

# Oral surgery and **implantology**

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## Oral surgery & implantology

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## People have Priority

### W&H at a glance

- › Headquarters in Austria
- › 1,300 employees worldwide
- › Established in 1890 in Berlin by Jean Weber and Hugo Hampel
- › Production facilities in Austria, Italy and Sweden
- › Represented in 130 countries
- › Export share over 95%

More information at [wh.com](https://www.wh.com)



W&H Dentalwerk  
Bürmoos (A)



W&H Sterilization  
Brusaporto (I)



The stakes are high.  
We are working with **people.**

Our backbone doesn't come from the stock exchange: W&H has been a family-owned company for generations. This is the origin of the spirit of innovation that developed devices such as Implantmed, Elcomed and Piezomed.

The secret of our success: W&H has always focused on people – regardless of whether they are partners, customers, patients or employees. See for yourself – it's no longer a secret! We don't want to keep any secrets from you.



All the **advantages**  
at a glance



**Dr med. dent. Fred Bergmann**  
Dentist specializing in oral surgery

“The combination of Implantmed and Osstell ensures improved treatment safety for me and my patients.”

**Implantmed Plus**

- › Intuitive user interface
- › New pump design
- › Ultra-short, powerful electric motor with 6.2 Ncm torque
- › Motor speed range: 200 to 40,000 rpm
- › W&H Osstell products (available as an accessory) for precise measurable implant stability
- › Automatic torque control: 5 to 80 Ncm
- › Automatic thread cutter function
- › Electric motor with cable, thermo washer disinfectable and sterilizable

[More information from page 12](#)



**Dr Ulrich Fürst**  
Specialist in oral surgery

“Incredible – cuts bone like butter.”

**Piezomed**

- › Automatic instrument detection
- › Three individual operating modes: “Power”, “Basic” and “Smooth”
- › Temporary 20% power increase thanks to boost function
- › Ideal illumination of the operating site through LED ring illumination
- › Efficient cooling thanks to spray opening close to the instrument’s area of activity
- › Handpiece with LED socket and cable, thermo washer disinfectable and sterilizable

[More information from page 20](#)



**Prof. Christof Pertl**  
Dentistry in Graz

“Piezosurgery and Implantmed in one fascinating modular system. Comprehensive and powerful.”

**Piezomed Plus and Classic module**

- › Implantology motor and piezosurgery in one device
- › The Piezomed module can be combined with any Implantmed SI-10XX and therefore covers a wide range of surgical applications
- › The modular concept allows the device to be adjusted to the relevant user’s requirements
- › The combination of Implantmed Plus and Piezomed module allows for workflow-controlled solutions in oral surgery and implantology
- › With the Piezomed Plus and Piezomed Classic module versions, W&H covers a broad spectrum of piezosurgery dental practice

[More information from page 22](#)



## All the **advantages** at a glance



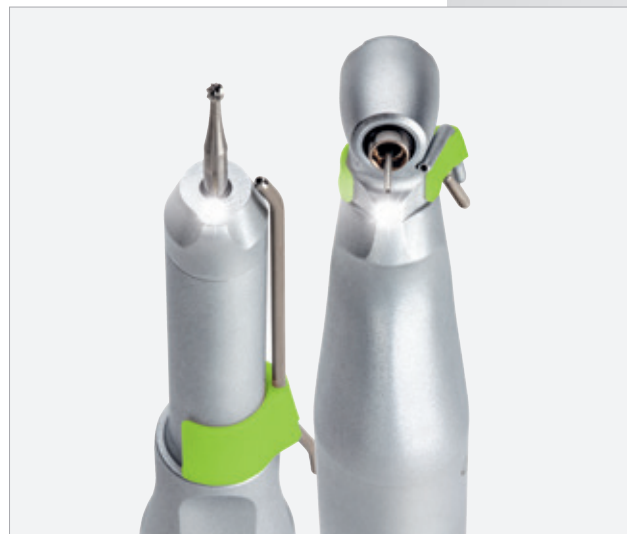
**Dr med. dent.  
Robert Schwagierek, M. A.**  
Dentist specializing in oral surgery

“Ease of use makes it possible: high degree of safety and high-quality treatment for patients. Maximum efficiency in everyday practice.”

### **Implantmed Classic**

- › Intuitive user interface, easy-to-read display
- › Ultra-short, powerful electric motor with 5.5 Ncm torque
- › Motor speed range: 300–40,000 rpm
- › Precise torque control, 5–70 Ncm
- › Automatic thread cutter function
- › Electric motor with cable, thermo washer disinfectable and sterilizable

[More information from page 14](#)



**Dr Alexander Schatzdorfer**  
Dentist with his own practice

“Ideal for Implantmed: precise and reliable!”

### **Surgical handpieces and contra-angles with generator With and without mini LED+**

- › Fatigue-free working thanks to optimal ergonomics
- › Durable and robust due to high-quality stainless steel and scratch-resistant coating
- › Can be dismantled for thorough cleaning (except WI-75 E/KM)
- › Thermo washer disinfectable and sterilizable

#### **With mini LED+**

- › Work with daylight quality
- › Natural reproduction of red tones
- › Independent power supply with integrated generator

[More information from page 16](#)



**Nicholas Claydon BDS MscD PhD  
MJDF RCS (eEng) FHEA**  
Consultant in Periodontology  
and Implantology

“Premium design for quality and balance. The top-class LED light sets new standards.”

### **Surgical handpieces and contra-angles With mini LED+ and W&H connection**

- › Matches to Implantmed SI-1023, SI-1015, SI-1010
- › Optimal illumination at all stages of the work
- › Fatigue-free working thanks to ergonomic balance
- › Durable and robust due to high-quality stainless steel and scratch-resistant coating
- › Work with daylight quality
- › Natural reproduction of red tones
- › Can be dismantled for thorough cleaning
- › Thermo washer disinfectable and sterilizable
- › Developed for the W&H electric motor EM-19 LC

[More information from page 18](#)





# Your compass for tomorrow's dental surgery

Oral surgery & implantology in perfect harmony for your treatment success.



## STRAIGHT & CONTRA-ANGLE HANDPIECES

Provide optimal illumination of the treatment site and facilitate perfect, accurate treatment results.



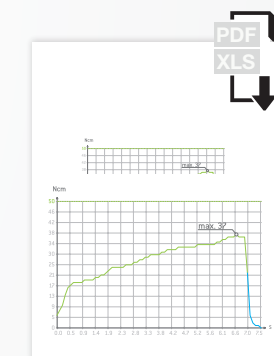
## OSSTELL® IMPLANT STABILITY SOLUTIONS™

Ensure predictability and enhance your dental implant treatments and patient communication with Beacon, SmartPegs and OstellConnect.



## PIEZOMED PLUS AND CLASSIC MODULE

Combine piezo surgery and implantology in one device.



## DOCUMENTATION FUNCTION

For clinicians to use data to enhance dental implant treatments and patient communication.



## ELECTRIC MOTOR

Particularly small and surprisingly lightweight – for fatigue-proof working with various motor variants.



## WIRELESS OR WIRED FOOT CONTROL

Control the Implantmed Plus and Piezomed module with just one foot control.

## For a simple work process

### Safe, simple and flexible.

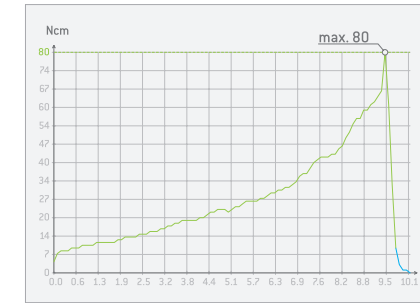
Implantmed is a high-quality and high-performance surgical motor for dental surgery, implantology and craniomaxillofacial surgery (CMF).



### W&H Osstell Beacon connection

- › Bluetooth connection to the Osstell Beacon for measuring and representing implant stability

## Implantmed Plus



### Secure placement

The automatic torque control: guarantees the required security. It can be adjusted from 5 to 80 Ncm.



### Measurable stability

Implant stability can be measured precisely with the Osstell Beacon, which is available as an accessory.



### With intuitive ease

Colour touch screen with user-friendly menu guidance and glass surface for easy cleaning.



### For dental assistants

The newly designed pump enables the coolant hose to be inserted safely and quickly.



### Absolute freedom of movement

The wireless foot control allows you to choose the optimal location in your working area. This ensures high safety levels in the treatment area.



### One for all

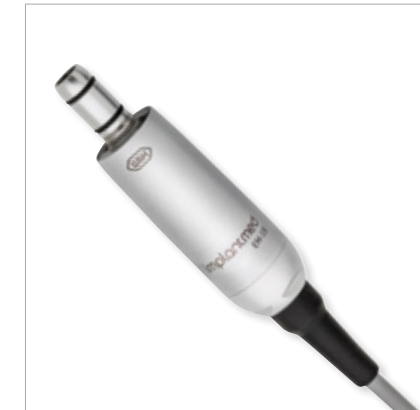
Control the functions of the Implantmed and Piezomed with only one foot control.



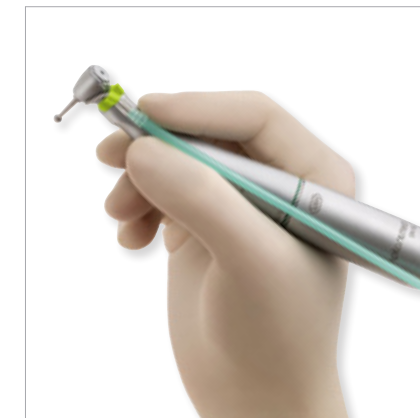
## Focus on the essentials

**Ergonomic, simple and powerful.** Implantmed impresses users with its intuitive ease of use. You can fully and completely concentrate on the most important aspect: your patients.

## Implantmed Classic



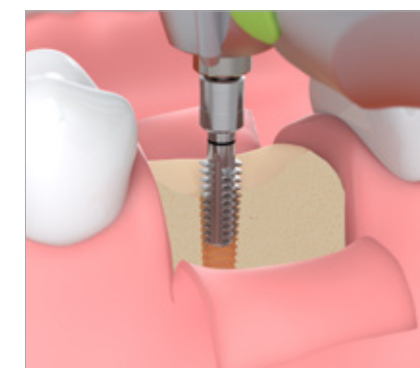
**Powerful motor**  
With a motor torque of 5.5 Ncm and a motor speed range of 300 to 40,000 rpm, Implantmed is an impressively powerful instrument.



**Fatigue-free operation**  
The combination of the short motor and ergonomically shaped contra-angle handpiece are perfectly balanced. You can work for long periods without fatigue or cramps in your hand.



**Easy to use**  
Its display with auto-backlight makes Implantmed easy and uncomplicated to use.



**Stress-free healing**  
The automatic thread cutter function supports you when inserting implants in hard bone. It prevents excessive compression of the bone.



# Fatigue-free and flexible operation

## Durable, ergonomic and robust.

Whether inserting an implant or extracting a wisdom tooth, you can be sure of optimum cooling and illumination of the treatment site. High-quality stainless steel with a scratch-resistant coating makes the surgical handpieces and contra-angles robust and gives them a particularly long service life.

### WS-75 L | 20:1

Specially designed for preparation of the implant site and implant insertion.

### S-11 L | 1:1

The first choice for apical resection, osteotomy, sequestrotomy, bone modelling and bone smoothing as well as extraction of wisdom teeth.

### WS-91 L | 1:2.7

#### 45° head

Specially designed for improved access in the premolar and molar region.

### WS-56 L | 1:1

### WS-92 L | 1:2.7

Designed for osteotomy, sequestrotomy, germectomy and hemisection.



## Surgical handpieces and contra-angles for Implantmed SI-1023, SI-1015, SI-1010



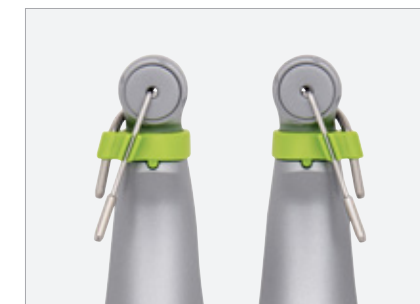
### Fatigue-free operation

The combination with the ultra-short EM-19 LC electric motor allows for long periods of work without fatigue.



### Optimal illumination

Thanks to it being half the size of a normal LED, the mini LED+ can be integrated very close to the tip and offers optimal illumination.



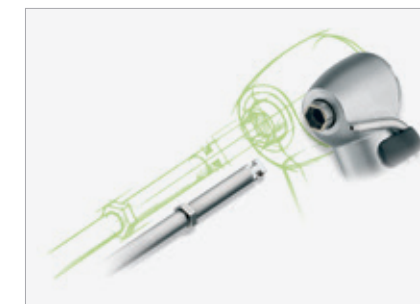
### Variable cooling

There are spray clips available for the left and right. This means that cooling can be adjusted to the individual requirements.



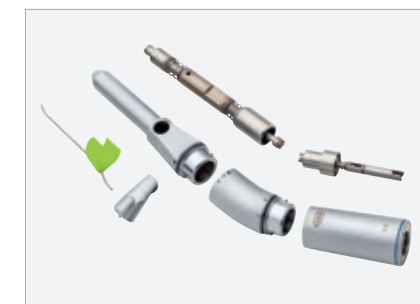
### Scratch-resistant surface

The unique coating protects the instrument from scratches. This facilitates cleaning and preserves the value.



### Hexagon chucking system

The hexagon chucking system developed and patented (EU, USA) by W&H ensures safe use even at high torques.



### Perfect cleaning

To satisfy the stringent hygiene requirements, the instruments can be dismantled.



## Leader in LED technology

### Clear, bright and wide field of view.

Excellent lighting conditions facilitate accurate diagnoses and perfect treatment results. The surgical handpieces and contra-angles with mini LED+ produce light independently. An integrated generator supplies the LED in the instruments with power.

The contra-angle handpieces WS-91 and WS-91 L G with 45° head unite the advantages of straight and contra-angle handpieces. The 45° angle allows considerably better visibility of the treatment site. This is particularly helpful in the surgical extraction of wisdom teeth, precise tooth separations and apical resections. This makes palatal access to the maxillary molars much simpler, even with a small mouth opening. In contrast, in buccal applications, there is more space between the cheek and the operating site. At the same time, the view is barely affected. Depending on the drive speed, the ratio of 1:2.7 makes it possible to achieve speeds of up to 135,000 revolutions per minute on the rotary instrument. A 3x spray guarantees sufficient cooling of the rotary instrument and the treatment site.

## Surgical handpieces and contra-angles with generator



**WS-75 (without light)**  
**WS-75 L G (with mini LED+)**  
**WI-75 E/KM (without light)**

Models specially designed for implantation.



**WS-56, WS-92 (without light),**  
**WS-56 L G, WS-92 L G**  
**(with mini LED+)**

These models are outstanding for difficult surgical procedures.



**WS-91 (without light)**  
**WS-91 L G (with mini LED+)**

The 45° angle allows considerably better access and considerably better visibility of the treatment site.



**S-9, S-11 (without light)**  
**S-9 L G, S-11 L G**  
**(with mini LED+)**

The first choice for complex jaw procedures.



**S-10, S-12, S-15, S-16**  
**(without light)**

Improves the view of areas where access is difficult.



**SZ-75 (without light)**

For preparation of the implant site and the insertion of zygoma implants.

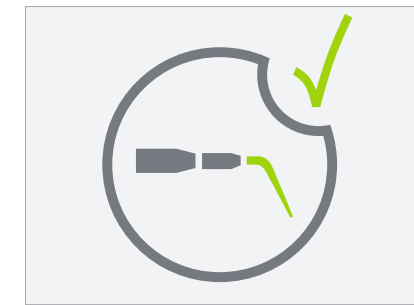
# The new force in bone surgery

## Minimally invasive, maximum power.

Piezomed facilitates the surgeon's work: thanks to innovative ultrasound technology, only bone substance is resected with high precision. The surrounding soft tissue is protected. What a huge for relief for the patient: less pain, better healing.

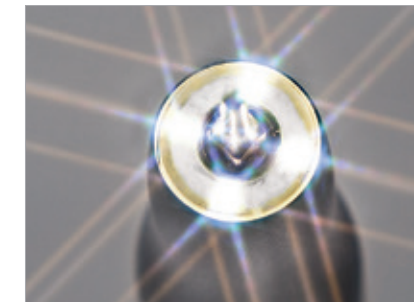


**Piezomed**



### Automatic instrument detection

Piezomed detects the instrument when it is inserted and automatically sets the right power class.



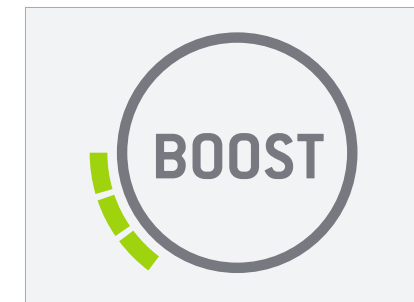
### Innovative LED ring illumination

The shadow-free light ensures ideal illumination of the operating site.



### Improved cutting precision

A specialized serration design guarantees precision cutting and saves time.



### Extremely powerful and fast

The boost function can be used to increase the set basic power by 20% for a short period of time.



### Efficient cooling

The spray is expelled close to the instrument's area of activity and thus provides ultra-efficient cooling of the operating site.



### SPI dongle – upgrade at any time

Control the functions of the Piezomed with the wireless foot control, available as an accessory.



# The game changer in piezosurgery

The **Piezomed module** combines an implantology motor and piezosurgery in one device. This means Implantmed can be combined with the Piezomed module and can be used to cover several surgical applications.

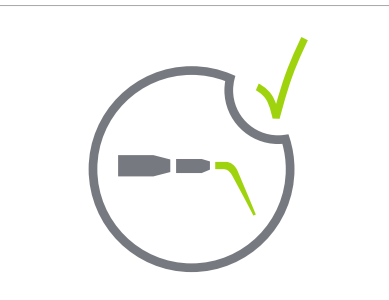
Two in one



Piezomed module



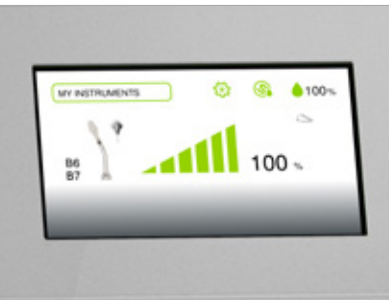
**Modularity**  
The modularity offers the possibility of adapting the device to the requirements of the individual user.



**Automatic instrument detection**  
Piezomed detects the instrument when it is inserted and automatically sets the right power class.



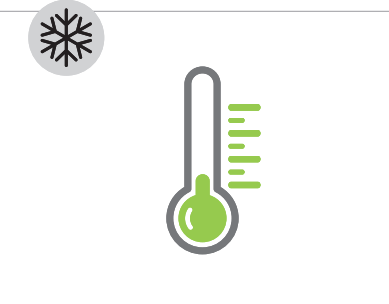
**Efficient cooling of the operating site**  
The spray is expelled close to the instrument's area of activity and thus provides ultra-efficient cooling of the operating site.



**Instrument library**  
Enables the individual setting of the most important treatment parameters for the preferred instruments.



**Absolute freedom of movement**  
The wireless foot control allows you to choose the optimal location in the area of activity. This ensures a high level of safety in the treatment area.



**Cooling without case fan**  
This prevents disruptive noises, and there is no impairment of the sterile environment due to the emission of cooling air.

**Extremely, fast,  
precise and gentle**

**Exceptional cutting power,  
flexible and individual working.**

The Piezomed instrument range includes innovative instruments for bone surgery, periodontology and extraction, retrograde endodontics as well as for lateral sinus lift, preparation of the implant site and crestal sinus lift.



**Piezomed Instruments**



**Instrument kit "Bone"**  
for bone surgery  
B1, B2R, B2L,  
B3, B4, B5



**Instrument kit Sinus  
"SPECIAL"**  
for lateral sinus lift  
S1, S2, S3, S4, S5



**Instrument kit "EX"**  
for extraction  
EX1, EX2



**Instrument kit "Endo"**  
for retrograde endodontics  
R1D, R2RD, R2LD, R3D,  
R4RD, R4LD



**Instrument kit "Paro"**  
for periodontology  
P1, P2RD, P2LD



**Instrument kit  
"Implant/Crestal A"**  
for special crestal applications  
I1, I2A, I3A, I4A, Z25P, Z35P

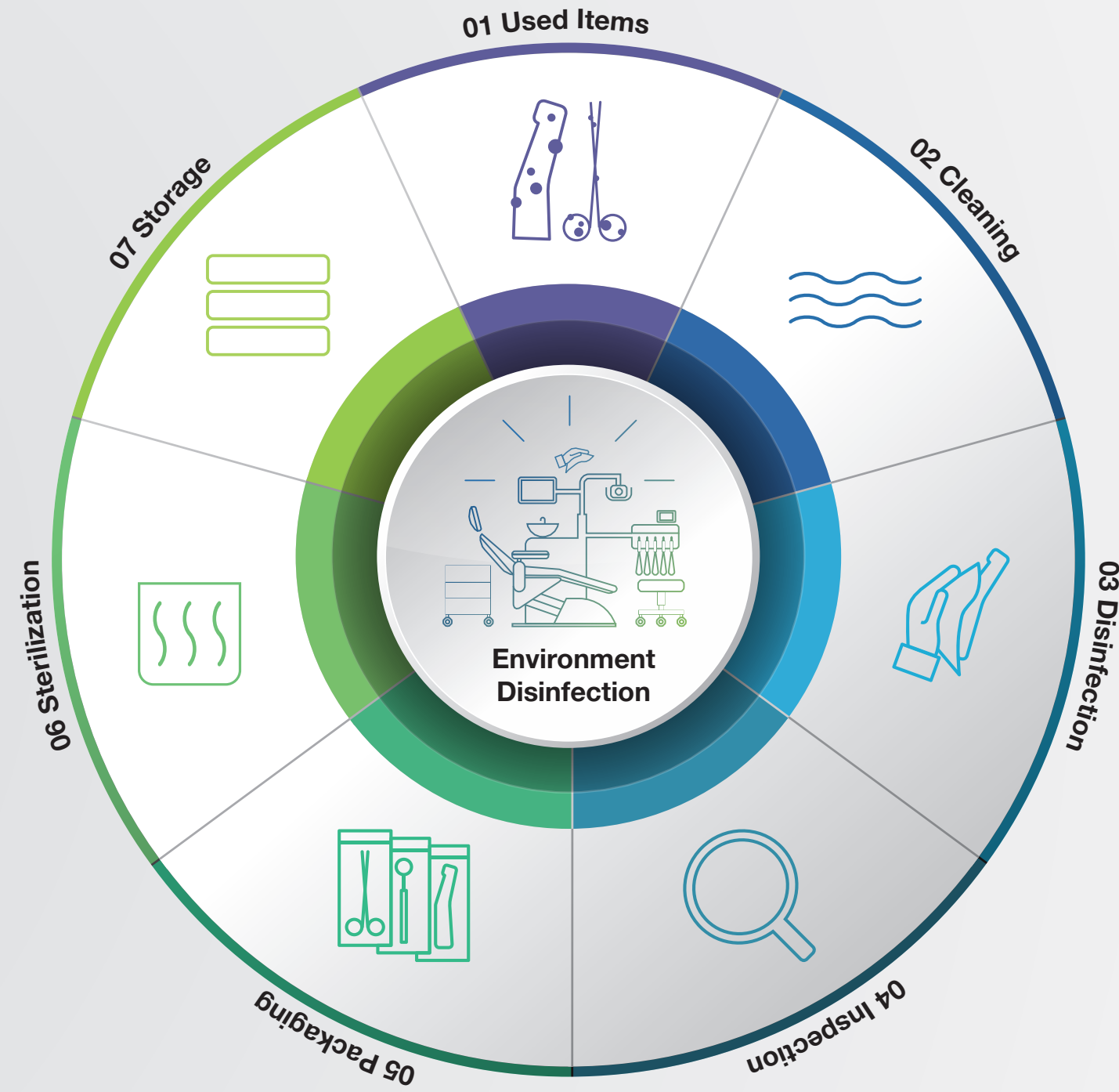


**Instrument kit  
"Implant/Crestal P"**  
for preparation of the implant site  
I1, I2P, I3P, I4P, Z25P, Z35P

W&H AIMS  
**Safety first!**

Hygiene is extremely important in the dental practice. W&H AIMS is here to help: with a wide product portfolio, fundamental knowledge and all relevant information at a glance.

For your safety and the safety of your patients. [aims.wh.com](https://www.aims.wh.com)



-   
Decontamination
-   
Cleaning
-   
Disinfection
-   
Inspection & Maintenance
-   
Packaging
-   
Sterilization
-   
Traceability & Storage



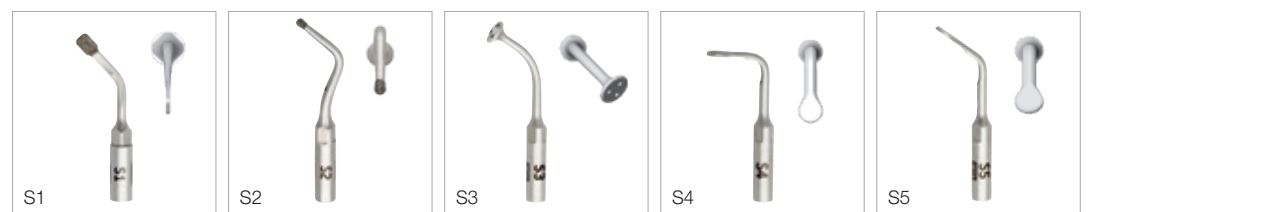
# Overview

## Piezomed instruments

### Bone surgery



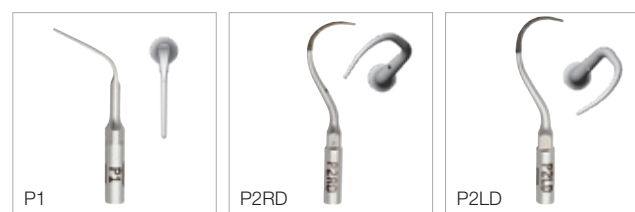
### Lateral sinus lift



### Extraction



### Periodontology



### Retrograde endodontics



### Preparation of the implant site and special crestal applications (A = anterior area)



### Preparation of the implant site and special crestal applications (P = posterior area)



# Implantmed Plus



Type:	SI-1023	SI-1015	SI-1010
Supply voltage:	230 V	120 V	100 V
Permitted voltage fluctuation:	220-240 V	110-130 V	90-110 V
Nominal current:	0.3-0.8 A	0.3-1.6 A	0.3-1.4 A
Frequency:	50-60 Hz		
Supply fuse (2 pcs):	250 V - T1.6AH		
Maximum power consumption:	170 VA		
Maximum output:	80 W		
Maximum torque at the motor:	6.2 Ncm		
Motor speed range in the nominal voltage range:	200-40,000 rpm		
Coolant flow rate at 100%:	minimum 90 ml/min		
Length of motor cable:	1.8 m/3.5 m		
Dimensions in mm (height x width x depth):	100 x 262 x 291		
Foot control:	S-N2/S-NW		
Straight and contra-angle handpieces with mini LED+:	S-11 L, WS-56 L, WS-75 L, WS-91 L, WS-92 L		
Guarantee:	24 months		

# Implantmed Classic



Type:	Implantmed SI-923	Implantmed SI-915
Supply voltage:	230 V	120 V
Permitted voltage fluctuation:	220-240 V	110-130 V
Nominal current:	0.3-0.8 A	0.3-1.6 A
Frequency:	50-60 Hz	
Supply fuse (2 pcs):	250 V-T1.6 AH	
Maximum power consumption:	160 VA	
Maximum output:	80 W	
Maximum torque at the motor:	5.5 Ncm	
Motor speed range in the nominal voltage range:	300-40,000 rpm	
Coolant flow rate at 100%:	minimum 90 ml/min	
Dimensions in mm (height x width x depth):	100 x 235 x 240	
Weight in kg:	2.7 kg	
Foot control:	S-N2	
Straight and contra-angle handpieces with light:	S-9 L G, S-11 L G, WS-56 L G, WS-75 L G, WS-91 L G, WS-92 L G	
Straight and contra-angle handpieces without light:	S-9, S-10, S-11, S-12, S-15, S-16, SZ-75, WS-56, WS-75, WI-75 E/KM, WS-91, WS-92	
Guarantee:	12 months	

# Piezomed



Type:	SA-320
Supply voltage:	220–240 V/100–130 V
Permitted voltage fluctuation:	±10%
Nominal current:	0.1–0.5 A/0.1–1.0 A
Frequency:	50–60 Hz
Maximum ultrasonic output:	20 W*
Maximum power consumption:	90 VA
Maximum output:	24 W
Operating frequency:	22–35 kHz
Coolant flow rate at 100%:	minimum 50 ml/min
Length of handpiece cable:	1.8 m/3.5 m
Dimensions in mm (height x width x depth):	109 x 256 x 305
Foot control:	S-N1 S-NW with SPI dangle

\* 24 W with boost function

# Surgical handpiece with mini LED+ and W&H connection



Type:	S-11 L
Transmission ratio:	1:1
Coupling system:	W&H EM-19 LC/EM-19
Lighting system:	Mini LED+
Spray:	External
Chucking system:	Lever chuck
Rotary instruments: Permitted bur length:	for surgical burs and cutters with Ø 2.35 mm* 45 mm
Maximum drive speed:	50,000 rpm
Can be dismantled:	yes
Indication, e.g.	Apical resection osteotomy sequestrotomy bone modelling and bone smoothing extraction of wisdom teeth

\* also Stryker system

# Piezomed Plus and Classic module



Type:	Piezomed Plus module SA-435 M	Piezomed Classic module SA-430 M
Supply voltage:	100–240 V	
Frequency:	50–60 Hz	
Permitted voltage fluctuation:	±10%	
Nominal current:	1.6 A	
Mains frequency:	50–60 Hz	
Maximum ultrasonic output:	24 W	18 W
Operating frequency:	22–35 kHz	
Coolant flow rate at 100%:	minimum 90 ml/min	
Length of handpiece cable:	1.8 m/3.5 m	1.8 m without light
Dimensions in mm (height x width x depth):	90 x 140 x 285	
Weight:	0.7 kg	0.6 kg
Foot control:	S-N2/S-NW	

# Surgical contra-angle handpieces with mini LED+ and W&H connection



Type:	WS-75 L	WS-56 L	WS-91 L	WS-92 L
Transmission ratio:	20:1	1:1	1:2.7	1:2.7
Coupling system:	W&H EM-19 LC/EM-19			
Lighting system:	Mini LED+			
External spray:	single		triple	
Internal cooling system:	Kirschner/Meyer	–	–	–
Chucking system:	Push-button chuck system			
Rotary instruments:	for surgical burs and cutters with contra-angle shaft Ø 2.35 mm		FG shank Ø 1.6 mm	
Maximum drive speed:	50,000 rpm			
Can be dismantled:	yes			
Indication, e.g.	Preparation of the implant site implant insertion	osteotomy sequestrotomy germectomy hemisection	for improved access in the premolar and molar region	

## Surgical handpieces with mini LED+ and generator



Type:	S-9 L G S-11 L G
Transmission ratio:	1:1
Coupling system:	ISO 3964
Lighting system:	Mini LED+
Power supply:	Via independent generator
Illumination quality:	Daylight
Spray:	External
Chucking system:	Lever chuck
Rotary instruments: Permitted bur length:	for surgical burs and cutters with Ø 2.35 mm* 45 mm
Maximum drive speed:	40,000 rpm
Can be dismantled:	yes
Indication, e.g.	apical resection osteotomy apical trepanning bone modelling

\* also Stryker system

## Surgical handpieces without light



Type:	S-9/S-11	S-15	S-10	S-12
Transmission ratio:	1:1	1:1	1:1	1:2
Coupling system:	ISO 3964			
Spray:	External			
Chucking system:	Lever chuck			
Rotary instruments: Permitted bur length:	for surgical burs and cutters with Ø 2.35 mm* 45 mm		for surgical burs and cutters with Ø 2.35 mm 70 mm	
Maximum drive speed:	50,000 rpm	30,000 rpm	50,000 rpm	40,000 rpm
Can be dismantled:	yes			
Indication, e.g.	apical resection osteotomy apical trepanning bone modelling	osteotomy for difficult to access areas	osteotomy fenestration osteosynthesis in distal areas	

\* also Stryker system

## Surgical contra-angle handpieces with mini LED+ and generator



Type:	WS-75 L G	WS-56 L G	WS-91 L G	WS-92 L G
Transmission ratio:	20:1	1:1	1:2.7	
Coupling system:	ISO 3964			
Lighting system:	Mini LED+			
Power supply:	via independent generator			
Illumination quality:	Daylight			
External spray:	single		triple	
Internal cooling system:	Kirschner/Meyer	-	-	-
Chucking system:	Push-button chuck system			
Rotary instruments: Permitted bur length:	for surgical burs and cutters with contra-angle shaft Ø 2.35 mm		FG shank Ø 1.6 mm	
Maximum drive speed:	40,000 rpm			
Can be dismantled:	yes			
Indication, e.g.	implant insertion osteotomy	maxillary and mandibular osteotomy germectomy sequestromy	hemisection extraction of wisdom teeth	

## Surgical contra-angle handpieces without light



Type:	WS-75 (WI-75 E/KM*)	WS-56	WS-91	WS-92
Transmission ratio:	20:1	1:1	1:2.7	
Coupling system:	ISO 3964			
External spray:	single		triple	
Internal cooling system:	Kirschner/Meyer	-	-	-
Chucking system:	Push-button chuck system			
Rotary instruments: Permitted bur length:	for surgical burs and cutters with contra-angle shaft Ø 2.35 mm		FG shank Ø 1.6 mm	
Maximum drive speed:	50,000 rpm			
Can be dismantled:	yes			
Indication, e.g.	implant insertion osteotomy	maxillary and mandibular osteotomy germectomy sequestromy	hemisection extraction of wisdom teeth	

\* WI-75 E/KM: cannot be dismantled





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Subject to alterations

Pictures are for illustrative purposes only. Additional equipment and accessories shown are not included as standard.