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Vuichard (Medical/Watch/Industrial Jobshop Services), France SYNOVA

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Various high-tech components for watch/medtech/space & defense industries

- Micromachining of high-tech parts:
- Functional watch parts
- Memory shape or PtIr parts cutting for implants or needles
- Jet fighter small parts
- Telecom parts for defense applications

- LMJ used for:
- Prototyping to larger series (up to 10k pcs)
- Cutting and drilling damage free processes



Flexible & stable tool for perfect/heat damage-free processes

Main processing criteria:

- Process flexibility: any kind of metals & ceramics
- Homogeneous roughness (Ra 0.2 μm)
- No burrs

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- Perfect verticality
- Narrow tolerances
- Very low forces on the substrate during cutting

Machining technologies able to reach these criteria:

- EDM
- Laser MicroJet (LMJ) water jet guided laser technology



Best flexibility, ease to use and reach expected top quality/tolerances, production-proven, better ROI

LMJ advantages vs EDM:

- Unique solution for specific high-tech applications
- Production-proven
- Flexibility
- Very short warmup and setup times

Installed machine type:

- 1 x LCS 300
- Dual laser (100 W green laser + 20 W short pulse green source)



