	Piezosteril 6 - Piezolight 6		Surgison 2 - Surgison 2D
Rated power supply	32 VDC		32 VDC
Max Electrical power absorbed	15 W		30 W
Operational frequency	25.000 ÷ 32.000		25.000 ÷ 32.000
Intermittent Operation	20 min of work - 10 min of rest		20 min of work - 10 min of rest
Water Supply	90 ÷ 140 kPa (0,9 ÷ 1,4 bar)		90 ÷ 140 kPa (0,9 ÷ 1,4 bar)
Classification	Class IIa (93/42 EEC Directive) Class II type B (IEC 60601-1)		Class IIa (93/42 EEC Directive) Class II type B (IEC 60601-1)
LED Illumination		3500 K - 20000 mlm λ 400 ÷ 600nm P_{max} < 1 mW	
Applicable standards	IEC 60601-1 60601-1-2 ISO 10993-1 IEC 60825-1:1993 + A1:1997+A2:2001		IEC 60601-1 IEC 60601-1-2 ISO 10993-1

Due to our policy of constant technological upgrading, the technical specifications may be subject to change without prior notice. 09/2010 CABLGB101S00

Piezosteril 6
Piezolight 6
Surgison 2 - 2D

VERSATILE
ULTRASOUND

Castellini S.p.A.
Via Saliceto, 22
40013 Castel Maggiore (BO) - Italy
tel. + 39 051700877
fax + 39 051701056
castellini@castellini.com
www.castellini.com

CASTELLINI
PASSION FOR DENTISTRY
SINCE 1935

Versatile and Multifunctional Instruments and Dental Units

Versatile instruments installed on multifunctional dental units: a winning synergy for expanding the operative capabilities of a workstation for every dentistry specialisation, from dental restoration and prosthetics to endodontics, oral surgery and implantology.

A combination of science and technology for dentists who wish to operate according to the highest clinical standards, free from the constraints of traditional equipment and the encumbrance of many single-purpose instruments. Castellini instruments and dental units offer top quality and all round performance.

Ultrasound for Dentistry

The field of application of ultrasound in dentistry is ever expanding, from normal ultrasonic tartar scalers to endodontic instruments for root canal procedures on to the most refined precision oral surgery osteotomy procedures.

Safe and effective, as well as ensuring the utmost gentleness on soft tissue, ultrasound has been found to be particularly beneficial in osteotomy procedures even in proximity to delicate vascular and nerve structures.

Piezosteril 6 Power, Precision and Flexibility in Application

These are the basic qualities that make the Piezosteril 6 and Piezolight 6 versatile operational aids for dental procedures with ultrasound applied to prophylaxis, restoration, periodontics and endodontics.

- 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.

Over and above the sheer versatility of the handpiece, Piezosteril 6 is completely interchangeable with the ultrasonic surgical handpiece. It can be used on the same hose and benefits from automatic recognition on Castellini units with the necessary set-up.

Piezolight 6
The Power of Light

Version with fibre-optics illumination, Piezolight 6 is the alternative to the Piezosteril 6 handpiece with the advantage of direct lighting of the oral cavity.

Prophylaxis
Periodontics - Restoration

Tips made of special high yield elastic steel with great wear resistance may be autoclaved.
Optimised geometry for self-tuning.
Faster and safer subgingival and supragingival scaling, easier and more effective periodontal treatments and cavity preparation, with a series of optimised tips for different applications; these are made from specific materials with yellow coloured TiN cladding for power applications.

C4

Scaler tip
Supragingival application, incisors and molar collars
Use at medium to high power with irrigation.

C1

Scaler tip
Supragingival application
Use at medium to high power with irrigation.

C2

Scaler tip
Supragingival application
May also be used perpendicular to the enamel at medium to high power with irrigation.

R1/R2/R3/RR/RL

Restoration
Cavity preparation (minimal intervention), particularly suited for anterior and molar interdental cavities.

P1

Scaler tip/ Prophylaxis
Supragingival and subgingival applications on sulci and interproximal spaces. Use at medium power with irrigation.

P3

PARO tip for Periodontics
Subgingival and root canal surface applications and periodontal pocket irrigations with antibacterials.
Use at medium to high power with irrigation.

Endodontics

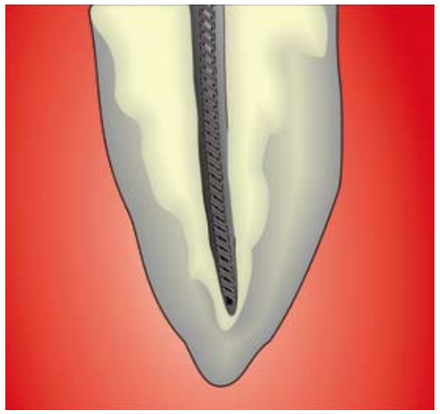
For endodontic treatment and retreatment, the scaler provides ease and safety of action to the delicate root canal instrumentation with a very fine power adjustment capability. Possibility of irrigation with dedicated fluids. Two chucks with different angles allow fine root canal instruments to be attached to the handpiece for the angulation best suited to the procedure.
Specific tips are available for precision enlargement of the initial root canal section and for compression of gutta-percha.

E4

ENDO Diamond-coated tip
For precision finishing or enlarging of the initial root canal section.
Use at high power and medium-low irrigation.

E3

ENDO Tip
For compression of gutta-percha
Use at high power, no irrigation.

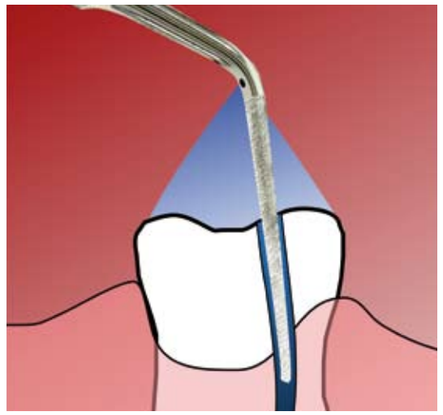


E1

Chuck for ENDO files
120° chuck for tightening NiTi endodontic files.
Use at medium to low power. With irrigation: use at maximum.

E2

Chuck for ENDO files
95° chuck for tightening NiTi endodontic files.
Use at medium to low power. With irrigation: use at maximum.



Surgison 2 - Quality and Safety in Ultrasonic Surgery

Surgison 2 is at the cutting edge in dental instruments, especially suited for oral surgery: implant, periodontal, endodontic, and orthodontic or extraction procedures.
The Surgison 2 ultrasonic surgical handpiece enables one to perform many different osteotomy procedures with the highest clinical safety and quality. There are some very intriguing extraction applications available alongside the restoration and prosthetic procedures.

- applicable on Skema 6
- precise, clean cutting, owing to the perfectly linear ultrasonic vibrations with micrometric amplitude control and auto-tuned frequency ranging between 25 and 32 kHz depending on load and tip conditions
- broad power adjustment range
- self-adjusted output depending on load, prevents overheating of the handpiece and irrigation fluids and therefore of the bone tissue
- irrigation flow adjustable from zero to the maximum
- safe application even in proximity to delicate vascular and nerve structures
- may be autoclaved.

On Skema 6 the Surgison 2 handpiece is perfectly interchangeable with the Piezolight 6 Scaler, whilst with Piezosteril 6 the hose must be changed. In both cases the surgical handpiece is automatically recognised and controlled by the dental unit. Irrigation is with dedicated fluids in a totally aseptic environment by way of the peristaltic pump installed on the dental unit (optional).

Surgison 2D

On the DUO Plus the Surgison 2D handpiece is completely interchangeable with the Piezosteril 6 Scaler or the Piezolight 6 and is automatically recognised and controlled by the dental unit. Irrigation is accomplished with dedicated, completely aseptic fluids owing to the Autosteril treatment system of the internal water lines on the dental unit with a fast acting chemical steriliser and thanks to the separate supply system with fluids sterile at their origin.

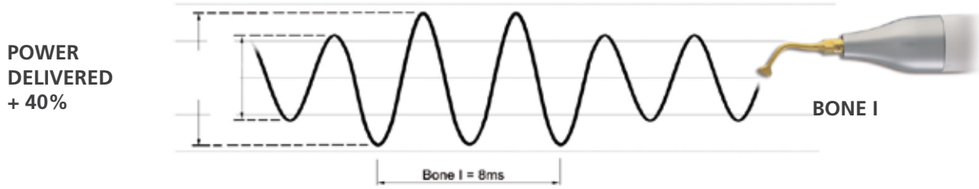
Surgison 2 - 2D Control Modes

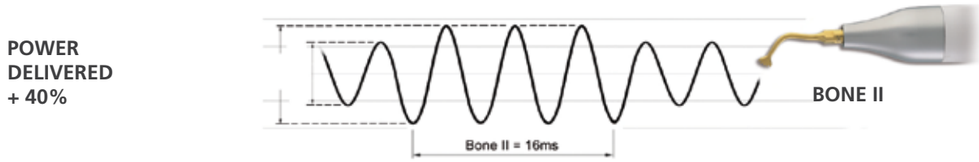
Normal Mode

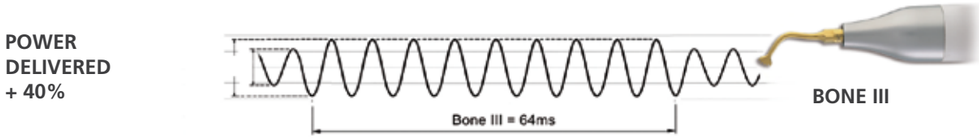
The tip vibrates with continuous, non-modulated power and with its amplitude dependent on the output power level set. Modulation is disabled.

Boost Mode

The tip vibrates while undergoing delivered power amplitude modulation (with an increase of about 40% compared to the power at the "NORM" setting).
The modulation creates a percussive effect on the bone favouring its incision.
The fastest modulation time (Bone I – 8ms) is suitable for the treatment of very hard bone tissue. The modulation time increases for procedures on softer areas.
Three types of modulation may be selected in the Boost Mode depending on the consistency of the bone tissue being treated: Bone I (hard bone tissue: 8ms); Bone II (medium bone tissue: 16ms); Bone III (soft bone tissue: 64ms).

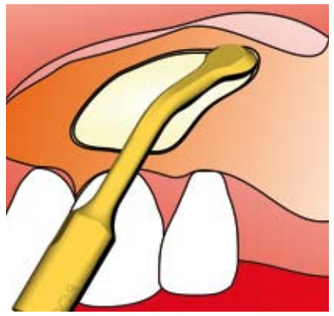






Surgery

Constant developments in ultrasound surgery continually require the development of new types of tips.
The Surgison series of tips illustrated here is merely an example of the extensive range available.



SC3

Sharp separator, Osteoplasty, Removal of bone particulate. Use in Normal or Boost Mode.

SC5

Chisel Precision
Osteotomy in thin structures and ridge expansion.
Use in Boost Mode.

SC8

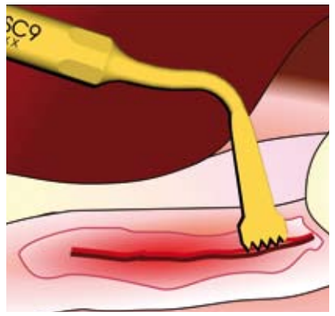
Chisel Fine Precision, periradicular osteotomy, Root and impacted tooth extraction.
Use in Boost Mode.

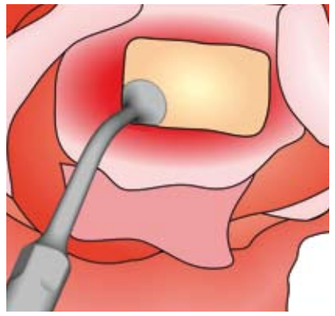
SC2

Flat diamond coated.
Preparation of the implant site, osteotomy on thin bone, bone edge finishing and in proximity to vascular and nerve tissues. Use in Normal or Boost Mode. Also for restoration and prostheses.

SC10

Spherical diamond coated.
Osteotomy on thin wall tissue or in the vicinity of vascular or nervous tissues. Preparation and finishing of the sinus window. Use in Normal or Boost Mode. Also for restoration and prostheses.





SC14

Saw-edged tip
Osteotomy and bone removal.
Use in Boost Mode, high power.

SC9

Saw-edged tip
Maxillary and mandibular osteotomy.
Bone removal.
Use in Boost Mode, high power.

SC4

Conical Separator
Separation of Schneider's membrane from the bony wall of the maxillary sinus.
Use in Normal Mode, low power.

SC11

Flat separator
Separation of soft tissue and Schneider's membrane in maxillary sinus augmentation.
Use in Normal or Boost Mode.

SC12

Angled flat separator
Separation of soft tissue and Schneider's membrane in maxillary sinus augmentation.
Use in Normal or Boost Mode.