of masters who possess a comprehensive knowledge and passion for their trade.

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