## Products

### Diamonds for Jewellery applications

Rough or polished diamonds in different shapes are often used as pendants for necklaces, earrings etc. To link the diamond with the other jewellery part, a hole-drilling process might be required.

LMJ used for:
- Hole drilling

### Perfect straight holes in hard and valuable diamond material

Main processing criteria:
- Through-holes in extremely hard diamond material
- Minimal diamond damages
- Avoiding of chipping at hole entry and exit
- Perfect roundness

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

### Perfectly drilled holes, straight drilling process

LMJ advantages versus Dry Laser:
- Drilled holes are fully straight, no V-shape
- No diamond damages
- No chipping at entry and exit of holes
- Perfect and highly accurate hole geometry

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

Sources: Braun, Goldinger, Sara Mellone, Synova