



Designed
in USA

eX 5.5_D

Move toward freedom
without relying on compressed air.



90° vertical
milling



Integrated
servomotor



No
need for
compressed
air



The top half of the page features a dark, monochromatic background. On the right side, there is a silhouette of a palm tree. In the center, the logo for Nexum Dental is displayed. The word 'nexum' is in a bold, lowercase sans-serif font, with the 'e' highlighted in a vibrant purple. Below it, the word 'DENTAL' is written in a smaller, all-caps, spaced-out sans-serif font. In the foreground, the silhouettes of several office chairs and desks are visible, suggesting a modern dental office environment.

nexum DENTAL

ABOUT THE BRAND

At Nexum Dental, **we redefine the standard in dental equipment and supplies**, transforming the ordinary into the extraordinary.

Our headquarters combines **technological innovation with an unwavering commitment** to excellence, positioning us as a leader in the premium dental market.

We are a comprehensive provider of CAD/CAM solutions, integrating research and development (R&D), production, and sales, backed by a well-established R&D team. We have obtained numerous international certifications, such as CE, FDA, and ISO, **which guarantee the quality and reliability of our products.**

We specialize in importing and distributing products designed for dental laboratories and clinics that seek exceptional quality, ease of use, and an innovative approach. Inspired by the need to offer accessible solutions without compromising exclusivity, we provide advanced equipment and after-sales services that make a difference.

Our mission is clear: **to simplify processes, exceed expectations, and elevate the customer experience.** At Nexum Dental, we are driving a new era of technology in the service of dental health.

eX 5.5_D

Digital Revolution in Dental Milling

Designed for dental labs and clinics, the eX5.5D easily meets the demand for efficient and highly aesthetic outcomes. It streamlines workflows with 3 µm repeatability, guaranteeing precision in every operation.

**Say goodbye to noise
and complications.**

Start your milling journey with effortless Plug-and-Play setup. Say farewell to loud and bulky air compressors.

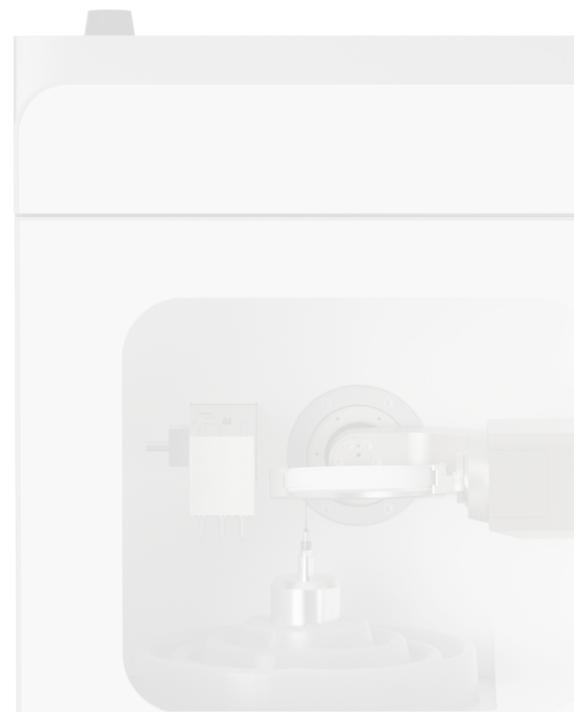
**No air
compression**

+

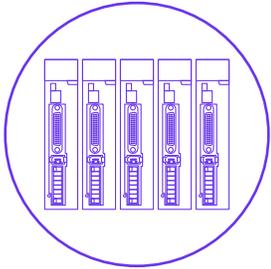
**simpler
installation**

=

menor costo



NEXUM DENTAL
CATÁLOGO eX 5.5D

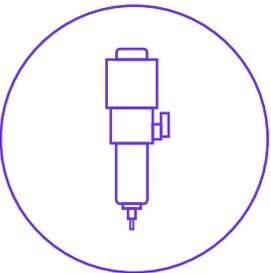


The smart Servo Drive

Stable Milling with Precision Down to the Micron

The full servo drive system precisely compensates for minor vibrations during the milling process, **ensuring stable, efficient, and continuous production around the clock.**

It achieves precision machining, perfectly handling even the most complex restoration.



High-Quality Spindle

German Engineering, stronger and Air-free

Featuring a **German 100,000 rpm high-power electric spindle**, P55D offers reliable performance for milling complex cases and hard materials. Its compressed air-free design streamlines operations—**Simply plug and mill.**

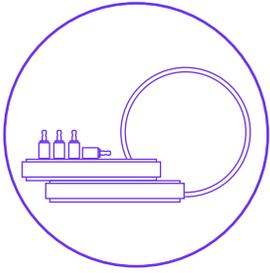


Smart Remote Control

mill manage at your fingertip

Utilize MillMind app for smart remote control, coupled with smart milling alerts and tool life monitoring. **This reduces downtime and significantly enhances efficiency, making the workflow more effective.**

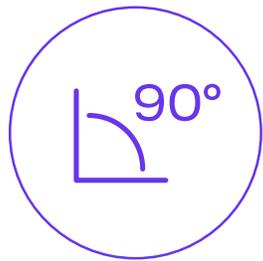




Material Flexibility

Supports a variety of popular materials such as **Zirconia, Wax, PMMA, PEEK, composite resin and soft metals.**

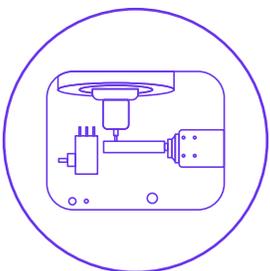
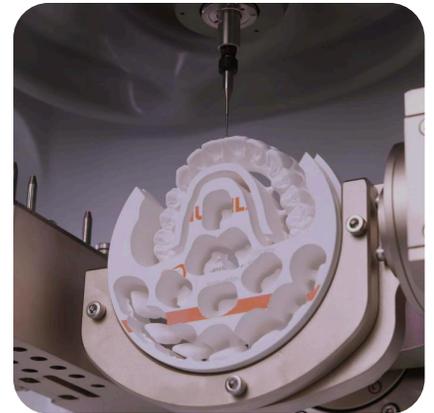
Compatible with both disc and block formats, it offers custom-tailored, efficient restoration solutions to meet the needs of diverse cases.



90° Milling

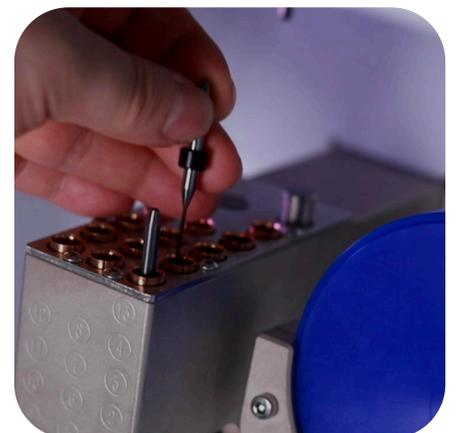
Recreating Aesthetic Details Perfectly recreate the detailed contours of teeth with 90-degree vertical milling.

This method precisely machines textures on the labial (or buccal) sides, reducing handmade processing time and ensuring optimal results.



Precision Milling

Equipped with a custom **0.3mm** micro-carving milling cutter and a **0.6mm** extended milling cutter, P55D achieves precise milling of facial details, producing restorations that closely resemble natural teeth.



MATERIALS



ZirPrime



TempPrime
(PMMA)



PeekPrime



Composite Resin

	Coping/ Full Crown	✓	✓	✓	✓
	Three-Unit Bridge	✓	✓	✓	✓
	Inlay/Onlay	✓			✓
	Veneers	✓			✓
	Screw-Retained Crown	✓	✓		✓
	Custom Abutment	✓		✓	
	Thimble Bar	✓		✓	
	Partial Denture Frameworks	✓	✓	✓	
	Superstructures Over Bars	✓	✓		
	Full Dentures		✓		
	Full Dentures without Teeth		✓		
	Bite Splint		✓		

Características Clave



01 | INTEGRATED DUSTPROOF DESIGN

Silicone seal that prevents dust entry, reduces wear, and extends the machine's lifespan.



02 | LARGE WORKING CHAMBER

Larger milling space that improves material handling and boosts work efficiency.



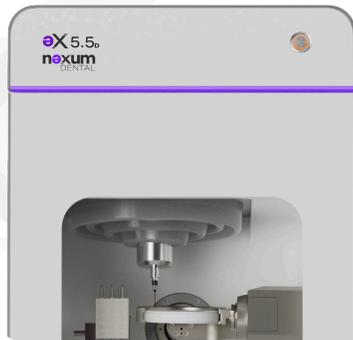
03 | IONIZER

Eliminates static in debris like PMMA, simplifying cleaning and reducing maintenance costs.



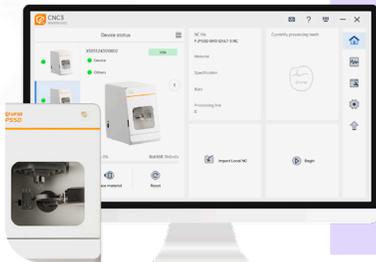
04 | INNOVATIVE C-CLAMP DESIGN

Wider area for buccal-side milling, optimizing layout and material usage.



05 | PROGRESS LIGHT BAR

External LED that displays real-time progress and reduces the need for manual supervision.



06 | AUTOMATIC RESUMPTION

Simultaneous management of several machines in real time to save space and resources.



07 | CNC MULTI-MACHINE CONTROL

Milling resumes automatically after interruptions, **improving productivity by up to 80%**.



08 | ONE-CLICK AUTOMATIC CALIBRATION

One-click calibration ensures precision and stability, reducing errors and saving materials for greater efficiency.

Technical Specifications

GENERAL	Fields of Application	Dry machining
	Materials	Zirconia, wax, PMMA, PEEK, composite resin, soft milling CoCr sintering metal
	Material Specifications	Discs: height 10-30mm, diameter 98.5mm Blocks up to 40x20x20mm (Max)
	Indications	Crowns, anatomical crowns, screw-retained crowns, inlays, onlays, veneers, telescopic crowns, abutments, bite splints, full dentures etc.
BASE SYSTEM	Construction	Machine bed made of solid cast aluminum body
	Number of Axes	5
	Housing	Steel, white high-gloss lacquer finish, main front housing: injection-molded
	Linear Axes (X/Y/Z)	Precision ball screw drive; Travel: 104x60x100mm
	Rotary Axes (A/B)	A-axis: 360°; B-axis: ±33°
	Control Unit	5-axis precision full servo drive system
	Lighting	LED lighting inside the working chamber, with additional status indication
	Power	1.0 kW
SPINDLE	General	High-frequency spindle, automatic tool change, no air cooling required
	Speed	Up to 100,000 rpm
	Tool Holding	Diameter $\Phi 4$
	Power	Máx. 0.8 kW

AUTOMATION

Tool Change

Tool magazine for 13 tools, length measurement and tool breakage monitoring via precision measuring key

CONNECTION REQUIREMENTS

Voltage

100VAC-130VAC, 200VAC-235VAC (selectable), 50~60Hz

Dust Extraction

Filter level: M; Flow rate: 2500L/min

Data

Wi-fi, USB, Ethernet port

ENVIRONMENTAL CONDITIONS

Operating Temperature

Between 10° and 35°

Air Moisture

Below 80% (relative), non-condensing

DIMENSIONS & WEIGHTS

Dimensions (W/D/H)

442×560×704 mm

Weight

106 kg





Designed
in USA

nəxum
DENTAL



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