OptiSonic 1200 Series
Large, bridge-style platform with 1200mm of X-Axis Travel
Available in 3, 4 or 5 axis configurations

**Specifications**

<table>
<thead>
<tr>
<th>Spec</th>
<th>OptiSonic 1230</th>
<th>OptiSonic 1240</th>
<th>OptiSonic 1250</th>
<th>OptiSonic 1250X</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Travels</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>X-Axis Travel</td>
<td>1,200 mm (47.2&quot;)</td>
<td>1,200 mm (47.2&quot;)</td>
<td>1,200 mm (47.2&quot;)</td>
<td>1,200 mm (47.2&quot;)</td>
</tr>
<tr>
<td>Y-Axis Travel</td>
<td>700 mm (27.2&quot;)</td>
<td>700 mm (27.2&quot;)</td>
<td>700 mm (27.2&quot;)</td>
<td>700 mm (27.2&quot;)</td>
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<tr>
<td>Z-Axis Travel</td>
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<td>500 mm (19.7&quot;)</td>
<td>500 mm (19.7&quot;)</td>
<td>500 mm (19.7&quot;)</td>
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<tr>
<td>C-Axis Travel</td>
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</tr>
<tr>
<td><strong>Workpiece</strong></td>
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</tr>
<tr>
<td>Part Size</td>
<td>1,175mm x 675mm (46.2&quot; x 26.6&quot;)</td>
<td>1,175mm x 675mm (46.2&quot; x 26.6&quot;)</td>
<td>1,175mm x 675mm (46.2&quot; x 26.6&quot;)</td>
<td>1,175mm x 675mm (46.2&quot; x 26.6&quot;)</td>
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<tr>
<td>Max Weight</td>
<td>800 kg (1763.7 lbs)</td>
<td>800 kg (1763.7 lbs)</td>
<td>800 kg (1763.7 lbs)</td>
<td>800 kg (1763.7 lbs)</td>
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<tr>
<td><strong>Workpiece Rotation</strong></td>
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<tr>
<td>Spindle Speed</td>
<td>10 - 500 rpm</td>
<td>10 - 500 rpm</td>
<td>10 - 500 rpm</td>
<td>10 - 500 rpm</td>
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<tr>
<td>Hydro-Expansion Chuck</td>
<td>Standard</td>
<td>Standard</td>
<td>Standard</td>
<td>Standard</td>
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<tr>
<td>C-Axis Position and Hold</td>
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<tr>
<td><strong>Tool Spindle</strong></td>
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<tr>
<td>Max Tool Diameter***</td>
<td>250 mm (9.8&quot;)</td>
<td>250 mm (9.8&quot;)</td>
<td>250 mm (9.8&quot;)</td>
<td>250 mm (9.8&quot;)</td>
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<tr>
<td>Max Tool Weight</td>
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<td>4 kg (13.2 lbs)</td>
<td>4 kg (13.2 lbs)</td>
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<td>6,000 - 18,000 rpm</td>
<td>6,000 - 18,000 rpm</td>
<td>6,000 - 18,000 rpm</td>
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<td>Tool Holder Style</td>
<td>400RPM</td>
<td>400RPM</td>
<td>400RPM</td>
<td>400RPM</td>
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<td><strong>Automatic Tool Changer</strong></td>
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<tr>
<td>Standard (24 or 30-tool)</td>
<td>Standard (24 or 30-tool)</td>
<td>Standard (24 or 30-tool)</td>
<td>Standard (24 or 30-tool)</td>
<td>Standard (24 or 30-tool)</td>
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<tr>
<td><strong>Facility Requirements</strong></td>
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<tr>
<td>Electrical</td>
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<td>480V +/- 1%, 57A</td>
<td>480V +/- 1%, 57A</td>
<td>480V +/- 1%, 57A</td>
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<td>100PSI, 5.0 CFM clean dry air</td>
<td>100PSI, 5.0 CFM clean dry air</td>
<td>100PSI, 5.0 CFM clean dry air</td>
<td>100PSI, 5.0 CFM clean dry air</td>
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<tr>
<td><strong>Workpiece Probing</strong></td>
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<tr>
<td>Tool Probing</td>
<td>Standard</td>
<td>Standard</td>
<td>Standard</td>
<td>Standard</td>
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<tr>
<td>Integrated Spherometer</td>
<td>Standard</td>
<td>Standard</td>
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<tr>
<td>Asphere Fabrication</td>
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<td>Standard</td>
<td>Standard</td>
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<tr>
<td>Freeform Fabrication</td>
<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
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</table>

* Specifications subject to change. Contact OptiPro for the latest specifications.
** Machine is capable of manufacturing maximum plano size in small volume. For medium and large production quantities of max plano size, consider OptiPro’s larger platform.
*** Max tool diameter is 75 mm (3") with a full Automatic Tool Changer magazine.
All platforms come standard with USB and ethernet communication.

OptiPro Systems
6688 Dean Parkway
Ontario, NY 14510
585.265.0160
www.optipro.com
Take your machining to the next level.

Machining glass and ceramic materials can present challenges such as accelerated tool wear and long cycle times. Overcome these obstacles with OptiSonic, the latest in ultrasonic machining technology. Engineered specifically for glass and ceramics processing, OptiSonic features the highest quality machine components coupled with proprietary IntelliSonic software to help companies maximize manufacturing efficiency:

- **Superior grinding improvements:** Heavy duty cast iron “mechanical” machine base provides vibration dampening and stability along with liquid-cooled ceramic bearing high precision HSK 63F grinding spindles
- **Faster cycle times:** State-of-the-art ultrasonic technology allows for faster speeds and feeds than competitive platforms
- **High performance spindles:** Liquid cooled spindles for process consistency, direct drive spindles for better process control, integral high torque spindle motor for more cutting power
- **High accuracy tool and work spindles:** HSK 63 quick-change holders with different options ensure tools run true
- **Streamlined manufacturing:** Different automatic tool changers available allows for multiple grinding operations in one cycle
- **G Series Software (Optional):** Easy-to-use GUI for precision optics that guides operators through all aspects of the process

Driven by IntelliSonic, ultrasonic oscillation of the tool ensures optimal cutting performance throughout the machining cycle. The adaptive frequency control and automated “tool frequency tuning” creates several benefits:

- Faster set-up times
- Rapid material removal and shorter cycle times due to increased processing speeds and feeds
- Reduced force endured by tool and part during machining
- Reduced tool wear and longer tool life

The bottom line is faster and more precise manufacturing of glass and ceramic materials that adds significant value to your bottom line. Take your machining to the next level with OptiSonic.

The right platform for your application:

- **500 Series**
  - 500mm of X-axis travel
  - Available with 3 axes (OptiSonic 530), 4 axes (OptiSonic 540), 5 axes (OptiSonic 550) with G Series (OptiSonic 550X)

- **800 Series**
  - 800mm of X-axis travel
  - Available with 3 axes (OptiSonic 830), 4 axes (OptiSonic 840), 5 axes (OptiSonic 850) with G Series (OptiSonic 850X)

- **1100 Series**
  - 1100mm of X-axis travel
  - Available with 3 axes (OptiSonic 1130), 4 axes (OptiSonic 1140), 5 axes (OptiSonic 1150) with G Series (OptiSonic 1150X)

- **1200 Series**
  - 1200mm of X-axis travel
  - Available with 3 axes (OptiSonic 1230), 4 axes (OptiSonic 1240), 5 axes (OptiSonic 1250) with G Series (OptiSonic 1250X)

High Performance Ultrasonic Technology

Through the use of a custom designed tool holder, a piezo-electric transducer produces controlled oscillations in the micrometer amplitude range when the tool is at its natural resonant frequency. Since each tool has a different shape and mass, its natural resonant frequency will be different. OptiPro’s proprietary IntelliSonic software identifies the resonant frequency for the tool being utilized, then automatically adjusts the frequency based on changing machining conditions to keep the tool oscillating at its optimal resonant frequency, ensuring maximum efficiency.
**Benefits**

OptiPro’s intelligent ultrasonic technology (IntelliSonic) allows manufacturers to greatly reduce grinding times when processing optical glasses and ceramic materials. How? Ultrasonic tool vibration promotes free cutting of material, resulting in significant process force reduction. This gives manufacturers the ability to increase processing speeds and cutting feed rates. A reduction of force on the part also means less force on the tool, specifically the diamond section, resulting in minimal tool wear and longer tool life.

**Applications**

Multiple industries can benefit from OptiSonic’s fast and precise machining performance. Whether you are manufacturing precision components for a semiconductor device, consumer electronic product, medical device, defense system, or other application, the technology found on OptiSonic platforms enables companies to enhance their current capabilities with extreme confidence. From optical materials such as BK7 and fused silica to hard ceramics such as alumina, sapphire and silicon carbide, you can increase production and profitability by greatly reducing cycle times.

**Various applications involving 3, 4, or 5 axis machining, including:**

- Light weighting with thin-walled features
- Aspheres, freeforms & complex geometries
- Core drilling
- Small hole machining
- Soft optical glass to hard ceramic materials:
  - BK7
  - Pyrex
  - Sapphire
  - Zerodur
  - ALON
  - Splinol
  - Fused Quartz
  - Zirconia
  - Silicon Carbide
  - Fused Silica
  - PCA
  - Other glass and ceramics

**OptiSonic 500 Series**

Entry-level platform with 500mm of X-axis travel Available in 3, 4, or 5 axis configurations

**Specifications**

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<thead>
<tr>
<th></th>
<th>OptiSonic 530</th>
<th>OptiSonic 540</th>
<th>OptiSonic 550</th>
<th>OptiSonic 550X</th>
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<td><strong>Travels</strong></td>
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<td></td>
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<tr>
<td>X - Axis Travel</td>
<td>300 mm (11.8’’)</td>
<td>300 mm (11.8’’)</td>
<td>300 mm (11.8’’)</td>
<td>300 mm (11.8’’)</td>
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<tr>
<td>Y - Axis Travel</td>
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<td>400 mm (15.7’’)</td>
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<td>Z - Axis Travel</td>
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<td>C - Axis Travel</td>
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<td>0° to 180° (Optional)</td>
<td>0° to 180° (Optional)</td>
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<td><strong>Workpiece</strong></td>
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<tr>
<td>Part Size</td>
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<td>475 mm x 375 mm (18.7” x 14.8”)</td>
<td>475 mm x 375 mm (18.7” x 14.8”)</td>
<td>475 mm x 375 mm (18.7” x 14.8”)</td>
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<td>Max Weight</td>
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<td>250 kg (550 lbs.)</td>
<td>250 kg (550 lbs.)</td>
<td>125 kg (276 lbs.)</td>
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<td>Positional C-Axis</td>
<td>Positional C-Axis</td>
<td>Work Spindle</td>
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<tr>
<td>Hydro-Expansion Chuck</td>
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<td>Standard</td>
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<td>C-Axis Position and Hold</td>
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<td><strong>Tool Spindle</strong></td>
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<td>Min Tool Diameter</td>
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<td>Tool Spindle Speed</td>
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<td>Max Power</td>
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<tr>
<td>Optional (6, 24 or 30-Tool)</td>
<td>Optional (6, 24 or 30-Tool)</td>
<td>Optional (6, 24 or 30-Tool)</td>
<td>Optional (6, 24 or 30-Tool)</td>
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<td><strong>Facility Requirements</strong></td>
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<tr>
<td>Electrical</td>
<td>480V +/- 10%, 3-phase</td>
<td>480V +/- 10%, 3-phase</td>
<td>480V +/- 10%, 3-phase</td>
<td>480V +/- 10%, 3-phase</td>
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<tr>
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<td>100PSI, 3.5 CFM clean dry air</td>
<td>100PSI, 3.5 CFM clean dry air</td>
<td>100PSI, 3.5 CFM clean dry air</td>
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<tr>
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<tr>
<td>Freeform Fabrication</td>
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</tbody>
</table>

*Specifications subject to change. Contact OptiPro for the latest specifications.*

**Note:** Min tool diameter is 23 mm (1”) with a 6-tool Automatic Tool Changer magazine. All platforms come standard with USB and ethernet communication.
**OptiSonic 800 Series**
Intermediate platform with 800mm X-axis travel
Available in 3, 4, or 5 axis configurations

**OptiSonic 1100 Series**
Extended platform with 1100mm of X-axis travel
Available in 3, 4, or 5 axis configurations

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### Specifications

#### OptiSonic 830
- **Travels**
  - X-Axis Travel: 860 mm (33.9")
  - Y-Axis Travel: 450 mm (17.7")
  - Z-Axis Travel: 550 mm (21.7")
  - C-Axis Travel: 360° (Optional)

- **Workpiece**
  - Part Size: 775 mm x 445 mm (30.5" x 17.5")
  - Max Weight: 400 kg (882 lbs)

- **Tool Spindle**
  - Max Tool Diameter: 250 mm (9.8")
  - Max Tool Weight: 6 kg (13.2 lbs)
  - Tool Spindle Speed: 1,000 - 16,000 rpm
  - Max Power: 19 kW (25.4 hp)

- **Automatic Tool Changer**
  - Standard (24 or 30-tool)

- **Facility Requirements**
  - Electrical: 480V +/-1%, 60A, 100% (50-55% CMH clean dry air)

- **Workpiece Probing**
  - Standard

- **Asphere Fabrication**
  - Standard

---

#### OptiSonic 840
- **Travels**
  - X-Axis Travel: 860 mm (33.9")
  - Y-Axis Travel: 450 mm (17.7")
  - Z-Axis Travel: 550 mm (21.7")
  - C-Axis Travel: 360° (Optional)

- **Workpiece**
  - Part Size: 775 mm x 445 mm (30.5" x 17.5")
  - Max Weight: 400 kg (882 lbs)

- **Tool Spindle**
  - Max Tool Diameter: 250 mm (9.8")
  - Max Tool Weight: 6 kg (13.2 lbs)
  - Tool Spindle Speed: 1,000 - 16,000 rpm
  - Max Power: 19 kW (25.4 hp)

- **Automatic Tool Changer**
  - Standard (24 or 30-tool)

- **Facility Requirements**
  - Electrical: 480V +/-1%, 60A, 100% (50-55% CMH clean dry air)

- **Workpiece Probing**
  - Standard

- **Asphere Fabrication**
  - Standard

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#### OptiSonic 850
- **Travels**
  - X-Axis Travel: 860 mm (33.9")
  - Y-Axis Travel: 450 mm (17.7")
  - Z-Axis Travel: 550 mm (21.7")
  - C-Axis Travel: 360° (Optional)

- **Workpiece**
  - Part Size: 775 mm x 445 mm (30.5" x 17.5")
  - Max Weight: 400 kg (882 lbs)

- **Tool Spindle**
  - Max Tool Diameter: 250 mm (9.8")
  - Max Tool Weight: 6 kg (13.2 lbs)
  - Tool Spindle Speed: 1,000 - 16,000 rpm
  - Max Power: 19 kW (25.4 hp)

- **Automatic Tool Changer**
  - Standard (24 or 30-tool)

- **Facility Requirements**
  - Electrical: 480V +/-1%, 60A, 100% (50-55% CMH clean dry air)

- **Workpiece Probing**
  - Standard

- **Asphere Fabrication**
  - Standard

---

#### OptiSonic 850X
- **Travels**
  - X-Axis Travel: 860 mm (33.9")
  - Y-Axis Travel: 450 mm (17.7")
  - Z-Axis Travel: 550 mm (21.7")
  - C-Axis Travel: 360° (Optional)

- **Workpiece**
  - Part Size: 775 mm x 445 mm (30.5" x 17.5")
  - Max Weight: 400 kg (882 lbs)

- **Tool Spindle**
  - Max Tool Diameter: 250 mm (9.8")
  - Max Tool Weight: 6 kg (13.2 lbs)
  - Tool Spindle Speed: 1,000 - 16,000 rpm
  - Max Power: 19 kW (25.4 hp)

- **Automatic Tool Changer**
  - Standard (24 or 30-tool)

- **Facility Requirements**
  - Electrical: 480V +/-1%, 60A, 100% (50-55% CMH clean dry air)

- **Workpiece Probing**
  - Standard

- **Asphere Fabrication**
  - Standard

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### Specifications

#### OptiSonic 1130
- **Travels**
  - X-Axis Travel: 1,100 mm (43.3")
  - Y-Axis Travel: 400 mm (15.7")
  - Z-Axis Travel: 600 mm (23.6")
  - C-Axis Travel: 180° (Optional)

- **Workpiece**
  - Part Size: 1,075 mm x 570 mm (42.3" x 22.4")
  - Max Weight: 800 kg (1763 lbs)

- **Tool Spindle**
  - Max Tool Diameter: 250 mm (9.8")
  - Max Tool Weight: 6 kg (13.2 lbs)
  - Tool Spindle Speed: 1,000 - 16,000 rpm
  - Max Power: 19 kW (25.4 hp)

- **Automatic Tool Changer**
  - Standard (24 or 30-tool)

- **Facility Requirements**
  - Electrical: 480V +/-1%, 60A, 100% (50-55% CMH clean dry air)

- **Workpiece Probing**
  - Standard

- **Asphere Fabrication**
  - Standard

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#### OptiSonic 1140
- **Travels**
  - X-Axis Travel: 1,100 mm (43.3")
  - Y-Axis Travel: 400 mm (15.7")
  - Z-Axis Travel: 600 mm (23.6")
  - C-Axis Travel: 180° (Optional)

- **Workpiece**
  - Part Size: 1,075 mm x 570 mm (42.3" x 22.4")
  - Max Weight: 800 kg (1763 lbs)

- **Tool Spindle**
  - Max Tool Diameter: 250 mm (9.8")
  - Max Tool Weight: 6 kg (13.2 lbs)
  - Tool Spindle Speed: 1,000 - 16,000 rpm
  - Max Power: 19 kW (25.4 hp)

- **Automatic Tool Changer**
  - Standard (24 or 30-tool)

- **Facility Requirements**
  - Electrical: 480V +/-1%, 60A, 100% (50-55% CMH clean dry air)

- **Workpiece Probing**
  - Standard

- **Asphere Fabrication**
  - Standard

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#### OptiSonic 1150
- **Travels**
  - X-Axis Travel: 1,100 mm (43.3")
  - Y-Axis Travel: 400 mm (15.7")
  - Z-Axis Travel: 600 mm (23.6")
  - C-Axis Travel: 180° (Optional)

- **Workpiece**
  - Part Size: 1,075 mm x 570 mm (42.3" x 22.4")
  - Max Weight: 800 kg (1763 lbs)

- **Tool Spindle**
  - Max Tool Diameter: 250 mm (9.8")
  - Max Tool Weight: 6 kg (13.2 lbs)
  - Tool Spindle Speed: 1,000 - 16,000 rpm
  - Max Power: 19 kW (25.4 hp)

- **Automatic Tool Changer**
  - Standard (24 or 30-tool)

- **Facility Requirements**
  - Electrical: 480V +/-1%, 60A, 100% (50-55% CMH clean dry air)

- **Workpiece Probing**
  - Standard

- **Asphere Fabrication**
  - Standard

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#### OptiSonic 1150X
- **Travels**
  - X-Axis Travel: 1,100 mm (43.3")
  - Y-Axis Travel: 400 mm (15.7")
  - Z-Axis Travel: 600 mm (23.6")
  - C-Axis Travel: 180° (Optional)

- **Workpiece**
  - Part Size: 1,075 mm x 570 mm (42.3" x 22.4")
  - Max Weight: 800 kg (1763 lbs)

- **Tool Spindle**
  - Max Tool Diameter: 250 mm (9.8")
  - Max Tool Weight: 6 kg (13.2 lbs)
  - Tool Spindle Speed: 1,000 - 16,000 rpm
  - Max Power: 19 kW (25.4 hp)

- **Automatic Tool Changer**
  - Standard (24 or 30-tool)

- **Facility Requirements**
  - Electrical: 480V +/-1%, 60A, 100% (50-55% CMH clean dry air)

- **Workpiece Probing**
  - Standard

- **Asphere Fabrication**
  - Standard
## OptiSonic Series

**OptiSonic 1200 Series**  
Large, bridge-style platform with 1200mm of X-Axis Travel  
Available in 3, 4 or 5 axis configurations

### Specifications

<table>
<thead>
<tr>
<th>Specifications*</th>
<th>OptiSonic 1230</th>
<th>OptiSonic 1240</th>
<th>OptiSonic 1250</th>
<th>OptiSonic 1250X</th>
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<tr>
<td><strong>Travels</strong></td>
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<tr>
<td>X-Axis Travel</td>
<td>1,200 mm (47.2&quot;)</td>
<td>1,200 mm (47.2&quot;)</td>
<td>1,200 mm (47.2&quot;)</td>
<td>1,200 mm (47.2&quot;)</td>
</tr>
<tr>
<td>Y-Axis Travel</td>
<td>750 mm (29.5&quot;)</td>
<td>700 mm (27.6&quot;)</td>
<td>700 mm (27.6&quot;)</td>
<td>780 mm (30.7&quot;)</td>
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<tr>
<td>Z-Axis Travel</td>
<td>500 mm (19.7&quot;)</td>
<td>500 mm (19.7&quot;)</td>
<td>500 mm (19.7&quot;)</td>
<td>500 mm (19.7&quot;)</td>
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<tr>
<td>B-Axis Travel</td>
<td></td>
<td>90° to 180° (Optional)</td>
<td>90° to 180° (Optional)</td>
<td>90° to 180° (Optional)</td>
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<tr>
<td>C-Axis Travel</td>
<td></td>
<td>0° to 270° (Optional)</td>
<td>0° to 270° (Optional)</td>
<td>0° to 270° (Optional)</td>
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<tr>
<td><strong>Workpiece</strong></td>
<td></td>
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<tr>
<td>Port Size</td>
<td>250 mm (9.8&quot;)</td>
<td>250 mm (9.8&quot;)</td>
<td>250 mm (9.8&quot;)</td>
<td>250 mm (9.8&quot;)</td>
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<tr>
<td>Max Weight</td>
<td>6 kg (13.2 lbs.)</td>
<td>6 kg (13.2 lbs.)</td>
<td>6 kg (13.2 lbs.)</td>
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<tr>
<td><strong>Workpiece Rotation</strong></td>
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<tr>
<td>Spindle Speed</td>
<td>1,000 - 18,000 rpm</td>
<td>1,000 - 18,000 rpm</td>
<td>1,000 - 18,000 rpm</td>
<td>1,000 - 18,000 rpm</td>
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<tr>
<td>Max Power</td>
<td>18kW (24hp)</td>
<td>18kW (24hp)</td>
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<tr>
<td>Tool Spindle</td>
<td>HSK63F</td>
<td>HSK63F</td>
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<td><strong>Tool Spindle</strong></td>
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<tr>
<td>Max Tool Diameter***</td>
<td>75 mm (3&quot;)</td>
<td>75 mm (3&quot;)</td>
<td>75 mm (3&quot;)</td>
<td>75 mm (3&quot;)</td>
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<tr>
<td>Max Tool Weight</td>
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<td>350 kg (770 lbs.)</td>
<td>350 kg (770 lbs.)</td>
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<td><strong>Automatic Tool Changer</strong></td>
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<td>Standard (24 or 30-tool)</td>
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<td><strong>Facility Requirements</strong></td>
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<tr>
<td>Electrical</td>
<td>480V +/-5%, 57A</td>
<td>480V +/-5%, 57A</td>
<td>480V +/-5%, 57A</td>
<td>480V +/-5%, 57A</td>
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<td>Air Supply</td>
<td>100PSI, 5 CFM clean dry air</td>
<td>100PSI, 5 CFM clean dry air</td>
<td>100PSI, 5 CFM clean dry air</td>
<td>100PSI, 5 CFM clean dry air</td>
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<tr>
<td><strong>Workpiece Probing</strong></td>
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<tr>
<td><strong>Integrated Spherometer</strong></td>
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<td><strong>Asphere Fabrication</strong></td>
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<td><strong>Freeform Fabrication</strong></td>
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<tr>
<td>Optional</td>
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</tr>
</tbody>
</table>

* Specifications subject to change. Contact OptiPro for the latest specifications.  
** Machine is capable of manufacturing maximum plano size in small volume. For medium and large production quantities of max plano size, consider OptiPro’s larger platform.  
*** Max tool diameter is 75 mm (3") with a full Automatic Tool Changer magazine. All platforms come standard with USB and ethernet communication.