# CASE STUDY

## DIAMCAD NV, Antwerp (Belgium)

**Diamcase-01  Date: 14.09.2020**

### PRODUCT

<table>
<thead>
<tr>
<th>The Graff Lasedi La Rona</th>
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<tbody>
<tr>
<td>Weight: 302.37 carats</td>
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<tr>
<td>The largest highest color, highest clarity diamond ever certified by the GIA.</td>
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<tr>
<td>Rough diamond: Lasedi la Rona 1109 carats</td>
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</tbody>
</table>

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

Sources: www.lucaradiamond.com, youtube video The Graff Diamonds, Synova

**DCS 300**

**THE GRAFF LESEDI LA RONA 302.37 CARATS**

**THE LARGEST HIGHEST COLOUR, HIGHEST CLARITY DIAMOND EVER CERTIFIED BY THE GIA**

**CUT AND POLISHED BY GRAFT**

**Up to 10 cm / 4”**