

OSSEODUO SHAYER, DRILL
AND STAPEDOTOMY SYSTEM

OSSEODUO MASTERSHIP AT THE HIGHEST LEVEL

THREE IN ONE!

OSSEODUO is an innovative and efficient system developed in close cooperation with specialist surgeons. It allows easy selection of Shaver, Drill or **OSSEOSTAP** (Stapedotomy/Ossiculoplasty) mode.

You not only benefit from a remarkable system, but you also eliminate unnecessary instruments and gain space. The refinement of the **S120** and the **OSSEOSTAP** Handpiece ensures high precision work in the most difficult places. The power of the **80K** Micromotor greatly reduces operating time.

FEATURES THAT MAKE A DIFFERENCE

Compact and practical, this control unit is easy to use. Its latest-generation electronics guarantees optimal safe performance. All the functions can be viewed and accessed by simply pressing keys. The stable pedal allows variations of the speed, direction of rotation, activation and irrigation flow. The LCD display provides a perfect overall view of the defined functions. With its

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.
- Stapedotomy and ossiculoplasty.

intuitive and personalized programming, the **OSSEODUO** allows extremely precise settings for the most delicate operations. The peristaltic pump can deliver from 15 to 130 ml/min. in continuous or on demand operation. **OSSEODUO** offers the mastership at the highest level for the most discerning.



OSSEODUO allows easy selection of Shaver, Drill or OSSEOSTAP mode and eliminates unnecessary instruments.



OFFER YOURSELF SWISS QUALITY

With 50 years' experience in ENT surgery and dentistry, Bien-Air offers a range of solutions and products which are renowned worldwide for their excellent quality. 100% Swiss Made, Bien-Air products are designed and manufactured in the heart of Watch Valley, a region famed for its unique expertise in micro-technology. Our customers testify daily to the high quality, reliability and precision of our products.

OSSEODUO

SPECIALIZED INSTRUMENTS FOR A MULTITALENT



S120 SHAVER HANDPIECE

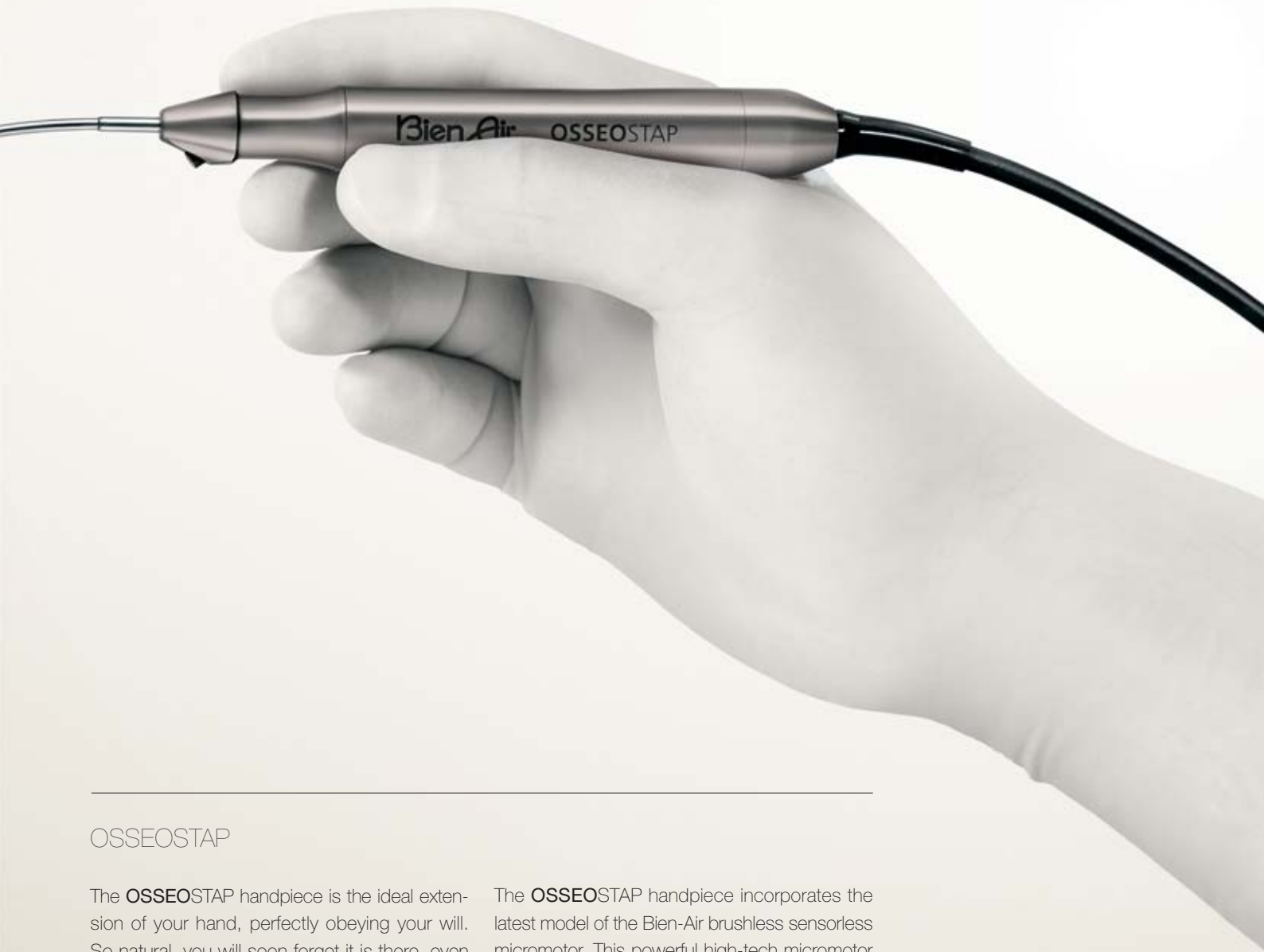
When detail and precision are needed, the **S120** Handpiece meets all expectations. The **S120** is a light-weight handpiece with an integrated micromotor driven by the **OSSEODUO** control unit in shaver mode. It has been especially «human-engineered» to meet surgeons' requirements, providing them with a perfect grip, an excellent maneuverability and allows blade to be positioned at any desired angle while operating. The auto blocking system maintains the shaver blade in its position

The straight suction channel and integrated irrigation ensure perfect operation with no obstructions. A state of the art lubricator reduces maintenance cost and allows ideal lubricating fluid distribution. The **S120** is designed for easy connection of a wide range of disposable and reusable blades.

80K MICROMOTOR

Power and stability at all speeds. The **80K** is driven by the **OSSEODUO** control unit in Drill mode. 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 and sensorless design allows sterilization in 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.





OSSEOSTAP

The **OSSEOSTAP** handpiece is the ideal extension of your hand, perfectly obeying your will. So natural, you will soon forget it is there, even though you will find it indispensable. The **OSSEOSTAP** system has been designed for micro shaping of bones as part of surgical operations such as stapedotomy or ossiculoplasty.

The **OSSEOSTAP** handpiece is a model of ergonomics. Its small size and weight of only 60 grams make it very easy to handle. Its reinforced and incurved front tip ensures easy access to the middle ear plate while offering maximum visibility.

The **OSSEOSTAP** handpiece incorporates the latest model of the Bien-Air brushless sensorless micromotor. This powerful high-tech micromotor rotates at speeds up to 12,000 rpm, with no vibration and no jerking. Thanks to its exemplary progressivity, the most subtle micro shaping operations are no longer a problem. The bur release button remains highly accessible, without hindering handling of the instrument. For optimal hygiene in all circumstances, the **OSSEOSTAP** handpiece and its motor, cable and tools have been designed to withstand repeated machine washing and sterilization in autoclave.

Technical datas



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 push-pull type connectors / <50 Vdc
Electrical insulation class	Class I
Parts applied	Type B
Medical class	Ila
Protection class	IP 41
Size / Weight	(W x H x D) 370 x 115 x 270 mm (height with irrigation stand 485 mm) / 4.6 kg
Irrigation pump	Delivery from 15 to 130 ml / min., adjustable in 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	(W 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, brushless and sensorless
Torque	Max. ±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
Cleaning / Sterilization	Machine washing / in autoclave at 134°C for 18 min.



S120 Handpiece with cable (REF 1700302-001)

Type	Shaver handpiece, powered by a brushless and sensorless motor
Torque	Max. ±15 mNm
Speed in continuous rotation	400 to 12,000 rpm
Speed in oscillation mode	500 to 5,000 rpm (1 to 4.5 Hz)
Rotating angle	360°, auto blocking
Size / Weight	Diameter 18 mm, length 140 mm, angle 15° / 198 g without cable
Motor cable	Push-pull type at OSSEODUO end, length 295 cm ± 5 cm
Instruments	Straight and curved shaver blades, disposable or reusable
Cleaning / Sterilization	Machine washing / in autoclave at 134°C for 18 min.



OSSEOSTAP handpiece with cable (REF 1600685-001)

Marking	CE 0120 as per 93 / 42 EEC directive
Type	Microdrill handpiece powered by brushless and sensorless motor, with curved nose for stapedotomy and middle ear ossiculoplasty
Power supply	12 VDC
Power / Torque	Max 4W @ 3 Nmm
Speed range	Variable up to 12,000 rpm
Size / Weight	Diameter 15.5 mm, overall length 180 mm / 60 g without cable
Bur guide tube	Diameter 2.1 mm length 64.5 mm, curved 15°, with reinforcement for improved stability
Motor cable	Length 295 cm ± 5 cm. Silicon cable with push-pull type connector, autoclavable
Cleaning / Sterilization	Machine washing / in autoclave at 134°C for 18 min.

OSSEODUO set	Shaver + Drill (S120 + 80K)	REF 1700249-001
OSSEODUO set	Shaver (S120)	REF 1700250-001
OSSEODUO set	Drill (80K)	REF 1700251-001
OSSEOSTAP	Handpiece	REF 1600685-001



5000

4.0 Hz

VFR

CON

OSSEODUO
SPINER & DRILL SYSTEM

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