DentalEZ & NevinLabs™ Equals

151 Years of Combined Experience

Ergonomics has long been a part of dental operatory design for DentalEZ. Now the DentalEZ Group and NevinLabs are bringing ergonomics to the dental laboratory.

Ever since introducing sit-down dentistry with the J-Chair® in 1958, DentalEZ has been pioneering the importance of ergonomics in dental equipment. NevinLabs products have been known for their quality and durability since the 1920s. We now bring the two together to offer new ergonomically designed benches for the dental lab.

History of NevinLabs

1920-1928 Operated as McCabe Equipment Company (Lab cabinets were wood)

1928-1987 Operated as Coe Laboratories (Metal cabinets started in the 40s due to price of wood vs. price of steel and moisture in the labs)

1987-2007 Operated as Nevin Laboratories

2007 - Now NevinLabs, as part of the DentalEZ Group

NevinLabs has designed, built and installed more dental lab furniture than any other company in North America

Products Offered

Lab Benches
Bench Task Lighting
Seating

Lab Handpiece System
Dust Collectors
And many more accessory items
Ergonomics is the science of designing the workplace environment to fit the user. To bring ergonomics into the laboratory environment, we looked at the commonalities of lab technicians by conducting research on the human form using a 95th percentile male and a 5th percentile female. We studied how to design our workbenches to adapt the machine to the person.

To assess the fit between a person and his or her workspace, we consider the job being done, the demands on the lab technician, and the size, shape and location of the equipment used. These considerations led to the many areas of bench design where ergonomics is critical, including seating, work surface, head/eye, reach and work zone.
What the Research Shows

Our stools put lab technicians in the correct position for maximum efficiency and comfort, based on research of proper seating and working height. Ergonomically engineered stools enable users to position themselves properly for both visual accessibility and physical well being. Proper seating posture includes placing one's feet flat on the floor, hips slightly above knees, lower legs perpendicular to the floor, and using a seat with a tilt feature that allows the user to cant the seat 10-15 degrees.

![Diagram of proper seating posture]

<table>
<thead>
<tr>
<th>Working Height</th>
<th>95% Male / 5% Female</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working Height</td>
<td>34.0” / 30.0”</td>
</tr>
<tr>
<td>Lifting Lower Arm</td>
<td>5.5” / 4.0”</td>
</tr>
<tr>
<td>Elbow Height</td>
<td>11.8” / 8.0”</td>
</tr>
<tr>
<td>Sitting Height</td>
<td>19.0” / 25.0”</td>
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</tbody>
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- **Simplicity® Stool**
- **Polyurethane Stool**
Field Height Research

Working field height research determines how tall a countertop has to be for a person to be working ergonomically. Positioning the countertop at a comfortable height for the majority of technicians can help improve posture and reduce fatigue.

- A 95th percentile male is 6 feet 1½ inches tall and weighs 225 lbs;
- A 5th percentile female is 5 feet tall and weighs 110 pounds.
Head/Eye Viewing Area

Head and eye research determines the ergonomic viewing area with maximum head and eye rotation. Placing everyday tasks within the prescribed range is critical to reducing glare and eye fatigue, and can help enhance productivity.

Head/Eye Viewing Limits

Viewing & Reaching Limits
**Shelving Reach**

The best location for the shelves was determined by finding the common area of comfortable upward reach of a 95th percentile male and a 5th percentile female. This is an important factor in reducing the potential for injury.

**Working Zone**

Both eye rotation and side to side reach data were used in calculating the optimal distance from work surface to lab technician. When this distance is within comfortable limits, technicians feel less confined and better able to focus on their work.
ERGOEZ™ BY NEVINLABS™

A survey completed by over 7,000 lab owners revealed that the most important features in a bench are height/width, lighting, dust collection system and drawers. With this in mind, ErgoEZ benches were developed with reliability, functionality and ergonomic design as the top priorities.

Features

- Dependable, steel construction with powder coated finish
- Personal bench height options of 34”, 32”, and 30”
- Adjustable arm rests that move side to side
- Variable speed dust collector with automatic or manual settings
- Modern, removable dust hood with shield
- Motor control panel with illuminated power switch and indicator lights
- Optional task lighting and magnifying lens

- Solid ½” work surface
- Stainless steel scrap drawer
- Choice of 3 drawer sizes
- Gas valve and retractable air blowgun
- Optional lab handpiece
- Single, back to back, side to side, and custom
- Shipped partially assembled, pre-piped for gas/air, pre-wired for electric, does not include final hook-up

Note: Shelves and lights require assembly
Intelligent Drawer Design

The intelligent drawer design on ErgoEZ benches has a multitude of configuration options to fit your specific needs. Plus, you can choose a drawer face accent color to customize the look of your bench. The workbench tool holder puts tools within easy arm reach and is angled up for maximum ease of deployment. Drawer Configuration A is standard on the ErgoEZ. Other configurations shown below are optional and available for an extra cost.

- Inside Drawer with Removable Tray
- Tool Holder
- Outside Drawer

Available in 3 drawer sizes (3.94", 7.87" and 11.8") and 6 configurations.
Work Surfaces

High-pressure plastic laminate available upon request.

Solid Surface

Drip Edge Detail

The intended drip edge is positioned beneath the countertop work surface ½” back from the leading edge, which is 1” from the vertical surface. This simple lineal routing feature will prevent spills from entering the drawers.

Solid Surface Color Options

- Sanded Gray
- Sanded Vermillion

Custom colors available upon request for an additional charge.
**The Ergonomic Working Zone**

The ergonomic working zone determines the location and angle of the arm rests on the lab bench.

**Individual Dust Collecting System**

Each technician may control the suction volume at his/her workstation. Dust is collected in a disposable filter bag that captures particulates larger than 7 microns, and a secondary cartridge micro-filter captures particulates to 4 microns. The control panel includes indicator lights, which monitor the performance of the filter bag and dust collector motor. When the filter bag needs replacement or the motor requires service, the indicator light is on and the motor automatically shuts off to prevent damage to the system.

**Arm Rests**

Arm rests provide an expanded arm support surface for increased comfort and dexterity range. The arm rest facilitates left to right adjustment, giving user control of best ergonomic location.

The arm rests accommodate support of the partial forearm/wrist to alleviate fatigue without generating undue pressure on the median and ulnar nerves, providing maximum comfort.

**Nerves affected by Arm Rests**

![Diagram of nerves affected by arm rests]
Bench Lighting
Workstation bench lights provide broad ambient lighting over your entire bench. A parabolic louver ensures glare-free, precise lighting, which reduces eyestrain and fatigue. Enjoy the benefits of natural daylight with full spectrum lighting for true color fidelity.

Flexible Shelving
Enhance productivity with flexible shelving. A number of options can be freely located and organized via the modular shelf rail, freeing up work surfaces and adding flexibility.

Energy Efficient LED
Conserve energy and save money with the precision LED Task Light. Using only 5 watts total energy consumption, its 5500K color temperature reduces eye strain and provides true color matching.
LABPRO™ BRUSHLESS HANDPIECE SYSTEM

Work more efficiently with the LabPro handpiece. Designed with ergonomics and functionality in mind, this lightweight handpiece reduces hand fatigue and makes it easier to work for extended periods of time.

**Handpiece Features**
- Brushless micromotor
- Smooth rotation
- Maximum torque 8.7 N¢M
- Powerful and consistent torque across the entire speed range
- Minimal vibration and noise
- Dust-proof mechanism
- Integrated into NevinLabs Benches
- Available with foot control or knee control
- Lightweight, compact handpiece reduces fatigue and improves balance
- Weighs only 0.48 lbs

**Foot Control Features**
- Provides more working surface
- 1,000 - 50,000 rpm
- Auto clean function
- Weighs only 7.04 lbs.
- 9-1/2” W x 11-1/2” D x 4-1/2” H
- 1,000 - 50,000 rpm
- Digital speed display
- Weighs only 8.36 lbs.
- 3-1/2” W x 10-5/8” D x 9” H

**Knee Control Features**
- Provides more working surface
- 1,000 - 50,000 rpm
- Digital speed display
- Weighs only 8.36 lbs.
- 3-1/2” W x 10-5/8” D x 9” H

**MODEL / PART NO.**
- **LabPro-F / TTMSFC**
  Torque type motor system with foot control
- **LabPro-K / TTMSKC**
  Torque type motor system with knee control
- **LabPro Motor / TTMO**
  Torque type motor only
- **LabPro Handpiece / TTTHO**
  Torque type handpiece only
- **LabPro Foot Control / FCO**
  Foot control only
- **LabPro Knee Control / KCO**
  Knee control only
LAYOUTS

NevinLabs is committed to meeting your custom layout needs. The examples below show flexible layouts using the new ErgoEZ bench.
The flexible design of ErgoEZ offers your choice of the standard configurations shown here. You can also create your own customized bench by adding modular steel cabinets to the ErgoEZ design.

- **Single without sides**
- **Single with sides**
- **Single without sides; with shelving**
- **Single with sides and shelving**
Side to side with sides

Back to Back

Side to side with shelves and lights

Back to Back

Designed to allow free movement from one workstation to the next.
COLOR OPTIONS

Steel Color Options

Postal Blue  Backdrop  Electric Blue  Newport Blue  Teal  Chocolate Brown  Nevada Beige

Patriot Red  Rose  Mauve  Bisque  French Grey  Fashion Grey  Artic

Custom colors available upon request for an additional charge.

Solid Surface Color Options

Sanded Gray  Sanded Vermillion

Custom colors available upon request for an additional charge.
PLANNING SERVICES

No other company in North America has designed, built and installed more dental laboratory furniture than NevinLabs. Our customers include commercial laboratories, dental and medical schools, vocational schools, Veterans Administration hospitals and clinics, correctional facilities, industrial and research laboratories, and private healthcare practitioners. NevinLabs listens carefully to the owners and works closely with architects, contractors, and interior space planners.

Our objective is to provide you with a functional, cost-efficient plan that maximizes your productivity. To help make your dream a reality, download our free Planning Guide at dentalez.com. This helpful tool allows us to better understand the present operation of your laboratory and what you’d like it to become. Once you’ve completed the Planning Guide and returned it to us, we can begin developing a plan that makes sense for you. When you approve the plan and place your order, NevinLabs will provide shop drawings for your contractor.
To place an order or find out more information, visit www.DentalEZ.com or call 800-544-5337.