**CASE STUDY**

**Venus Jewel, Surat (India)**

Diamcase-04  Date: 22.09.2020

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**Round Brilliant Diamond**

Weight: 143.45 carats

Resulting in a 21.27-carat D flawless round brilliant diamond

LMJ used for:

- Cutting rough diamond

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**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

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**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