

# Company presentation

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6648 - Minusio  
[www.rudolfbrugger.com](http://www.rudolfbrugger.com)

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# Rudolf Brügger SA

Your micro-mechanic specialist

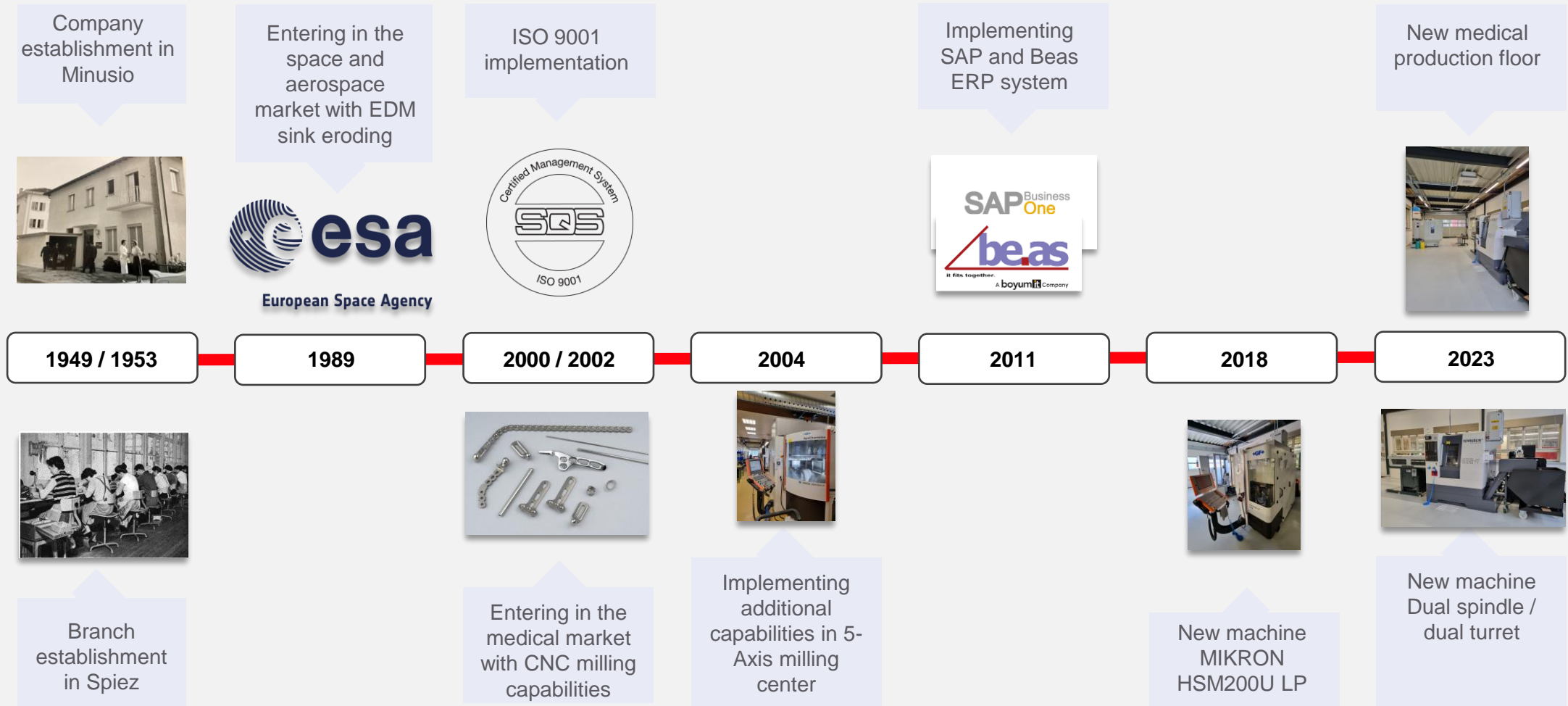
- **Leading Swiss company** in the planning and production of high precise and very complex **micro-mechanical components** of **extra hard materials** and **sub-assembly**
- Unique capabilities and high-end machinery that enable **miniaturization**, **high precision** and outstanding **quality**
- Family owned business established with **34 employees** at **2 operating sites in Switzerland**

## Roadmap

- ✓ 2002 – ISO 9001:2000 Certification
- ✓ 2011 – SAP B1 / Beas
- ✓ 2018 – New 5-axis CNC milling machine Mirkon HSM200U LP
- ✓ 2023 – New turning machines Schaublin 632 Y
  - New medical production floor
  - New 3D Laser Scanning Microscope

# Rudolf Brügger SA

## Milestones



# Rudolf Brügger SA

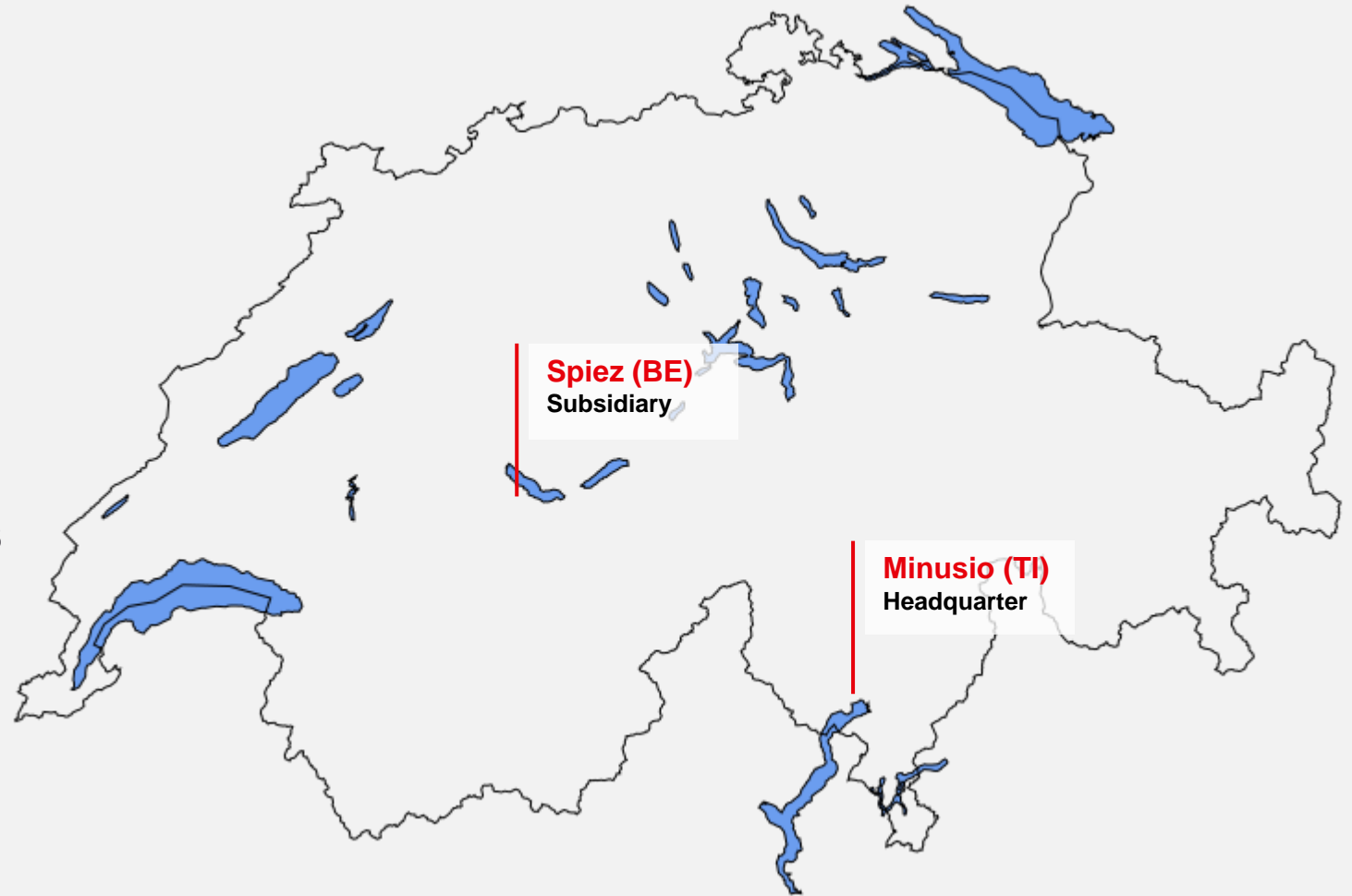
Swiss operating sites

## Minusio

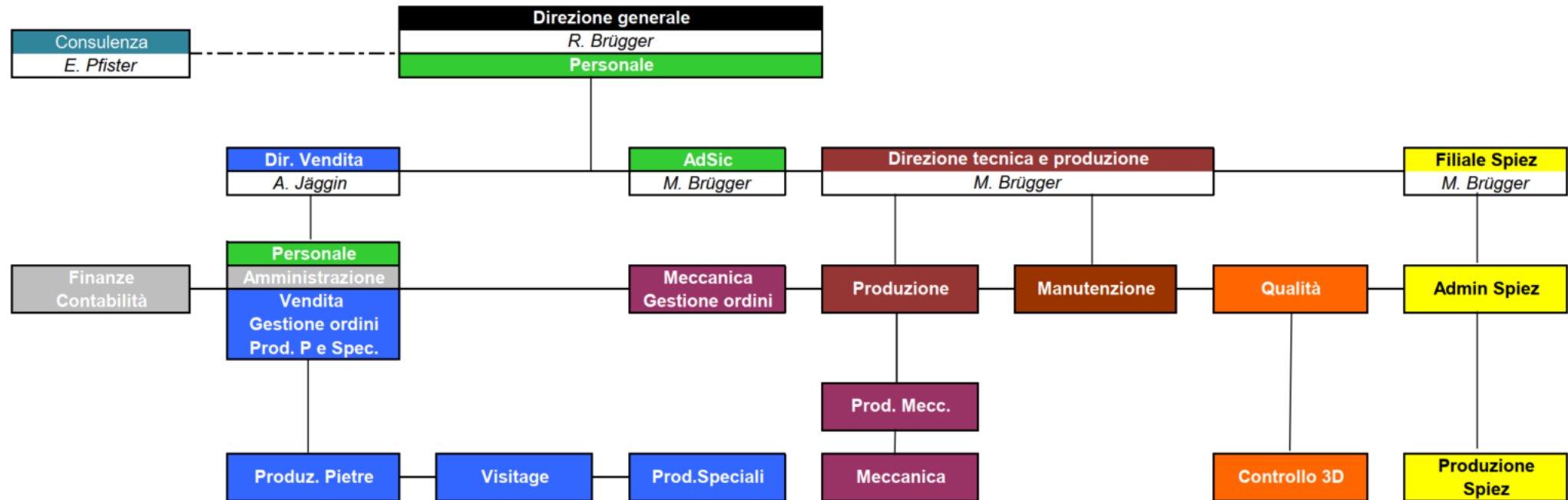
- Headquarter
- Customer Service
- Machining Competences Centre
- Engineering & Assembly

## Spiez

- Manufacturing Subsidiary
- Competences Centre for Honing & Turning of extra-hard materials



# Organization chart



# Quality Management

## Continuous improvement and Certificates

### Certification

- ISO 9001:2015
- Lead free and RoHS compliant



### Awareness

Know and predict the risk

### Diversification

Availability of a diversified machine park for new or traditional technologies

### Cooperation

Active and ready to collaborate with the customer in the production of products in compliance with the terms

### Innovation

Technologically innovative systems and personnel trained in the new working procedures

### Versatility

A lean and versatile organizational structure to the benefit of our customers

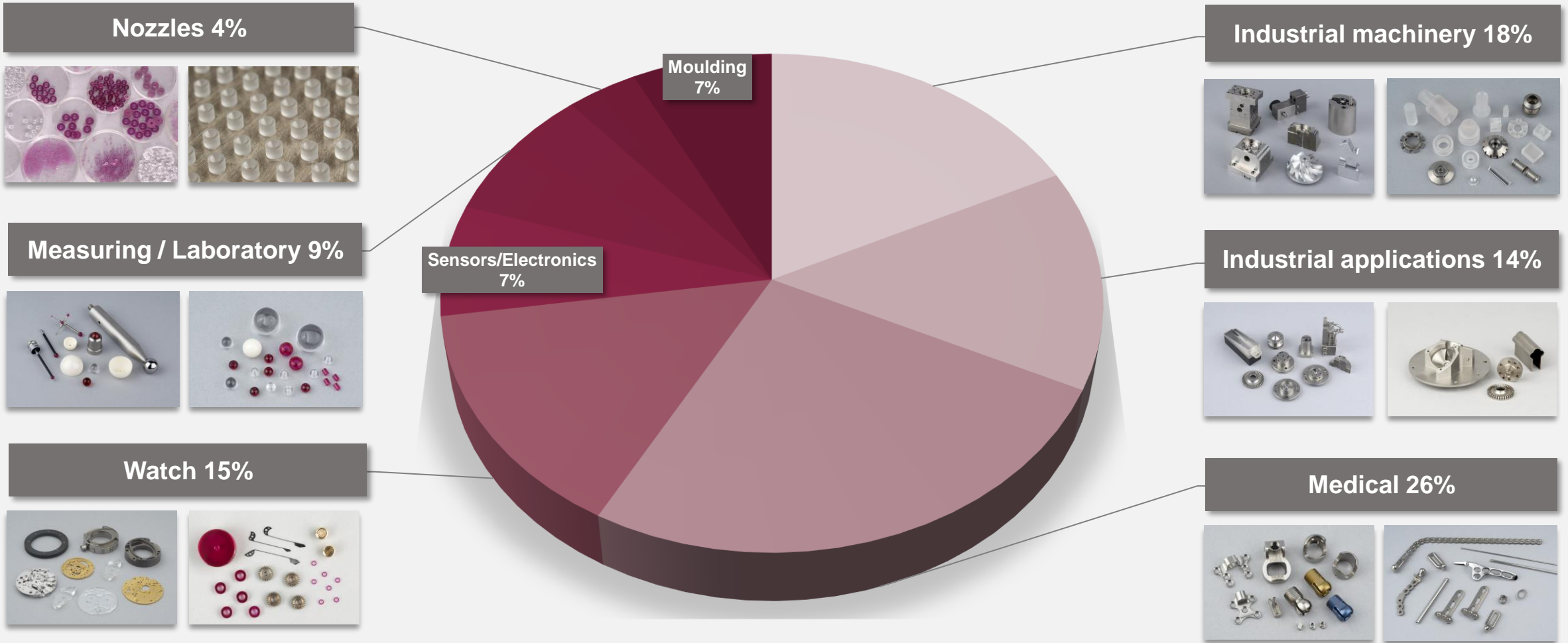
### Quality assurance

Guarantee that our product has been structured e supported by quality standards applied to ISO standards



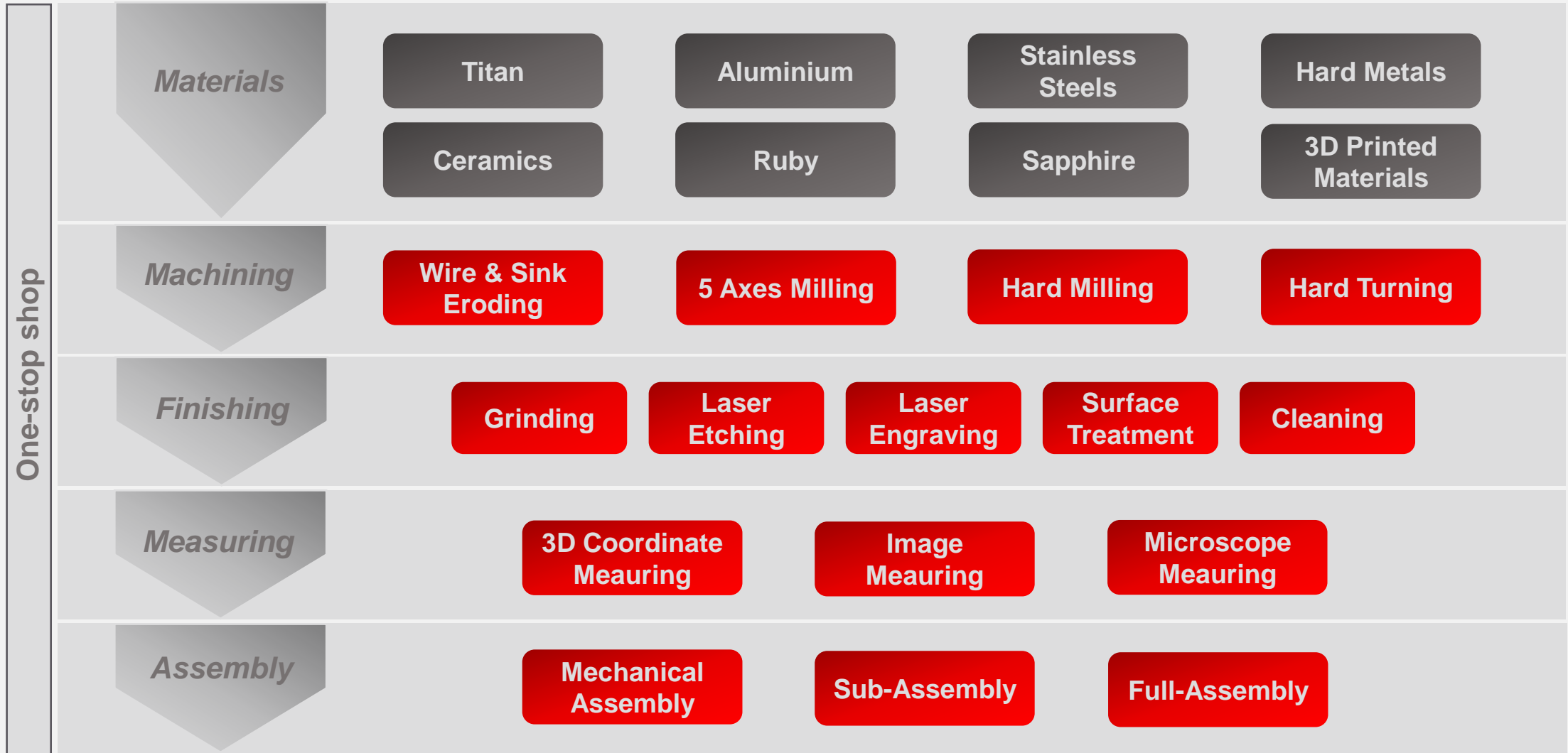
# Markets

Serving customers in growth markets



# One-stop Shop

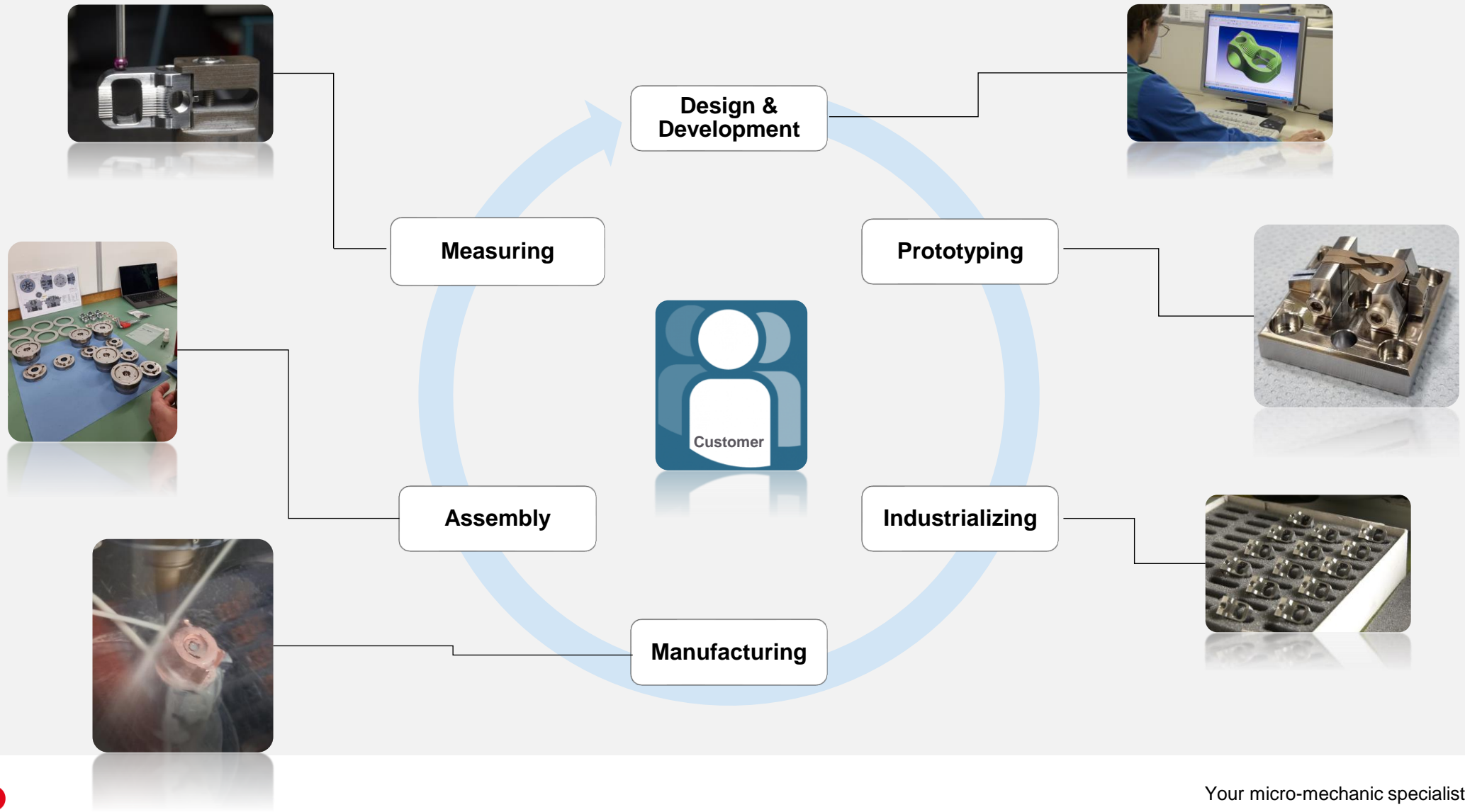
Flexible and innovative solutions on a high-tech level





# Core competences

Customer benefits



# Machine Park

## CNC Milling



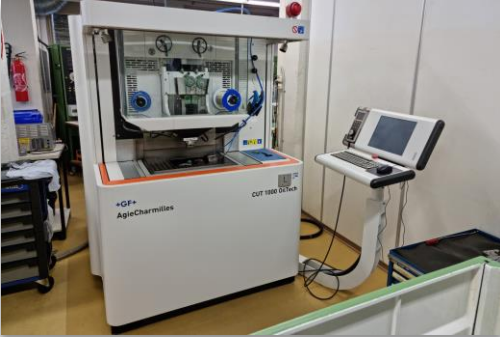
### □ CNC Milling

- 6 x MIKRON Ultra High-Speed 5 axis Machining Center
  - XSM400
  - HSM400U L *with System 3R WorkMaster cell*
  - HSM400U
  - HSM400Ui *with pallet changer*
  - XSM400U *linear with pallet changer*
  - HSM200U LP *with 2 robot's*  
*Working sector: X=400 Y=240 Z=350 mm*  
*B=+/-110° S=42000 rpm spindle speed*
- KERN HSPC High-Speed 5 axis Machining Centre  
*Working sector: X=250 Y=155 Z=245 mm*  
*S=24000/60000/120000 rpm spindle speed*  
*System 3R pallet changer 32 pos*
- SCHAUBLIN 28 CCN 3 axis milling machine  
*Working sector: X=400 Y=300 Z=360 mm*



# Machine Park

## Wire & Sink EDM



### ❑ 6 x **Wire Erosion** (wire dimensions from 0.02 to 0.30 mm)

- GF-AC CUT2000 S
- GF-AC CUT1000 *OilTech* wire dimension 0.02 mm
- AGIECUT Progress V2
- AGIECUT AC50 3
- AGIECUT AC50 1
- AGIECUT DEM315 *with B-Axis*

### ❑ 3 x **Die Sinking Erosion**

- AGIETRON EMS 1.10
- AGIETRON EMS 2.20
- AGIECharmilles FORM 20 *with fine Drill Module*



# CNC Turning

## Machine Park



### ❑ **CNC 7 axis Turning (coming soon)**

- **SCHAUBLIN 632 Y**  
*Identical main & counterspindle*  
*2 Revolvers*

### ❑ **2 x CNC Turning**

- **SCHAUBLIN CNC 125**
- **SCHAUBLIN CCN 125**  
*Revolver version turning tools, 3 axes X, Z, C*



# Machine Park

## Measurement equipment



### ■ **Measurement**

- WENZEL 3D *Working sector: X=650 Y=750 Z=500 mm*
- KEYENCE LM-1100 *High Accuracy Image Dimension Measurement System*
- KEYENCE VK-X3000 *3D Laser Scanning Microscope (1nm resolution»  
(New Measurement System)*



# Machine Park

## Measurements & Traditional Machines



### ❑ **Traditional Machines**

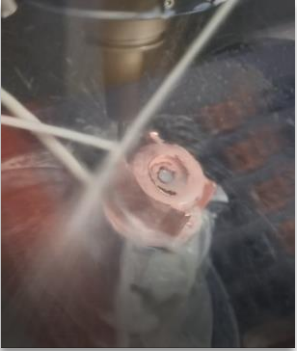
- Turning machine SCHAUBLIN 102
- ACIERA milling machine F3
- 3 x grinding machines TACCHELLA
- 1 x grinding machine TACCHELLA *with automatic charger for ceramics*



### ❑ **Cleaning**

- Ultrasonic Cleaning
- Automatic Cleaning Line with citric passivation  
*(implementation phase)*

# Reference projects



## EDM electrode manufacturing

- 5 axis milling
- High surface finish
- Very tight tolerance
- Batch 5 – 10pcs



## Development & Support

- Development of special fixtures & tools
- Customer support
- Setup improvement
- Batch 1 – 50pcs



## Assembly capabilities

- High precise assembly
- Micro-mechanics
- Very complex mechanisms
- Batch 10 – 1000pcs



# Thank you for your attention.

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