Specifications

- **Cuttable material**: Zirconia (pre-sintered), Wax, PMMA, Composite resin
- **Loadable workpiece shape**: Block Width x Depth: 76×38, Height: 10 to 22 mm
- **PIN type**: Width x Depth x Height: Maximum 85 x 40 x 22 mm
- **Operating speed XYZ-axis**: 6 to 1800 mm/min. (0.24 to 70.8 in./min.)
- **Spindle motor**: Brushless DC motor
- **Spindle speed**: 6,000 to 30,000 rpm
- **Rotary axis travel angle A**: ±360°
- **Number of tools housed**: 2
- **Attachable tool**: Shank diameter: 4 mm, Length: 40 to 55 mm
- **Compatible compressed air**: 0.02 to 0.2 MPa
- **Interface**: USB (compliant with Universal Serial Bus Specification Revision 1.1)
- **Control command set**: RML-1, NC code
- **Power requirements**: AC100 to 240 V ± 10 %, 50/60 Hz, 0.8 to 0.4 A (overvoltage category II, IEC 60664-1)
- **Power consumption**: Approx. 70 W
- **Operating noise**: During operation: 70 dB (A) or less (when not cutting), During standby: 40 dB (A) or less
- **External dimensions**: Width x Depth x Height: 340×365×405 mm (13.4×14.4×16.0 in.)
- **Weight**: 22 kg (48.5 lbs)

**Installation environment**

- Indoor use, altitude: up to 2000 m
- Temperature: 5 to 40 °C (41 to 104 °F)
- Relative humidity: 35 to 80 % (no condensation)
- Ambient pollution degree: 2 (as specified by IEC 60664-1)
- Short-term temporary overvoltage: 1440 V
- Long-term temporary overvoltage: 490 V

**Included items**

- Power cord, USB cable, Manual, Software package CD-ROM, Detection pin, Automatic correction jig, Clamp for block workpiece, Hexagonal screwdriver, Spanner, Tool holder, Tool positioner, Dust collection hose, Regulator, etc.

**System requirements for USB connection**

- Computer: Windows® 8/8.1/10 (32/64 bit), Windows® 7 Ultimate / Professional (32/64 bit)
- USB cable: Use the included USB cable

**Roland DWX-4:**

Roland DG Corporation

www.rolanddg.com

Easy Shape

The Roland Easy Shape logo symbolizes the Company's philosophy in the dental industry. High-level products, first quality materials, and sophisticated, cutting-edge technologies combine to create the finest dental milling devices and precision results for your lab.

Roland DG reserves the right to make changes in specifications, materials or accessories without notice. Actual output may vary due to material properties and cutting conditions. New CAD/CAM systems may also require periodic maintenance to critical components such as the milling head. Please contact your Roland DG dealer for details.

No guarantee or warranty is implied other than expressly stated. Roland DG shall not be liable for any incidental or consequential damage, whether foreseeable or not, caused by defects in such products. Three-dimensional shapes may be protected under copyright.

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**Options**

<table>
<thead>
<tr>
<th>Item</th>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>4-position ATC</strong></td>
<td>*1 *2</td>
<td>ZAT-4D Number of tools housed: 4, Loadable workpieces supported: PIN type (small)</td>
</tr>
<tr>
<td><strong>Multi-pin-clamp</strong></td>
<td>*2</td>
<td>ZV-4D Loadable workpieces supported: PIN type (small), Number of loadable workpieces: 4 maximum, Loadable workpiece sizes: For 4 workpieces (Width x Depth x Height): Maximum 14.5 x 21 x 20 mm, For 3 workpieces (Width x Depth x Height): Maximum 20 x 21 x 20 mm</td>
</tr>
<tr>
<td><strong>Spindle unit</strong></td>
<td>ZS-4D</td>
<td>For replacement</td>
</tr>
<tr>
<td><strong>Milling bur</strong></td>
<td>ZDB-100D</td>
<td>R1.0mm milling bur for composite resin, ZDB-50D</td>
</tr>
</tbody>
</table>

*1 The 4-position ATC works with Roland's Virtual Machine Panel (VPanel), Ver. 1.1 or later.
*2 The multi-pin clamp cannot be used simultaneously with the 4-position ATC.
Roland is leading the digital dental revolution. Today, digital dental technologies are transforming every aspect of the dental industry. The days of tedious, manual production of crowns, copings and bridges are fast disappearing. The latest technological advancements in scanning, CAD/CAM software and CNC milling allow digital dental labs to deliver custom production with speed and precision. Better fit and aesthetics promote patient satisfaction, while labs enjoy greater productivity with faster turnaround and optimal accuracy and repeatability.

**Roland DWX-4. Dental milling machine.**

**Powerful yet easy to use.**

The DWX-4 is a versatile and advanced 4-axis milling with simple one-button operation. An automated tool changer provides two tools for precision milling from start to unattended finish. Monitoring production is enhanced by the large viewing area and LED-lit interior. A status light alerts the operator of any errors or malfunction to help prevent wasted time and materials and enabling lab technicians to carry out the milling process with confidence.

**Virtual Machine Panel.**

Unlike traditional CNC mills, Roland has replaced the complex controls with a user-friendly Virtual Machine Panel (VPanel) which operates machine diagnostics and the calibration and milling processes right from your computer desktop. The VPanel also tracks overall machine time for maintenance purposes.

**Glass cutting area for precision milling.**

The DWX-4 is equipped with an air blower and ionizer that prevents excessive dust buildup and a negative ion generator that neutralizes static electricity when milling PMMA. Adding to peace of mind, the DWX-4 includes a dust collection system and sensor that prevents the machine from starting if the vacuum is inadvertently left off. The ionizer is always active during the milling process.

**Backed by Roland.**

Roland dental milling machines combine superior performance with legendary reliability. Tens of thousands of Roland users in more than 133 countries rely on Roland's unmatched customer service and support. As a company, Roland DG's ISO 9001:2008 and 14001 certifications assure consistent quality in manufacturing.

**Economical open architecture.**

Open architecture allows the DWX-4 to work with the latest materials and CAD/CAM software so you're never limited by older technology. The DWX-4 works seamlessly with your existing scanner, oven and compatible CAD/CAM software while retaining the cost and capability of smaller, more affordable machines.

**A wide variety of materials.**

The DWX-4 is equipped to mill standard blocks and pin-type materials, including zirconia, wax, PMMA and composite-resin.