

CASE STUDY



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PRODUCT

The Queen of Kalahari

The 342-carat rough diamond has resulted in a set of 23 diamonds, the Garden of Kalahari.

Out of these 23 diamonds, 5 are over 20 carats. Each of the main cut shapes are represented: brilliant, heart, emerald, cushion, and pear.

LMJ used for:

- Cutting rough diamond
- Fancy shaping



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

