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Our policy of constant technological upgrading means that technical specifications may be subject to change without prior notice.



S280TRC

Where technology blends with comfort

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BRUSHLESS

HYPERSPHERE

TOUCH SCREEN

WIRELESS

ATLAXIS

Talent-enhancing innovation

Certain innovations soon become accepted norms, others provide inspiration to those who share their brilliance. Likewise, the S280TRC combines a host of tangible, practical aspects with a multitude of ergonomic solutions and innovative technologies.

Thanks to outstanding compactness, the dental unit structure, together with the suspended patient chair design, creates plenty of space for the medical staff. An original, to-be-discovered integrated treatment centre that is ready to inspire.



Intraoral digital images and X-rays transferred from a USB memory device can be viewed on the Full Touch display directly.



The USB slot on the Full Touch instrument panel allows dentists to save and load their personal user settings on the dental unit.

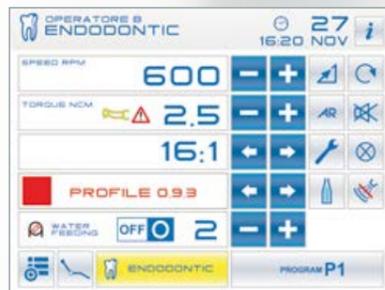


The accelerometer on the instrument control panel also allows the screen to be positioned horizontally.

The main innovation is incorporated on the instrument control panels - Smart Touch and Full Touch - featuring touch-screen technology. Both offer outstanding performance: when it comes to deciding which is most suitable, the choice is yours. Smart Touch, consisting of two areas, a touch-sensitive one and another with a classic keypad, is provided as standard. The dentist interacts with dynamic menus via the touch-screen display to set hygiene parameters, adjust and personalise instrument settings and monitor all the devices integrated with the dental unit software. The keypad, instead, provides an array of rapid controls, mainly for movement of the patient chair. The optional Full Touch display, with a large 5.7" glass screen is, instead, a leap into the future, an on-board computer with a powerful microprocessor and a Linux operating system. It can be used to control the entire integrated treatment centre and its open-source platform makes it ever-ready to incorporate new functions.



The i-XS4 micromotor electronic controls include speed, torque, plus delivery rate/operation of the peristaltic pump. Personalised settings are available for execution of the guide hole, the drilling stages and implant placement.



In endodontics mode, the Full Touch software sets combined torque/speed values according to the selected file by drawing on data in preloaded library files.



i-XS4 brushless micromotor
Save up to four settings for each discipline and achieve torques (with the appropriate contra-angle) of up to 70 Ncm when executing implantology tasks.
Speed range from 100 to 40,000 rpm
Weight: 82 g



Peristaltic pump
Integrated on the dentist's module, the peristaltic pump lets the i-XS4 micromotor be used for oral surgery operations.



Smart Touch

Whether you're carrying out the simplest routine task or the most intricate oral surgery, outstanding precision is a must. The level of control offered by the interface will determine the degree of precision you achieve. Thanks to the Full Touch instrument control panel, comprehensive control of both working parameters and the peristaltic pump bring out the full potential of the brushless micromotor when practising surgery. The software contains a database of certified contra-angles plus a wide selection of generic ratios. On the Full Touch panel, parameter control and data display have been optimised thanks to simplified system browsing and user-friendly graphics.

Dentists can also, in addition to setting personalised programmes, adjust scaler power, spray parameters, foot control mode and optic fibre intensity.



In addition to viewing data, the dentist can also set numerous work parameters: spray mode, foot control mode, optic fibre on/off. The control panel can also be used to personalise parameters for up to three different users, while parameters for a fourth user can be loaded via a USB memory device.



Browsing through the menus of the integrated devices and selecting settings couldn't be simpler, ensuring dental unit hygiene is kept under careful, constant control.



Designed together with the electronics that controls them, all Stern Weber instruments conform to strict ultra-high performance and user-friendliness criteria, with the sheer extent of the range providing excellent dental unit personalisation opportunities. Smooth integration of instruments, dental unit and software means the dentist can take full advantage of advanced performance and inspired working simplicity.



SC Scalers
Indicated for supragingival prophylaxis tasks of the periodontal type and for the preparation of small cavities and in endodontic root canal cleaning techniques. Power levels are shown on the display.



Silent Power Turbines
Powerful yet particularly silent instruments for multiple irrigation with separate nozzles, LED lighting and button-operated release for bur changeover.



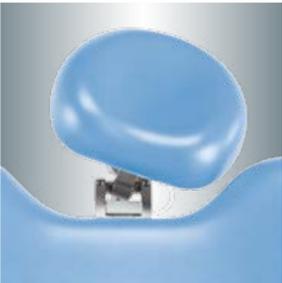
i-XR3 / i-XR3L
Supplied as standard, the i-XR3 micromotor is suitable for conservative and prosthetic dentistry. The 3L model incorporates LED lighting; it can be cold-disinfected.
• Torque up to 3 Ncm
• Speed range from 1,000 to 40,000 rpm
• Dimensions: Ø22 x 35.1 mm
• Weight: 82 g



DESIGNED AROUND YOU

Creating dental units for you

Each patient is different and, above all, so is each dentist: no-one knows this better than Stern Weber. That's why dentists who choose us are free to configure all the elements around the dental unit according to their personal preferences and so create a highly customised integrated treatment centre. Once the ergonomic configuration best suited to the dentist's operating style has been defined, it's then possible to decide how best to equip the dental unit in terms of hygiene devices, instruments, integrated multimedia and X-ray systems, foot controls, operating lights, suction system amalgam separators and all the other Stern Weber accessories. We build dental units to provide a made-to-measure solution for *you*.



Atlasis
The pneumatic second-generation headrest accompanies articular movements perfectly. Orbital adjustments can be made with just one hand; vertical movements are made via the support rod. Atlasis is available as an optional feature.



The chair has a tapered section between the seat and lumbar support, to facilitate approach and help freedom of movement for both the dentist and the assistant.

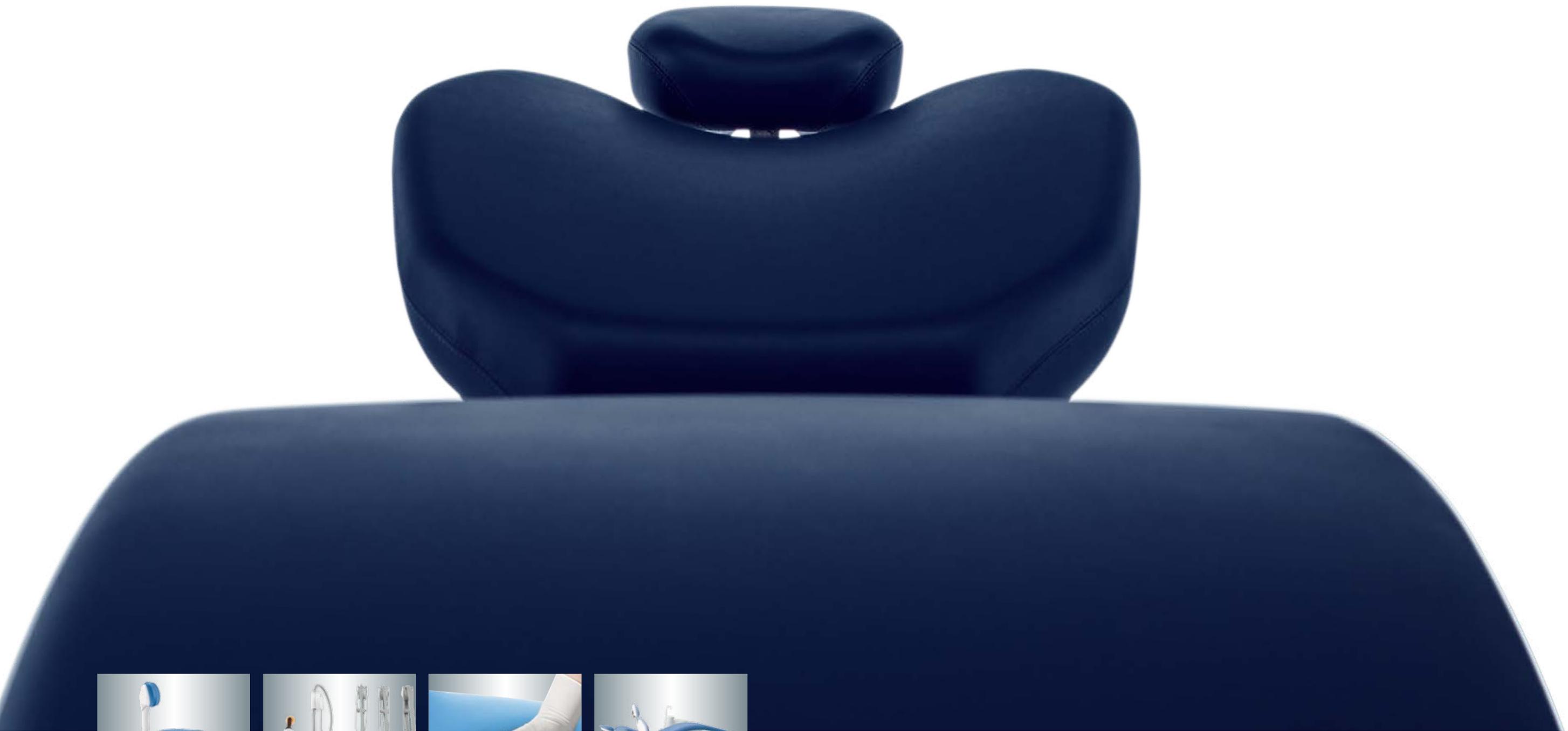


The capacitive sensor, inserted inside the handle underneath the instrument control panel, is used to deactivate the pneumatic brake and then accurately lock the dentist's module in position.



The 3-holder assistant's module, fitted on the vertically adjustable articulated arm, can be positioned at a height that best suits medical staff. An optional add-on unit with 2 instrument holders for camera and T-LED light is also available.

Modern ergonomics provides a host of benefits, and one is appreciated more than any other: space. A compact unit body and a patient chair that lifts up to the height of the cuspidor bowl means smoother staff workflows and frees up plenty of space underneath the backrest. When the chair is lowered, the patient can access the seat easily and comfortably. The Atlasis pneumatic headrest has become the unparalleled industry benchmark. Its orbital movement follows the patient's anatomy smoothly, ensuring precise, comfortable head positioning.



T9 Stool
The seat can be tilted to avoid pressure on the underside of the thighs. Lumbar support smoothly follows upper body movement. Adjustable to suit dentists of any height, the T9 is the focal point of your daily wellbeing.



On each version, it's also possible to complete the dentist's module with an optional sixth instrument: camera or curing light.



Memory Foam



One of the key features of the dental unit is the excellent vertical excursion of the patient chair.

Your wellbeing depends on the shared wellbeing of both those who work around the patient chair and the patients. Operating comfort and patient relaxation both contribute to good treatment results. That's why Stern Weber has created a set of elements designed to make treatment stress and discomfort-free. Correct anatomic support throughout treatment guarantees comfort and relaxation. Memory Foam padding adapts perfectly to the build of any patient. Available in 7 colours.



Power Pedal Foot Control



Pressure-operated Foot Control



Multi-function Foot Control

With the instrument extracted the dentists can invert the direction of micromotor rotation and switch the operating light on. In surgery mode it's also possible to open and close the peristaltic pump.



Venus Plus

- Light intensity from 8,000 to 35,000 Lux
- Potentiometer and soft-start device
- Colour temperature: 4,900 K
- 3-axis rotation



Venus Plus - L LED

Powerful dual-reflector LED operating light, adjustments via no-touch sensor. Available as an option.

- Light intensity from 3,000 to 50,000 Lux
- Colour temperature 5,000 K
- Low-thermal emission LED light sources



Syringe

Available with 2 ergonomic solutions, straight or angled tip; the 6-function syringe can be supplied with or without optic fibres.

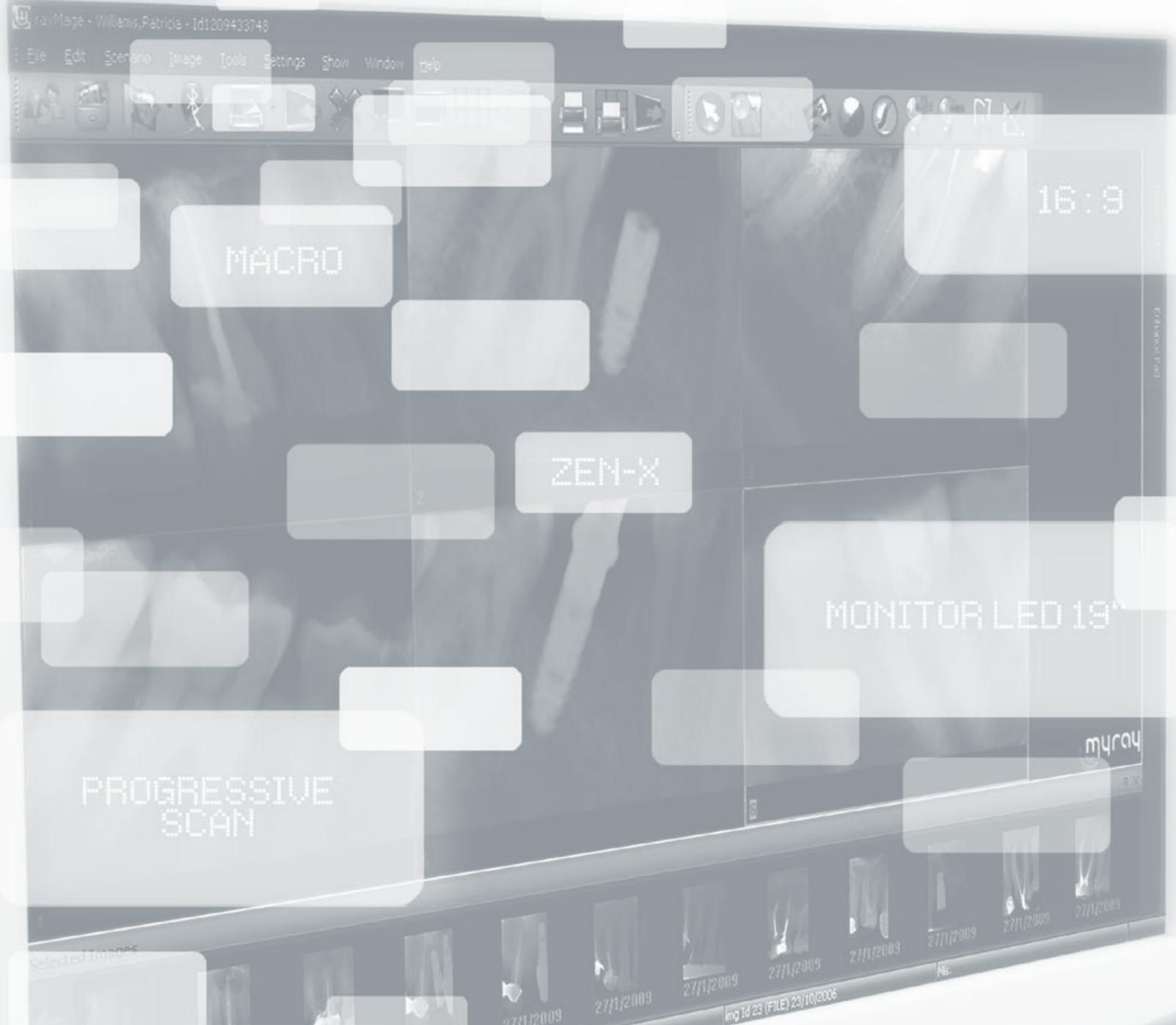


T-LED

Dual-ergonomics curing light with 6 polymerisation and bonding programmes. Each programme has been optimised to prevent shrinkage (anomalous hardening and volume reduction) of the composites and achieve one overriding goal: reliable results.

Why stop at the choice of colour or limit yourself to a certain ergonomic option when the best way to bring out your hard-earned professionalism lies in the details that follow your every single move? Stern Weber leaves the choice of foot control, operating light and the configuration of exclusive instruments - all smoothly integrated with the dental unit electronics - up to you.

There are five foot control solutions, three lead-connected and two wireless, which feature controls for patient chair movement, Chip Air and Chip Water functions and other specific controls that free the dentist's hands. At last: freedom to operate just the way you want



MACRO

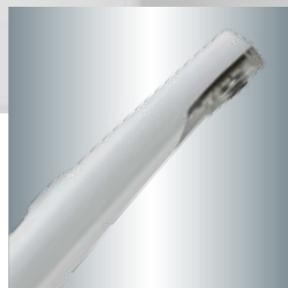
ZEN-X

MONITOR LED 19"

PROGRESSIVE
SCAN

Independent and effective

Thanks to integration of a complete X-ray diagnosis system, dentists can achieve greater autonomy and enjoy the benefits of enhanced diagnostic capabilities, available immediately on board the dental unit. The multimedia system encourages interaction with the patient and enhances the treatment experience. Obstacles to patient consensus are removed and session times are shortened thanks to greater clarity and improved workflow efficiency.



C-U2
Excellent brightness, no manual adjustment required, vibration-free freeze frame images. All thanks to the microprocessor incorporated in the handpiece and Progressive Scan technology.



C-U2 PRO
Three different focal adjustments: Macro, Intra-oral and Extra-oral. An ergonomic, versatile digital camera designed to meet all your image-based communication needs.



19" LED Monitor
CE 93/42 certified, the 16:9 monitor comes complete with a lead for connection to the PC. LED light sources ensure outstanding contrast and brightness. A touch-screen version is also available.



For the touch-screen version the optional double-articulated arm is recommended to move the screen in closer or further away from the operating zone. The screen is also tilt-adjustable.

Offering total communication, a multimedia configuration complete with advanced technologies and an exclusive digital X-ray system lets you give voice to your professionalism as never before. When it comes to illustrating the positive outcome of a treatment programme, nothing speaks more clearly than sharp images, helping the dentist gain the patient's trust and raise his level of involvement. Consisting of innovative, ergonomic instruments, the system increases working efficiency while giving free rein to individuality.



RXDC HyperSphere
DC X-ray unit with integrated 30 cm collimation, designed for digital radiology. Provides pin-sharp images thanks to a focal spot of just 0.4 mm.



A spherical ball-joint and a lock/release mechanism activated by 2 touch-sensitive areas on the tube head ensure that positioning is both fast and precise.



The handheld wireless control device features 4 keys to adjust exposure and another key to take the X-ray. The RXDC automatically calculates the correct exposure on the basis of the selected anatomic area.



Zen-X
Digital sensor with three-layer technology and CMOS receptor available in 2 sizes. Built to last and featuring rounded edges, the sensor can be positioned in the patient's mouth easily and comfortably. Simple to remove, it can be transferred onto other device-compatible machines.

The S280TRC perfectly combines the two driving forces behind Stern Weber product development: technology and comfort. The integrated X-ray system is a case in point: the technology of an innovative DC X-ray unit, a simple handheld wireless control unit and the comfort of a system that has no need for its own installation points in the surgery. Last but not least come the extreme flexibility of the X-ray unit positioning device and a latest-generation sensor on the dentist's module. Understanding the dentist's needs and then providing an efficient response to them is our overriding priority, paving the way towards solutions designed to be universal and suitable for whoever chooses Stern Weber.

Choose just the level of hygiene you prefer

Hygiene is essential. That's why Stern Weber insists that every device be the object of specific research. The effectiveness of the systems, both individually or where used together, has been demonstrated and documented in numerous scientific treatises. Each degree of protection represents a safety barrier you can count on, ensuring complete peace of mind and enhancing your professionalism. In the hygiene universe, in addition to active systems, there is also the design concept of passive hygiene, a key aspect that impedes the greatest risks of contamination at source.



W.H.E. (Water Hygienisation Equipment)
 Thanks to utilisation of **Peroxy Ag+**, a hydrogen peroxide and silver ion-based disinfectant, the continuous disinfection system, which features mains water-dental unit air gap separation, guarantees the microbiological quality of the water in the water circuits. The system complies with European standards and is DVGW-certified.



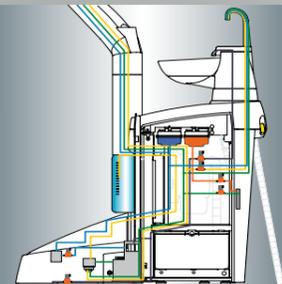
SANASPRAY
 To avoid using mains water, dentists can use the SANASPRAY system, which supplies distilled water from the pressurised tank mounted externally on the unit body. A second dedicated tank can be used for manual disinfection of the circuits. The use of **Peroxy Ag+** disinfectant is recommended.



A.C.V.S.
 Automatic system that carries out suction system sanitisation cycles between one patient and another.



Automatic Chip Air
 This system, featured as standard, automatically emits an air jet when you stop using dynamic instruments so as to clean any residual liquids or solids from the handpiece.



- BIOSTER
- W.H.E.
- SANASPRAY
- A.C.V.S.
- Mains water

The joint use of systems and substances designed to disinfect the water circuits constitutes nothing less than a solid 'wall' against contamination in the surgery. **Peroxy Ag+** acts against all water-borne contaminants, including Legionella, against which just 10 minutes' contact at the recommended concentration will suffice. While the **W.H.E.** system executes a continuous disinfection process, the **BIOSTER** system carries out automatic spray water circuit disinfection cycles, just perfect for efficient end-of-work protection. The **I.W.F.C.**, the device included in the **BIOSTER** system or available separately, ensures conduits are cleaned after the machine has been idle for a set period.

Orrù et al. - Evaluation of Antimicrobial - Antibiofilm Activity of a Hydrogen Peroxide Decontaminating System used in Dental Unit Water Lines - The Open Dentistry Journal, 2010; 4: 140-146
Orrù et al. - Valutazione dell'attività antimicrobica di un sistema decontaminante a base di perossido d'idrogeno. Risultati in vitro e su riunito odontoiatrico - Il Dentista Moderno 2006; dicembre: 60-71



In addition to upholstery and other removable elements on the dental unit, the cuspidor bowl and cup-and-bowl fill unit can be disassembled to allow their proper sanitisation. An optional ceramic cuspidor bowl is also available.



Numerous parts can be autoclaved: the handles on the Venus Plus-L LED operating light, the cannulae terminals, the stainless steel tray holder and the removable handpiece support mat in silicon.



The double suction filters fit flush with the unit body. Extensive filtration surface area reduces emptying frequency. Automatic and independent selection of cannulae is available.



Holder guides provide support during extraction and replacement of the suction cannulae. The roller housing can easily be removed for disinfection and cleaning purposes.



The unit body covers the entire side of the unit. Makes access for maintenance tasks easier.



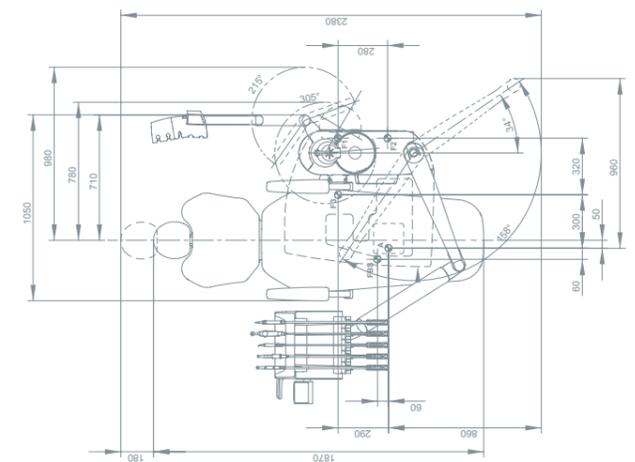
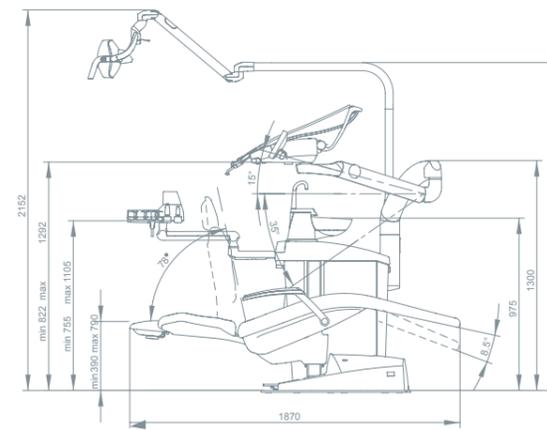
Disposable covers for dentist's and assistant's control panels. On the Full Touch version a special key temporarily deactivates the touch-sensitive screen to allow cleaning without interfering with the controls.

CONFIGURATIONS AND COLOURS

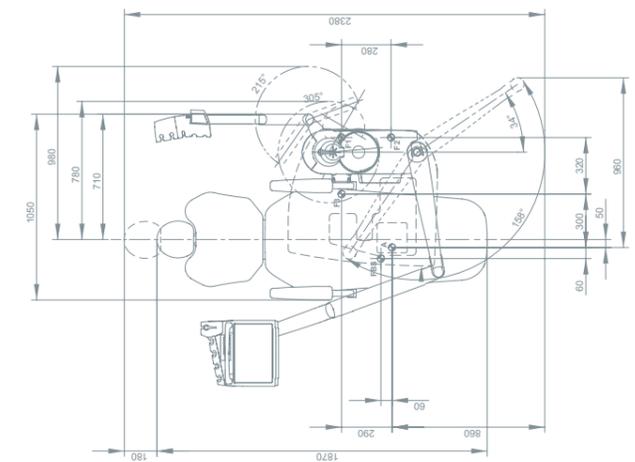
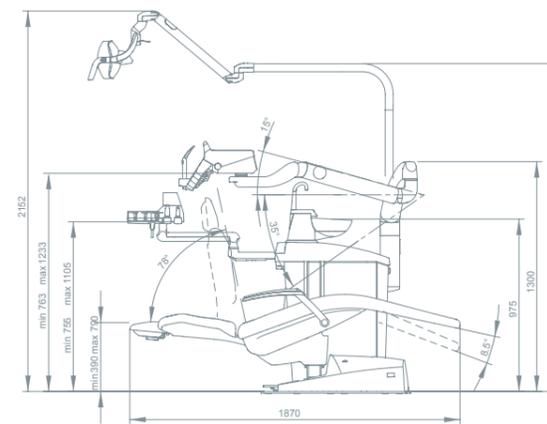
S280TRC	INTERNATIONAL	CONTINENTAL
HYGIENE SYSTEMS		
BIOSTER	*	*
A.C.V.S.	*	*
SANASPRAY	*	*
W.H.E.	*	*
I.W.F.C.	*	*
DENTIST'S MODULE		
Full Touch Display	*	*
Micromotor i-XR3L with f.o. (1,000 – 4,000 rpm)	●	●
Micromotor i-XS4 with f.o. (100 – 40,000 rpm)	*	*
Peristaltic pump module	*	*
6-way syringe with f.o.	*	*
Sixth instrument	*	*
X-ray viewer for panoramic x-rays	*	-
Integrated sensor	*	*
UNIT BODY		
Glass cuspidor bowl	●	●
Ceramic cuspidor bowl	*	*
Cuspidor bowl drive system	*	*
Cup water heater	●	●
Spray heating	*	*
Independent cannulae selection	●	●
Suction stop device on chair base	●	●
Multimedia applications wiring	●	●
Transthoracic tray holder	*	●
Dentist's module tray holder	*	●
Assistant's tray holder	*	*
Venus Plus light	●	●
Venus Plus-L LED light	*	*
PATIENT CHAIR		
Atlaxis headrest	*	*
Mobile, removable right armrest	*	*
Left armrest	●	●
Child's cushion	*	*
Multi-function foot-control	●	●
Pressure-operated foot control	*	*
Power Pedal foot control	*	*
Multi-function foot-control (wireless)	*	*
Pressure-operated foot control (wireless)	*	*
Full seat cover for patient chair	*	*

● as standard * optional - not available

CONTINENTAL



INTERNATIONAL



Dimensions are quoted in millimetres.

