

Nu
FONA

X3 Dental Chair





About Beyes

Beyes is the largest Canadian dental handpiece manufacturer, headquartered in Toronto. Leveraging a highly educated workforce and a well-established manufacturing network in Southern Ontario, Beyes has revolutionized the dental industry with groundbreaking advancements in precision dental instrumentation. All our products are manufactured in strict compliance with Health Canada regulations, ensuring unparalleled quality. Our manufacturing facility is ISO 13485 certified under the Medical Device Single Audit Program (MDSAP).

Our dedicated sales team works in synergy with a network of highly qualified distributors and end users, ensuring that our products not only meet but exceed both current and future demands. Our systematic advantages range from innovative technological solutions to comprehensive marketing and customer support.



Mission Statement

To enhance the dental profession by delivering high-quality dental products at competitive prices and building strong distributor relationships to address the evolving needs of the dental community.

Vision

To create "The Next Standard" for dentistry.



- 2001-2008: Operated as a private manufacturing facility for well-known brands.
- 2008: Relocated head office to Toronto and established the Beyes brand.
- 2009: Introduced Slimax LED curing light system producing 2200 mW/cm².
- 2010: Set a new standard by incorporating a micro generator into high-speed handpieces.
- 2011: Partnered with major distributors such as Henry Schein (NASDAQ: HSIC) and Patterson Companies (NASDAQ: PDCO).
- 2011: Participated in IDS Germany, expanding into the European market.
- 2012: Expanded presence into Latin America (Argentina, Colombia, Chile, etc.).
- 2013: Integrated micro-generator technology across all high-speed handpieces.
- 2015: AirLight handpiece highly rated by the ADA Professional Product Review.
- 2016: Completed relocation to a new two-acre state-of-the-art manufacturing facility.
- 2017: Introduced the world's first triple-jet surgical handpiece with built-in generator.
- 2018: Launched M800X handpiece with instant stop technology to eliminate backflow.
- 2020: Introduced patent-pending Safeguard Air Technology to minimize aerosol production.
- 2022: Secured a global patent for Instant Stop technology, enhancing safety and precision in all high-speed handpieces. Patent coverage includes the European Union, Japan, China, South Korea, Taiwan, and the United States.
- 2023: Achieved global patent approval for Limitless PSI technology, revolutionizing performance standards for high-speed handpieces. Protected in key markets including the EU, Japan, China, South Korea, Taiwan, and the USA.
- 2024: Expanded operations by relocating to a cutting-edge, 70,000 square foot manufacturing facility in Morrisburg, Ontario, supporting increased demand and innovation capacity.

NuFONA[®] X3 Series

Beyes NuFONA[®] Series represents the best-in-class dental operating system.

Engineered and built to industrial standards using advanced production processes, the NuFONA[®] Series delivers high quality, ergonomic design, and exceptional value. Tailored for dental professionals, it enhances workflows, improves treatment efficiency, and elevates the working environment.



Unsurpassed Value



Ergonomic Design



High Quality



NuFONA X3

The NuFONA® X3 is designed and built to meet industrial standards, utilizing an advanced production process to deliver superior quality for stable and reliable performance.

Equipped with high-performance motors, the NuFONA® X3 ensures smooth operation with minimal noise. Its ergonomic design, along with the seat and backrest-linked chair (where the seat and backrest move in sync), further enhances patient comfort.

- Floor-standing water unit, rock-solid and stable base
- Ergonomic design, with seat and backrest linked chair
- Efficient, with precision control of seat position



High Standard Construction

Designed and built to meet industrial standards using an advanced production process, both the instrument arm and lamp arm are constructed from aluminum profiles, offering high strength while remaining lightweight.



Floor-standing Water Unit

A uniquely designed floor-standing water unit greatly improves chair stability.



Seat and Backrest Linked Movement

Synchronised seat and backrest movement enhances patient comfort.

Ultra-low chair position supports easy patient access.



Comfort Headrest

With double-articulated headrest and comfortable seat, height can be raised and lowered freely in the range from 380mm to 780mm, including the last-seat-height memory function. It can be adjusted for the elderly, pregnant women and other patients with limited mobility to receive treatments.



Swivel Armrest

Right armrest swings forward for easier patient access. Provides secure grip to reduce patient anxiety and improve comfort.



Upgraded Dentist Element

Available in both hanging hoses and continental versions.

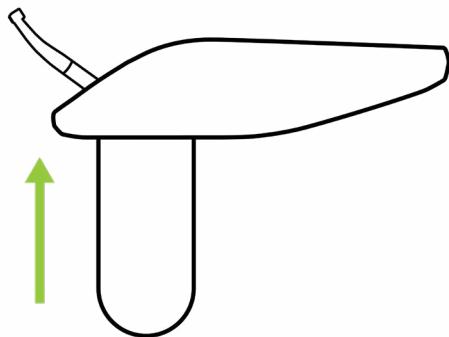
Chair-instrument interlock design supports various instruments including motors and scalars.



Dentist Element Style



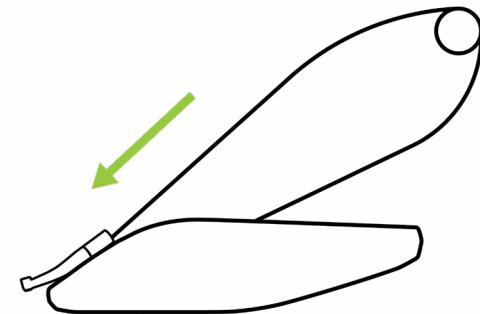
Traditional (Hanging Hoses) Version



NuFONA X3



Continental (Whip Arm) Version



Hygienic Design

Removable suction filter kit and 360° rotatable stainless-steel water outlet for easy cleaning and disinfection.



Automatic Flushing and Disinfection System with Hygiene Holder

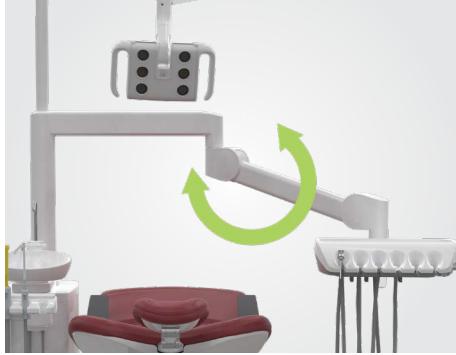


Our system offers a fully automatic flushing and disinfection process for all instrument hoses and suction lines. Simply connect the instruments to the hygiene holder and initiate the cleaning program — the system will automatically complete the flushing and disinfection cycle with no manual intervention required.

This solution ensures thorough internal cleaning, minimizes infection risks, and simplifies daily maintenance. The hygiene holder keeps all hoses organized and properly positioned for maximum cleaning efficiency.

- One-touch activation, fully automated process
- No need to disassemble hoses for disinfection
- Deep internal flushing for thorough cleaning
- Enhances clinic hygiene standards
- Reduces daily maintenance workload





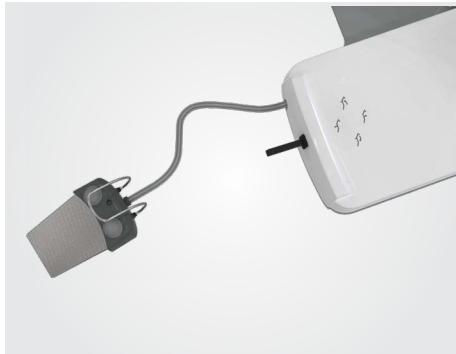
Harmonized Movement

Lightweight, maneuverable arm with one-hand operation enhances precision and efficiency.



Main Switch

Controls air, water, and electricity to prevent standby accidents and extend product life.



Proportional Foot Control

The proportional foot control can flexibly adjust the operating speed of instruments.

2 Optional Positions

Wide swivel cuspidor bowl and assistant element provide maximum treatment space with two installation options.





Dimmable Sensor LED Light

Adjustable color temperatures (measured in Kelvins) with luminance memory.

Three-axis adjustment for optimal positioning.

Automatically switches off when the chair moves to protect patient comfort.



M3 LED Light



M7 LED Light





Doctor and Assistant Seating

Intelligent Flexible Backrest

The backrest of the operator stool is designed with an adaptive swing range, allowing slight self-adjustments to better conform to the dentist's posture and movements, providing enhanced support and greater comfort during long procedures.

Ergonomic Curved Backrest for Superior Support

The ergonomically curved backrest fits the natural contour of the human spine, delivering optimal support and reducing fatigue.

Anti-Slip Seat Design with Thigh Pressure Relief

The front side of the seat cushion is raised to prevent the doctor from sliding forward during the treatment. The hips and legs are curved to prevent compression for extra comfort when you move and also provides stability.



Premium color collection



NuFONA® X3 Smart 100

Includes:

- Seamless design
- **Synchronized movement of backrest and patient chair**
- **Right armrest swing-able**
- Flexible delivery system with control panel
- 3 holder on flexible assistant side
- Removable and 360° rotatable water outlet
- M3 LED light
- 4-way foot switch
- Premium color collection
- 3 years warranty



NuFONA® X3 Smart 200

Includes:

- Seamless design
- Synchronized movement of backrest and patient chair
- Right armrest swing-able
- Flexible delivery system with control panel
- 3 holder on flexible assistant side **with control panel**
- Removable and 360° rotatable water outlet
- M3 LED light
- 4-way foot switch
- Premium color collection
- 3 years warranty

Premium color collection

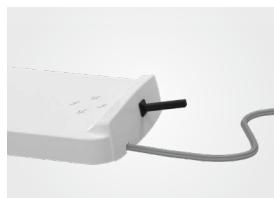


NuFONA® X3 Smart 300

Includes:

- Seamless design
- Synchronized movement of backrest and patient chair
- Right armrest swing-able
- **Dental mobile cart delivery unit with control panel**
- 3 holder on flexible assistant side with control panel
- Removable and 360° rotatable water outlet
- M3 LED light
- 4-way foot switch
- Premium color collection
- 3 years warranty

Premium color collection





**Nu
FONA**

Premium color collection



NuFONA® X3 Expert 100

Includes:

- **Stitched upholstery design**
- Synchronized movement of backrest and patient chair
- Right armrest swing-able
- **SOFT-MOTION movements**
- **Premium double-articulated headrest**
- Flexible delivery system with control panel
- **3 programmable memory positions**
- 3 holder on flexible assistant side
- Removable and 360° rotatable **stainless steel** water outlet
- **M7 LED light**
- **Main switch for all** (air, water and electricity)
- 4-way foot switch
- Premium color collection
- 3 years warranty



NuFONA® X3 Expert 200

Includes:

- Stitched upholstery design
- Synchronized movement of backrest and patient chair
- Right armrest swing-able
- SOFT-MOTION movements
- Premium double-articulated headrest
- Flexible delivery system with control panel
- 3 programmable memory positions
- 3 holder on flexible assistant side **with control panel**
- Removable and 360° rotatable stainless steel water outlet
- M7 LED light
- Main switch for all (air, water and electricity)
- 4-way foot switch
- Premium color collection
- 3 years warranty

Premium color collection



Premium color collection



NuFONA® X3 Expert 300

Includes:

- Stitched upholstery design
- Synchronized movement of backrest and patient chair
- Right armrest swing-able
- SOFT-MOTION movements
- Premium double-articulated headrest
- **Dental mobile cart delivery unit with control panel**
- 3 programmable memory positions
- 3 holder on flexible assistant side with control panel
- Removable and 360° rotatable stainless steel water outlet
- M7 LED light
- Main switch for all (air, water and electricity)
- 4-way foot switch
- Premium color collection
- 3 years warranty



NuFONA® X3 Master 100

Includes:

- Stitched upholstery design
- Synchronized movement of backrest and patient chair
- **Premium** right armrest swing-able
- **Wide backrest**
- SOFT-MOTION movements
- Premium double-articulated headrest
- **Luxury operating light & dentist table arm**
- Flexible delivery system with control panel
- 3 programmable memory positions
- **6 instrument positions**
- **Heavy-Duty aluminum dentist table**
- **4 holder** on flexible assistant side with control panel
- **Premium sliding assistant arm**
- Removable and 360° rotatable stainless steel water outlet
- M7 LED light
- Main switch for all (air, water and electricity)
- 4-way foot switch
- **Proportional Foot Control**
- **Luxury color collection**
- 3 years warranty

Luxury color collection

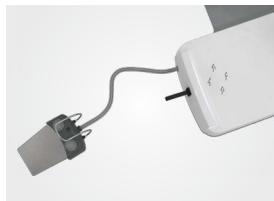


NuFONA® X3 Master 200

Includes:

- Stitched upholstery design
- Synchronized movement of backrest and patient chair
- Premium right armrest swing-able
- Wide backrest
- SOFT-MOTION movements
- Premium double-articulated headrest
- Luxury operating light & dentist table arm
- Flexible delivery system **with touch screen**
- 3 programmable memory positions
- 6 instrument positions
- Heavy-Duty aluminum dentist table
- 4 holder on flexible assistant side with control panel
- Premium sliding assistant arm
- Removable and 360° rotatable stainless steel water outlet
- M7 LED light
- Main switch for all (air, water and electricity)
- 4-way foot switch
- Proportional Foot Control
- Luxury color collection
- 3 years warranty

Luxury color collection



NuFONA® X3 Master 300

Includes:

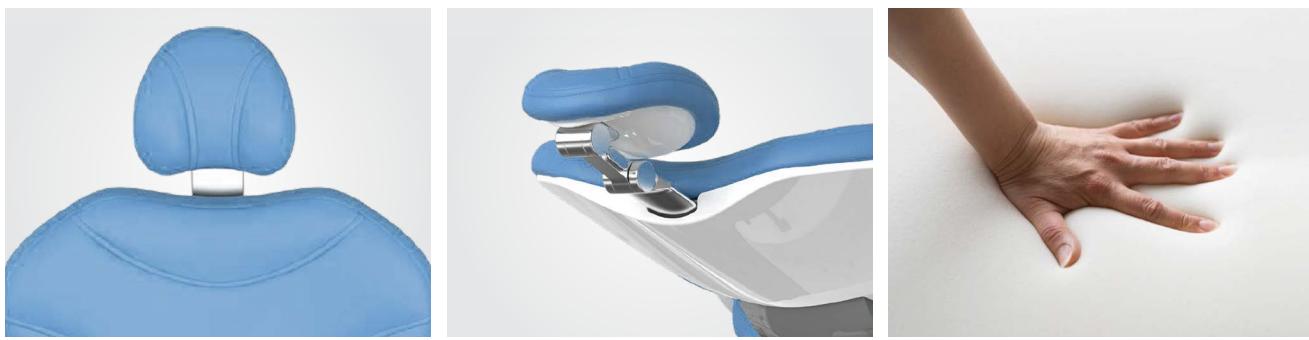
- Stitched upholstery design
- Synchronized movement of backrest and patient chair
- Premium right armrest swing-able
- Wide backrest
- SOFT-MOTION movements
- Premium double-articulated headrest
- Luxury operating light & dentist table arm
- **Motorized height adjustment cart delivery unit with touch screen**
- 3 programmable memory positions
- 6 instrument positions
- Heavy-Duty aluminum dentist table
- **Secondary stainless steel instrument tray table**
- 4 holder on flexible assistant side with control panel
- Premium sliding assistant arm
- Removable and 360° rotatable stainless steel water outlet
- M7 LED light
- Main switch for all (air, water and electricity)
- 4-way foot switch
- Proportional Foot Control
- Luxury color collection
- 3 years warranty

Luxury color collection

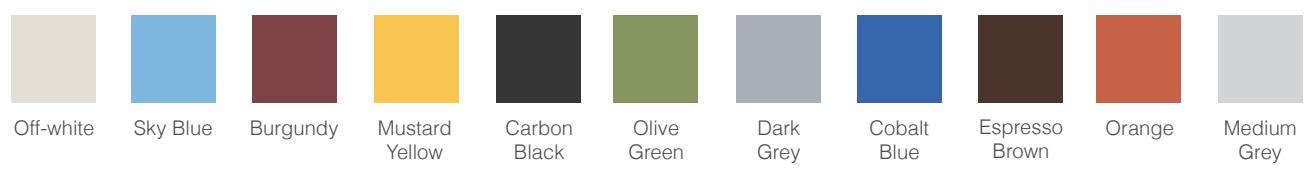


Upgraded Materials

Upgraded materials: durable, easy-to-clean, high-density cushioning.

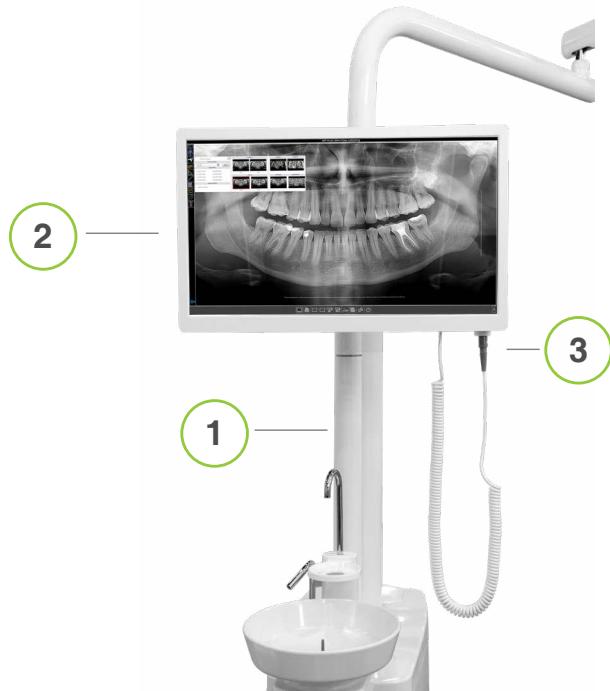


Color



Multimedia System

- ① **Monitor Arm**
Install either a monitor or TV of your choice on this supportive media arm to complete your modern operator.
- ② **Monitor**
A high resolution monitor is mounted directly on the light post which will enhance communication with patients.
- ③ **Intraoral Camera**
A crystal clear intraoral camera is fully integrated into the delivery system, so your camera will always be at your fingertips. Your patients will be well-educated by seeing the images on the screen.



Optional Configurations



Monitor Arm



17" Multimedia system with built-in intraoral camera



Monitor Arm Extended (Extra flexible)



22" Multimedia system with built-in intraoral camera



Monitor mount on additional pole

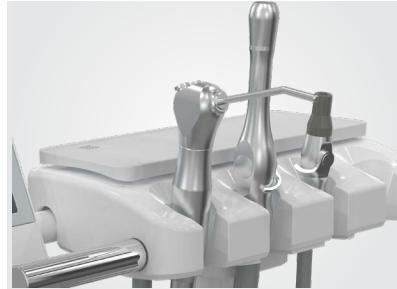


22" All-in-One PC

Optional Configurations



Secondary Tray



Aistant Tray



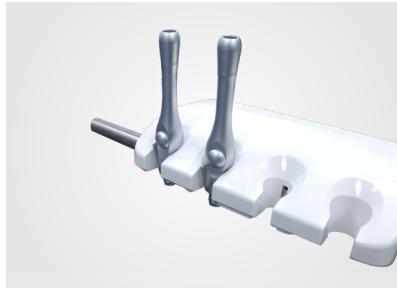
Proportional Foot Control



Assistant Stool



Additional Steel Base Plate



Second HVE Suction



Quick Disconnect (Air or Water)
 x1 x2



X Ray Viewer



Handpiece Light Source System



Built-In electric Micromotor



Built-In LED Scaler



Curing Light

and more....

	Smart			Expert			Master		
	100	200	300	100	200	300	100	200	300
CHAIR									
CHAIR UPGRADES									
Support plate	√	√	√	√	√	√	√	√	√
Add. Steel base Plate for non-grounding/floating floor/exhibition	○	○	○	○	○	○	○	○	○
CHAIR BASE FRAME									
Narrow Backrest	√	√	√	√	√	√			
Wide Backrest							√	√	√
CHAIR MONTION & SAFETY CONTROL SYSTEM									
SOFT-MOTION movements				√	√	√	√	√	√
Synchronized movement of backrest and patient chair	√	√	√	√	√	√	√	√	√
4-way foot switch	√	√	√	√	√	√	√	√	√
4 Limit Switches for Chair				√	√	√	√	√	√
Backrest Collision Protection				√	√	√	√	√	√
Legrest Anti-Collision				√	√	√	√	√	√
Cuspidor Collision Protection	√	√	√	√	√	√	√	√	√
Chair-Unit Interlock	√	√	√	√	√	√	√	√	√
M3 Electric Motor System (Lifting capacity up to 165 kg)	√	√	√						
M5 Electric Motor System (Lifting capacity up to 185 kg)				√	√	√			
M6 Electric Motor System (Lifting capacity up to 200 kg)							√	√	√
Fixed / Preset memory positions	√	√	√						
Programmable memory positions				√	√	√	√	√	√
Light-chair synchronized control (user-configurable)	√	√	√	√	√	√	√	√	√
Automatic bowl rinse at mouth rinsing position (user-configurable)				√	√	√	√	√	√
Linked cup filling and bowl rinsing (user-configurable)				√	√	√	√	√	√
Synchronised Trendelenburg	√	√	√	√	√	√	√	√	√
MASTER SWITCH									
Independent Power and Water Supply Switches	√	√	√						
Integrated Main Switch for Water, Air, and Power				√	√	√	√	√	√
HEADREST									
Double-articulated Headrest	√	√	√						
Premium Double-articulated Headrest				√	√	√	√	√	√
HANDREST									
Left Armres	√	√	√	√	√	√	√	√	√
Right armrest swing-able	○	○	○	○	○	○	√	√	√

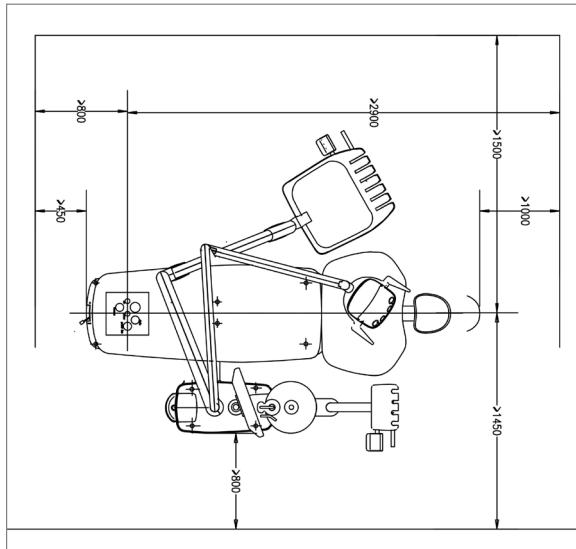
	Smart			Expert			Master		
	100	200	300	100	200	300	100	200	300
CONTROL PANEL									
Main Control Panel	√	√	√	√	√	√	√		
Luxury Touch Display Control Panel								√	√
Assistant Control Panel		√	√						
Premium Assistant Control Panel					√	√	√	√	√
WATER UNIT									
CLINIC WITH WET SUCTION SYSTEM									
Standard wet suction	○	○	○	√	√	√	√	√	√
Selection Valve (for dental offices with two or more dental chairs)	○	○	○	○	○	○	○	○	○
Cuspidor Valve (in case there is just one tube at the base of the chair)	○	○	○	○	○	○	○	○	○
CLINIC WITH DRY SUCTION SYSTEM									
Cuspidor Valve (in case there is just one tube at the base of the chair)	○	○	○	○	○	○	○	○	○
Dürr CS1 separator	○	○	○	○	○	○	○	○	○
Dürr CAS-1 amalgam separator, (including replacement container) separation rate 97,9%	○	○	○	○	○	○	○	○	○
CLINIC WITHOUT SUCTION SYSTEM									
Venturi system	√	√	√	○	○	○	○	○	○
CUSPIDOR & CUP FILLER									
Rotating cuspidor	√	√	√	√	√	√	√	√	√
Removable cuspidor bowl	√	√	√	√	√	√	√	√	√
White cuspidor Bowl	√	√	√	√	√	√	√	√	√
Removable Bowl Rinse and Cup Filler	√	√	√	√	√	√			
Sterilizable Removable Stainless Steel Bowl Rinse and Cup Filler							√	√	√
Electronic Bowl Rinse and Cup Filler	√	√	√	√	√	√	√	√	√
Anti-backflow valve for bowl and cup filler							√	√	√
OTHERS									
Water Unit On Ground	√	√	√	√	√	√	√	√	√
Water-to-cup heater	○	○	○	○	○	○	○	○	○
Quick coupling for air/water supply for external device	○	○	○	○	○	○	○	○	○
DISINFECTION SYSTEM									
Automatic for disinfection of the water circuit & Suction Hose	○	○	○	○	○	○	○	○	○
WATER SUPPLY									
Fresh water bottle without switch to public water supply	○	○	○	○	○	○	○	○	○
Fresh water bottle with switch to public water supply	√	√	√	√	√	√	√	√	√

	Smart			Expert			Master		
	100	200	300	100	200	300	100	200	300
FOOT CONTROL									
Disc foot pedal	√	√	√						
Disc Foot Pedal with Water ON/OFF Switch				√	√	√	○	○	○
Proportional foot control				○	○	○	√	√	√
DENTIST ELEMENT									
DELIVERY SYSTEM									
Hanging Hoses – Traditional style	√	√	√	√	√	√	√	√	√
Whip Arm Version – Continental style	○	○		○	○		○	○	
Cart Delivery – Tradition or Continental style available upon request			√			√			
Motorized Height Adjustment Cart Delivery-Tradition or Continental style available upon request									√
SWITCH & REGULATOR									
Instrument Water Flow ON/OFF Switch	√	√	√						
Independent Water Regulators for each instrument	√	√	√	√	√	√	√	√	√
Independent Drive Air Regulators for each instrument	√	√	√	√	√	√	√	√	√
Built-in Chip Air Valves	√	√	√						
External Chip Air Regulators				√	√	√	√	√	√
DENTIST TABLE & MAT									
5 instrument positions	√	√	√	√	√	√			
6 instrument positions							√	√	√
High-strength engineering plastic Table	√	√	√	√	√	√			
Heavy-Duty Aluminum Table							√	√	√
Silicone Mat For dentist table	√	√	√	√	√	√	√	√	√
DENTIST TABLE ARM									
Height-adjustable with pneumatic brake	√	√		√	√		√	√	√
TUBINGS									
3 Handpiece Tubings	√	√	√	√	√	√	√	√	√
Handpiece Fiber-optic Systems	○	○	○	○	○	○	○	○	○
SYRINGE									
Lightweight Air-Water Syringe	√	√	√	√	√	√	○	○	○
Durable Classic Air-Water Syringe	○	○	○	○	○	○	√	√	√
MICROMOTOR									
Built-In electric Micromotor	○	○	○	○	○	○	○	○	○
SCALER									
Built-In LED Scaler	○	○	○	○	○	○	○	○	○

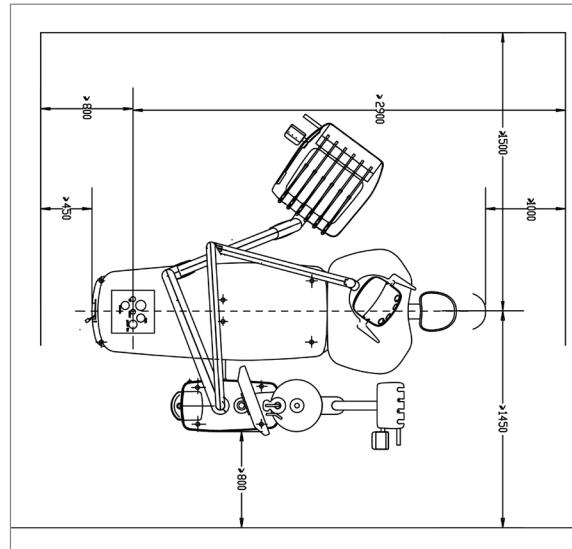
	Smart			Expert			Master		
	100	200	300	100	200	300	100	200	300
ADD. TRAY TABLE									
Auxiliary Instrument Tray table	○	○	○	○	○	○	○	○	○
Secondary Stainless Steel Instrument Tray table			○			○			√
ASSISTANT ELEMENT									
ASSISTANT TABLE									
3 instrument positions	√	√	√	√	√	√			
4 instrument positions							√	√	√
Silicone Mat For Assistant table							√	√	√
SUCTION HOSE									
Saliva ejector and HVE	√	√	√	√	√	√	√	√	√
2nd HVE							○	○	○
ASSISTANT ARM									
Sliding Assistant Arm	√	√	√	√	√	√			
Premium Sliding Assistant Arm							√	√	√
SYRINGE									
Lightweight Air-Water Syringe	○	√	√	○	√	√	○	○	○
Durable Classic Air-Water Syringe	○	○	○	○	○	○	√	√	√
CURING LIGHT									
Built-In LED curing light							○	○	○
OPERATING LIGHT & DENTIST TABLE POLES									
Standard pole for operating light & dentist table arm	√	√		√	√				
Luxury operating light & dentist table arm							√	√	√
One pole for operating light & dentist table arm	√	√		√	√		√	√	√
Light pole for operating light only			√			√			
Monitor Arm mount on the light support column	○	○	○	○	○	○	○	○	○
MONITOR ARM & MULTIMEDIA SYSTEM									
22" All-in-One PC	○	○	○	○	○	○	○	○	○
MMS2 – 17" Multimedia System with built-in intraoral camera	○	○	○	○	○	○	○	○	○
MMS3 – 22" Multimedia System with built-in intraoral camera	○	○	○	○	○	○	○	○	○
45mm Monitor Arm II (I (2-joint)	○	○	○	○	○	○	○	○	○
Monitor Pole I (Monitor Arm mount on additional pole)							○	○	○

	Smart			Expert			Master		
	100	200	300	100	200	300	100	200	300
OPERATING LIGHT									
M3 LED light	√	√	√						
M7 LED light				√	√	√	√	√	√
UPHOLSTERY									
Seamless Upholstery	√	√	√	○	○	○	○	○	○
Stitched Upholstery	○	○	○	√	√	√	√	√	√
Child booster cushion	○	○	○	○	○	○	○	○	○
Dustproof footrest cover	√	√	√	√	√	√	√	√	√
UPHOLSTERY COLOR									
Standard Collection	○	○	○	○	○	○	○	○	○
Premium Collection	√	√	√	√	√	√	○	○	○
Luxury Collection	○	○	○	○	○	○	√	√	√
STOOL									
Dentist Stool	√	√	√	√	√	√	√	√	√
Assistant Stool	○	○	○	○	○	○	○	○	○

Space Requirements



W/ dentist element in hanging hoses version (mm)



W/ dentist element in whip arm version (mm)

Technical Specifications

Rated Voltage	110-120V AC / 220-230V AC 60Hz/50Hz
Water Pressure	0.2-0.4 MPa / 2.0-4.0 bar
Water Flow*	≥5 L/min
Air Pressure	0.60-0.80 MPa / 6.0-8.0 bar
Air Consumption*	80 L/min
Suction machine	≥255 L/min (with central suction)
Load capacity of patient's chair	Maximum 200 kg
Moving range of patient's chair	480-780mm

*When using Venturi suction system: Water flow requirement: ≥10 L/min, Air consumption requirement: ≥130 L/min

Beyes is the largest Canadian dental handpiece manufacturer with its corporate office located in Toronto. By taking advantage of the highly educated workforce and well-established manufacturing chain in Southern Ontario, Beyes has revolutionized the dental industry with groundbreaking advancements for precision dental instrumentations.

Our Vision: To create "The Next Standard" for dentistry.

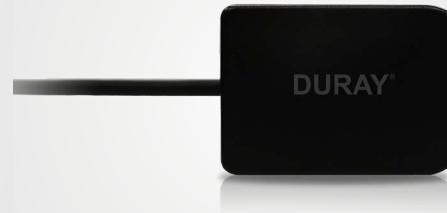
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Manufacturing facility is ISO 13485 certified under the
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