CASE STUDY

ROHDE&SCHWARZ

Rohde & Schwarz, Germany

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SYNOVA S.A.
Route de Genolier 13
1266 Duillier
Switzerland
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PRODUCT

Components for high-frequency electronics

Wireless communications and RF test and measurement, broadcast and media, air traffic control and military radiocommunications, cybersecurity and network technology.

LMJ used for:
- Cutting electrical components made of CuBe, Niro, CuZn and Aluminum
- 0.01 – 5 mm thickness

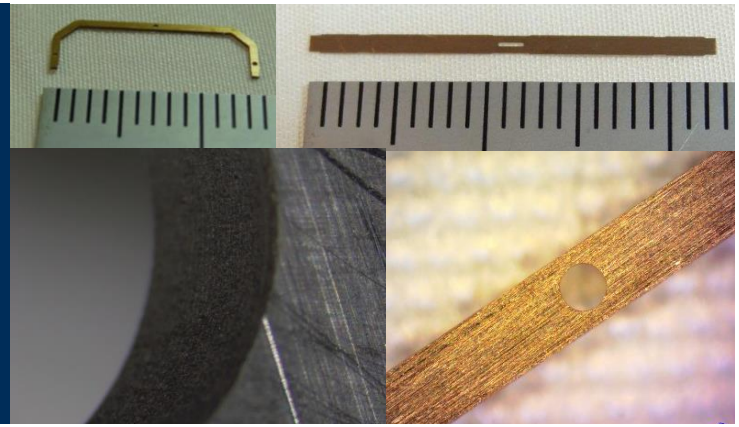
CHALLENGE

Perfect cut on various metal alloys

Difficult-to-machine metal alloys.

Main processing criteria:
- Large thickness range
- Low roughness
- Low HAZ
- No burrs
- Perfect verticality
- Narrow tolerances

Machining technologies able to reach these criteria:
- EDM
- Laser MicroJet (LMJ) - water jet guided laser technology



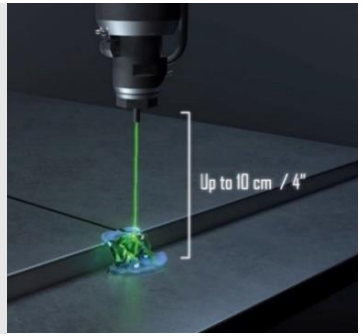
SOLUTION

High edge quality and high accuracy

LMJ advantages versus EDM:
- Much faster and more flexible
- Better suited for small components
- No oxidation
- Lower tolerances

Installed machine type:
- 2 x LCS 300
- 100 W green laser

LCS 300



Sources: Rohde & Schwarz website, Synova