



DENTAL

Operatory Solutions



dhpsupply.com | 800.626.2163

Designing Better Care



**WE BELIEVE THAT BETTER CARE STARTS WITH
A BETTER DESIGNED CARE ENVIRONMENT.**

Envision a dental operatory reimagined to elevate care—where human-centered design redefines comfort, reliable precision defines safe delivery and uncompromised clarity lights the way forward. Let us help you design better care.



Exceed Expectations

In today's demanding care environment with more patients, tighter schedules and higher expectations at every touchpoint, Midmark Operatory Solutions can help you focus on what matters most: elevating care and improving outcomes for your team, your patients and your practice. Choose solutions designed to support musculoskeletal health, enhance safety and optimize workflows.

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FOR BETTER CARE

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SCAN OR CLICK TO VIEW
OPERATORY SOLUTIONS

Better Insight for Better Care

Know how your equipment is performing so you can focus on the people who matter most.

Midmark Smart View™ is a cloud-based service* designed to maximize the value of Midmark products by providing

- real-time performance insights,
- proactive maintenance tracking,
- compliance tracking and reporting,
- and software updates

through the online myMidmark portal.

With continuous enhancements and feature upgrades, Smart View can help eliminate the risks of outdated technology, while enhancing performance to support long-term efficiency and compliance.

** Some features may require an active Smart View plan*

At Midmark, we harmonize clinical space, workflow and technology to design better care experiences.

EXPERIENCE THE NEW MIDMARK DENTAL

With new connected technology and enhanced operator, instrument processing and mechanical room solutions, the new Midmark Dental is helping set a new standard and advance what's possible in dental care. **Discover how we can design better care together.**



**SCAN OR CLICK TO LEARN
HOW TO CONNECT**



SEE THE WHOLE PICTURE

Access usage trends, compliance data and equipment status for your connected Midmark solutions from one secure dashboard, whether you manage one location or many.



ENHANCE PERFORMANCE

Connect your dental chairs, delivery systems and LED lights for ongoing software updates designed to enhance equipment performance and workflow.



STREAMLINE EQUIPMENT MANAGEMENT

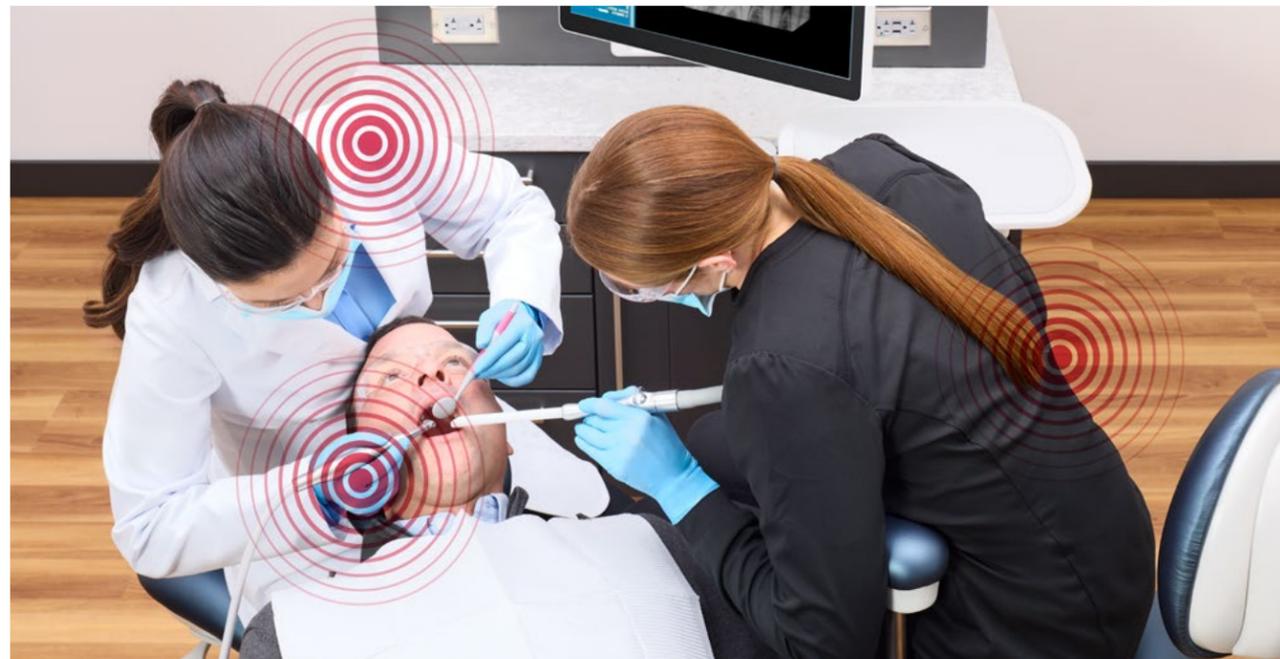
Manage connected sterilizers across your organization to help improve workflow efficiency, simplify compliance and protect the lifespan of your equipment.



KEEP CARE MOVING

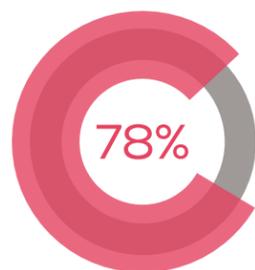
Receive routine maintenance notifications and critical alerts for your connected air compressors and dry vacuums to help minimize downtime and keep care moving.

Support Musculoskeletal Health



DID YOU KNOW?

Musculoskeletal disorder (MSD) symptoms can develop sooner than you may expect—over weeks or months rather than years.¹



Of dental professionals reported musculoskeletal diseases and pain over a 12-month period²

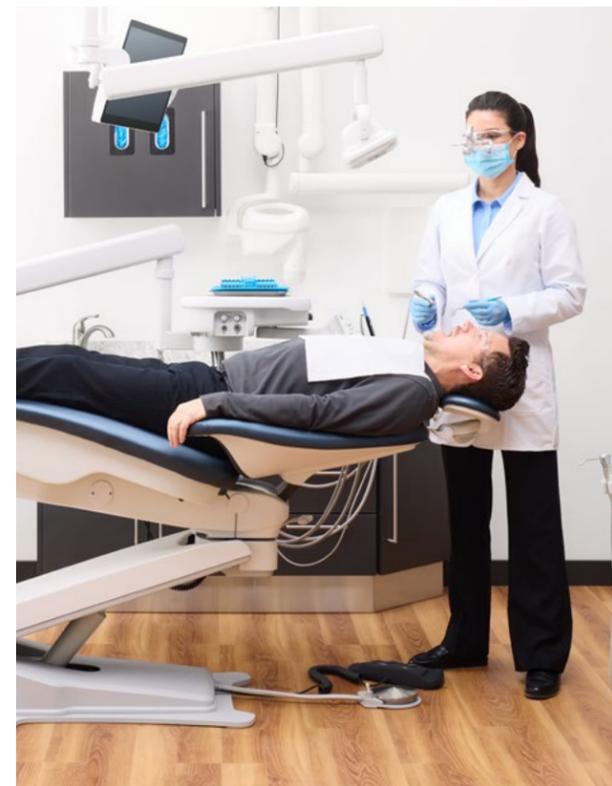
DESIGNED FOR YOU + YOUR TEAM

Did you know nearly 80% of dental professionals experience musculoskeletal pain in any given year?²

Research shows that a combination of prolonged sitting, repetitive motions and awkward postures all contribute to pain and musculoskeletal disorders (MSD)—which appear in dentistry as early as dental school and are a leading cause of early retirement among dental clinicians.³

The key to increasing career longevity while decreasing pain and MSDs is equipment and an environment ergonomically designed to work with your body, not against it.

1, 2, 3 See back page for details and sources



STAND UP FOR BETTER HEALTH

Studies show the risk for increased fatigue and injuries can be reduced by combining sitting and standing occupational postures.⁴ With 19 inches of vertical travel, the Midmark Dental Chair helps optimize posture and access for clinicians between 4-feet-11-inches tall and 6-feet-2-inches tall (from the 5th percentile female to the 95th percentile male)⁵ in both seated and standing working positions.

Tip: Adjust the chair to keep the patient's maxillary or mandibular plane parallel to your forearms and elbows, relieving tension in your neck and shoulders.

KEEP ESSENTIALS WITHIN REACH

Keeping essential equipment within reach helps reduce repetitive bending, reaching and large-scale movements that can lead to strain. Midmark Dental Delivery Systems are designed to support ergonomic workflows with options and features like a pivoting worksurface that brings instruments closer to your neutral zone, a pivoting arm that helps position the left/right delivery system at the point of care and a column-mounted option that adjusts 16" vertically to accommodate clinicians whether seated or standing. For added stability, chair-mounted delivery systems are mounted to the chair base rather than the seat—helping maintain positioning even when the patient shifts.

Tip: When choosing your delivery system, consider how mounting location and reach affect access, workflow and clinician positioning.

4, 5 See back page for details and sources

REDUCE EYE STRAIN

Quality, well-positioned clinical lighting is key to reducing shadowing in the oral cavity, avoiding eye strain and maintaining a neutral, supportive posture. The Midmark Dental LED Light delivers clear, precise illumination and an ergonomic three-axis design that offers total control with pull, tilt and twist options so you can easily adjust the positioning of your light. You can also choose from a variety of mounting options to best fit your treatment room and working style.

Tip: To reduce shadows, ensure the light is within 15 degrees of your line of sight. This angle allows appropriate light to reflect when working with a mirror on the maxillary arch while sitting at the 12 O'clock position. If you begin to lean forward and the light becomes obstructed, readjust your posture to expose the light.

Enhance Safety



DESIGNED TO PROTECT YOUR PATIENTS

Dental unit waterlines (the tubes connecting your instruments to a water source) are at high risk of microbial contamination.⁶ Without effective interventions, they are prone to become breeding grounds for harmful microorganisms and biofilms.^{6,7}

5 Days

Is all it takes for bacterial counts to reach up to **200,000** colony-forming units (CFU)/mL after the installation of new dental unit waterlines⁸

500 CFU/mL

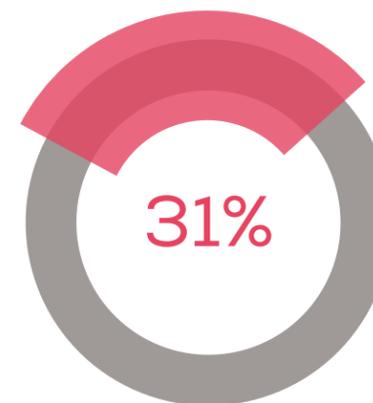
Of heterotrophic bacteria is the maximum allowable for safe water in non-surgical dental procedures, according to CDC guidelines^{7,9}

Know the Risks

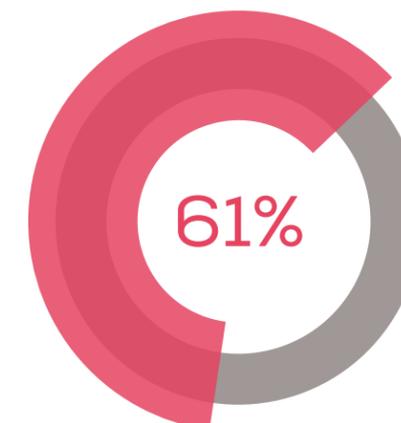
Waterlines with unsafe levels of contamination can cause devastating harm to your team, your patients and your practice. They can lead to illness and even life-threatening infections not only in patients, but also in clinicians through bioaerosols.^{6,10,11,12}

22,000

Dental unit waterlines were examined in a treatment efficacy study.¹³



Of treated water lines contained more than the CDC-recommended maximum of 500 CFU/mL¹³



Of studied practices contained at least one failed waterline¹³

KEEP PATIENTS SAFE

Combining a consistent waterline maintenance protocol with an intentional delivery system design can effectively improve waterline safety and help prevent infection.

The Midmark Dental Delivery System is designed to help limit biofilm growth and tested in accordance with ISO 16954:2015 methods. Midmark waterlines are designed with minimized waterline surface area to reduce stagnant water and a control manifold that separates air and water and rotates fresh water to help prevent residual water buildup.

Optimize Workflows



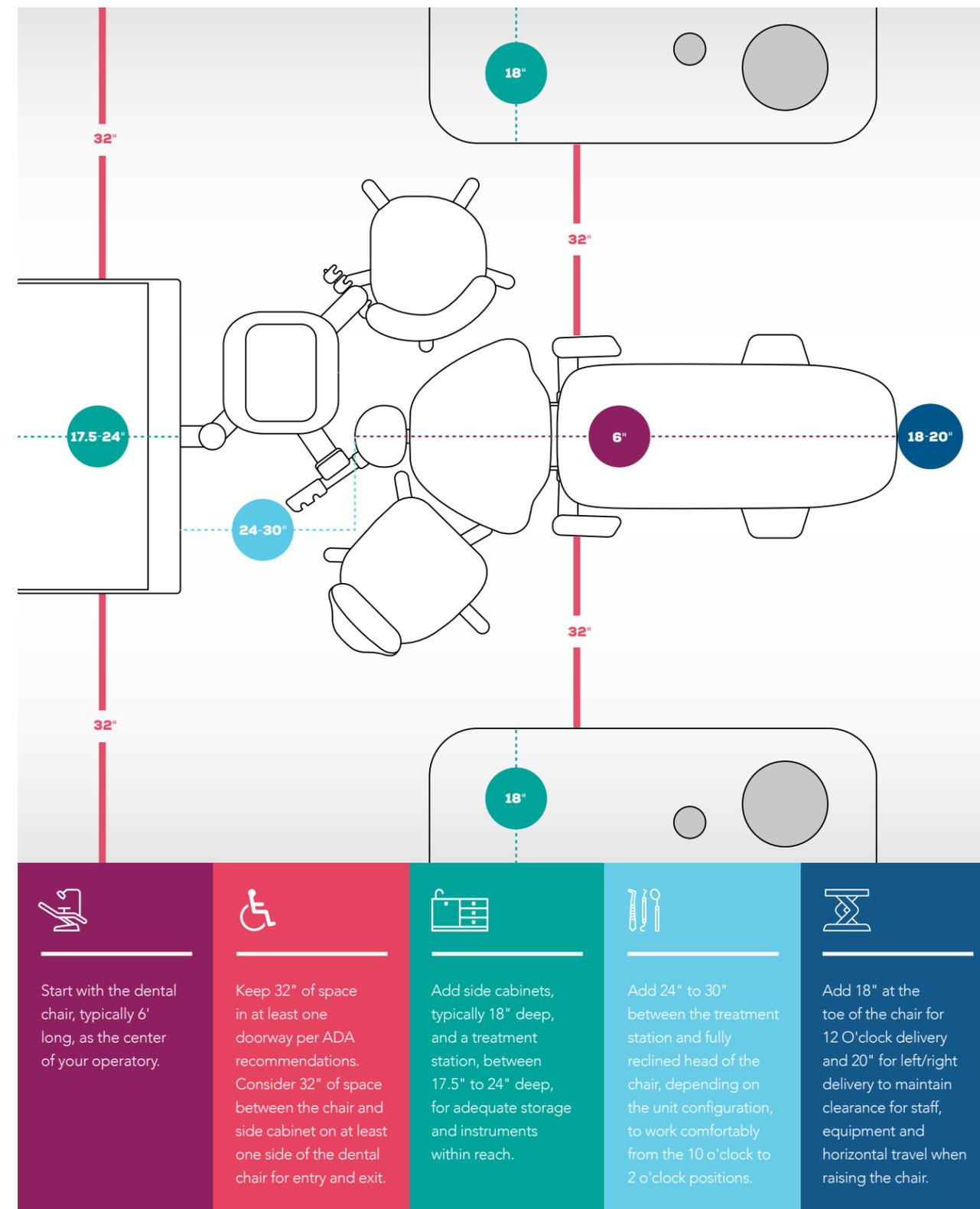
DESIGNED TO ELEVATE YOUR PRACTICE

To support optimal workflow and ergonomic efficiency, best practices recommend allocating approximately 120 square feet per operatory—measuring 10 feet, 4 inches wide by 12 feet deep.

These dimensions support efficient equipment placement, provide maneuvering room around the chair and ensure ADA clearance compliance. They also help keep worksurfaces, instruments and the patient's oral cavity within easy reach during procedures. In contrast, smaller operatories can compromise efficiency—limiting worksurfaces, reducing storage and placing essential components out of reach, ultimately disrupting your clinical workflow.

PLAN FOR EFFICIENCY

Start with the dental chair as your anchor, then layer in essential clearances, worksurfaces and equipment. This dual-entry design supports ergonomic access, streamlined workflows and optimal use of space.





Things to Consider



ROOM SIZE + LAYOUT

Do your operatories comfortably accommodate your equipment, workspaces and workflow?

The right layout provides enough space for equipment, supports ADA compliance, reduces wasted motion and streamlines workflow. That's a lot to plan and get right on your own—especially when every design decision impacts how you work.

Consider working with an experienced dental practice designer to optimize your space. **Midmark Design Experts** can help you create beautiful, functional operatories that support your workflow and enhance patient comfort.



ELEVATING PATIENT EXPERIENCES

Have you considered the power of a dental chair to drive patient referrals?

Studies report 70% of dental patients say their overall experience matters as much as the treatment.¹⁴ An uncomfortable dental chair can leave a lasting negative impression.

Consider a dental chair designed to deliver both performance and comfort. **Midmark Dental Chairs** support patients weighing up to 500 lb and offer multiple points of adjustment to provide a secure, comfortable experience. Adding integrated heat and massage can elevate care into a spa-like experience—exceeding expectations and driving referrals.



ERGONOMIC PRINCIPLES

Do your operatories help minimize strain and support ergonomic positioning?

About 80% of dental professionals experience musculoskeletal pain in any given year.² Poor ergonomics can shorten careers, reduce productivity and increase discomfort.

Consider stools designed to work with your body, not against it. **Midmark Dental Stools** are engineered to improve posture and comfort with features like a contoured seat, lower-back support and a waterfall front edge for better weight distribution.



INFECTION PREVENTION

What impact could one infection control incident have on your reputation?

CDC data shows dental unit waterlines are prone to biofilm formation, which can result in bacterial counts that exceed safe water standards.⁸ Contaminated waterlines risk patient safety, lawsuits and practice reputation.

Consider a delivery system designed to help manage biofilm. The **Midmark Dental Delivery System** minimizes waterline surface area and separates air and water while circulating fresh water supply to help reduce stagnation and biofilm growth, supporting safer water quality.



FLEXIBLE LIGHTING OPTIONS

Do your operatory lights help you see clearly without causing fatigue?

Lighting quality affects visibility, accuracy, ergonomics and eye strain. A high color rendering index (CRI) ensures natural-looking colors for diagnosis and shade matching.

Consider lighting designed to enhance clarity, efficiency and ergonomics. The **Midmark Dental LED Light** features a high color rendering index (CRI >90) for optimal color clarity, handles and buttons positioned on both sides for enhanced ergonomics, and auto on/off activation for more efficient workflows.



CONNECTED ADVANTAGES

Are your operatories designed to stay at peak performance?

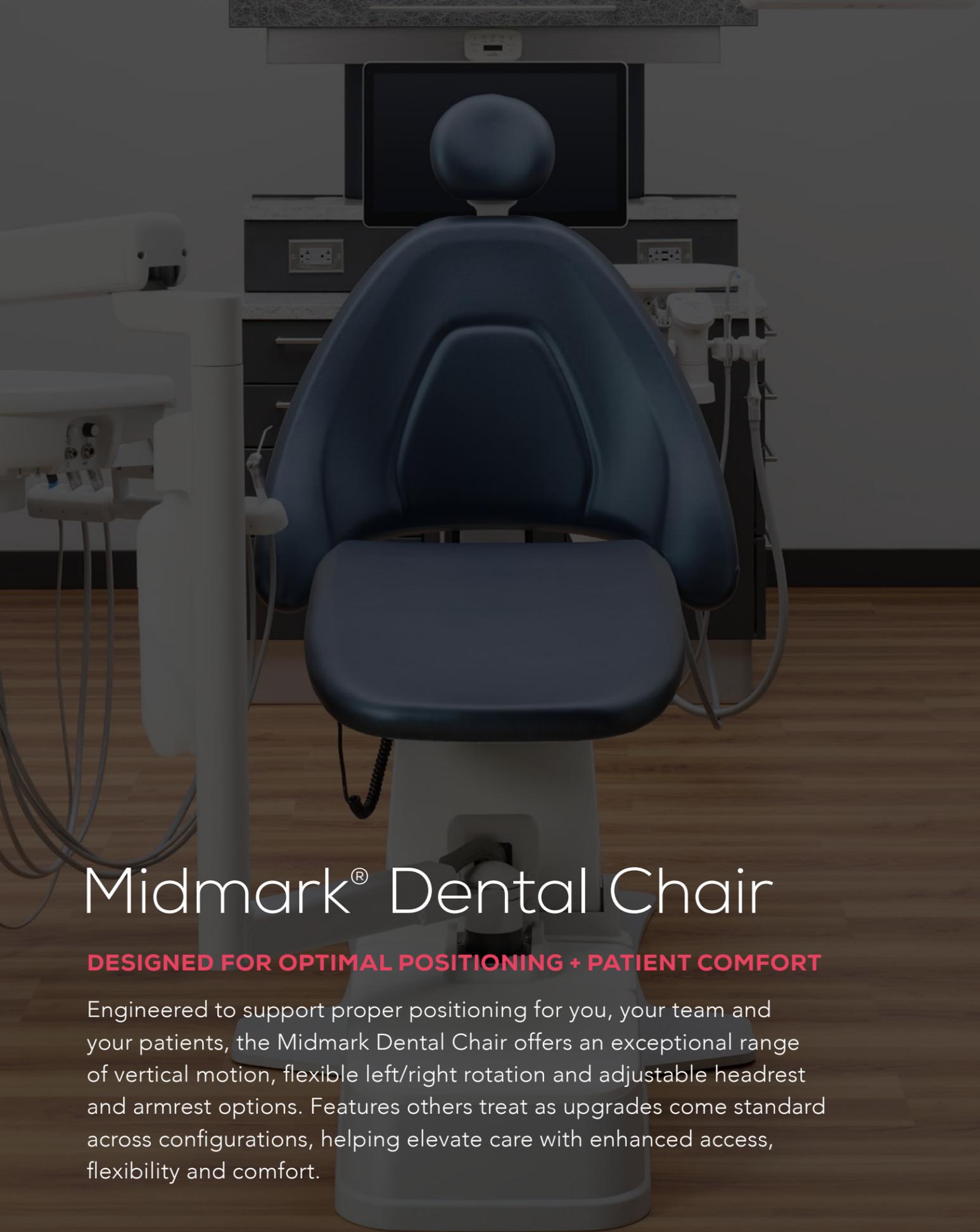
Today's dental equipment is powered by advanced, integrated technology that helps drive efficiency and precision. But as systems become more complex, even minor technical issues can interrupt care and lead to costly downtime.

Consider equipment designed to connect for greater reliability and performance. **Midmark Smart View™** connectivity enables software updates and refinements that help prevent issues, minimize downtime and keep your equipment performing at its best.

Midmark[®] Products + Solutions



SCAN OR CLICK TO
VIEW PRODUCTS



Midmark® Dental Chair

DESIGNED FOR OPTIMAL POSITIONING + PATIENT COMFORT

Engineered to support proper positioning for you, your team and your patients, the Midmark Dental Chair offers an exceptional range of vertical motion, flexible left/right rotation and adjustable headrest and armrest options. Features others treat as upgrades come standard across configurations, helping elevate care with enhanced access, flexibility and comfort.



BACKREST OPTIONS

Choose from three distinct backrest styles to suit your preferences and practice needs:



INTEGRATED BACKREST WITH
INTEGRATED ARMRESTS



SIMPLICITY BACKREST WITH
TWO-POSITION ARMRESTS



ADJUSTABLE BACKREST WITH
OPTIONAL ARMRESTS

CHAIR CONFIGURATIONS



CHAIR ONLY



LEFT/RIGHT

Dental Chair Features

01 RANGE OF MOTION

Easily sit or stand during procedures with the cantilever forward base design, providing 19 inches of vertical adjustment while limiting horizontal traverse to less than 6 inches at the chair's toe.



02 WEIGHT CAPACITY

Help patients feel secure and relaxed with a seat sized for comfort, a sturdy base tested to support up to 500 lb—about 72% more than the 95th-percentile male¹⁵—and a quiet electric motor system that lifts and lowers smoothly, even under the maximum weight.



03 HEAT + MASSAGE

Include optional heat and massage to create a serene, spa-like experience that can help reduce patient anxiety and improve the patient experience.



04 COLLISION PROTECTION

Help prevent accidental injury or damage with built-in collision protection that halts downward motion and slightly raises the chair if an obstacle is encountered.



05 CHAIR ROTATION

Rotate the chair up to 30 degrees left or right to enhance access, improve posture and make more efficient use of your operatory space.

06 INTEGRATED ARMRESTS

Enhance patient comfort with the integrated armrests option, designed to cradle the patient's elbows and inner shoulders.

07 LIMITED-SEAMS UPHOLSTERY

Simplify cleaning and disinfection with limited-seams upholstery that helps minimize crevices where dirt, debris and pathogens can collect.



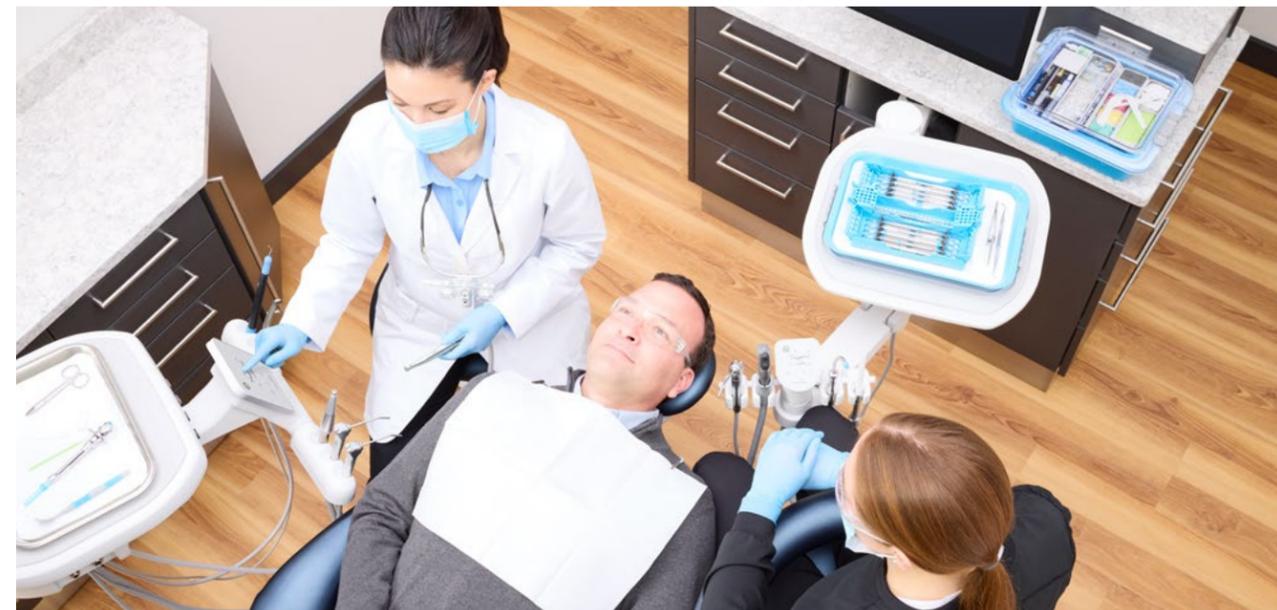
08 ADJUSTABLE BACKREST

Lift or lower the adjustable backrest option by up to 3¾ inches to provide tailored support for patients across a broad range of body types.

Midmark® Dental Delivery System

DESIGNED TO ADAPT, PERFORM + PROTECT

The Midmark Dental Delivery System is built for today's workflow and tomorrow's innovation. Engineered for reliable positioning, enhanced waterline safety and seamless integration, it's a smart, future-ready solution to help you deliver safe, efficient and exceptional care with ergonomic precision and control.



DOCTOR'S SYSTEM MOUNTING OPTIONS



CHAIR – LEFT/RIGHT (Doctor-Only System)

The left/right arm mounts at the chair base, not the seat, to provide reliable stability, even as the patient moves.



CABINET – 12 O'CLOCK (Doctor + Assistant System)

A streamlined, cabinet-mounted design keeps instruments within reach but out of patients' sight, helping ease their anxiety.



COLUMN – 12 O'CLOCK (Doctor + Assistant System)

Offering 16 inches of vertical adjustment, the column-mounted system can move with you for seamless sit-to-stand workflow flexibility.

ASSISTANT'S SYSTEM MOUNTING OPTIONS



CABINET



CHAIR

Delivery System Features

01 INFECTION PREVENTION

Enhance safety with a manifold assembly that keeps fresh water circulating and waterlines that feature a minimized internal surface area—components that help prevent stagnation and limit the initiation and spread of biofilm. The effectiveness of biofilm prevention and treatment is evaluated using ISO 16954 methods.



02 EASY-ACCESS CONTROLS

Streamline procedures with water control knobs that are easy to access and adjust, right at the front of the unit.



03 COLUMN-MOUNTED ADJUSTABILITY

Support healthy posture and movement throughout the day. The column-mounted system option offers an industry-leading 16 inches of vertical adjustment, plus optional tilt, to enhance access and visibility whether you're seated or standing.



04 LEFT/RIGHT FLEXIBILITY

Position instruments for your dominant hand with the pivoting arm of the left/right system option to help minimize twisting and overreaching.

05 MANIFOLD ASSEMBLY

Protect your productivity and your schedule with a manifold assembly engineered to isolate potential issues within a single handpiece—keeping the rest of your system up and running.

06 BUILT-IN USB PORT

Enjoy greater flexibility at the point of care with a built-in USB port that simplifies integration of additional accessories.

Midmark® Asepsis 21® Cabinet-Mounted Duo Delivery System

DESIGNED FOR OPTIMAL ACCESS + ASEPSIS

Asepsis 21 delivery systems offer reliable handpiece delivery and independent control in a compact, value-priced package. Smooth surfaces help simplify cleaning, while air and water controls are protected beneath a removable top to reduce the risk of contamination.



COMBINED 12 O'CLOCK DELIVERY

Ideal for four-handed dentistry, this 12 o'clock delivery system for doctors and assistants helps keep instruments within ergonomic reach but out of sight to help reduce patient anxiety. Integrate accessories in up to five positions in addition to the syringe.

Midmark® Asepsis 21® Delivery Carts

DESIGNED TO MAXIMIZE SPACE

Maximize your operatory space with compact delivery carts designed for ergonomic access and effortless repositioning. Bring instruments within reach for team members of all sizes and left- or right-handedness, then easily move the cart out of the way to reclaim space.



01



02



03

01 DOCTOR'S CART

Improve workflow with three handpiece positions and a 9 5/8" x 13 5/8" stainless steel instrument tray.

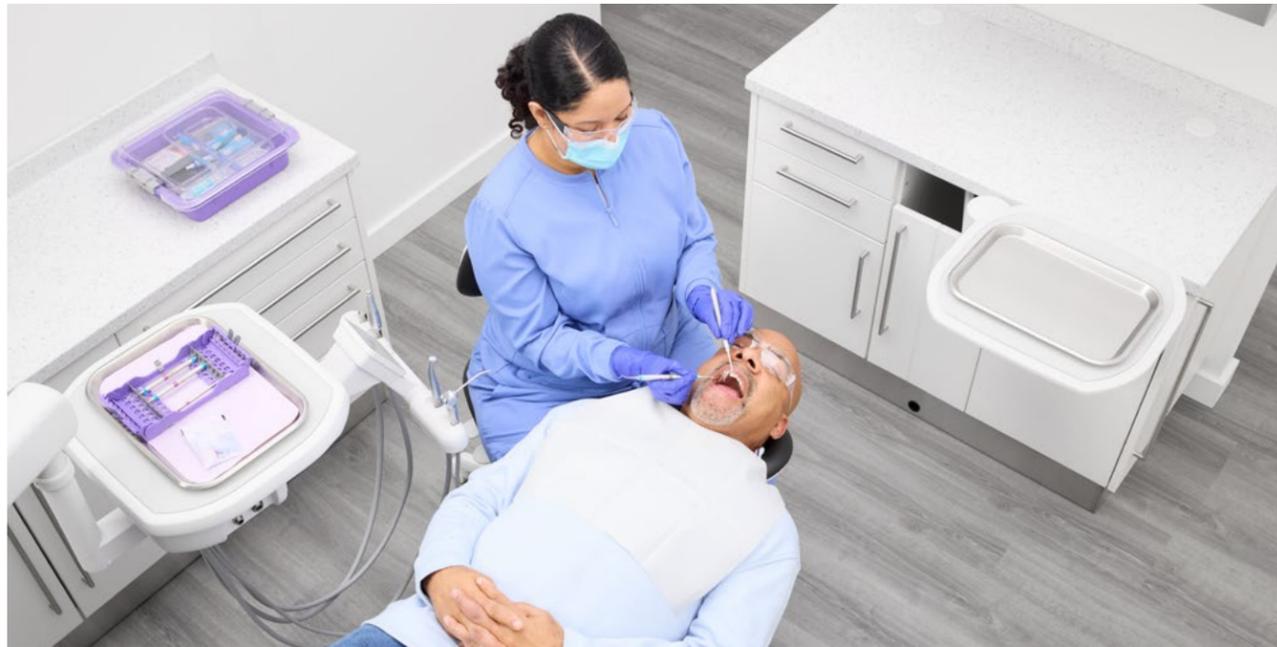
02 HYGIENIST'S CART

Access frequently used instruments with two handpiece positions, HVE, saliva ejector, syringe, an optional 13" x 18" work surface and a 9 5/8" x 13 5/8" stainless steel instrument tray.

03 LEFT/RIGHT DUO CART

Equip your team with three handpiece positions, assistant's instrumentation, a water quick-connect, a 21" x 24" stain-resistant work surface and your choice of a 9" x 13" tray or tub.

Integrated Accessories



DESIGNED TO STREAMLINE WORKFLOW

Keep everything you need at your fingertips. Integrated accessories help enhance access, streamline procedures and support a more efficient, comfortable experience for your team and your patients.



SCALERS

Select the best ultrasonic scaler for your workflow:

- Acteon® Ultrasonic Piezo Scaler (Newtron Slim B.LED)
- Dentsply Sirona® Ultrasonic Cavitron Scaler (Steri-Mate 360)



CUSPIDORS

Choose left- or right-side chair-mounted placement to fit your space and procedural workflow.



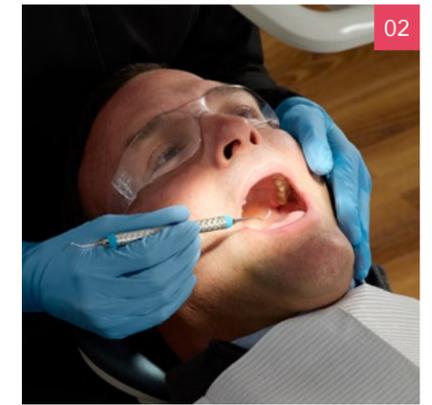
DENTAL ISOLATION SYSTEM

Combine light, suction and retraction with the Zyris® Isolite® system to improve visibility, efficiency and patient comfort during procedures.

Midmark® Dental LED Light

DESIGNED TO ILLUMINATE WITH CLARITY + CONTROL

The Midmark Dental LED Light delivers ergonomic precision and consistent illumination at the point of care, helping reduce eye strain, support better posture and enhance visual accuracy during procedures. Easy, single-handed positioning and automatic on/off functionality help make operation seamless and intuitive.



01 PIVOT + ROTATION

Ensure optimal illumination during procedures with an ergonomic 3-axis pivot and 350-degree vertical rotation that let you position the light precisely where you need it.

02 DAYLIGHT-QUALITY LIGHT

Improve visual clarity with a color rendering index (CRI) designed to closely match natural light for more accurate shade matching and tissue evaluation.

03 ERGONOMIC ADJUSTMENT

Maintain ergonomic posture by aligning the light within 15 degrees of your line of sight to reduce shadows and minimize forward leaning.

• INTENSITY OPTIONS

Adjust brightness levels to suit each procedure with three intensity options—high, medium and low.

• AUTO ON/OFF

Turn the light on or off by simply lowering or lifting it one-handed, thanks to location-sensing technology, or use the thumb-accessible buttons near each handle.

• CURE-SAFE SETTING

Reduce light intensity and help protect composite materials from premature hardening with the cure-safe setting.

MOUNTING OPTIONS



LEFT/RIGHT



CABINET



CEILING



TRACK



WALL



Midmark® Operatory Monitor Mounts

DESIGNED FOR CLARITY + PATIENT COMFORT

Enhance the patient experience while improving case acceptance with a monitor you can position over the patient or at eye level for chairside consultation. You and your patients can enjoy unobstructed viewing of digital X-rays, intraoral camera images, patient education and entertainment.

MONITOR: CANVYS® TRUE FLAT G SERIES 21.5" DISPLAY

Built for demanding clinical environments, this medical-grade monitor (compliant with IEC 60601-1, ISO 13485 and DICOM® standards) features a full HD, LED-backlit screen with a true flat, anti-glare glass surface for clear viewing and easy cleaning. The monitor is IPX1 rated overall with an IP65-rated front panel sealed against dust and low-pressure water sprays.



MOUNTING OPTIONS



LEFT/RIGHT



CABINET



TRACK LIGHT

Midmark® Dental Stools

Midmark Dental Stools are designed to support you where it matters most, improving posture, comfort and weight distribution. A contoured seat raised at the front promotes balance, while a waterfall front edge relieves pressure on the backs of the thighs for lasting comfort.

OPERATOR'S STOOL

Reduce the musculoskeletal pain common in dentistry with a stool engineered to deliver exceptional comfort and thoughtful ergonomic design.

01 RATCHETED BACKREST

Enhance comfort with a ratcheted backrest that offers smooth, knob-free height adjustment and a contoured design for optimal lower-back support.

02 FORWARD TILT

Tilt the seat forward up to 12 degrees using the one-lever adjustment mechanism to help maintain the natural S-curve of the back.

03 OPTIONAL ARMRESTS

Reduce fatigue in the neck and shoulders with optional adjustable armrests that help brace the elbows in the neutral shoulder position.



Designed to Support Ergonomic Positioning

ASSISTANT'S STOOL

Help keep your assistants comfortable through the lengthiest of procedures. With adjustable torso support and contoured backrest options, this stylish stool promotes better posture.

01 INTEGRATED FOOTREST

Support lower body posture with an optional integrated footrest that helps reduce fatigue and enhance comfort throughout the day.

02 RATCHETED BACKREST

Add lumbar support with an optional ratcheted backrest to promote sustained comfort and reduce strain over time.

03 TORSO SUPPORT

Stabilize and position the upper body with optional height-adjustable, ratchet-release torso support for improved ergonomics during procedures.



Midmark® Side Chairs

DESIGNED FOR INCLUSIVE COMFORT + COHESIVE STYLE

Coordinate with your Midmark color palette while offering safe, comfortable seating. Midmark side chairs feature contoured seats and backrests upholstered to match your dental treatment chairs for a consistent and professional look.



280 SIDE CHAIR



282 BARIATRIC SIDE CHAIR

• HIGH-IMPACT ARMS

Customize your seating with high-impact plastic chair arms—optional on the 280 Side Chair and standard on the 282 Bariatric Side Chair.

• WEIGHT CAPACITY

Support nearly every body with the 282 Bariatric Side Chair, featuring a 30-inch-wide seat and 650-pound weight capacity for inclusive comfort and style.



WALL-SAVER DESIGN

Protect your walls with a wall-saver rear leg design that allows placement close to the wall without causing damage.



STEEL FRAME + LEVELING FEET

Choose a sturdy foundation with a powder-coated black steel frame and leveling feet that provide long-lasting durability and stability.

Midmark® Upholstery

DESIGNED TO ELEVATE AESTHETICS + PERFORMANCE

ULTRALEATHER® UPHOLSTERY

Limited-seams Ultraleather offers soft, luxurious surfaces with exceptional durability. No material comes closer to replicating the look and styling of leather. Free from volatile organic compounds (VOCs), persistent organic pollutants (POPs) and formaldehyde, Ultraleather is also an environmentally friendly choice. Choose from many elegant colors.

MIDMARK STANDARD UPHOLSTERY

Midmark® Standard vinyl upholstery features a limited-seams design that is stain resistant, easy to clean and durable. Choose from a variety of trend-forward colors to complement your brand and environment.

	Mica (pearlized)		Charcoal		Mist		Healing Waters
	Pewter (pearlized)		Dove Grey		Stone		Shaded Garden
	Lake (pearlized)		Silver Pearl		Restful Path		Citrus
	Midnight (pearlized)		Sassy		Iron Ore		Sandy Retreat
	Milkweed		Apricot		Lunar Gray		Curative Copper
	Papyrus		Red		Obsidian		Cranberry
	Cashmere		Nile		Oasis		Dark Linen
	Fudge		Admiral		Soothing Blue		Latte
	Arctic		Bayou		Dream		Robust Brown
	Stone		Cyan		Mineral		Deep Earth
	Eucalyptus		Sonora				
	Riviera		Parrot				
	Raven Wing						

Design with Midmark®

DESIGNED FOR YOU

Our design experts are ready to help you personalize and equip your entire clinical environment—from the layout of every room to each sterilizer, chair, door and drawer, down to the smallest detail. Let us help you design the best environment for your practice.



CONNECT VIRTUALLY FOR LIVE DESIGN

Connect with Midmark Live Design services to bring your vision to life. We help you visualize your space, understand how it flows and spot potential challenges so you can make confident decisions to support better care.



**SCAN OR CLICK
TO SCHEDULE AN
APPOINTMENT.**



JOIN US IN PERSON FOR A MIDMARK EXPERIENCE TRIP

Explore equipment, finishes and floor plan options during a hands-on Midmark Experience trip. With expert guidance and a clear picture of your options, you'll be able to make more confident, informed decisions for your practice.



**SCAN OR CLICK TO
REQUEST A VISIT**



STREAMLINE YOUR DELIVERY + INSTALLATION

Ensure a smooth, on-time setup with Midmark Delivery Services. Our team coordinates the shipping, delivery, staging and setup of your Midmark equipment to help keep your project on track.



**SCAN OR CLICK TO LEARN
MORE ABOUT MIDMARK
DELIVERY SERVICES**

SOURCES

- 1 UNC Environment, Health & Safety. *Musculoskeletal Disorders*. <https://ehs.unc.edu/topics/ergonomics/musculoskeletal-disorders>
- 2 A systematic review and meta-analysis reported a pooled annual prevalence rate of 78% for musculoskeletal diseases and pain among dental professionals. *PLOS ONE*. <https://doi.org/10.1371/journal.pone.0208628>
- 3 *Open Dentistry Journal*. <http://dx.doi.org/10.2174/18742106-v16-e2204100>
- 4 *Srp Arh Celok Lek*. 2016;144(3-4):181-187. <https://pubmed.ncbi.nlm.nih.gov/27483563/>
- 5 Human height percentiles and measurements are based on composite anthropometric data from population surveys, including ANSUR II (more than 11,000 US Army personnel), NHANES III (approximately 40,000 US civilians) and CAESAR (more than 4,000 adult civilians from the US, Canada, the Netherlands and Italy), with ergonomic design implications supported by published research such as "Chair Size Design Based on User Height", *Biomimetics* 2023, 8(1):57. <https://doi.org/10.3390/biomimetics8010057>
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- 13 Compendium (citing ProEdge Dental Water Labs study). <https://cced.cdeworld.com/courses/22748-treating-and-monitoring-dental-water>
- 14 Gitnux. <https://gitnux.org/customer-experience-in-the-dental-industry-statistics/>
- 15 Based on CDC/NCHS National Health and Nutrition Examination Survey (NHANES) 2021–2023 anthropometric reference data (Table 4), showing a 95th-percentile body weight of 290.6 lb for US adult men (ages 20+). https://www.cdc.gov/nchs/data/series/sr_03/sr03-050.pdf



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