Multi Wire Saw DW288 S6
Smart slicing technology for sapphire, hard and brittle materials

**Increased throughput**
- 650 mm web length (+55%)
- 30 m/s wire speed (+20%)
- 10 m/s² acceleration (+25%)
- 2x 35 kW motor power (+218%)

**Higher wafer quality**
- Optimized for 6” work pieces
- 28% smaller axis distance
- Lower pulley inertia
- Rocking unit with best-in-class workpiece rocking concept

**Process stability**
- Rigid steel wire guide rolls
- Compact mineral cast machine base
- Lowest temperature and vibration dependency
- Improved cutting fluid (CF) system
- Adaptive feed

**Easy operation**
- Recipe generator for 60 step recipe
- Process based operation
- Best accessibility for operation and maintenance personnel
- Industry 4.0 capable

All figures compared to Meyer Burger DW288 S4
**At a glance**

DW288 S6 is based on the widely adopted and successful DW288 product family, and it has been optimized for 6” workpieces. The latest generation workpiece rocking technology combined with the adaptive feed ensures best wafer quality, maximum throughput and lowest cost of ownership.

With its monitoring and logging capabilities, DW288 S6 is ready for Industry 4.0. Whether slicing sapphire, silicon, ceramics, quartz, magnetic or other hard and brittle materials, the DW 288 S6 offers clear advantages in productivity, robustness and quality.

**Highest throughput at best wafer quality**

- **High throughput**
  - 30 m/s wire speed
  - 10 m/s² acceleration

- **Robust machine**
  - Mineral cast
  - Low vibration, low noise
  - Perfect alignment of all relevant machine parts

- **High capacity**
  - 650 mm web length

**Easy operation**

- HMI on 15” touch screen
- Production assistant
- Recipe generator
- Easy to train, easy to use

**Smallest axis distance**

- Optimized for Ø 6"

**New CF system**

- Low maintenance heat exchanger
- Stable temperature in entire system
- Shortest pipe path

**Slicing process expertise**

- Recipe generator for 60-step recipe
- Optimized consumables and wear parts to attain best wafer quality at lowest cost of ownership
- Dedicated wafering R&D line and laboratory

**Maximized uptime lowers costs**

- Efficient and proactive service
- Highly skilled local service engineers
- Optimized Total Cost of Ownership
- Local overhaul service for quick processing of wire guide roller (WGR) regrooving, recoating and bearing overhaul

**Human Machine Interface (HMI)**

- HMI (MB ProOvis) enables intuitive operation
- Highest automation degree
- User friendly and fast process based production assistant
- Configurable user levels
- Multilingual interface
- Integrated offline help menu
Optimized rocking

- Rocking of workpiece
- Lower wire bow due to smaller axis distance

Adaptive feed

The adaptive feed compensates the “up and down” movement of the wire web during the workpiece rocking

- More constant contact length of the wire
- Better control of wire bow
- No sharp edges of wire
- More stable cutting conditions (in particular at larger diameters)

Options

Diamond Wire Management System (DWMS)

Market-proven and award-winning DWMS including resharpening technology and extended winding feature

- Patented in China (Patent No. CN 104411434B)
- Lowest wire consumption
- Enables faster cutting times
- Optimized for thinner wire down to 60 µm
- More accurate tension control

Adaptive feed

Automatic Cutting Fluid Exchange
MES interface based on PV2 protocol (read only)
Plate heat exchanger with higher capacity
Flowbar for increased cutting fluid flow
Dimensions (mm)

Front view

Top view

Technical data at a glance

<table>
<thead>
<tr>
<th></th>
<th>unit</th>
<th>DW 288 S6</th>
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<tbody>
<tr>
<td>Web length</td>
<td>[mm]</td>
<td>650</td>
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<tr>
<td>Max. workpiece dimensions</td>
<td>[inch]</td>
<td>Ø 6.5&quot; (Ø 165 mm)</td>
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<tr>
<td>Axis distance</td>
<td>[mm]</td>
<td>390</td>
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<tr>
<td>Wire speed</td>
<td>[m/sec]</td>
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<tr>
<td>Wire acceleration</td>
<td>[m/s²]</td>
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<tr>
<td>Min. wire diameter</td>
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<td>Max. wire tension</td>
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<td>Rocking angle</td>
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<td>± 12</td>
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<td>Cutting fluid tank</td>
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<tr>
<td>Machine weight</td>
<td>[kg]</td>
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We reserve the right to make changes reflecting technical progress (03/2019)