

SKEMA₈

HALLMARK
OF EXCELLENCE

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CASTELLINI

PASSION FOR DENTISTRY
SINCE 1935



HALLMARK OF EXCELLENCE

Skema 8 is the complete Castellini treatment centre. Equipped with a selection of fully integrated specialist instruments and exclusive technologies, the unit offers on one hand the freedom and flexibility of an all-inclusive concept, on the other hand the solid assurance of Castellini design. Whatever the specialisation, from conservative dentistry to oral surgery, dental surgeons can turn to Skema 8 for immediate answers: a brushless micromotor capable of extensive torque values, the LAEC system which offers maximum efficiency and clinical safety in endodontic treatments, Autosteril for total hygiene and the latest Castellini surgical ultrasound handpiece. In terms of comfort and ergonomics, the hydraulic patient chair is an unrivalled example of design excellence, ensuring far more than simply synchronised movements. In all clinical situations, Skema 8 represents the peak of quality, working comfort and advanced performance - a thoroughbred.

SKEMA₈





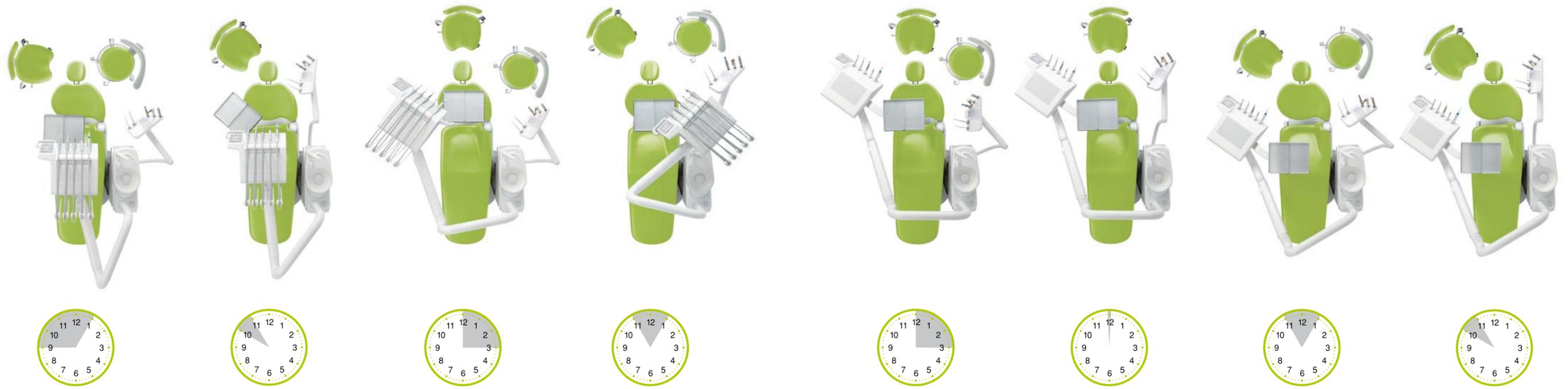
SKEMA 8 CP

UNIVERSAL SOLUTIONS

Skema 8 offers a comprehensive range of ergonomic solutions with a view to creating the ideal operating condition for every clinical requirement. The manoeuvrability of the main elements - instrument module fitted on an air-braked arm, assistant's module with extensive vertical work range, powered cuspidor bowl - combines unhindered operating freedom with natural, fluid movement.

A key contribution to the ergonomic set-up also comes from the patient chair, the shaping and synchronised movement of which again optimises the operating space available to medical personnel. Silent, powerful, intelligent: the chair forms the core of a sophisticated ergonomic concept and provides outstanding comfort.





Ergonomic approach

Skema 8 has been designed to ensure that ergonomics and comfort play an undisputed role at all times. Treatment requirements have matching ergonomic needs. The design concept behind the Skema 8 project acknowledges these needs and provides solutions that allow personnel to operate in complete freedom. All the positions for classic two-handed or four-handed treatment procedures have been mapped out at the dental unit assessment and design stages to guarantee an effective response in any clinical situation.



Sliding

The sliding function provides four key advantages: synchronised movement of the patient chair maintains *patient comfort* and keeps the *distance ratios between operating zone and the two dental unit modules constant*; it allows *patient repositioning without having to move the operating light* in that its beam remains pointed at the oral cavity; lastly, there is a much *easier-to-use space around the tilted backrest* compared to that provided by a chair without the sliding function. All this is made possible thanks to the exclusive synchronized movement of seat and backrest: while the backrest is lowered, the seat slides forward and is raised.

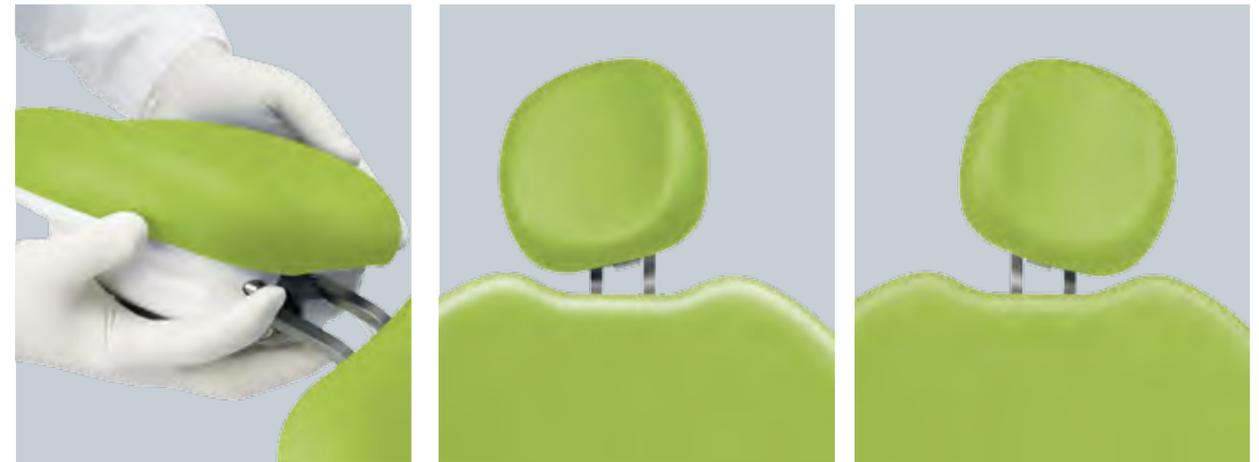


Design in movement

The structural solidity of the Skema 8 is its patient chair, silent-running with fluid movements, powerful and reliable thanks to its hydraulic mechanism. It provides excellent patient comfort and, thanks to an extensive height adjustment range, can be placed at the ideal height whatever the operating circumstances. Movements can be managed directly or via memory programs that include twelve working positions, rinse function, return to last working position and automatic reset. Backrest tilt is coordinated with the knee joint area to bring the patient into the Trendelenburg position. Asymmetric shaping of the lumbar area of the backrest and an offset backrest-seat joint provides the dentist with an unhindered approach to the patient.

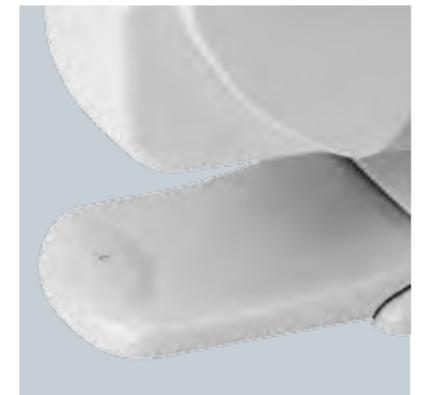
Pneumatic headrest

The pneumatic headrest pivots on 3 axes to allow quick, precise positioning of the patient's head. The headrest can be released easily thanks to a button located at the bottom.



Suction Stop device

Pressing the chair base causes temporary suspension of suction with the cannulae extracted. Both the backrest and base plate are equipped with a safety device that prevents any risk of crushing.



Seats

The exclusive C9 anatomical seat is designed to provide a physiologically correct, healthy working position: broad vertical excursion, adjustable thigh support, vertically and horizontally adjustable backrest with compensation system for continuous lumbar support. Also available to the medical team are the comfortable yet practical C7 and C8 seats.





Dentist's module

- to reposition instruments, it is enough to lightly touch the capacitive sensor inside the handle, move the module and release the handle to activate locking in the required module position
- the tube extension capacity and minimized instrument support arm height enhance the module positioning range without any risk of interference with the operating light
- optional end-of-stroke lock system for enhanced freedom of movement
- easy to handle, self-balanced instruments minimising operator wrist fatigue during use
- the tray holder, pivoting on an articulated arm, can be adjusted to any working position
- the large trans-thoracic tray holder can easily be reached by both the dentist and the assistant
- the dentist's module's extensive vertical work range facilitates suitable positioning to meet any working requirements

Freedom and precision

The Skema 8 work range is enhanced in both versions by its extensive-travel arms, allowing the operating ergonomics to adjust to each clinical situation with maximum efficiency. The excellent manoeuvrability of all dental unit elements helps maintain a correct, natural posture at all times, thus significantly reducing physical stress and fatigue during the course of the working day.



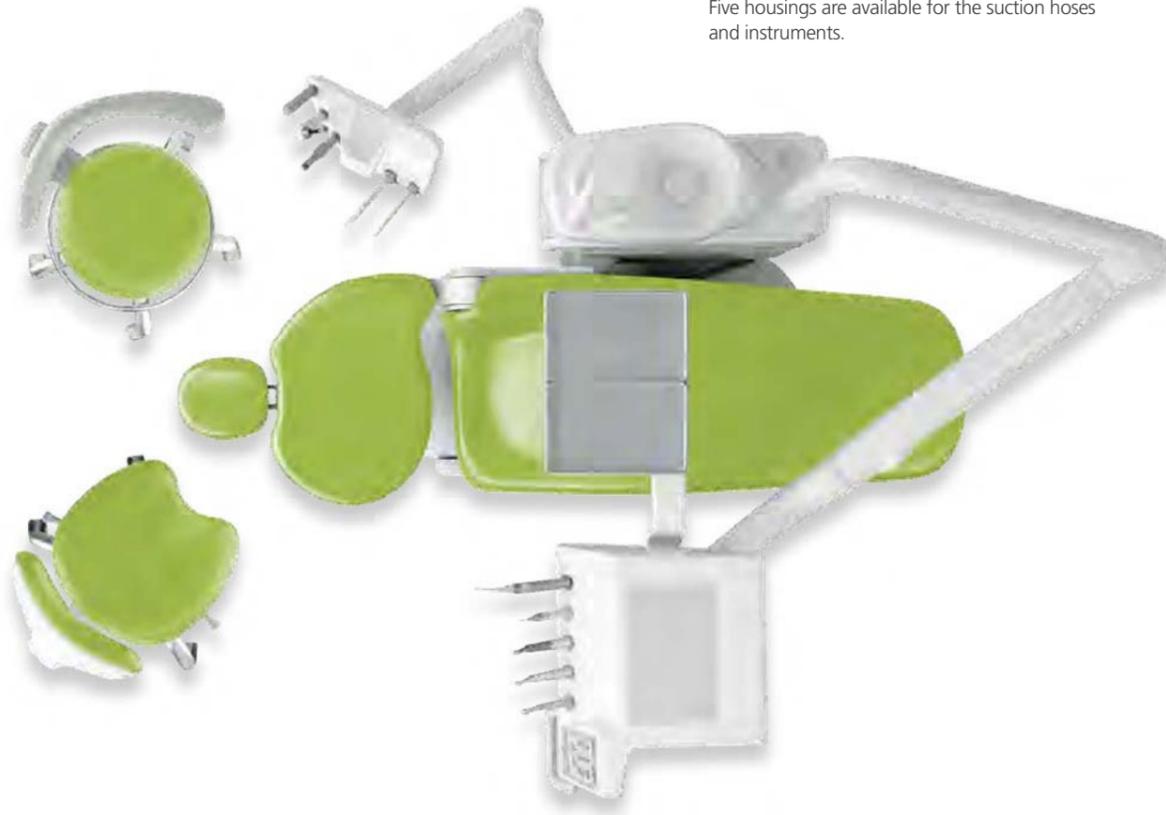
Comfort and confidence

On the hanging tubes module, the instruments are arranged in a functional manner to facilitate comfortable, easy pick-up and intuitive replacement in the holder. As a result, the work flow is fast and smooth. Moreover, the instruments remain outside the patient's field of vision to provide a more soothing, relaxed atmosphere.



Multifunctional ergonomics

The assistant's module on a dual articulated arm is height-adjustable and can be extended and folded to make more space available for the assistant whilst guaranteeing the greatest functionality in any (two- or four-handed) operating position. Five housings are available for the suction hoses and instruments.



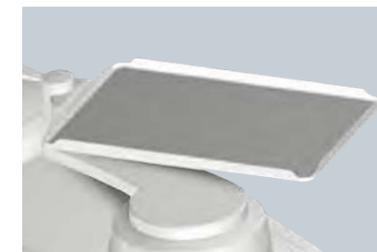
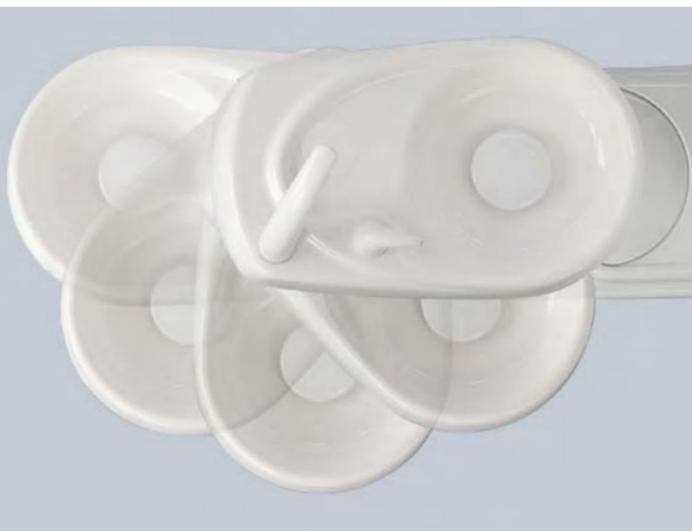
Assistant's module



- lightweight and handy, the suction cannulae are provided with roller housings
- easy and accurate vertical positioning of the module
- from the control panel, the patient chair movement, cup and bowl filling, operating light and Autosteril hygiene system activation can all be controlled
- the (optional) assistant's tray holder module is handily installed next to the assistant's module
- the cup and bowl filling units and the cuspidor bowl itself can be removed and disassembled to optimise hygiene procedures
- tray holder module available to replace the cuspidor bowl

Motor-driven cuspidor bowl

The motor-driven ceramic cuspidor bowl rotates automatically reaching one of the pre-set positions and guarantee patient comfort during treatment. With its simple controls available on each instrument panel, the cuspidor bowl can then be returned to its stand-by position above the unit body.





Pressure operated foot control

Pressure-type control to activate and adjust instruments, move the patient chair and recall saved positions. Also used to select spray, chip air and chip water functions. (optional)



Multi-function foot control

Instrument activation and adjustment, light power-on and off, joy-stick for patient chair direct and programmed movement control, chip air, chip water and spray circuit control.



Lateral slide foot control

A lever-operated version of the foot control is also available. This foot control can be used to move the patient chair, select spray and activate the chip air and chip water functions. (optional)



Power Pedal

Power Pedal is the newly designed foot control unit to control the patient chair either directly or by recalling previous position settings from the system memory. In addition to activating the selected instrument with or without spray operation, the chip air and chip water features can also be activated. (optional)



Wireless freedom

The pressure operated and lateral excursion foot controls are also available as wireless controls. Because there are no wires the unit can now be positioned as desired without creating any hindrance, allowing for more comfortable on-patient treatment and significantly increasing hygiene standards. Exclusive battery technology means that the unit can go more than two months between recharges; in any case it is supplied with a lead for fast connection to the dental unit so that recharging can also be carried out during work.



ADVANCED CONTROL

Highly advanced control means that dentists can focus exclusively on their work and their patients.

Full Touch is a large touch screen display (5.7"); made of tempered glass, it can be completely sanitised, offers excellent resistance to impact and scratching and, above all, provides fast user-friendly control of all dental unit functions. When an instrument is selected the display shows only the information needed for the treatment in progress: a light tap on the screen and the dental unit is ready for work, following the dentist's every personal need. The new Full Touch control panel, based on a Linux platform and a powerful cutting-edge microprocessor, also features an exclusive full-screen X-ray display function and lets users save and load all their personalised settings directly via a simple USB storage device.



Personalised interaction

The information shown on the Full Touch control panel can also be personalised: at the touch of a key dentists can choose between basic information or more advanced settings allowing more comprehensive personalisation of the way dynamic instruments and integrated hygiene system devices are used.



INSTRUMENT CONTROL PANEL



Intuitive control

The Full Touch display provides immediate information and fast control. Patient chair positioning, instrument spray mode, the operating light, automatic disinfection procedures; all these can be controlled simply by tapping on an icon, ensuring dentists enjoy unparalleled freedom to focus exclusively on their patients.

Outstanding clinical potential

Whatever the treatment being carried out, the Full Touch control panel lets dentists set and save the working parameters of each individual instrument with just a few taps of the finger; this is especially true of the LED Implantor micromotor which, thanks to this exciting new interface, is able to express its full all-round potential and so allow the dental surgery to expand its range of clinical treatment.

Full Touch also allows dentists to make all the clinical settings needed for safe use of the innovative ultrasound surgery handpiece, where included on the dentist's module.

Innate versatility

With the tap of a finger the micromotor becomes an advanced endodontics instrument: special functions such as torque control, reverse and autoreverse are always ready for use, as is an extensive library of endocanal files.



Absolute safety

In implantology all the settings needed to complete each implant operating protocol precisely and safely can be personalised and recalled with ease: the software provides an outstanding level of interaction, allowing the dentist to set bur torque and speed parameters to match the employed contra-angle, control the peristaltic pump delivery rate and control all the other work modes that make implant site preparation and actual implantation easier.



EXCLUSIVE PERFORMANCE

The Skema 8 dentist's module is the hub of the surgery. Five technologically cutting-edge instruments, integrated hygiene systems and sophisticated electronic control combine to meet, serenely and safely, the requirements of not just conservative, but also prosthetic and endodontic dentistry, implantology and other surgical applications. Around the module Castellini ensures you're provided with optimal ergonomics to ensure smooth, relaxed work flows.



INSTRUMENTS



Implantor LED Micromotor

Latest-generation brushless Micromotor designed to cover any conservative, prosthetic, endodontic, implantology and oral surgery requirements. With its low-noise operation and minimal weight, Implantor LED is vibration-free and characterised by extremely high torque and outstanding reliability. The highest performance for all specialist applications. Completely autoclavable.

Conservative and prosthetic dentistry:

- 100 up to 50,000 rpm with 1:1 ratio
- electronic torque control up to 4.5 Ncm
- top speed pre-setting possibility
- used Handpiece pre-setting

Endodontics:

- adjustable torque from 0.05 to 5 Ncm (± 0.06 Ncm) (with E 16 Handpiece)
- NORM, REV, AUTOREV functions
- (optional) integrated apex locator
- external cooling possible

Implantology:

- adjustable torque up to 70 Ncm (with ATR 80 handpiece)
- speed control from 5 rpm (with R20-L handpiece)
- external cooling possible with sterile source liquids



Silent Power Turbines

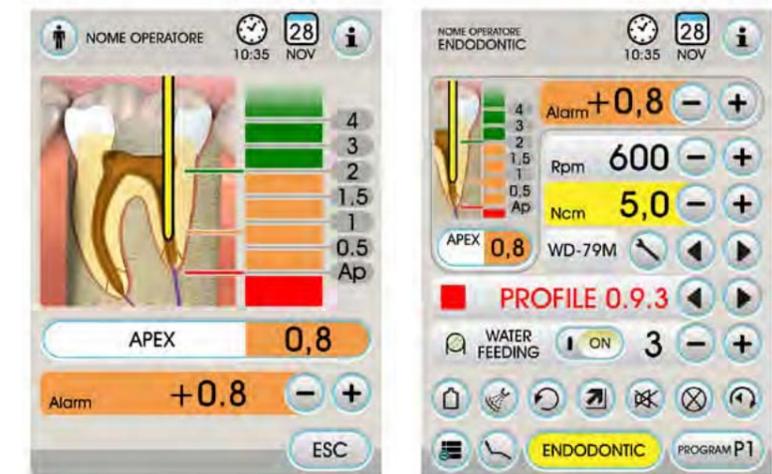
The silent comfort of superior performance. With the Silent Power range of turbines, the perceived operating noise has been more than halved compared to a traditional turbine

- 57 dB(A) compared to the 62/64 dB(A) of conventional turbines*
- ceramic bearings
- superior performance and long life
- minimised vibration
- 350,000/400,000 rpm
- 2/4 spray system: highly efficient cooling with independent water and air nozzles

* the perceived noise doubles every 3dB

LAEC

The Castellini Electronic Apex Locator offers maximum efficiency and clinical safety in endodontic treatments. The file position inside the root canal is shown on the display unit integral with the dental unit. When the apex distance threshold programmed by the operator is reached, the LAEC will emit a warning tone. (optional) Where the LAEC is present, the control panel allows easy, safe and precise location of the root canal apex.





Piezosteril 6 / Piezolith 6

Versatile and multifunctional ultrasound handpieces suitable for prophylaxis, endodontics and periodontal procedures, available with or without fibre optic for LED lighting

- perfectly linear and controlled ultrasonic vibrations, with no parasitic lateral vibrations, assure constant self-tuned frequencies from 25 to 32 kHz depending on load and tip conditions
- broad power adjustment range
- self-adjusting power output, depending on load, prevents overheating of the handpiece and irrigation fluids
- irrigation flow adjustable from zero to the maximum
- may be autoclaved.



Surgison 2

Ultrasound handpiece specially designed for oral surgery, implantology and osteotomy, available with an extensive range of special tips for any treatment requirements

- directly interchangeable with the Piezolith 6 scaler, whereas instrument tubing has to be substituted for the Piezosteril 6 scaler.
The Surgison 2 handpiece is always automatically detected and driven by the unit
- completely autoclavable
- the unit-integrated optional peristaltic pump ensures completely aseptic cooling by dedicated liquids



Goldspeed Handpieces

Contra-angles and straight handpieces designed to meet all-round dental needs, built from special materials by applying high precision micromechanics processes

- full titanium body (except E16)
- inbuilt anti-retraction device
- internal spray
- inbuilt fibre optics (S1-L, M5-L, R20-L)
- ceramic bearings (M5-L)
- external and hollow bur cooling (R20-L)
- completely autoclavable



T - LED

Lightweight, compact curing light with an exclusive design that allows use as both a direct version or 120° angled version.

- high power LED up to a maximum of 2,200 mW/cm²
- 430 - 490 nm emission band
- 6 pre-set programmes





Multimedia and accessories

Medicalview Monitor

Available throughout the Castellini dental unit range, multimedia integration with a 19" 16:9 format LED Monitor provides a powerful image-based communication and diagnosis tool featuring cutting edge technology. Fitted on the operating light column, the monitor can be positioned and tilted as desired. A double articulation support arm allows it to be moved closer to or further away from the operating zone as requirements dictate. On the touch-screen version of the monitor, such mobility provides outstanding ergonomics and working efficiency.

LED technology

In addition to the durability of LEDs and their low energy consumption, monitors with LED technology also offer excellent contrast, bright colours and sharp images.

Operating ergonomics

With its double articulation support arm, the monitor offers excellent mobility, allowing a variety of operating positions. In addition to comfortable use for both dentist and assistant, it also ensures greater involvement of the patient when sharing the outcome of treatment via on-screen imagery.

PC connection

CE 93/42 certified, the flat, waterproofed screen Medical Device Monitor comes complete with a lead for connection to the PC. On the touch-screen version a USB port provides a further connectivity option.



C-U2 PRO

The C-U2 PRO camera, together with the LED monitor, constitutes an optional integrated system that gives the dentist's work true added value. C-U2 PRO provides images via three different focal adjustments and, thanks to its slim distal profile, ensures easy access to the entire oral cavity:

- MACRO: applies a magnifying factor to inspect the tiniest details
- ENDO: excellent depth of field allows for complete inspection of the oral cavity
- EXTRA-ORAL position: provides a comprehensive record of the dentist's work.

C-U2

Ready for instant use, this intra-oral camera generates immediate, crystal-clear images that the dentist can easily share with the patient

- light, ergonomic, easy to position
- freeze-frame function at the touch of a finger
- effective lighting of the oral cavity thanks to the highest illumination rating in its category

Venus Plus

High performing operating light with rotation movement on three axes for accurate light adjustment to the oral cavity

- colour temperature 4,900 K
- luminous intensity from 8,000 to 35,000 Lux (adjustable by potentiometer)
- front protective screen
- removable handles
- rear fan

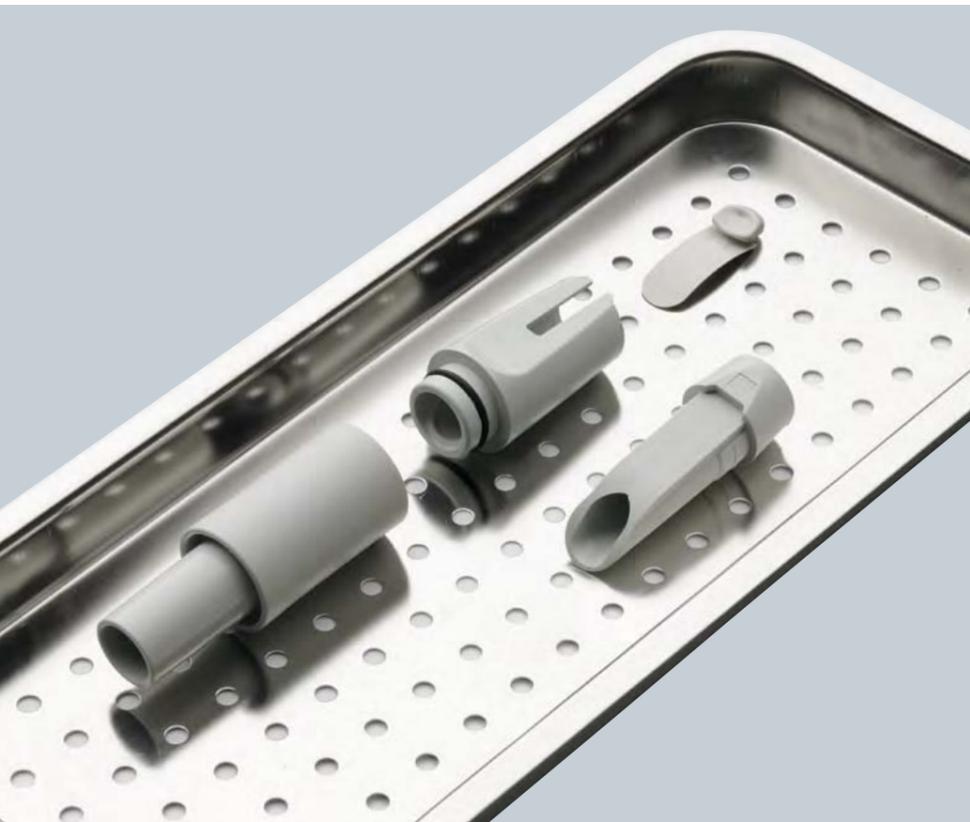
Venus LED

Operating lamp with long-lasting, low-consumption LED light source plus 3-axis rotation for perfect illumination of the operating area.

- maximum light intensity 50,000 Lux
- colour temperature 5,000 K
- potentiometer to adjust light intensity
- No Touch sensor to switch on and adjust
- easy-to-clean hermetically sealed frontal protective screen
- handles can be cleaned in an autoclave



HYGIENE AND ASEPSIS

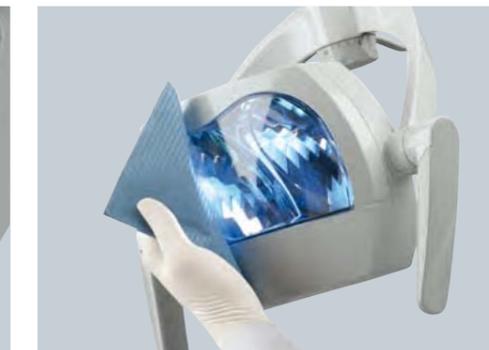


Passive hygiene devices

Before operating any active protection device, several dental unit design features can be used to dramatically reduce the risk of contamination

- instrument panel controls protected by disposable film
- autoclavable silicone instrument support mat
- removable and disinfectable dentist's module handle
- removable and cold-disinfectable operating light handles
- dual suction filters with large filtering surface allowing for less frequent draining
- removable and disinfectable roller housing cannula guides
- easily removable upholstery for easy, effective hygiene applications and procedures
- unit body with smooth, specially treated surfaces making it easier to maintain hygienic conditions
- quick and easy access to the Autosteril system tank
- removable, heat disinfectable tubes

V.D.S. delayed suction stop to allow for internal drying of the tubing.





Active hygiene devices

M.W.B.* - continuous disinfection system coupled to an air gap separation from mains water device in accordance with EN 1717

- 20 mm separation between mains water system and dental unit lines
- water titration with 0.06% H₂O₂

Peristaltic pump* - inbuilt system, necessary for oral surgery and implantology work with the Castellini instruments available on the dental unit

- Implantor LED Micromotor and Surgison 2 ultrasound Handpiece irrigation with normal saline solution

S.S.S. - independent supply to instruments

- 1.8 litre capacity pressurised tank
- external tank to facilitate replacement at any time

A.C.A. - spray anti-retraction system

- prevents contaminant suction during the instrument stopping phase
- minimises any patient cross-contamination risk

S.H.D.* - suction system hygiene procedure

- water flushing and hygienisation with a special liquid from a dedicated tank
- the duration of each cycle (approximately 1 minute) allows for hygienisation between patients

H.P.A.* - pneumatic supply hygienic protection via a device equipped with an autoclavable filter element

- allows for surgical use of the instruments

Time Flushing* - quick flushing of the dental unit body with mains water or separate supply water.

*optional

Protection against Legionnaire's disease

Microbiological water quality inside the dental unit is ensured by Peroxy Ag+, a bactericidal, fungicidal and micobactericidal disinfectant. This substance, at the concentration indicated by Castellini, acts effectively against all water-borne contaminants, in particular Legionella. Against the latter it has been proven to be an effective bacterial disinfectant after just 10 minutes of contact.

Autosteril A

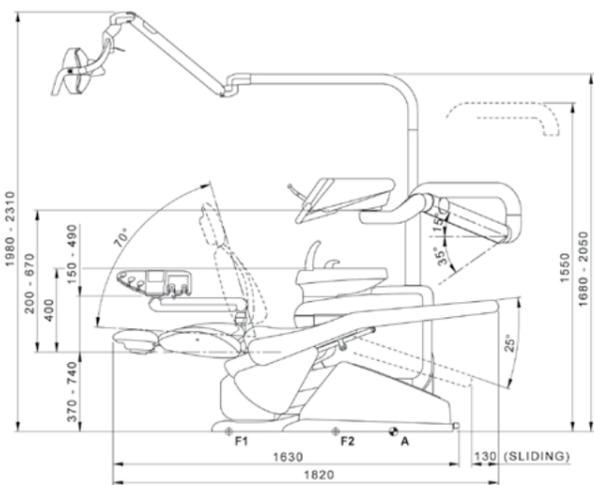
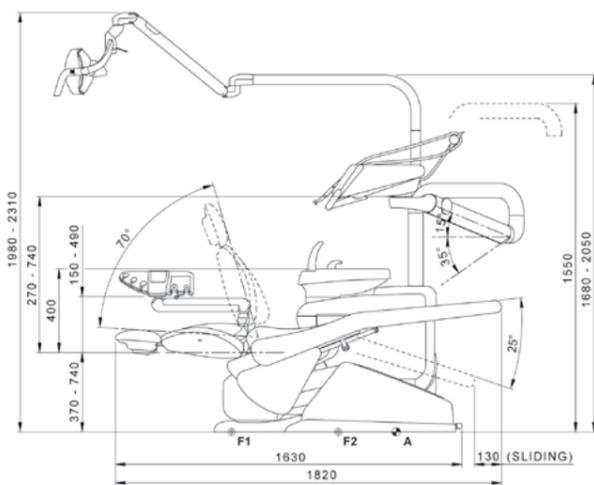
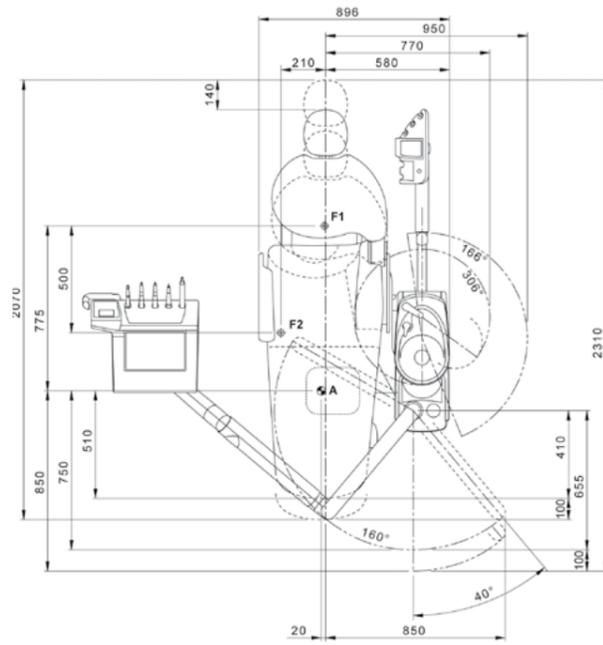
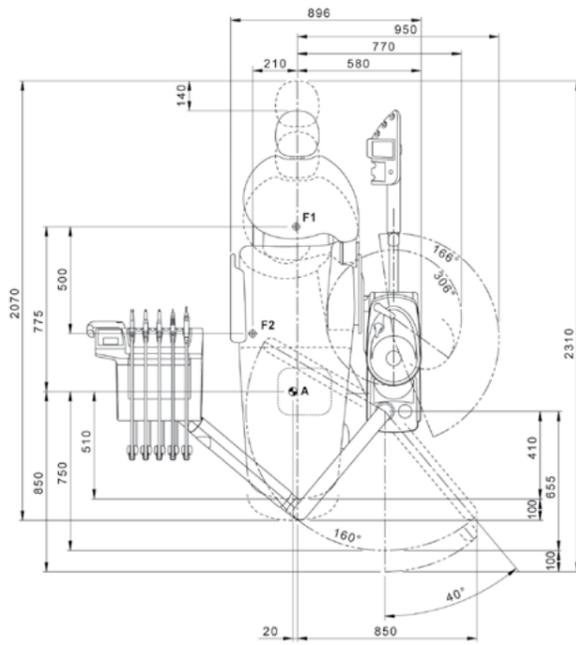


The optional Autosteril system ensures automatic disinfection of the spray circuits. It helps hygienisation at the end of a day's session and allows for short cycles to be carried out in the following steps:

- circuit draining with compressed air
- addition of 3% H₂O₂ to the spray water circuits
- 'hold time' allowed for liquid to work to intensive disinfection results
- liquid draining with compressed air
- (mains or distilled) water flushing

Extremely easy access to the disinfectant tank and dental unit body allowing for straightforward and quick servicing.





Colour range

- 102 Atlantic blue
- 113 Pacific blue
- 106 Mediterranean blue
- 136 Indian blue
- 101 Caribbean green
- 123 Polynesian green
- 103 Nevada yellow
- 115 Scottish salmon
- 132 Blueberry violet
- 134 Japanese wisteria
- 135 Venetian red
- 130 Graphite black
- 121 Anthracite grey
- 137 Satin silver



Hygiene systems

Separate Supply System

- Autosteril A (Automatic) for disinfection of the water circuit
- Multi Water Bio controller (EN 1717-compliant water infeed unit with continuous disinfection system)
- Time Flushing (quick wash cycle of the water circuit)
- Suction Hoses Disinfection (wash and disinfection of suction system)
- Peristaltic pump kit with saline solution irrigation set
- Hi Protected Air (pneumatic feed filter)

Dentist's module

- Turbine kit complete with Silent Power Silver 4L fibre optics, quick coupling handpiece
- Turbine kit complete with Silent Power Gold fibre optics, quick coupling, titanium handpiece
- Turbine kit complete with Silent Power Gold Miniature fibre optics, quick coupling, titanium handpiece
- Induction Micromotor Implantor LED fibre optics kit (100 – 50,000 rpm – 4.5 Ncm)
- Kit Piezosteril 6 scaler complete with 4 tips
- Piezolight 6 scaler with fibre optics with 4 tips
- Surgison 2 surgical ultrasonic kit
- LAEC (Integrated Apex Locator)
- T-LED curing light kit
- Instrument lever stop kit
- 6-way stainless steel syringe kit
- Transthioracic tray holder module
- 6th instrument kit (curing light or camera handpiece)

Assistant's module

- T-LED curing light kit
- 3-way stainless steel syringe kit
- 6-way stainless steel syringe kit
- Removable and disinfectable suction tubes
- Removable and autoclavable suction cannulae
- Assistant's module with keypad complete with control switch for chair, operating light mounted on self-balanced arm
- Tray holder table on assistant's module

Operating light

- Venus Plus light
- Venus LED light

Unit body

- Swivel and removable motor-driven bowl
- Water-to-cup heater
- Instrument spray heater
- Air/water supply quick couplings for external devices
- Multimedia cables and PC connections
- Tray holder table in place of bowl

Patient chair

- Pneumatic release headrest with 3-axis movement
- Multifunction foot control with Joystick
- Pressure-operated foot control with Joystick and spray on/off kit
- Pressure-operated foot control with Joystick and spray on/off kit, wireless
- Foot control, Power Pedal type
- Lateral slide foot control
- Lateral slide wireless foot control
- Left armrest
- Right armrest

Over the patient delivery system Hanging tubes

	Over the patient delivery system	Hanging tubes
Hygiene systems		
Separate Supply System	●	●
Autosteril A (Automatic) for disinfection of the water circuit	○	○
Multi Water Bio controller (EN 1717-compliant water infeed unit with continuous disinfection system)	○	○
Time Flushing (quick wash cycle of the water circuit)	○	○
Suction Hoses Disinfection (wash and disinfection of suction system)	○	○
Peristaltic pump kit with saline solution irrigation set	○	○
Hi Protected Air (pneumatic feed filter)	○	○
Dentist's module		
Turbine kit complete with Silent Power Silver 4L fibre optics, quick coupling handpiece	●	●
Turbine kit complete with Silent Power Gold fibre optics, quick coupling, titanium handpiece	○	○
Turbine kit complete with Silent Power Gold Miniature fibre optics, quick coupling, titanium handpiece	○	○
Induction Micromotor Implantor LED fibre optics kit (100 – 50,000 rpm – 4.5 Ncm)	●	●
Kit Piezosteril 6 scaler complete with 4 tips	○	○
Piezolight 6 scaler with fibre optics with 4 tips	○	○
Surgison 2 surgical ultrasonic kit	○	○
LAEC (Integrated Apex Locator)	○	○
T-LED curing light kit	○	○
Instrument lever stop kit	○	-
6-way stainless steel syringe kit	●	●
Transthioracic tray holder module	-	●
6 th instrument kit (curing light or camera handpiece)	○	○
Assistant's module		
T-LED curing light kit	○	○
3-way stainless steel syringe kit	○	○
6-way stainless steel syringe kit	○	○
Removable and disinfectable suction tubes	●	●
Removable and autoclavable suction cannulae	●	●
Assistant's module with keypad complete with control switch for chair, operating light mounted on self-balanced arm	●	●
Tray holder table on assistant's module	○	○
Operating light		
Venus Plus light	●	●
Venus LED light	○	○
Unit body		
Swivel and removable motor-driven bowl	●	●
Water-to-cup heater	○	○
Instrument spray heater	○	○
Air/water supply quick couplings for external devices	○	○
Multimedia cables and PC connections	●	●
Tray holder table in place of bowl	○	○
Patient chair		
Pneumatic release headrest with 3-axis movement	●	●
Multifunction foot control with Joystick	●	●
Pressure-operated foot control with Joystick and spray on/off kit	○	○
Pressure-operated foot control with Joystick and spray on/off kit, wireless	○	○
Foot control, Power Pedal type	○	○
Lateral slide foot control	○	○
Lateral slide wireless foot control	○	○
Left armrest	○	○
Right armrest	○	○

● supplied as standard ○ optional