# Oral surgery & Implantology

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# Oral surgery & Implantology

# COMPANY

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Product overview 3 Piezomed, Piezomed instruments

Implantmed Plus

Implantmed Plus with ioDent<sup>®</sup> system

Implantmed Classic

Elcomed

Surgical straight and contra-angle handpieces

Surgical straight and contra-angle handpieces with generation

Prosthodontic screwdriver

Piezomed

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# People have Priority

# W&H at a glance

- > Headquarters in Austria
- > 1,200 employees worldwide
- > Established 1890 in Berlin by Jean Weber and Hugo Hampel
- Production facilities in Austria, Italy and Sweden
- Represented in 110 countries
- > Export share over 95%

# For more information see wh.com









# The stakes are high. We work with people.

Backbone doesn't come from the stock exchange: W&H has been a familyowned company for generations. This is the origin of the spirit of innovation that develops devices such as Implantmed, Elcomed and Piezomed.

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

# Your **advantages** at a glance



# Dr. med. dent. Fred Bergmann dentist specializing in oral surgery.

»The combination of Implantmed and Osstell ISQ module ensures improved treatment safety for me and my patients.«

# Historica Constraints of the second s

# 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 Plus**

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

# Implantmed Classic

- Intuitive operating concept, large, 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 sterilisable



PD Dr. Jörg Neugebauer dentist specializing in oral surgery.

»There is no time for compromises during the surgical procedure. Elcomed is clearly number 1 in the operating theatre.«

# Elcomed

- All information in one user level
- > Complete documentation via USB flash drive
- Shortest and lightest motor with 50,000 rpm
- > Up to 80 Ncm on the rotary instrument
- 6 programs with individually adjustable parameters
- > Automatic thread cutter function
- Motor with cable, thermo washer disinfectable and sterilizable

More info on page 18



# Your **advantages** at a glance



Dr. Alexander Schatzdorfer dentist with his own practice.

»Ideal for Implantmed and Elcomed: precise and reliable!«



Dr. Alexander Schatzdorfer dentist with his own practice.

»The prosthodontic screwdriver with torque control! It tightens the retaining screw to the perfect tightness.«



**PD Dr. Jörg Neugebauer** dentist specializing in oral surgery.

»Fast cutting without vibration. Also for use with local anaesthetics.« Surgical straight and contra-angle handpieces 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
- Longer life compared to conventional halogen bulbs More info on page 20

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

- Matched to Implantmed SI-1023, SI-1015 and SI-1010
- > Optimal illumination at all stages of the work
- > Fatigue-free working thanks to ergonomic balance
- Robust and long service life due to high-quality stainless steel with 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 info on page 22

# IA-400

- Torque control for risk-free tightening of the retaining screw
- Automatic stopping when the adjusted torque is reached
- Constant speed saves time
- Cordless for ease of use
- Small head for the best view
- Torque wrenches and ratchets are now redundant

More info on page 24

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# Your **advantages** at a glance



Dr. Ulrich Fürst specialist in oral surgery.

»Incredible – cuts Piezomed through bone like butter.«





Instrument kit »Endo« for retrograde endodontics R1D, R2RD, R2LD, R3D, R4RD, R4 LD



Instrument kit »EX« for extraction EX1, EX2

#### 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 working area
- Handpiece with LED socket and cable, thermo washer disinfectable and sterilizable More info on page 26

#### **Piezomed instruments**

- Range of innovative instruments for bone surgery, periodontology and extraction, retrograde endodontics as well as for lateral sinus lift, preparation of the implant site and special crestal applications
- Improved cutting performance thanks to special toothing on the bone blades
- Extremely high cutting performance and time savings due to the new special saw's thin blade
- > Flexibility and individuality in working
- > Thermo washer disinfectable and sterilizable







Instrument kit »Bone« for bone surgery B1, B2R, B2L, B3, B4, B5



Instrument kit »Paro« for periodontology P1, P2RD, P2LD



**Instrument kit »SPECIAL«** for special applications S1, S2, S3, S4, S5



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





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

# For a **simple** work process

# Safe, simple and flexible.

Implantmed impresses users with its intuitive user interface and simplifies your treatment process. Every single Implantmed stands for top quality, precision and safety.

# **Osstell Beacon interface**

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OSSTELL

 Bluetooth connection to Osstell Beacon for simple measurement of 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 W&H Osstell ISQ module, available as an accessory.

#### With intuitive ease

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



The new pump design makes insertion of the coolant hose secure and quick.

#### Absolute freedom of movement

With the wireless foot control you can select the optimum position in the work area without restrictions. This means complete safety in the treatment area.

#### One for all

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



with an overview of your connected devices.



You can plan your operation in advance with the »Online Treatment Setup« and transmit the configuration to your Implantmed Plus. An integrated implant manufacturer database\* sets all parameters before the operation.

\* W&H Dentalwerk Bürmoos GmbH accepts no liability for ensuring that the information

# ioDent<sup>®</sup> Gateway mini

The gateway is the link between your devices and the online platform. The number of connected devices is unlimited.

# **Focus** on the essentials

# Ergonomic, simple, 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

In combination the short motor and the ergonomically shaped contra-angle handpiece are perfectly balanced. You can work for long periods without fatigue or cramp in your hand.



#### Easy to use

Its new 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 compression of the bone.

# Number 1 in the operating theatre

# Safe, reliable, powerful.

The W&H Elcomed has been designed specifically to meet the requirements of maxillofacial surgery, dental surgery and implantology.















# Elcomed

# **Everything at a glance**

Revolutions per minute, torque and selected coolant flow rate all at one user level.

#### **Complete documentation**

Every step of the treatment is saved to a USB flash drive. The data is accessible at any time.

# Automatic thread cutter function

Prevents excessive bone compression while screwing in the implant.

#### **Convenient foot control**

The multifunctional foot control allows sterile working and optimum freedom for your hands.

## An amazing motor

Shortest and lightest motor with 50,000 revolutions per minute.

# SPI Dongle – Upgrade at any time

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

# Fatigue-free and flexible operation

# Durable, ergonomic and robust.

Whether you are 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 straight and contra-angle handpieces 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 and also for extraction of wisdom teeth.

#### WS-91 L | 1:2,7 45° head

Specially designed to improve access in the premolar and molar region.

WS-56 L | 1:1 WS-92 L | 1:2,7 Designed for osteotomy, sequestrotomy,

germectomy, hemisection.

UEH Leci+ S-11L

Surgical straight and contra-angle handpieces for Implantmed SI-1023, SI-1015, SI-1010













led

## **Fatigue-free operation**

Combination with the ultra-short EM-19 electric motor allows 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 adapted to the individual requirements.

#### Scratch-resistant surface

The unique coating protects the straight and contra-angle handpiece 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 straight and contra-angle handpieces 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 straight and contra-angle handpieces 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 contraangle handpieces. The 45° angle allows considerably better access and 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 palatinal 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 rotating instrument. A triple spray guarantees sufficient cooling of the rotating instrument and the tooth.

# Surgical straight and contraangle handpieces with generator





# WS-75 (without light) WS-75 L G (with mini LED+)

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 (without light)

Improves the view of areas where access is difficult.



Model specially designed for implantation.

# For precise torque control

# Practical, fast and no risk.

The single-handed operation means the cordless prosthodontic screwdriver is fast and, most importantly, safe and provides the best possible view of the treatment site.



Prosthodontic screwdriver



# Precise torque control

Adjustable from 8 to 40 Ncm in 1 Ncm steps. This allows precise, risk-free tightening of retaining screws.



Key pad Activate the prosthodontic screwdriver with the key pad.



#### **Cordless operation**

No obstacles for your prosthodontic screwdriver with modern Li-lon battery technology.



#### Small head for a clear view

Nothing blocks your view of the treatment site.



# Constant speed saves time

At 25 revolutions per minute it takes less than 10 seconds to tighten a retaining screw.



# Lubricated for life

The thermo washer disinfectable and sterilizable contra-angle handpiece is lubricated for life and must not be oiled.

# 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 remains uninjured. A noticeable relief for the patient: less pain, quicker healing!



# **Piezomed**



# Automatic instrument detection

Piezomed detects the instrument during insertion and sets the correct power class automatically.



# Innovative LED ring illumination

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



#### Improved cutting precision

A new, specialized tooth 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 exits near the instrument's area of activity and cools the operating site extremely efficiently.



# SPI Dongle -Upgrade at any time

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

# **Overview** Piezomed instruments



# **Implantmed Plus**

**CE** 

Туре:	SI-1023
Mains voltage:	230 V
Permissible voltage fluctuation:	220 – 240 V
Rated current:	0.3 – 0.8 A
Frequency:	
Mains fuse (2 pcs):	
Maximum power consumption:	
Maximum power output:	
Maximum torque at motor:	
Motor speed range in the rated voltage range:	
Coolant flow volume at 100%:	
Length of motor cable:	
Dimensions in mm (height x width x depth):	
Foot control:	
Straight and contra-angle handpieces with mini LED+:	S-1
Warranty:	

# **Implantmed Classic**

**CE** 0297 Type: Mains voltage: Permissible voltage fluctuation: Rated current: Frequency: Mains fuse (2 pcs): Maximum power consumption: Maximum power output: Maximum torque at motor: Motor speed range in the rated voltage range: Coolant flow volume at 100%: Dimensions in mm (height x width x depth): Weight in kg: Foot control: Straight and contra-angle handpieces: WI-75 E/KM Warranty:

SI-1015	SI-1010
120 V	100 V
110 – 130 V	90 – 110 V
0.3 – 1.6 A	0.3 – 1.4 A
50 – 60 Hz	
250 V – T1,6AH	
170 VA	
80 W	
6.2 Ncm	
200 – 40,000 min <sup>-1</sup>	
at least 90 ml/min	
1.8 m / 3.5 m	
100 x 262 x 291	
S-N2 / S-NW	
-11 L / WS-56 L, WS-75 L, WS-91 L, WS	S-92 L
24 months	

Implantmed SI-923	Implantmed SI-915		
230 V	120 V		
220 – 240 V	110 – 130 V		
0.3 – 0.8 A	0.3 – 1.6 A		
50	– 60 Hz		
250 V	– T1.6 AH		
1	60 VA		
80 W			
5.	5 Ncm		
300 - 4	40,000 rpm		
at leas	t 90 ml/min		
100 x	235 x 240		
2	2.7 kg		
:	S-N2		
// / S-9 L G / S-11 L G / WS-5	6 L G / WS-75 L G / WS-91 L G / WS-92 L G		
12	months		

# Elcomed

# **C E** 0297

SA-310
220 - 240 V / 100 - 130 V
±10 %
0.1 – 0.9 A / 0.1 – 1.8 A
50 – 60 Hz
250 V – T1,6AH
180 VA
100 W
7 Ncm
300 min <sup>-1</sup> – maximum 50,000 min <sup>-1</sup> , safety stop at 40,000 min <sup>-1</sup>
at least 90 ml/min
1.8 m / 3.5 m
109 x 256 x 305
S-N1
ISO connection 3964 (DIN 13940)

# Straight handpiece

with mini LED+ and W&H connection

# **€€** ∭ [135℃ 5555

Туре:	S-11 L
Transmission ratio:	1:1
Coupling system:	W&H EM-19 LC / EM-
Lighting system:	mini-LED+
Spray:	external
Chucking system:	lever chuck
Rotary instruments: Permitted bur length:	for surgical burs and cutters Ø 45 mm
Maximum drive speed:	50,000 min <sup>-1</sup>
Can be dismantled:	yes
Indications, e.g.:	apical resection osteotomy sequestrotomy bone modelling and bone sn extraction of wisdom te

\* also Stryker system

# Surgical contra-angle handpieces

with mini LED+ and W&H connection

CE 🕅 135°C

Туре:	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	9 LC / EM-19	
Lighting system:		mini-	LED+	
External spray:	sin	igle	tri	ple
Internal bur cooling system:	Kirschner/Meyer	-	-	-
Chucking system:		push-but	ton chuck	
Rotary instruments:	for surgical burs and cutters with contra-angled shank Ø 2.35 mm FG shank Ø 1.6 mm			
Maximum drive speed:	50,000 min-1			
Can be dismantled:	yes			
Indications, e.g.:	preparation of the implant site implant insertion	osteotomy sequestrotomy germectomy hemisection		access in the d molar region

1-19
Ø 2.35 mm*
smoothing teeth

# Surgical handpieces with mini LED+ and generator

# CE 🕅 135°C 0297 🕅 555

Туре:	S-9 L G S-11 L G
Transmission ratio:	1:1
Coupling system:	ISO 3964 (DIN 13940)
Lighting system:	mini-LED+
Power supply:	via independent generator
Light quality:	daylight
Spray:	external
Chucking system:	lever chuck
Rotary instruments: Permitted bur length:	for surgical burs and cutters Ø 2.35 mm* 45 mm
Maximum drive speed:	40,000 min-1
Can be dismantled:	yes
Indications, e.g.:	apical resection osteotomy apical trepanning bone modelling

\* also Stryker system

# Surgical handpieces without light

# **C €** ₩ <sup>135°C</sup> 555

Туре:	S-9 / S-11	S-15	S-10	S-12
Transmission ratio:	1:1	1:1	1:1	1:2
Coupling system:		ISO 3964 (	DIN 13940)	
Spray:		exte	ernal	
Chucking system:		lever	chuck	
Rotary instruments: Permitted bur length:	for surgical burs and cutters Ø 2.35 mm* 45 mm 70 mm			mm
Maximum drive speed:	50,000 min <sup>-1</sup> 30,000 min <sup>-1</sup>		50,000 min <sup>-1</sup>	40,000 min <sup>-1</sup>
Can be dismantled:	ja			
Indications, e.g.:	apical resection osteotomy apical trepanning bone modelling	osteotomy for difficult to access areas		

\* also Stryker system

# Surgical contra-angle handpieces

with mini LED+ and generator

# CE 🕅 👫

Туре:	WS-75 L G	ws
Transmission ratio:	20:1	
Coupling system:		
Lighting system:		
Power supply:		
Light quality:		
External spray:	sin	gle
Internal bur cooling system:	Kirschner/Meyer	
Chucking system:		
Rotary instruments:	contra-angled st	nank Ø 2.35
Maximum drive speed:		
Can be dismantled:		
Indications, e.g.:	implantation osteotomy	max mandibu gerr sequ

# Surgical contra-angle handpieces without light

# CE M 135°C

Туре:	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 (	(DIN 13940)	
External spray:	sir	igle	tri	ple
Internal bur cooling system:	Kirschner/Meyer	-	-	-
Chucking system:	push-button chuck			
Rotary instruments:	for surgical burs and cutters with contra-angled shank Ø 2.35 mm FG shank Ø 1.6 mm			
Maximum drive speed:	50,000 min <sup>-1</sup>			
Can be dismantled:	yes			
Indications, e.g.:	implantation osteotomy	maxillary and mandibular osteotomy germectomy sequestrotomy	hemisection extraction of wisdom teeth	

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

VS-56 L G	WS-91 L G	WS-92 L G		
1:1	1:	2.7		
ISO 3964 (DIN 13940)				
mini-LED+				
via independent generator				
day	light			
	tri	ple		
-	-	-		
push-button chuck				
for surgical burs 35 mm	rs and cutters with FG shank Ø 1.6 mm			
40,000 min <sup>-1</sup>				
ye	es			
axillary and bular osteotomy ermectomy questrotomy	hemisection extraction of wisdom teeth			

# **Prosthodontic screwdriver** IA-400

**CE** 0297

# Handpiece drive IA-40 H

Battery type:	Li-Ion	
Battery voltage:	3.7 V	
Rated capacity:	680 mAh	
Speed of the instrument:	25 min <sup>-1</sup>	
Torque:	8 – 40 Ncm	
Charging time:	approx. 100 minutes	
Battery capacity:	approx. 40 screws at average torque	
Weight:	90 g	

#### Charging station

Mains voltage:	220 – 240 V
Frequency:	50 – 60 Hz
Rated current:	0.08 – 0.12 A
Power:	5 W
Weight:	345 g

#### Contra-angle handpiece IA-80\*

Transmission ratio:	80:1			
Coupling system:	W&H special coupling			
* The contra-angle handpiece IA-80 is thermo				

\* The contra-angle handpiece IA-80 is thermo washer disinfectable and sterilizable up to 135 °C

# Piezomed

Туре:	SA-320
Mains voltage:	220 – 240 V / 100 – 130 V
Permissible voltage fluctuation:	±10 %
Rated current:	0.1 – 0.5 A / 0.1 – 1.0 A
Frequency:	50 – 60 Hz
Maximum power consumption:	90 VA
Maximum power output:	24 W
Operating frequency:	22 – 35 kHz
Coolant flow volume at 100%:	at least 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 Dongle

# Accessories for

Implantmed, Elcomed and Piezomed







# Coolant hose

- Precise fit
- Save time for your dental assistants
- Safety for your Implantmed

# Surgical trolley

- Your W&H control units in one compact location
- Space-saving
- Mobile

# Transportation case

- Securely packed for travel
- Space for Implantmed, foot
- control, W&H Osstell ISQ module, straight and
- contra-angle handpieces
- Also available for Elcomed and Piezomed

W&H Dentalwerk Bürmoos GmbH

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