Drawing on more than 20 years of Roland’s proven milling technology, the highly affordable DWX series of CNC dental milling machines enable dental labs and technicians to consistently produce precision dental prosthetics every time.

The compact DWX dental mills offer all the functionality and support of larger machines in a convenient desktop design. Ideal for laboratories or office environments, the DWX dental mills deliver innovation and high-speed machining capability.

See how the following dental lab owners and managers around the world are using Roland technology to grow their businesses.
Embracing the Future of Digital Dentistry

A Ceramics, Ltd. | UK

DWX-50

In its Oldham laboratory, A Ceramics runs two Roland DWX-50 milling machines making dental restorations for practices throughout the UK. This in-house production allows them to quickly, easily and precisely mill wax for bonded and pressed work, and mill zirconia and PMMA (acrylic) for full contour crowns, temporary bridges and implant stents.

“I saw straight away that the cost-effective Roland machine would enable me to produce good quality restorations, consistently and accurately,” says owner Alan Bamford. “Digital is the way forward almost everywhere you look and dentistry is no different.”

The Roland DWX-50 is a five-axis machine which means it will mill undercuts, which was critical to Bamford’s decision to choose Roland and his confidence that if he can design it, the Roland can mill it.

“I used to hate producing temporary bridges but now I can just design them on the software, press a button and the machine produces them - that’s it,” Bamford said.

With their Rolands, half of A Ceramic’s workload is constructed through the day and the other half are milled through the night. Roland’s milling machines are fully automated and designed to be left unattended to efficiently complete their work. This allows A Ceramics to become more responsive and accommodate urgent jobs more easily.

“Without any shadow of a doubt, the Roland milling machines are the best business decision I ever made.” Alan Bamford, A Ceramics, Ltd

Dental Milling Streamlined

Continental Dental Laboratories | U.S.A.

DWX-50

Bryan Doviack, Chief Information Officer of Continental Dental Laboratories in Torrance, California, knew he needed to incorporate digital dental technology into his lab’s production. “Digital is the future. Doctors want it, the labs want it, and the patients want it.

“Basically you have to retool your whole operation to go digital, and that’s what we have done with the help of our Roland,” he said.

Continental, a full service laboratory with hundreds of employees worldwide, invested in the Roland DWX-50 5-axis dental milling machine. “We’ve had mills that cost eight times as much, and the quality of the Roland is equal if not better than those machines,” said Doviack. “The DWX is designed to mill zirconia, wax and plastic and it’s optimized to do so – it’s accurate, precise and compact.”

A high production lab, Continental runs its DWX-50 for 20 hours each day. Their second shift technician sets up the last unit to mill unattended late at night. “My favorite thing is how easy the DWX is to operate and to maintain. It ran right out of the box - no glitches, no gotchas. It just works,” says Doviak.

“According to us, the Roland DWX-50 is the best bang for the buck.”
Brian Doviack, Continental Dental Laboratories

Staying on the Vanguard in Digital Dentistry

Lab Ceram | Mexico

DWX-50

Joel Lopez is the Director of Lab Ceram, located in Mexico City, Mexico, a full service facility that prides itself on manufacturing quality dental restorations through the intersection of art, science and technology. “Our laboratory aims for consistent, efficient production of the highest quality dental prostheses,” said Joel. “That is why we chose Roland’s DWX-50 milling machine.”

Joel notes that his production workflow has evolved as digital dental technology has supplanted some of the more traditional techniques. “New tools like scanners demand new production methods,” he said. “We always seek perfection: controlled definition and high quality outcomes. With the DWX-50, we get excellent results day in and day out.”

Joel values the ease of use the DWX offers as well as the time savings over manual production. “It’s very simple; when we save production time, we are able to provide better service to our clients,” he said.

Joel also appreciates the versatility of his Roland dental mill with its open technology. “We find that whatever software or updated tooling we need to do to accommodate new techniques, we are able to incorporate it within our Roland system,” he said. “We have ultimate control over our process and materials.”

“With the DWX-50, we get excellent results day in and day out.”
Joel Lopez, Lab Ceram
CAD/CAM Revolutionizes the Dental Market in Latin America

Centro de Implantes Dentales | Venezuela

DWX-50 and DWX-4

Dr. Richard Rodriguez is one of the most recognized specialists in Latin America and Director of the Centro de Implantes Dentales, a dental clinic, laboratory and milling center located in Caracas, Venezuela.

Until recently, Centro de Implantes Dentales had to cope with delayed work from laboratories fabricating crowns and bridges and other dental pieces. The rework often required for adjustments resulted in loss of man hours and cancelled appointments with patients due to the lack of speed and efficiency.

For this reason, Dr. Rodriguez decided to invest in Roland DWX-50 and DWX-4 dental milling machines for their quality, speed, accuracy of results, return on investment, and the support provided by Roland. “In addition to these features, one of the key benefits of these mills is that they are based on an open system, letting us work with the 3Shape TRIOS Intraoral scanner,” said Rodriguez.

Centro de Implantes Dentales now enjoys better results and optimized resources without compromising the quality of their deliveries. His plans are to provide patients’ restorations in one visit and deploy the use of Implant Studio from 3Shape diagnosis and planning software for dental implant placement using surgical splints milled with the DWX50.

“The use of Roland CAD/CAM technology has broadened our range of business opportunities to provide the best quality and variety of options for my patients and clients.”

Dr. Richard Rodriguez, Centro de Implantes Dentales

“We Can Do Everything With That.”

Skdent | Germany

DWX-50

For Sven Keutner of the dental lab SKdent in Loshausen, Germany, the DWX-50 dental milling machine is a hit. “I have only praise for this machine. The possibilities are endless and the quality is excellent. In addition, this machine costs a fraction of what you pay for other apparatus.”

SKdent is a dental laboratory located in central Germany. It was founded in 2007 and employs 18 people. SKdent produces dental prostheses based on scans that they make themselves or that are supplied by their customers. Keutner notes, “We use the DWX-50 primarily for making zirconia dental prostheses, but we also work in PMMA and wax. The machine is very easy to operate. You master the process quickly, even if you have no experience with milling, and you can rely on the machine always producing high quality results.”

Lab Technicians Embrace Greater Productivity

Wada Precision Dental Laboratories | Japan

DWX-50 and DWX-4

Wada Precision Dental Laboratories is a major dental laboratory, with a network of offices across Japan. At the CAD/CAM Center of the lab’s Production Division, Shizuo Higuchi, Managing Director, and Norihiro Yoshitsugu, Assistant Manager, discussed their visions for the dental lab industry.

“Our company was founded in January 1958 by Hiroki Wada,” said Higuchi. “While constantly working to popularize metal bonding, a totally novel technique at the time, we have grown to what we are today; a company that handles a full range of dental prosthesis. We have been engaged in clinical application of CAD/CAM systems for 20 years.”

Yoshitsugu adds, “At our production facilities equipped with CAD/CAM systems, we process crowns of hybrid resin, PMMA resin and wax using the Roland DWX-50 dental mill. We also produce frames for the porcelain-fused-to-metal crown (PFMC), using the laser sintering technique and the DWX-4.”

“Currently, we have a total of 13 DWX-50 and DWX-4 units running at our branches,” Yoshitsugu said.

“At first we introduced the DWX for the purpose of processing wax and PMMA resin,” Higuchi said. “In recent years, however, in response to rapidly increasing demand for hybrid resin crowns, we have switched the use of practically all of the units to hybrid resin crown processing. Although we are busy as ever, our technicians now go home earlier than before.”
FOR COMPLETE SPECIFICATIONS AND FEATURES, OR MORE INFORMATION, CALL 800-542-2307 OR VISIT WWW.ROLANDDGA.COM/DWX
RDGA-DWXTestimonial-01

Creating a Great Environment in Which to Work
IW Dental Laboratory | England

IW Dental Laboratory was set up in 2009 by Ian Woolley, underpinned by a strong belief in the ‘Open Digital’ future for Dentistry.

“I have been involved with digital dentistry since the early days when models were sent off to milling centers to be designed and milled away from the Laboratory,” Woolley said. “I have always been interested in it and firmly believe it is the only way forward, especially now the open systems are making it far more affordable. Therefore we recently invested in a Dental Wings scanner and Roland DWX-50 milling machine.”

“The demands of our clients are always changing and we needed to be able to achieve the highest quality results, quicker and cheaper. The time saved using the open scanner and Roland milling machine has made a big difference to the lab. The team is finding deadlines easier to hit and are much more relaxed and able to concentrate on doing great porcelain work,” said Woolley.

“It certainly promotes a great environment in which to work in. We have adapted to a new work routine to take the DWX-50 into account.”

At IW Dental Lab, it is clear to see that all the technicians are happy with the new technology. With growing financial pressures on labs it would be understandable for resentment to show toward the new set up given it could be seen as a ‘human’ technician replacement. Laboratory Manager, Russell Jackson is quick to point out this has not been the case. “In fact it has been quite the opposite. They all love the fact they are under less time pressure and get great substructures to work on every time. Also the fact we are embracing technology keeps us all up to date as these new developments can only help us in the future.”

Adding a Digital Dimension to Capture Tremendous Growth
Dimension Dental Design | U.S.A.

DWX-50

Gary Iocco, president of the National Association of Dental Laboratories and president of the Midwest Dental Laboratory Association, has been using digital imaging and dental milling technology in his laboratory since the early 2000s. “We’ve seen tremendous growth in this technology over the past decade,” said Gary.

Gary owns Dimension Dental Design CDL in Hastings, Minnesota, a full service lab with a staff of 12. They rely on the Roland DWX-50 5-axis dental milling system to produce fixed dental restorations for clients throughout the upper Midwest.

“I talked to more than a dozen labs that have Roland dental mills and none of them have had any problems,” said Gary. “The Roland has one spindle – it’s very robust and designed for heavy lab use.”

Gary researched the business case for his investment as well. Since the DWX mills from a “puck” of material rather than a small block, his material costs were reduced by almost two thirds. “Even working with numbers from our slowest months, the DWX will pay for itself in material cost savings alone,” said Gary.

“In my opinion, any size dental laboratory can integrate dental milling technology, and there are very good business reasons to do so.” Gary Iocco, Dimension Digital Design

For more information on the DWX series of Roland dental milling machines, or to find a reseller near you, visit www.rolanddga.com/dwx.