

Nu
FONA

X1 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[®] X1 Series

NuFONA[®] X1 Series is the best dental operating system of its class.

Designed and built fully according to industrial standard and offering high quality using advanced production process. NuFONA[®] X1 Series is tailored for professionals in mind. It has all the features to provide optimal support with ergonomic design for better workflows, high quality standards in processing and design, and an unsurpassed value. Using our innovative power to provide more efficiency during treatments and improving the working environment.



Unsurpassed Value



Ergonomic Design



High Quality





German Concept, Ergonomic Design

Originated from the design concept of German engineers and after more than 10 years of process improvement, the innovated NuFONA X1 has a robust structure and meets highest ergonomic and safety standards.

- Flexible control with high reliability.
- Comfortable to use and durable.
- Convenient for cleaning and disinfection. More hygienic.



Reliable & Durable

NuFONA X1 has a robust structure, the main frame is composed of cast aluminum and steel parts.

Electrostatic powder spraying and anti-rust treatment on the surface make all these metal parts have stronger anti-corrosion and anti-scratch qualities.

A Peace of Mind

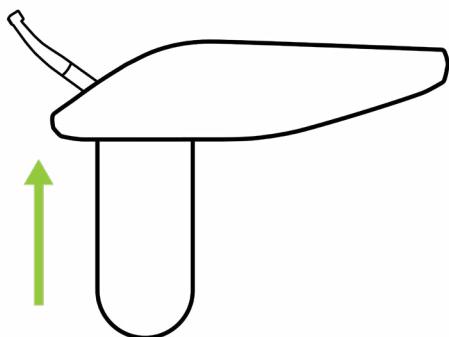
Chair lock enables safe operation, avoid accident caused by unexpected movement of the chair position.



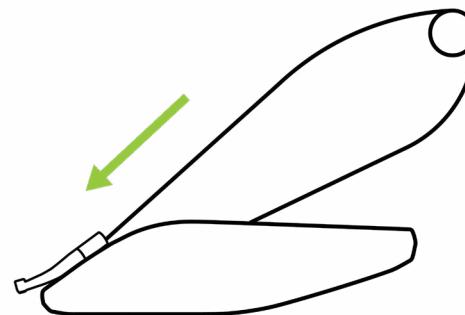
Dentist Element Style



Traditional (Hanging Hoses) Version



Continentall (Whip Arm) Version



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.

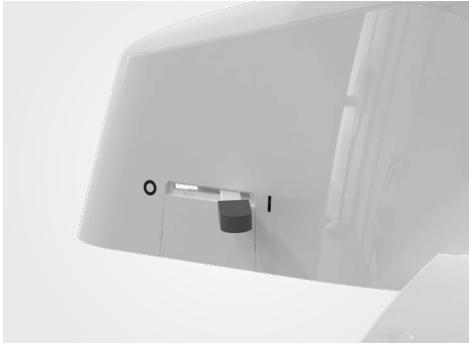
- One-touch activation, fully automated process
- No need to disassemble hoses for disinfection
- Deep internal flushing for thorough cleaning
- Enhances clinic hygiene standards
- Reduces daily maintenance workload



Flexible Control

The wide range swivel cuspidor bowl and assistant arm provide the biggest possible treatment space.





Main Switch

Main switch for all (air, water and electricity), avoids standby status of the chair and prolonging its life. It will reassure the unit is off when chair is not in use.



Simple and Quick Operation

The dentist element and assistant arm can have the control panels with the same functions, both of which are for simple and quick operation. The control panels are perfect for seamless cooperation between the dentist and assistant.

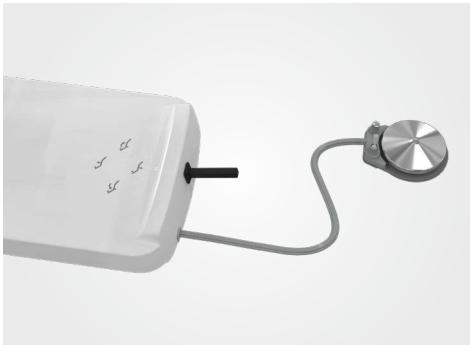


One-Key Adjustment of Dentist Element

With the air lock switch on the handle of the dentist element, the unit can be adjusted to optimal position with a mere press of a button.

Comfort in Mind

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.



Full Foot-Control

Full foot-control operation to avoid cross contamination, the seat can be adjusted handsfree.



Complete Hygienic

The removable suction filter kit and 360° rotatable stainless water outlet make cleaning and disinfection easy and convenient.



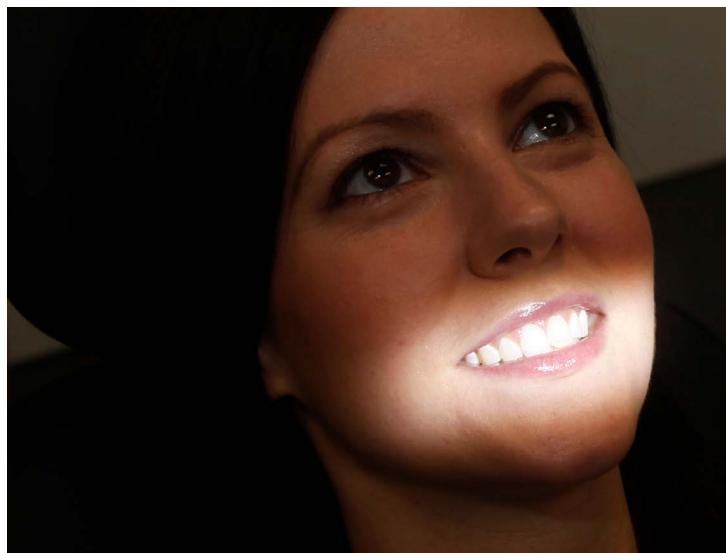


Dimmable Sensor LED Light

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.

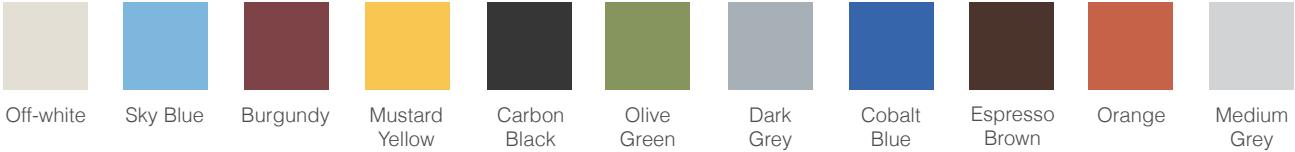


Upgraded Materials

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



Color

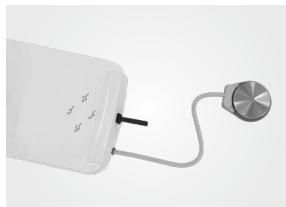
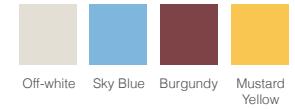


NuFONA® X1 Preferred 100

Includes:

- Seamless design
- **Lightweight aluminum backrest**
- Singular post design
- Flexible delivery system with control panel
- 1 instrument position on assistant side
- M3 LED light
- 4-way foot switch
- 2 handpiece tubings
- Standard color collection
- 3 years warranty

Color Option:

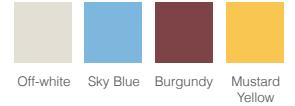


NuFONA[®] X1 Preferred 200

Includes:

- Seamless design
- Lightweight aluminum backrest
- Singular post design
- Flexible delivery system with control panel
- **3 instrument position** on assistant side
- M3 LED light
- 4-way foot switch
- **3 handpiece** tubings
- Standard color collection
- 3 years warranty

Color Option:



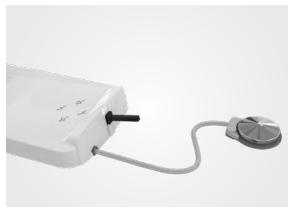


NuFONA® X1 Smart 100

Includes:

- Seamless design
- Lightweight aluminum backrest
- Singular post design
- Flexible delivery system with control panel
- **High-strength engineering plastic dentist table**
- 3 instrument position on **swiveling assistant side**
- M3 LED light
- 4-way foot switch
- 3 handpiece tubings
- **Premium color collection**
- 3 years warranty

Color Option:



NuFONA® X1 Smart 200

Includes:

- Seamless design
- Lightweight aluminum backrest
- Singular post design
- Flexible delivery system with control panel
- High-strength engineering plastic dentist table
- 3 instrument position on swiveling assistant side **with control panel**
- M3 LED light
- 4-way foot switch
- 3 handpiece tubings
- Premium color collection
- 3 years warranty

Color Option:



NuFONA® X1 Smart 300

Includes:

- Seamless design
- Lightweight aluminum backrest
- Singular post design
- **Dental mobile cart delivery unit with control panel**
- High-strength engineering plastic dentist table
- 3 instrument position on swiveling assistant side with control panel
- M3 LED light
- 4-way foot switch
- 3 handpiece tubings
- Premium color collection
- 3 years warranty

Color Option:





NuFONA® X1 Expert 100

Includes:

- **Stitched upholstery design**
- Lightweight aluminum backrest
- Singular post design
- Flexible delivery system with control panel
- High-strength engineering plastic dentist table
- **3 programmable memory positions**
- 3 instrument position on swiveling assistant side
- **Removable and 360° rotatable water outlet**
- **Main switch for all** (air, water and electricity)
- **M7 LED light**
- 4-way foot switch
- 3 handpiece tubings
- Premium color collection
- 3 years warranty

Color Option:

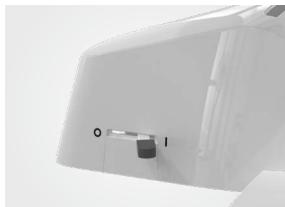


NuFONA® X1 Expert 200

Includes:

- Stitched upholstery design
- Lightweight aluminum backrest
- Singular post design
- Flexible delivery system with control panel
- High-strength engineering plastic dentist table
- 3 programmable memory positions
- 3 instrument position on swiveling assistant side **with premium control panel**
- Removable and 360° rotatable water outlet
- Main switch for all (air, water and electricity)
- M7 LED light
- 4-way foot switch
- 3 handpiece tubings
- Premium color collection
- 3 years warranty

Color Option:



NuFONA® X1 Expert 300

Includes:

- Stitched upholstery design
- Lightweight aluminum backrest
- Singular post design
- **Dental mobile cart delivery unit with control panel**
- High-strength engineering plastic dentist table
- 3 programmable memory positions
- 3 instrument position on swiveling assistant side with premium control panel
- Removable and 360° rotatable water outlet
- Main switch for all (air, water and electricity)
- M7 LED light
- 4-way foot switch
- 3 handpiece tubings
- Premium color collection
- 3 years warranty

Color Option:





NuFONA® X1 Master 100

Includes:

- Stitched upholstery design
- **Heavy-duty aluminum backrest**
- **Double post design**
- Flexible delivery system with control panel
- **Heavy-duty aluminum dentist table**
- **Air lock switch with 5-way joystick**
- 3 programmable memory positions
- **4 instrument position on premium swiveling assistant side with premium control panel**
- Removable and 360° rotatable **stainless steel water outlet**
- Main switch for all (air, water and electricity)
- M7 LED light
- 4-way foot switch
- 3 handpiece tubings
- Luxury color collection
- 3 years warranty

Color Option:



NuFONA® X1 Master 200

Includes:

- Stitched upholstery design
- Heavy-duty aluminum backrest
- Double post design
- Flexible delivery system **with luxury touch display control panel**
- Heavy-duty aluminum dentist table
- Air lock switch with 5-way joystick
- 3 programmable memory positions
- 4 instrument position on premium swiveling assistant side with premium control panel
- Removable and 360° rotatable stainless steel water outlet
- Main switch for all (air, water and electricity)
- M7 LED light
- 4-way foot switch
- 3 handpiece tubings
- Luxury color collection
- 3 years warranty

Color Option:



NuFONA® X1 Master 300

Color Option:



Includes:

- Stitched upholstery design
- Heavy-duty aluminum backrest
- Double post design
- **Motorized height adjustment mobile cart delivery unit with luxury touch display control panel**
- Heavy-duty aluminum dentist table
- **Secondary stainless steel instrument tray table**
- Air lock switch with 5-way joystick
- 3 programmable memory positions
- 4 instrument position on premium swiveling assistant side with premium control panel
- Removable and 360° rotatable stainless steel water outlet
- Main switch for all (air, water and electricity)
- M7 LED light
- 4-way foot switch
- 3 handpiece tubings
- Luxury color collection
- 3 years warranty



Multimedia System

1. Monitor Arm

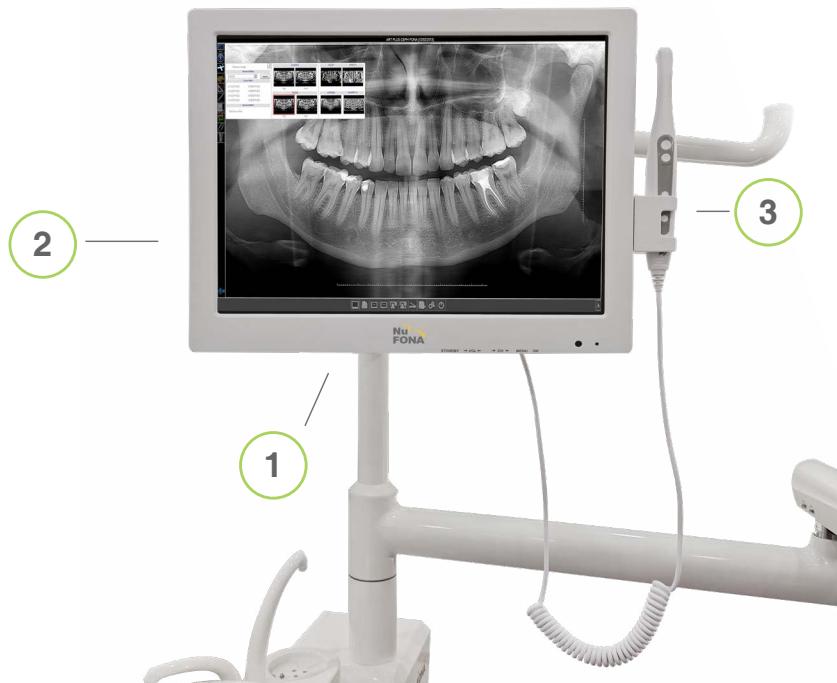
Install either a monitor or TV of your choice on this supportive media arm to complete your modern operator.

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



Monitor Arm Extended
(Extra flexible)



17" Multimedia system
with built-in intraoral camera



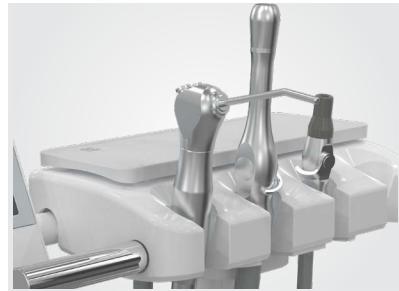
22" Multimedia system
with built-in intraoral camera



22" All-in-One PC



Secondary Tray



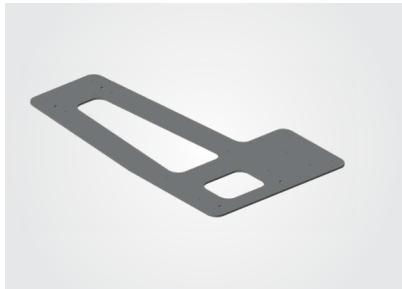
Aistant Tray



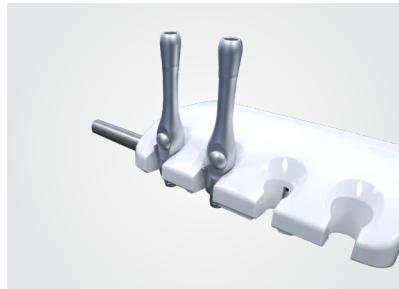
Proportional Foot Control



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

	Preferred		Smart			Expert			Master		
	100	200	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											
Welded Frame Structure	√	√	√	√	√	√	√	√			
Single-Sheet Bent Frame									√	√	√
Lightweight Aluminum Backrest	√	√	√	√	√	√	√	√			
Heavy-Duty Aluminum Backrest									√	√	√
CHAIR MONTION & SAFETY CONTROL SYSTEM											
SOFT-MOTION movements						√	√	√	√	√	√
4-way foot switch	√	√	√	√	√	√	√	√	√	√	√
2 Limit Switches for Chair	√	√	√	√	√						
4 Limit Switches for Chair						√	√	√	√	√	√
Backrest Collision Protection						√	√	√	√	√	√
Legrest Anti-Collision						√	√	√	√	√	√
Chair-Unit Interlock	√	√	√	√	√	√	√	√	√	√	√
M3 Electric Motor System (Lifting capacity up to 150kg)	√	√	√	√	√						
M5 Electric Motor System (Lifting capacity up to 165kg)						√	√	√			
M6 Electric Motor System (Lifting capacity up to 185kg)									√	√	√
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 Armrest	√	√	√	√	√	√	√	√	√	√	√
Right Armrest	○	○	○	○	○	○	○	○	○	○	○
Right armrest swing-able	○	○	○	○	○	○	○	○	√	√	√

	Preferred		Smart			Expert			Master		
	100	200	100	200	300	100	200	300	100	200	300
CONTROL PANEL JOYSTICK											
Main Control Panel	√	√	√	√	√	√	√	√	√		
Luxury Touch Display Control Panel										√	√
Assistant Control Panel				√	√						
Premium Assistant Control Panel							√	√	√	√	√
5-way hand control joystick									√	√	√
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	√	√	√	√	√	√	√	√	√	√	√
Fixed Bowl Rinse and Cup Filler	√	√	√	√	√						
Removable Bowl Rinse and Cup Filler						√	√	√			
Sterilizable Removable Stainless Steel Bowl Rinse and Cup Filler									√	√	√
Manual Bowl Rinse and Cup Filler	√										
Electronic Bowl Rinse and Cup Filler		√	√	√	√	√	√	√	√	√	√
Auxiliary Cup Filler Switch						√	√	√	√	√	√
Anti-backflow valve for bowl and cup filler									√	√	√
OTHERS											
Water-to-cup heater	○	○	○	○	○	○	○	○	○	○	○
Quick coupling for air/water supply for external device	○	○	○	○	○	○	○	○	○	○	○
DISINFECTION SYSTEM											
Automatic for disinfection of the water circuit & Suction Hose	○	○	○	○	○	○	○	○	○	○	○

	Preferred		Smart			Expert			Master		
	100	200	100	200	300	100	200	300	100	200	300
WATER SUPPLY											
Fresh water bottle w/o switch to public water supply	√	√									
Fresh water bottle with switch to public water supply			√	√	√	√	√	√			
Fresh water bottle with Premium switch to public water supply									√	√	√
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	√	√	√	√	√						
Single Water Regulator for all instrument	√	√									
Independent Water Regulators for each instrument			√	√	√	√	√	√	√	√	√
Single Drive Air Regulator for all 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	√	√									
Standard ABS Table	√	√									
High-strength engineering plastic Table			√	√	√	√	√	√			
Heavy-Duty Aluminum Table									√	√	√
Silicone Mat For dentist table	○	○	√	√	√	√	√	√	√	√	√
DENTIST TABLE ARM											
Height-adjustable with pneumatic brake	√	√	√	√		√	√		√	√	√

	Preferred		Smart			Expert			Master		
	100	200	100	200	300	100	200	300	100	200	300
TUBINGS											
2 Handpiece 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	○	○	○	○	○	○	○	○	○	○	○
ADD. TRAY TABLE											
Auxiliary Instrument Tray table	○	○	○	○	○	○	○	○	○	○	○
Secondary Stainless Steel Instrument Tray table					○			○			√
ASSISTANT ELEMENT											
ASSISTANT TABLE											
1 instrument position	√										
3 instrument positions		√	√	√	√	√	√	√			
4 instrument positions									√	√	√
Silicone Mat For Assistant table									√	√	√
SUCTION HOSE											
Saliva Ejector	√										
Saliva ejector and HVE		√	√	√	√	√	√	√	√	√	√
2nd HVE									○	○	○
ASSISTANT ARM											
Fixed Assistant Arm	√	√									
Swiveling Assistant Arm			√	√	√	√	√	√			
Premium Swiveling Assistant Arm									√	√	√
SYRINGE											
Lightweight Air-Water Syringe			○	√	√	○	√	√	○	○	○
Durable Classic Air-Water Syringe			○	○	○	○	○	○	√	√	√
CURING LIGHT											
Built-In LED curing light									○	○	○

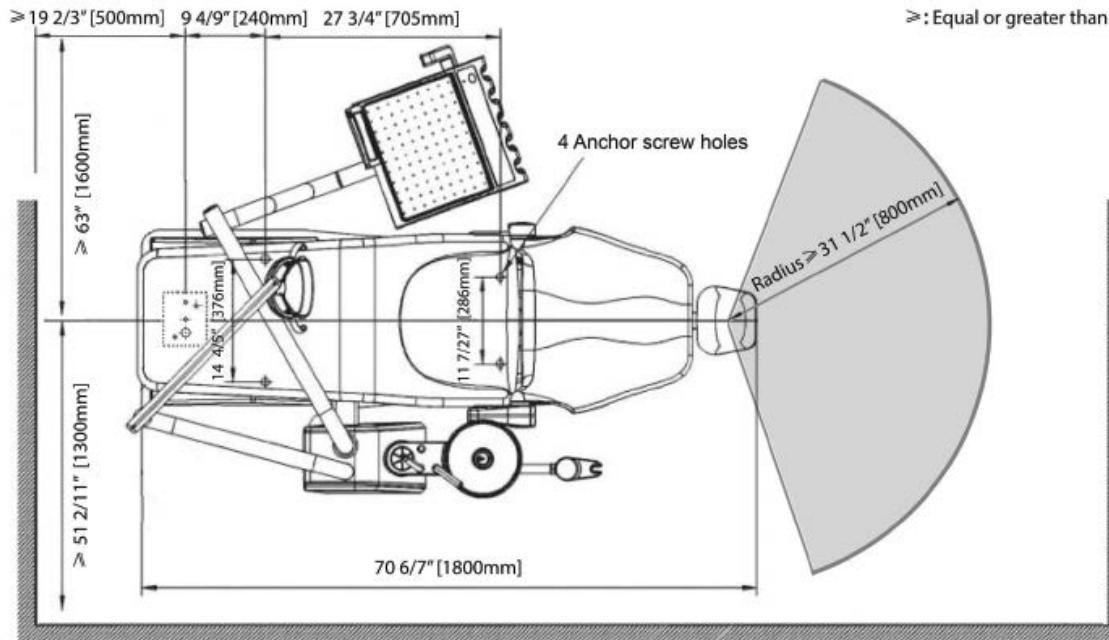
	Preferred		Smart			Expert			Master		
	100	200	100	200	300	100	200	300	100	200	300
OPERATING LIGHT & DENTIST TABLE POLES											
One pole for operating light & dentist table arm	√	√	√	√		√	√				
Two poles for operating light and dentist table arm									√	√	√
Light pole for operating light only					√			√			
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 Arm I (2-joint)									○	○	○
Monitor Arm III (3-joint extended)									○	○	○
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	○	○	○	○	○	○	○	○	○	○	○

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 185kg
Moving range of patient's chair	380-780 mm

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

Space Requirements





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.

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Electric Motor



X-Ray Sensor



LED High Speed Handpieces

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Manufacturing facility is ISO 13485 certified under the
Medical Device Single Audit Program (MDSAP).