

CASE STUDY



Venus Jewel, Surat (India)

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PRODUCT

Round Brilliant Diamond

Weight: 143.45 carats

Resulting in a 21.27-carat D flowless round brilliant diamond

LMJ used for:

- Cutting rough diamond



CHALLENGE

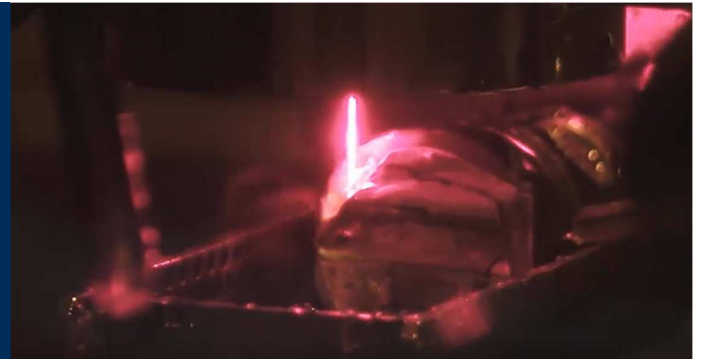
Perfect cut on a very expensive and valuable diamond

Main processing criteria:

- Minimal weight loss
- Highest yield
- Minimal or no diamond damages
- Smooth surfaces

Machining technologies able to reach these criteria:

- Laser MicroJet (LMJ)
- Conventional dry laser



SOLUTION

Laser MicroJet Technology

LMJ advantages versus conventional laser:

- Lower weight loss due to parallel cut
- No diamond damages
- Smoother surfaces
- Higher precision

Installed machine type:

- 1 x DCS 300
- 100 W green laser

DCS 300

