



OSSEODUO
Shaver & Drill system



S80 Handpiece

Precision

When detail and precision are needed, the S80 Handpiece meets all expectations. The S80 is a light-weight handpiece with an integrated micromotor controlled by the **OSSEODUO** console – in Shaver mode. It has been specially “human-engineered” to meet surgeons’ requirements, providing them with a perfect grip and excellent manoeuvrability. The straight suction channel and integral irrigation within the handpiece ensure perfect operation with no obstructions. The S80 is designed for easy connection of the various types of disposable or reusable nozzles.

Shaver & Drill

Power

80K Micromotor

Appreciate its power and stability at all speeds. The 80K is a high torque micromotor capable of working without jolts, in both directions of rotation, from 4,000 to 80,000 rpm. It is self-ventilated, which prevents any overheating, even during prolonged use. Its brushless design allows sterilisation in an autoclave. It can accept all types of handpieces with the ISO 3964 coupling, the most commonly used in the world today. Bien-Air offers a broad range of high-performance instruments, from saws to straight and angled handpieces, covering various fields of application. The 80K is controlled by the **OSSEODUO** console – in Drill mode.

system

The power of Swiss precision



OSSEODUO, optimum efficiency, to do more with less!

Two in one!

The innovative, efficient system, developed in close cooperation with specialist surgeons, allows easy selection of Shaver or Drill mode. You not only benefit from a remarkable system, but you also eliminate unnecessary instruments and gain space. The refinement of the S80 Handpiece ensures high-precision work in the most difficult places. The power of the 80K Micromotor greatly reduces operating time.

Swiss Precision!

Developed and produced in "Watch Valley" in Switzerland, the centre of the watchmaking industry, where requirements are extremely demanding and where development, production, finishing and inspection are treated with great care, our controls and instruments benefit from the expertise of highly skilled personnel.

Swiss quality at an attractive price!

Profit from a high-performance system at an attractive price, 100% Swiss, reliable and durable, meeting the modern surgeon's requirements and expectations.

Fields of application

The **OSSEODUO** system has been designed for shaping bones and for resection of soft and hard tissues as part of surgical operations in the following areas:

- Otorhinolaryngology
- Otoneurology
- Plastic surgery
- Maxillofacial surgery, reconstruction of the face, head and neck, and hands and feet.

Features that make a difference:

- Compact and practical, this control unit is easy to use. Its latest-generation electronics guarantees optimum operation in complete safety. All the functions can be viewed and accessed by simply pressing keys. The LCD display provides a perfect overall view of the defined functions.
- Intuitive, personalised programming; capability for extremely precise settings for the most delicate operations.
- Peristaltic pump delivery adjustable from 15 to 130 ml/min. in continuous or intermittent operation.
- The control unit, motor, handpiece and cable comply with 93/42 EEC and IEC 60601-1 standards and directives.



Shaver System



Drill System





Selection of Drill mode
Actuates the 80K Micromotor

Selection of continuous irrigation
synchronised with the motor

Selection of rotation to the right
or oscillation

Selection of rotation to the
left or oscillation

Selection of intermittent irrigation

Adjustment of peristaltic
pump delivery

Precision adjustment of the speed of
rotation or oscillation frequency

Adjustment of the speed of rotation
by steps, or the number of revolu-
tions per cycle

Selection of Shaver mode
Actuates the S80 Handpiece

Stable pedal allowing variation of the
speed, direction of rotation,
activation and irrigation flow





OSSEODUO system for microsurgery - Technical data

OSSEODUO

Marking	CE 0120 as per 93/42 EEC directive UL as per UL 60601-1 and CAN/CSA C22.2 No 601.1
Supply voltage	100 - 240 Vac / 2A - 1A / 50/60 Hz
Motor power supply	2 quick connectors of the push-pull type / 48 Vdc
Electrical insulation class	Class I
Parts applied	Type B
Medical class	Ila
Protection class	IP 41
Size / Weight	(L x H x D) 370 x 115 x 270 mm (height with irrigation stand 485 mm) / 4.6 kg
Peristaltic pump	Delivery of 15 to 130 ml/min., adjustable by 10% steps (with two-speed Bien-Air irrigation line REF 1100037-001)
Irrigation stand	Stainless steel, height 450 mm



Multifunction pedal

Protection class	IPx8
Size / Weight	(L x H x D) 160 x 55 x 170 mm / 0.830 kg
Cable	295 cm ±5 cm



80K Micromotor with cable (REF 1700263-001)

Type	Direct current, without brushes or Hall detectors
Torque	0 to ±40 mNm
Speed of rotation	4,000 to 80,000 rpm
Coupling	As per ISO 3964, the most widely used standard in the world
Size / Weight	Diameter 21 mm, length 100 mm, ISO nose included / 120 g without cable
Motor cable	Push-pull type at OSSEODUO end, length 295 cm ±5 cm
Sterilisation	In autoclave at 134°C for 18 min.



S80 Handpiece with cable (REF 1700262-001)

Type	Direct current, without brushes or Hall detectors
Torque	0 to ±15 mNm
Speed in continuous rotation	400 to 8,000 rpm
Speed in oscillation mode	500 to 5,000 rpm
Revolutions per cycle	2-6 revolutions
Frequency	1 to 4.5 Hz
Size / Weight	Diameter 18 mm, length 140 mm, angle 15° / 190 g without cable
Motor cable	Push-pull type at OSSEODUO end, length 295 cm ±5 cm
Instruments	Straight and angled shaver blades, disposable or reusable
Sterilisation	In autoclave at 134°C for 18 min.

OSSEODUO set	Shaver + Drill (S80 + 80K)	REF 1700249-001
OSSEODUO set	Shaver (S80)	REF 1700250-001
OSSEODUO set	Drill (80K)	REF 1700251-001

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