**Cartier (Luxury watches), Switzerland**

**Watch case-01 Date: 23.07.2020**

### Various watch components for luxury goods

- Micro-machining of high-tech parts:
  - White & pink gold bracelets for the “Ballon Blanc”
  - Functional watch parts

- LMJ used for:
  - Large series (up to 25k pcs)
  - Cutting and drilling – movement parts for the Richemont group

### Flexible & stable tool for production and prototyping

**Main processing criteria:**
- Large throughput (up to 10k bracelets in 6 months)
- No burrs
- No heat affected zone (HAZ)
- Process flexibility: any kind of metals
- Perfect verticality
- Narrow tolerances
- Controlled/homogeneously generated roughness

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

### Best flexibility, ease to use, able to reach expected top quality, production-proven

**LMJ advantages versus stamping:**
- Better ROI for >10k pcs

**LMJ advantages versus EDM:**
- Flexible solution from prototype to series
- Production-proven
- Very short warm-up and set-up times

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

Sources: Cartier, Synova, worldtempus.com