

# TESTING & RESEARCH

## MACHINING STRATEGY CONSULTING

**PRACARTIS**  
SWISS

*PRACARTIS Group*



### OUR PARTNERS

Robotmaster

Mastercam



HALDER

Digital Way Group  
TOOL WEAR & BREAKAGE MONITORING SYSTEM

STÄUBLI



## Research & Development department and test center

*dedicated to your machining strategy*

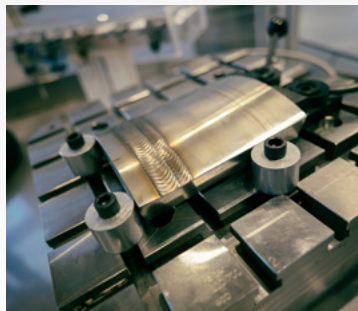
As a partner of companies, engineering schools and university laboratories, and involved in numerous European R&D projects, the PRACARTIS Group's Research & Development department is committed to a **voluntary and continuous approach to innovation**, in response to **the need to improve machining processes**.

PRACARTIS Swiss relies on a **fully instrumented technical test center**, open to its customers. Its equipment enables us to measure cutting forces, vibrations and surface finish in all the most complex machining situations

- Multi-layer assemblies
- Hard metals and refractories
- Alloys
- Ceramics

*PRACARTIS Swiss is the Swiss subsidiary of the PRACARTIS Group : nearly 160 technicians, engineers and administrative staff are mobilized on a daily basis to support you and develop precision machining solutions tailored to your needs.*

- AVAILABILITY
- PROXIMITY
- REACTIVITY



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# INCREASE PRODUCTIVITY & IMPROVE PERFORMANCE



In addition to our recognized expertise in the design and implementation of global high-precision machining solutions, the PRACARTIS is a **major player in the search for material and strategic innovation** in an ever-expanding range of industrial sectors.

**Improving machining performance is the leitmotiv of PRACARTIS swiss to enable its customers to gain in productivity.**



## Our equipment

**MACHINING OPERATIONS** : Deckel 3-axis CNC machining center • FANUC RoboDrill 3-axis D21LiB5 PLUS • DMG-MORI DMU-50 5-axis continuous • Robotized finishing cell equipped with Stäubli TX2-90 • DATRON M8Cube

**ACQUISITIONS** : 2 Kistler 9255-C 6-component boards • WITIS and Cut Optimizer® acquisition software • DigitalWay WattPilote power meter • CTC tri-axis accelerometer • HBM multi-component force transducers

**VISUALIZATION & MEASUREMENTS** : Binocular with 4K camera • Dimensional measurement & surface finish

## Our achievements

Definition of tests, protocol and resources • Tests to fine-tune tool geometry • Tool/material pairings to determine cutting parameters, taking into account material, tool and lubricant • Tool life tests • Definition of machining strategies and product, tool, material and lubricant tests • Determination of machining range • Manufacture of prototypes • Supply of a full test report



Aeronautics



Space



Automotive



Watchmaking



Medical



Dental



Digital