SKEMA 5

EVOLVING POTENTIAL

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EVOLVING POTENTIAL

CASTELLINI
PASSION FOR DENTISTRY SINCE 1935

SMALL FOOTPRINT
AND MOBILITY COMBINED

Skema 5 gives doctors the peace of mind they need to get through the workday. Designed to meet the needs of the most versatile dentists, the over-the-patient model is compact, thereby ensuring operational comfort, and provides new and appealing ergonomic solutions.
Sleek design to help you work better.

REFINED COMFORT

THE RIGHT SPACE
FOR ORTHODONTICS

Castellini has created a model specifically designed for orthodontists which provides support to the doctor's specific needs during orthodontic treatments. Equipped with a wide tray holder and movable arms, it allows the dentist to easily reach any necessary instrument or material. The assistant's side is also duly equipped and can house up to 2 dynamic instruments controlled from a convenient display. **Always suited to the specialist's needs.**

AMAZING VERSATILITY
IN ANY POSITION

Featuring great versatility, Skema 5 allows the doctor to operate by moving the instrument module to the position best suited for the surgical procedure being performed. Every element is engineered to combine a slender design with a compact working unit. The lightness of the module and the excellent mobility of the arm system facilitate the workflow and improve the operating comfort of the medical staff.

TRANSTHORACIC POSITION
Thanks to the mobility of the arm system, the doctor can position the dentist's module also on the assistant's side. The operational versatility of Skema 5 is the key feature that makes the dental unit perfect for those who progress every day in the practice of dentistry, dealing with multiple therapeutic needs, either with or without the assistant's help.

DENTIST'S MODULE
The dentist's module with over-the-patient delivery is light and easy to move. The doctor can adjust the instruments' vertical positioning by lightly touching the optional handle-mounted sensor for greater comfort. The optional end-of-stroke lock system creates enhanced freedom of movement.

COMPACT TRAY HOLDER
The stainless-steel tray holder is compact and can rotate to be within easy reach of the medical staff. It can be easily removed from the pivoting support for hygienisation purposes.

BALANCED INSTRUMENTS
The instruments are self-balanced to avoid any traction on the dentist's wrist, while the tubes feature increased extension capacity to minimise unnecessary movements in the operating field.

COMPACT AND MOVABLE ELEMENTS

For dentists who prefer hanging tubes, Skema 5 CP features a compact and easy-to-handle module which provides a wide range of comfortable positions around the operating zone. The arm system has been designed to reduce the overall footprint while ensuring maximum mobility to the instrument module.

DENTIST'S MODULE

Instruments are easier to grasp thanks to their position and the different inclination of the central instruments with respect to those placed on the sides. The housings are designed to facilitate the instrument re-positioning and guarantee maximum stability. The sixth instrument can be integrated on the side of the module. The dentist can choose between intraoral camera and curing light, but the application is not available if the Zen-X X-ray sensor is installed. instalado.

CERAMIC POSITION-ADJUSTABLE CUSPIDOR BOWL

The position of the ceramic cuspidor bowl can be adjusted for greater comfort, while cup filling is completely automated thanks to the optional optical sensor, thereby giving more autonomy to the patient.

ASSISTANT'S MODULE

The assistant's module, fitted on a vertically-adjustable double arm, adapts to any working method and is available with 4 or 5 housings. In addition to syringe and suction cannulae, it is also possible to add a camera and a curing light or a dynamic instrument. The position-adjustable tray holder is available as an option.

INTUITIVE AND PRACTICAL
TOUCH-SCREEN DISPLAY

LAEC - INTEGRATED APEX LOCATOR
The device helps the doctor locate the root apex through an audible and visual signal. Combined with the EVO E4 contra-angle, it also integrates the APEX-STOP function which automatically interrupts bur rotation upon reaching a set safety threshold.

EVO E4 CONTRA-ANGLE
Suitable for any type of endodontic treatment, the device features the APEX-STOP function of Castellini apex locator.

EVERYTHING FOR ENDODONTICS
Together with a dedicated contra-angle, Skema 5 integrates software and features that support endodontics and all the operations related to it. Besides, through the software the doctor can accurately manage the operating parameters. For all traditional endodontic procedures, the control panel is able to automatically set and store optimum operating values.

PERFECTLY EMBEDDED INSTRUMENTS

The integration of the instruments is key to optimising workflows at the patient chair. The doctor can easily set the operating parameters from the new touch control panel. Every step is intuitive and the level of customisation, together with the quality of the handpieces developed by Castellini, ensures the efficacy and efficiency of any treatment.

HANDY POWER MICROMOTOR

Handy Power is an extremely lightweight, compact brushless micromotor, available with or without LED lighting. Handy Power is noiseless and vibration-free. Thanks to the exceptional reliability of the brushless technology, it requires virtually no maintenance. Ideal for conservative and prosthodontic treatments.

· Speed from 100 to 40,000 rpm with 1:1 ratio
· Maximum torque up to 3.3 Ncm
· Possibility of pre-setting maximum speed

PIEZOLIGHT 6

Available with fibre optic for LED lighting, the versatile and multifunctional ultrasound handpieces are suitable for prophylaxis, endodontics and periodontal procedures.

· Perfectly linear and controlled ultrasonic vibrations - free from parasitic lateral vibrations - with constantly self-regulated frequency according to load and tip conditions.
· Extensive power adjustment range.
· Self-regulating power based on the workload to prevent heating of handpiece and treated tissues.
· Coolant delivery adjustable from zero to max flow rate.
· Completely autoclavable.

IMPLANTOR LED MICROMOTOR

Latest-generation brushless micromotor, with its noiseless operation and minimal weight, Implantor LED is vibration-free and characterised by extremely high torque and outstanding reliability. Thanks to its ultra-high performance, and with the right contra-angle, it can also be used for endodontics.

· Speed from 100 to 40,000 rpm with 1:1 ratio
· Electronic torque control up to max. 5.3 Ncm
· Completely autoclavable.
· Possibility of pre-setting maximum speed and maximum torque

T-LED

The curing light can be used as a direct version or 120° angled version. With a high-power LED up to a maximum of 2,200mW/cm2 and a 430 to 490nm emission

SYRINGE

Featuring a streamlined and easy-to-handle design, the syringe is available both in the three-way and in the optional six-way version. The handle and tip are autoclavable.

SILENT POWER TURBINES AND GOLDSPEED CONTRA-ANGLES

Castellini offers a complete set of turbines and contra-angles suitable for any field of dentistry.

WELL-BEING: A PRIORITY FOR THE PATIENT

The patient's well-being is vital to ensure a good treatment outcome. On top of that, when patients feel comfortable, they become more and more accommodating, also over time. That is why, following thorough research into occupational ergonomics, Castellini has created a chair that ensures ease of use to the doctor and comfort to the patient.

COMFORT STARTS HERE

The design of the seat and the backrest increases the patient chair comfort. The backrest features a highly resistant structure with soft padding and a robust and easy-to-clean upholstery. The chair movements are designed to avoid uncomfortable compressions in the lumbar area.
The shape of the backrest facilitates access to the operating zone both for frontal view and indirect vision.

Available as an optional feature, the padded upholstery will suit patients of any build ensuring proper anatomical support and maximum comfort at all times.

PNEUMATIC HEADREST

Both backrests can feature as an option the exclusive pneumatic release orbital headrest which pivots on three axes and allows for a quick and precise assisted positioning. The button on the lower side of the headrest activates the movement.

FOOTREST

The adjustable footrest allows for an easy and accurate disinfection.

LATERAL SLIDE FOOT CONTROL

The pedal can be used to activate the Chip Air and Chip Water functions of the instrument in use, reverse the micromotor sense of rotation (when deployed), move the patient chair and switch on the lamp. Available in the wired or wireless version.

PRESSURE-OPERATED FOOT CONTROL

This pedal provides the same functions of the lateral slide foot control to those who prefer the pressure-operated version. In surgical mode, both pedals feature the controls to activate the peristaltic pump and change the programme. Available in the wired or wireless version.

POWER PEDAL FOOT CONTROL

The third pedal includes all the functions of the previous models and is characterised by two additional elements to recall two more stored working positions.

THE IMPORTANCE
OF LIGHTING

VENUS LED MCT

EXCEPTIONAL BRIGHTNESS

The new Venus LED MCT lamp (optional on Skema 5) rotates on three axes to ensure perfect lighting of the operating field in any practice and position. Featuring exceptional brightness, it makes it possible to set specific values depending on the clinical needs. The No Touch sensor can switch on, off and adjust the luminous intensity up to 50,000 Lux. The hermetically sealed front protective screen is easy to clean, and the handles can be removed and sterilised in autoclave.

VENUS LED

VENUS LED LIGHT

This LED operating light rotates on three axes, is equipped with the No Touch sensor to switch it on and adjust the luminous intensity and feature an easy-to-clean hermetically-sealed front protective screen. Max. 50,000 Lux, colour temperature 5,000 K, autoclavable handles.

TEMPERATURE ADJUSTMENT
The innovative system makes it possible to illuminate with the right light every clinical discipline, with 3 different temperature values: warm, neutral and cool light.

CRI VALUE
Absolute colour fidelity thanks to a colour rendering that on a 0 to 100 measuring scale stands above 95.

COMPOSITE MODE
The quick and easy activation of the Composite mode prevents the pre-curing of composite materials.

WARM, NEUTRAL AND COOL COLOUR
All the temperature variations, from warm to neutral or cool and vice versa, can be easily activated and always ensure a perfect view of the operating field according to the treatment being performed.

COMPOSITE MODE
This feature changes the light wavelength to prevent the pre-curing of composite materials while ensuring optimum lighting of the operating field.

THE SAFETY OF CERTIFIED SYSTEMS

Castellini has long been focusing on the hygiene issue, reaffirming its commitment through a close cooperation with the Department for Public Health and Infectious Diseases of the Sapienza University of Rome and the Department for Public Health and Paediatrics of the University of Turin. Thanks to in-depth research and the analyses performed, the dental unit can be set up with upgraded and certified systems that ensure a clinical environment that is safe all the time.

AUTOSTERIL

Skema 5 can be equipped with Autosteril, the high-standard automatic disinfection system, for all the spray water circuits. During the cycle, the instruments are stored in an inbuilt receiving area. Used together with Peroxy Ag+, the Autosteril system ensures a mycobactericide, bactericide and anti-Legionella action, certified by the Sapienza University of Rome. The analysis performed proved that the disinfection provided is sufficient to "eradicate all tested microbes from the piping of the dental unit, even with higher contamination levels."Autosteril 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% H_2O_2 to the spray water circuits;
- hold time allowed for liquid to work to intensive disinfection results;
- liquid draining with compressed air;
- water flushing (either from mains or distilled).

M.W.B.

Reliable and efficient, the M.W.B. system, used in conjunction with Peroxy Ag+, acts against all water-borne contaminants, including Legionella. Tests carried out on a dental unit over a 3-month observation period showed that a regular use of M.W.B. and daily execution of an intensive disinfection cycle with the Autosteril system, ensure outstanding water hygiene quality, with bacterial loads kept at zero.

TIME FLUSHING

To drain stagnant fluid inside the piping after use, the Time Flushing feature carries out a complete water exchange with a timed flow of the supply fluid.

S.S.S. BOTTLE

The stand-alone supply system is equipped with a 1.8 litre capacity pressurised tank, easily accessible from outside to facilitate filling or replacement.

DESIGNED
TO PROTECT YOU

During the design of the dental unit, any possible risk of contamination due to exposed areas and removable components is thoroughly investigated. Thanks to the analyses carried out, Skema 5 features multiple elements developed to protect patients and medical staff, thereby ensuring a safe and risk-free working environment.

DETACHABLE INSTRUMENT TUBING
Removable and easily disinfectable, the tubes make cleaning and replacement operations easier and faster.

REMOVABLE DENTIST'S MODULE HANDLE
It can be easily removed for maximum hygiene.

REMOVABLE LAMP HANDLES
They can be easily removed and cleaned in autoclave.

GLASS DISPLAY FILM
Disposable film for the protection of assistant's keypad and Full Touch control panel.

CUSPIDOR BOWL
The cup-and-bowl-fill unit can be easily removed and sterilised in autoclave. The cuspidor bowl is also removable and autoclavable..

FILTERS + UNIT COVER
Smartly protected by a cover, the filters can be easily removed to facilitate draining and cleaning operations.

S.H.D.
The flushing and hygienisation of the suction system with water and a special liquid take approximately 2 minutes: ideal as a cleaning procedure between patients.

ALL-ROUND EFFICIENCY

INTEGRATED HD CAMERA

The integrated camera features a streamlined design for a better use inside the oral cavity, and an ergonomic handle. HD-quality images ensure perfect rendering and maximum investigation accuracy.
· Optical system with 7 glass lenses and 16:9 format sensor
· Partially retroflexed 90° viewing angle
· Depth of field from 5 to 70mm
· Freeze-frame activation through the touch-sensitive key

The easy-to-attach and remove Macro Cap accessory magnifies up to 100x to deliver detailed and extremely sharp images.
The LED monitor is certified by the EEC Medical Devices Directive. An excellent multimedia communication allows for a better doctor-patient relationship.

ON-BOARD
DIAGNOSTICS

SIMPLICITY AND HEALTH

Thanks to the wireless handheld device that makes the radiological investigation easier and faster, and to the automatic setting of exposure parameters, the diagnosis is always the result of high-quality images combined with a minimal radiation dose delivered to the patient. The handheld device is equipped with a button to activate the unit and two simple settings to select the most suitable programme for a perfect X-ray acquisition.

RXDC WITH EXTEND TECHNOLOGY

Thanks to an extensive internal collimation and an extremely small focal spot, the X-ray unit provides high-quality images to quickly make a correct and accurate diagnosis.

X-RAY SENSOR

The integrated Zen-X sensor, available in two sizes, is housed in the dentist's module, thereby making the acquisition of intraoral X-ray images faster. In a matter of seconds, the reprocessed image is displayed on both monitor and control panel.

22" LED MONITOR

The 16:9 monitor, Medical Device 93/42 certified, ensures a perfect view of the images thanks to its ergonomic design and to the special IPS panel that provides a wide viewing angle. The monitor can be integrated into the dental unit either with a single arm or a double-jointed arm for a more comfortable use.

CONNECTED CLINIC

Designed to provide connection to the Internet through Easy Check, Castellini's dental unit features a range of optional cutting-edge digital services. With the aim of improving the effectiveness of the clinic, each dental unit connected can benefit from a real-time diagnostic service and remote technical support.
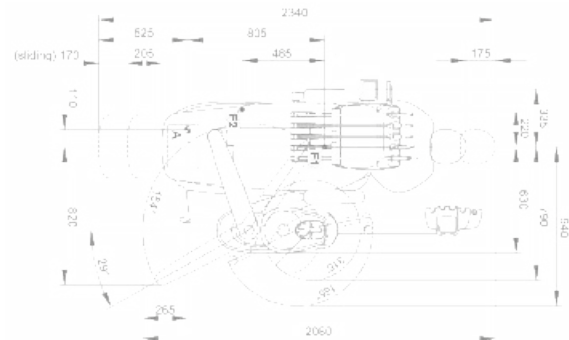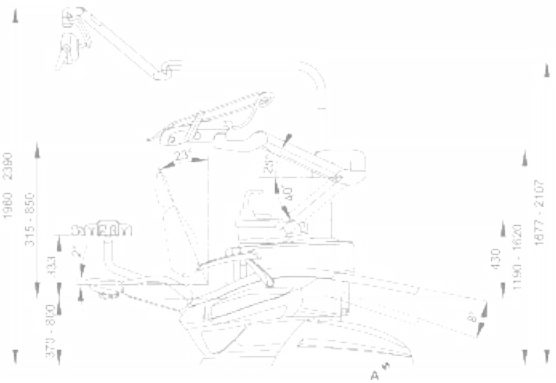

DASHBOARD

Through a simple dashboard, the dentist can monitor the dental unit activity in all its functions and analyse the effectiveness of the dental practice. In large dental practices, this is a useful tool to manage significant workloads and plan maintenance activities.
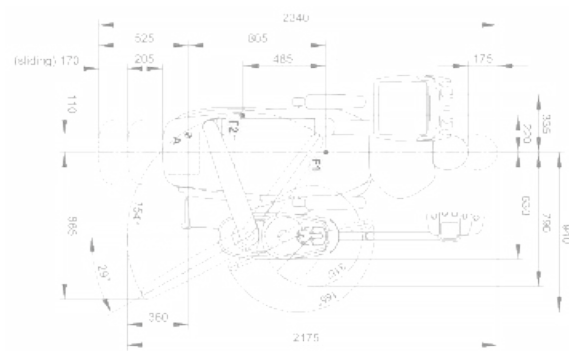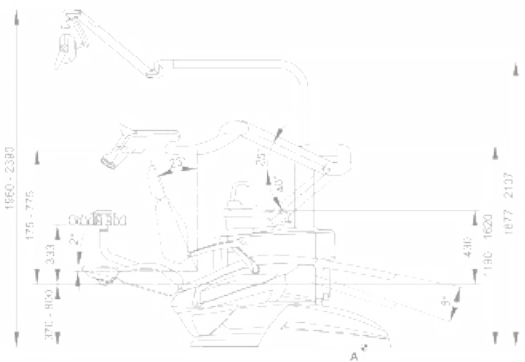
VIRTUAL ASSISTANT

Di.V.A. (Digital Virtual Assistant) is the virtual assistant which optimises the workflow of your advanced dental practice. In addition to being viewable on PC, Di.V.A. can be easily consulted on smartphones and tablets.
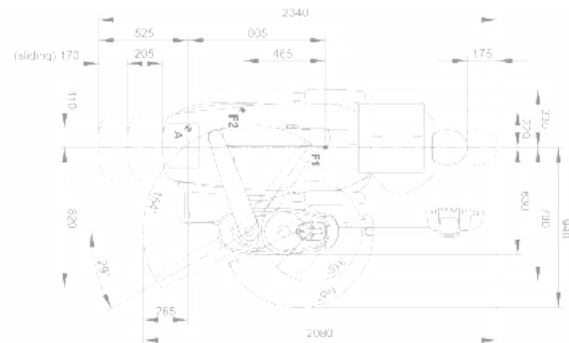
TECHNICAL DATA

SKEMA 5

SKEMA 5 CP

SKEMA 5 ORTHODONTIC

The measures in the drawings are in millimetres.

COLOUR RANGE		SURGICAL PADDING	
102	Atlantic blue	198	Atlantic blue
113	Pacific blue	183	Pacific blue
106	Mediterranean blue	196	Mediterranean blue
136	Indian blue	186	Indian blue
101	Caribbean green	197	Caribbean green
123	Polynesian green	193	Polynesian green
103	Nevada yellow	182	Nevada yellow
115	Scottish salmon	195	Scottish salmon
132	Blueberry violet	192	Blueberry violet
134	Japanese wisteria	184	Japanese wisteria
135	Venetian red	194	Venetian red
130	Graphite black	180	Graphite black
121	Anthracite grey	199	Anthracite grey
137	Bright silver	187	Bright silver

SKEMA 5	OVER THE PATIENT	HANGING TUBES	ORTHODONTIC
HYGIENE SYSTEMS			
Separate supply system	●	●	●
Autosteril A (Automatic) for disinfection of the water circuit	○	○	-
Multi Water Bio controller - MWB. (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)	○	○	○
DENTIST'S MODULE			
Turbine kit complete with Silent Power Evo 2L fibre optics, quick coupling handpiece	●	●	
Turbine kit complete with Silent Power Evo 4L fibre optics, quick coupling handpiece	○	○	
Turbine kit complete with Silent Power Evo Miniature fibre optics, quick coupling handpiece	○	○	
Kit Micromotor Handy Power (100 – 40,000 rpm – 3.3 Ncm)	●	●	
Kit Micromotor Handy Power LED fibre optics (100 – 40,000 rpm – 3.3 Ncm)	○	○	
Induction Micromotor Implantor LED fibre optics kit (100 - 40,000 rpm – 5.3Ncm)	○	○	
Piezosteril 6 scaler kit complete with 4 tips	○	○	
Piezolight 6 scaler kit with fibre optics with 4 tips	○	○	
LAEC (Integrated Apex Locator)	○	○	
T-LED curing light kit	○	○	
Instrument lever stop kit	○	-	
3-way stainless steel syringe kit	●	●	
6-way stainless steel syringe kit	○	○	
6th instrument kit (curing light or camera handpiece)	○	○	
Integrated X-ray sensor	○	○	
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 4 housings and capacitive keypad mounted on double arm	●	●	●
Assistant's module with 5 housings and capacitive keypad mounted on double arm	○	○	○
Tray holder on assistant's module	○	○	○
OPERATING LIGHT			
Venus Plus LED lamp	●	●	●
Venus LED MCT lamp	○	○	○
UNIT BODY			
Removable and position-adjustable cuspidor bowl	●	●	●
Cup filling sensor	○	○	○
Water-to-cup heater	○	○	○
Instrument spray heater	○	○	○
Cannulae independent selection	○	○	○
Air/water supply quick couplings for external devices	○	○	○
Multimedia cables and PC connections	○	○	○
Tray holder in place of bowl	○		○
PATIENT CHAIR			
Pneumatic release headrest with 3-axis movement	○	○	○
Double-jointed headrest with 2-axis movement	●	●	●
Lateral slide foot control complete with joystick	●	●	●
Lateral slide foot control complete with joystick - wireless	○	○	○
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	○		
Left armrest	○	○	○
Right armrest	○	○	○

● = supplied as standard   ○ = optional   - = not available