Puma ELI Ambidextrous
Eclectic style
Fast adaptability to suit any operating style
Versatility and simplicity above all
Providing comfort through form and function
Type-approved to lift up to 160 kg, the new hydraulic patient chair provides maximum comfort. Backrest-seat synchronism follows the patient’s anatomic movements smoothly, ensuring that hips and torso do not suffer the effects of any unnatural positioning.

Designed also to maximise working comfort for dentist and assistant, the hydraulic system can silently move the patient chair from an above-floor height of 38 cm to 82 cm. The floor-mounted base, which incorporates a temporary suction stop function, is neatly compact, thus preventing any obstruction of the stools when dental team members need to get in close to the patient.

It is possible to programme and recall 4 working positions, the patient entry/exit and rinse positions and return to the last working position.

Featuring seamless elastic Skaï padding, the patient chair can be lined with special padded upholstery that ensures proper anatomical support during prolonged treatment sessions.

Stools are also available in colours to match those of the selected upholstery; stools feature adjustable seat height and backrest lift (dentist) and also allow the armrest (assistant) to be switched from one side to the other. The extension kit and footrest ring are optional.

**Ambidextrous Dama Patient Chair**

**Headrest and armrests**

The headrest supplied as standard is double-jointed and features mechanical adjustment plus a sliding support. A 3-axis version with pneumatic release is available as an optional. This allows optimal positioning of the patient’s head, thus improving the dentist’s posture during treatment. The pneumatic release can be activated/deactivated simply by clicking on the small button located at the height of the nape of the neck.

New swivel armrests on both sides can be rotated forwards, providing patients with easier access to the seat and dentist and assistant with better access to the patient.
Both conceptually and practically, Puma ELI offers perfect positioning. A question of working style and flexibility. Puma ELI offers a smart, practical solution for modern surgeries with two or more dentists.

The changeover can be made in just a few minutes without the aid of any tools or technicians.
Dentist’s module

Compact, manoeuvrable and evenly balanced, the dentist’s module can be positioned to match both the type of treatment and the dentist’s operating style. To maximise the ergonomics on this model – specifically designed for both right and left-handed dentists – the instrument control panel can be positioned on either side of the dentist’s module.

Carefully balanced reflex arm levers and long tubing reduce wrist strain. Moreover, extremely limited lever height ensures excellent freedom of movement of the module without interfering with the operating lamp. A large stainless steel tray holder can be coupled to the dentist’s module. To ensure flexibility and enhanced comfort it is both position-adjustable and easily removed for sterilisation purposes.

The hanging tubing module is characterised by symmetrical design. Optimised vertical excursion allows the dentist to bring the instruments to the most convenient height. Just as you’d expect on an ambidextrous workstation, the dentist’s module has a handle on both sides. Instruments are arranged ergonomically in an alternate-angling layout that makes them easier to grasp and ensures their movement is carried out safely. The tray holder rotates over the dentist’s module and can be positioned above the patient. Made of stainless steel, the tray holder is an optional.

Control panel

Order and simplicity – as exemplified by the simply-arranged membrane-protected soft switch keys and large backlit X-ray viewer – provide the conditions to make work much more effective. Featuring a digital display, the control panel smoothes management of both instrument parameters and Autosteril ST and Time Flushing cycle execution times. Controls for the adjustment of micromotor and turbine speed plus scaler power all have user-friendly icons, as do the controls for the following:

- direct patient chair movement
- patient chair programming and calling up of programmed positions, rinse and patient entry/exit positions
- cup filling and cuspidor rinsing
- switch for selecting cooling liquid (mains water / separate supply system)
- micromotor rotation reverse
- fibre optic on/off
- X-ray viewer on/off
T-LED
Lightweight, compact curing light with an exclusive design that allows use as both a direct version or 120° angled version.

Features:
- High power LED up to a maximum of 2,200 mW/cm²
- 430 - 490 nm emission band
- 6 pre-set programmes
- Autoclavable light guide

Implantor LED Micromotor
Latest-generation brushless micromotor, with its low-noise operation and minimal weight, Implantor LED is vibration-free and characterized by extremely high torque and outstanding reliability. Top performance for all specialist applications. Completely autoclavable.

Micromotor features:
- 100 up to 40,000 rpm with 1:1 ratio
- Electronic torque control up to 5.3 Ncm
- Possibility of pre-setting maximum speed

Handy Power Micromotor
Handy Power is an extremely lightweight, compact brushless micromotor, available with or without LED lighting. Exceptionally quiet and vibration-free, Handy Power requires virtually no maintenance and is highly reliable thanks to brushless technology. Handy Power can be disinfected externally.

Micromotor features:
- 100 up to 40,000 rpm
- Possibility of pre-setting maximum speed

Piezosteril 6 / Piezolight 6
Versatile and multifunctional ultrasound handpieces suitable for prophylaxis, endodontics and periodontal procedures. Available with or without fibre optic for LED lighting, the handpieces offer the following performance:
- Perfectly linear, controlled ultrasonic vibration (free from parasitic lateral vibration) with frequency constantly self-regulated according to load and tip condition
- Extensive power adjustment range
- Power is self-adjusting as a function of workload, this prevents heating of the handpiece or cooling liquids
- Coolant delivery adjustable from zero to max flow rate
- Completely autoclavable
The ceramic cuspidor bowl is perched on the unit body. It can be rotated within the operating area so it is easy for the patient to reach when rinsing.

The dentist can choose to replace the cuspidor bowl with the rotating stainless steel tray holder module. Where access to the interior of the unit body is required, routine maintenance tasks are made easier by the fully removable side hatch.

The assistant’s module, equipped with a control panel featuring membrane-protected keys for patient chair, operating light, cup fill and cuspidor bowl rinse, also includes the Autostent ST (Simple System) disinfection system start key.

Assistant’s module

Fitted on a single, compact arm, the module has four housings for:

- 2 cannulae: saliva suction (large) and saliva suction (small)
- 2 optional instruments (syringe and curing light or camera handpiece)

An optional articulated arm provides even greater practicality. This high degree of flexibility ensures optimal module positioning, including height-wise, in any circumstance.

The suction tubing, extracted when in use, is supported by a removable guide that helps it slide more smoothly. The tubing can be disconnected for disinfection purposes.

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Venus LED
Operating lamp with long-lasting, low-consumption LED light source plus 3-axis rotation for perfect illumination of the operating area.
Technical features:
- 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 front protective screen
- handles can be cleaned in an autoclave

Venus Plus
High performing operating light with rotation movement on three axes for accurate light adjustment to the oral cavity.
Technical features:
- colour temperature: 4,900 K
- adjustable light intensity from 8,000 to 35,000 Lux
- front protective screen
- removable handles suitable for cold-disinfection
- rear fan

Venus E
Operating light with front protective screen and rotation around 3 axes.
Technical features:
- colour temperature: 4,100 K
- light intensity up to 26,000 Lux
- removable handles suitable for cold-disinfection

Foot controls
The foot control range includes 6 models:
1. Lateral slide Foot Control (wired/wireless)
2. Pressure-operated Foot Control (wired/wireless)
3. Power Pedal Foot Control
4. Multifunction Foot Control

Being able to control multiple dental unit functions via the foot control demonstrates a conscientious approach to hygiene, one that has ensured the available foot-operated functions include:
- Progressive instrument activation
- spray selection
- chip air/water activation
- patient chair direct/programmed movement control
- freeze-frame camera

Both the lateral slide and the pressure-operated foot controls are available in the wireless version. Because there are no wires the foot control can now be positioned as desired without creating any hindrance, allowing for more comfortable on-patient treatment. Lithium batteries ensure 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.

Suction Stop device on chair base
By pressing the foot control on the chair base, suction can be temporarily suspended.

Peripheral devices incorporated on the dental unit

Peripheral devices included on the dental unit:
- Suction Stop device on chair base
  - By pressing this foot control on the chair base, suction can be temporarily suspended.
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To see which devices, among the lamps and foot controls, are supplied as standard or as an optional, please refer to the table at the end of the catalogue.
Adding a new dimension to the Multimedia system
Mounted on the dental unit operating light column, the 19" LED monitor with 16:9 format waterproof screen is an excellent high-tech, ergonomic, image-based communication and diagnostic tool.

Low-power LED light sources provide excellent contrast and bright colours, making images decidedly sharper.

The Medicalview Monitor is Medical Device 93/42-certified.

The availability of high definition clinical images enhances diagnostic efficacy and helps keep the patient informed and involved. Being able to illustrate the need for a certain treatment or demonstrate its outcome reinforces the patient’s sense of trust.

Featuring a system with 7 glass lenses and a 16:9 format HD sensor, the new incorporated video camera allows high definition images to be shown on the monitor directly without any distortion.

Maximum practicality

Designed to give easy access to distal zones, the C-U2 is thin and has a partially retroflexed 90° viewing angle. The extensive depth of field (from 5 to 70 mm) ensures outstanding image sharpness while the touch-sensitive key activates the freeze-frame without causing any vibration.

Monitor Medicalview

Choosing a double-jointed arm lets dentists shift the monitor and position it within the treatment area according to their individual needs (an option particularly recommended for the touch-screen version). 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

The monitor comes ready for connection to a PC via a lead or HDMI connector. On the touch-screen version a USB port provides a further connectivity option.

C-U2

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Hygiene: a must
Active hygiene devices

The Autosteril ST (Simple System) carries out semi-automatic cycles with 10-minute contact times. To start the process, the instruments must be arranged above the cuspidor bowl in the special container. The start key is located on the assistant’s control panel and the progress of the disinfection sequence is illustrated on the dentist’s module digital display. Castellini recommends the use of Peroxy Ag+, a disinfectant with a 3% hydrogen peroxide content which is made even more effective by the addition of silver ions that boost its biocide action.

Hygiene systems
Supplied ready for the incorporation of scientifically proven hygiene devices, the Puma ELI design concept aims to minimise any risk of cross-contamination and is DVGW certified.

The A.C.A. spray anti-retraction system, supplied as standard on all dynamic instruments, prevents aspiration of any contaminants during the instrument stopping phase and prevents cross-contamination between patients.

A separate water feed system eliminates the presence of any contaminants in the water. The pressurised 1-litre container can easily be reached from the front of the unit body, allowing it to be replaced quickly. The bottle with the grey stripe is for distilled water while the one with the yellow stripe is used for the sanitisation of spray circuits with disinfectant liquid. The latter is used for disinfection with the semi-automatic Autosteril ST system.
To maintain outstanding levels of hygiene on both the dental unit and in the workplace, Castellini has developed an advanced passive protection concept. Medical staff and patient alike can count on constant protection from numerous elements specifically designed to minimise any risk of contamination:

- Removable autoclavable parts:
  - Ceramic cuspidor bowl
  - Cup-and-bowl-fill unit
  - Silicone instrument support mat
  - Cannulae holders

- Scaler, Implantor LED micromotor and turbines are completely autoclavable
- Syringe handle and tip are completely autoclavable
- Removable, disinfectable dentist’s module grip
- Curing light with autoclavable light guide
- Washable and disinfectable control panel with protective membrane
- Removable, disinfectable suction tubing and slide guide
- Unit and chair surfaces can be washed and disinfected
- Seamless patient chair upholstery with antibacterial treatment

Protection against Legionnaire’s disease
Water quality can be safeguarded by adding Peroxy Ag+ disinfectant; this provides real-time defence against bacterial contamination (e.g. Legionnaire’s disease and other bacteria) and also brings about the conditions that prohibit microbial colonisation and multiplication.

Hygiene products recommended by Castellini
- Ster 1 Plus decontaminating detergent for surface applications
- Ster 3 Plus decontaminating detergent for surgical suction lines