# DFL7341

**Fully Automatic Laser Saw**

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## Achieves high productivity for sapphire, lithium tantalate, and MEMS processing

Φ200 mm  Stealth Dicing™  SDBG  SDTT

- DFL7341 is a fully automatic laser saw for Φ8-inch wafers which has seen wide used in applications such as LED sapphire substrates and silicon microphones.
- Stealth Dicing™ process makes it possible for brittle materials such as SiC and GaN to be singulated without chipping.
- This is a completely dry process, making it suitable for processing devices such as MEMS that are susceptible to water damage.


### Height adjustment function

Stealth Dicing™ process can be performed based on the wafer surface height, making it possible to reliably process wafers with significant warpage.

### Wafer shape recognition

Wafer shape is measured using a high-resolution sensor to singulate at the optimal processing area.

### Compatibility with various materials

High-quality processing can be achieved for sapphire, SiC, and GaAs using laser oscillators suited for each material.

## Specifications

| Specification | | Unit | |
|---|---|---|---|
| Processing method | | - | Stealth Dicing™ |
| Max. workpiece size | | mm | Φ200 |
| X-axis (Chuck table) | Processing range | mm | 210 |
| | Moving speed | mm/s | 1 ~ 1,000 |
| Y-axis (Chuck table) | Processing range | mm | 210 |
| | Index step | mm | 0.0001 |
| | Positioning accuracy | mm | 0.003/210<br>(Single error)0.002/5 |
| Z-axis | Moving resolution | mm | 0.0001 |
| | Repeatability accuracy | mm | 0.001 |
| θ-axis (Chuck table) | Max. rotating angle | deg | 380 |
| Machine dimensions (W×D×H) | | mm | 950 × 1,732 × 1,800 |
| Machine weight | | kg | Approx. 1,800 |

*Product appearance, features, specifications, and other details may change due to technical modifications.
*Please read the standard specification sheet thoroughly before use.

## Product Lineup

### DFL7362

| | |
|---|---|
| Machine type | Fully Automatic |
| Method | Stealth Dicing™ |
| Machine dimentions (W × D × H) | 1,600 × 2,755 × 1,800 |
| Machine weight (kg) | 2,850 |

# DFL7341

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## Contact

Please feel free to contact us with any questions or inquiries.

Contact form › Look up a sales office near you ›