

**PRODUCT**

### Power Semiconductor Devices (IGBT-GTO)

High power components  
Monolithic single die concepts

LMJ used for:

- Thick silicon wafer downsizing



**CHALLENGE**

### Gentle, precise, and fast processing for large inline production

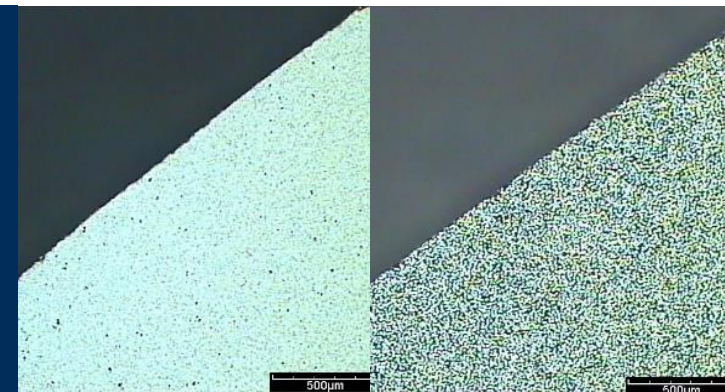
Cutting 0.32-1.8mm thick wafers

Main processing criteria:

- Low/no cracks or chipping
- Low contamination
- High throughput requisite
- Low consumable costs
- Controlled edge quality

Machining technologies able to reach these criteria:

- Grinding
- Laser MicroJet (LMJ) - water jet guided laser Technology



**SOLUTION**

### Fact, clean, flexible – Ready for production

LMJ advantages versus grinding:

- Much better edge quality
- Much less chipping and cracks: higher fracture strength
- Any shape possible (incl. flat or notch)

Installed machine type:

- 4 x LDS 300-M
- 100 W green laser



LDS 300-M

