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Synea Turbines

Precision that
creates confidence.



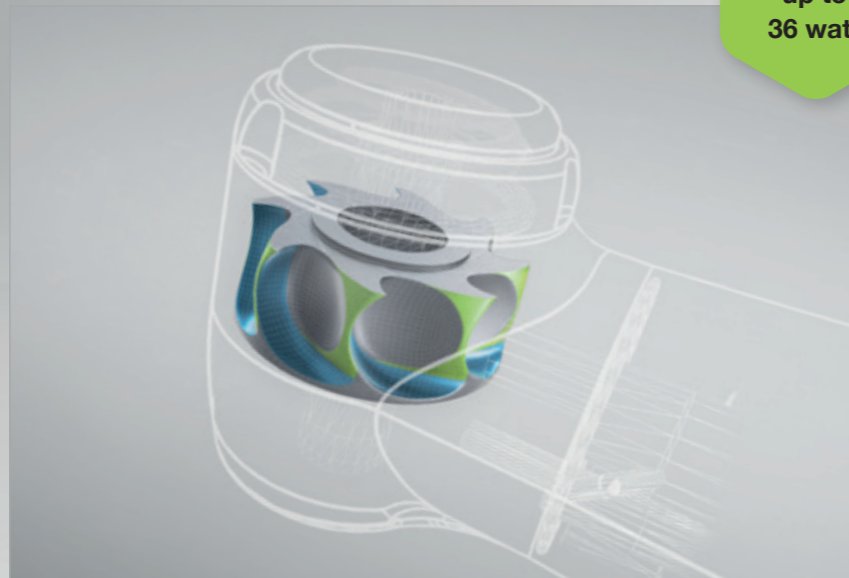
synea

Turbines for the highest demands



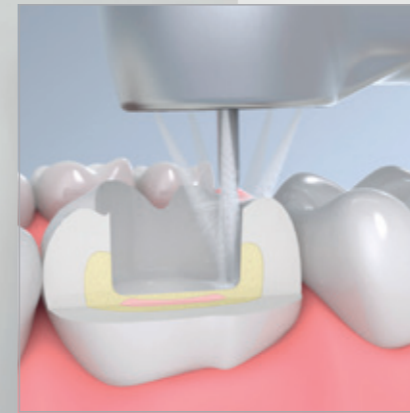
Synea turbines from W&H are specially designed for everyday clinical use and meet the high demands of modern dentistry. With consistently high performance, uncompromising hygiene, ergonomic design, and a long service life, both Synea lines – Vision and Fusion – stand for efficiency, comfort, and reliability. While Synea Vision impresses with its completely shadow-free illumination of the treatment site, Synea Fusion combines proven quality with maximum cost-effectiveness – and is now even more attractive thanks to ScratchBlocker coating and extended warranty period.

Power up to 36 watt



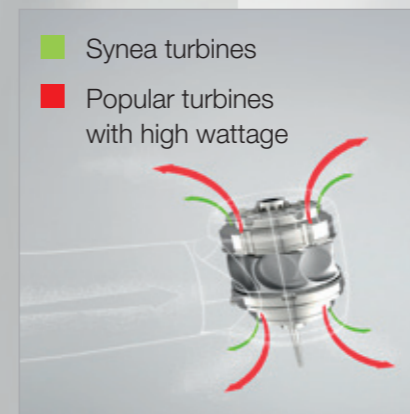
High removal rate with the Power Blade rotor

The optimised blade geometry achieves greater efficiency at the rotor blade and thus excellent torque: for maximum cutting capacity and outstanding removal rate throughout the entire preparation process.



Pulp protection with 4- or 5-fold spray

Multiple spray reliably prevents temperature increases, as cooling is provided from different directions. Even if individual jets are covered or sucked away, the preparation field remains constantly cooled and rinsed – protecting the pulp from thermal damage, providing a debris-free, clear view, and ensuring optimum cutting performance.



■ Synea turbines
■ Popular turbines with high wattage

Powerful performance without compromise

Compared to other turbines with similar wattage, the air outlet at the head of Synea turbines is minimal even at maximum power – for added efficiency, hygiene, and comfort.



Hygienic head system with integrated suction stop

The patented hygienic head system supports the highest standards in patient and practice safety: circulating air in the turbine head effectively prevents the suction of aerosol particles when the rotor slows down, thus minimising the risk of contamination and infection.

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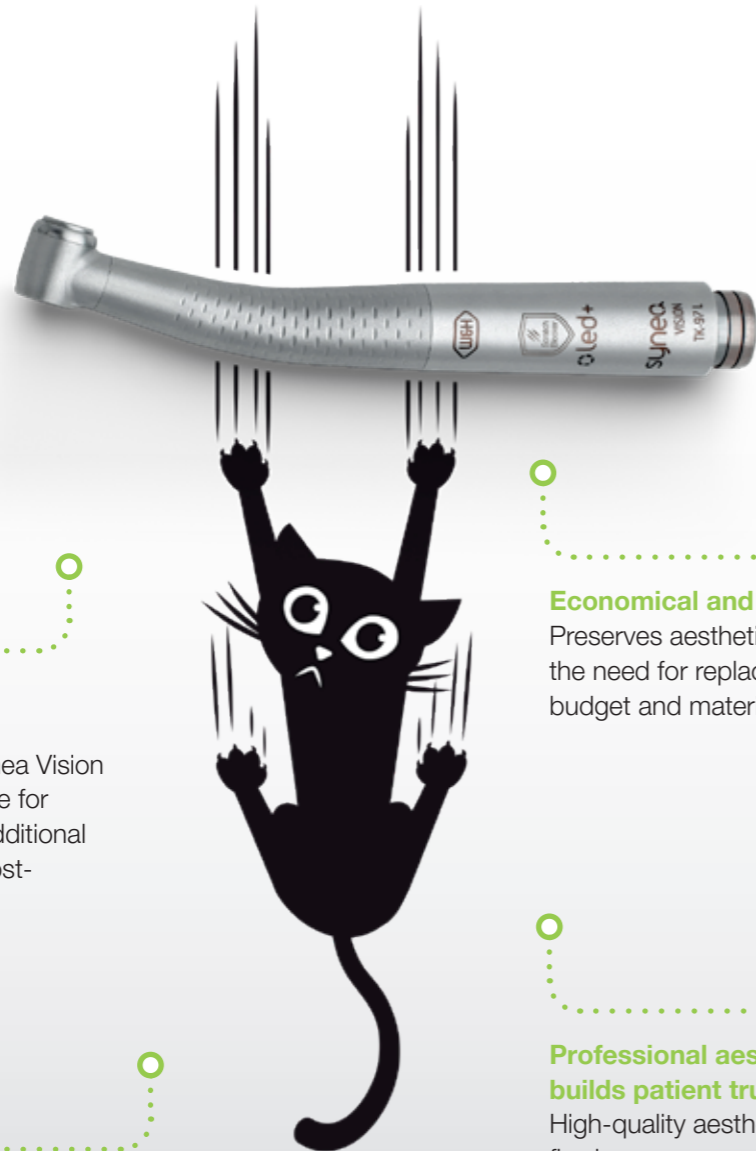


Scratch-resistant and robust With ScratchBlocker coating

W&H ScratchBlocker technology, a special silicon oxide coating, provides reliable protection against signs of wear for many years and preserves the flawless appearance for an aesthetic, professional look. This allows you to benefit from the long-term value retention of your turbines, meet the highest clinical standards, and strengthen the trust of your patients.



Now also available for Synea Fusion turbines



High level of protection, high value retention

Established standard for Synea Vision products – now also available for Synea Fusion turbines: an additional advantage for sustainable cost-effectiveness and long-term value retention.

Highly hygienic and easy to clean

Scratch-free surfaces prevent germs and microorganisms from adhering, making thorough cleaning easier. This speeds up the reprocessing process – for highly efficient infection control.

Economical and sustainable
Preserves aesthetics and reduces the need for replacement, saving budget and material resources.

Professional aesthetics builds patient trust
High-quality aesthetics and a flawless appearance emphasise the professional image of the practice, strengthen patient trust, and can ultimately influence the entire treatment experience.

Synea turbines in comparison



	Synea Vision	Synea Fusion
Efficient removal rate: optimal torque with the Power Blade rotor for maximum cutting capacity – for efficient and precise treatment of tooth structure.	up to 36 W	up to 29 W
Robust & durable: reliable performance thanks to the use of high-quality materials and solid construction.	✓	✓
Flawless appearance with ScratchBlocker coating: reliably protects against signs of wear for many years and maintains an aesthetic professional look for a long time – ensuring long-term value retention and even greater patient confidence.	✓	✓
Optimal illumination: innovative LED+ technology with high light intensity and high-contrast display – for better visibility of the treatment site and greater comfort during preparation.	5-fold Ring LED+ led+	LED+ led+
Constant cooling and irrigation: reduces thermal stress and flushes debris from the preparation site – for a clear view and maximum cutting performance.	5-fold spray	4-fold spray
Most lightweight turbine system in the world: in combination with Roto Quick coupling – low weight, ergonomic design, and optimum balance for relaxed, fatigue-free working.	✓	✓
Smooth & quiet: smooth running and quiet operation thanks to modern ceramic ball bearings – for maximum precision and comfort.	✓	✓
Hygienically designed: thermally disinfectable and sterilizable, with integrated water filter, patented hygiene head system and smooth surfaces that prevent dirt from adhering and facilitate cleaning – for superior infection control and optimised reprocessing workflows.	✓	✓
24-month warranty: reduces the risk of unexpected costs and supports planning in everyday practice.	✓	✓

Wide range of applications for modern dentistry

Whether for cavity or crown preparation, filling removal, or finishing, both Synea lines support precise, professional, and patient-oriented treatment – for consistently high-quality clinical results.



Treatment and removal of composite fillings



Cavity and crown preparations



Treatment and removal of amalgam fillings



Finishing

Synea Vision: The most fabulous turbines of the world

from W&H



Simply fabulous

With the world's first 5-fold Ring LED+, you benefit from completely shadow-free illumination of the preparation site. The fantastic light quality ensures a fabulous view of the entire preparation field and supports both diagnosis and therapy. Together with the Synea qualities – high performance, ergonomic design, and long service life – the turbines of the Synea Vision line are absolute world-class premium products: so precise, so powerful, and so unique that even their shadow becomes legendary.



Precision in a new light

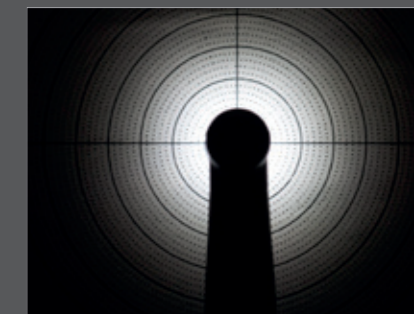
The world's first sterilizable turbines with 5-fold Ring LED+ stand for maximum precision and reliability. With optimised light and visibility conditions, they assist in the treatment of cavities – for reliable diagnosis and excellent preparation results – day after day.



Illumination right into the cavity

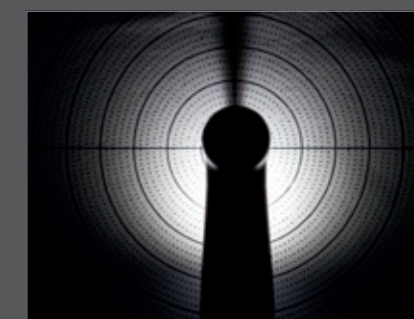
Synea Vision turbines are the only ones in the world that feature light in the axis of the rotary instrument. This means that the preparation site is illuminated not only from the mesial side, but simultaneously from the buccal, distal, and lingual/palatal sides – for a clear view, even of hard-to-reach areas such as the posterior molars.

synea^{VISION}



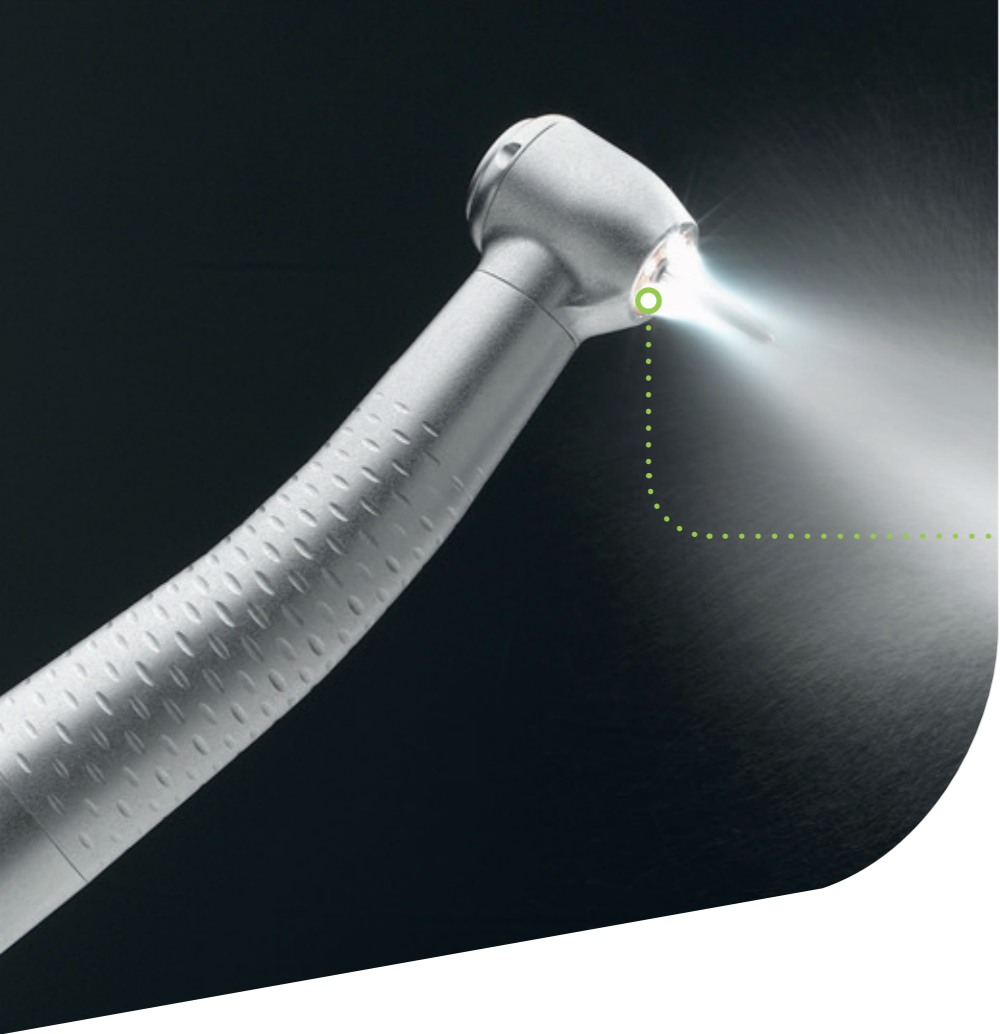
Unique worldwide: 5-fold Ring LED+

Complete illumination of the working area for a shadow-free view of the cavities.



In comparison: LED+

Rotary instrument casts shadows: incomplete illumination of the preparation site.

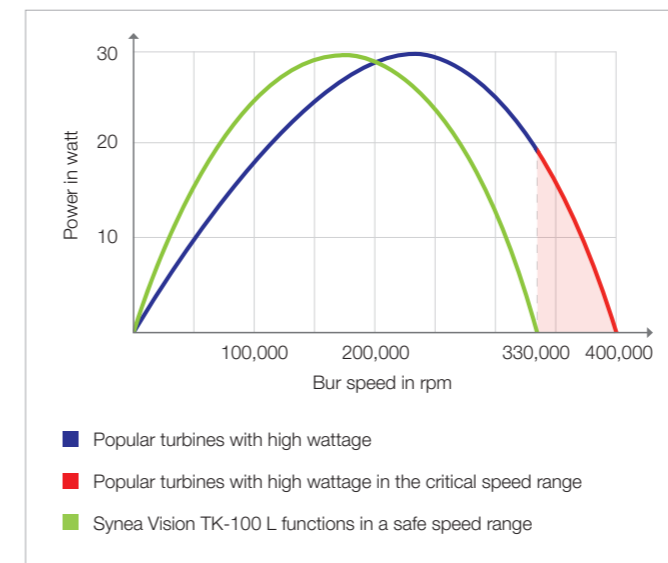


5-fold protection with 5-fold spray

5 spray ports revolutionise cooling performance and optimise visibility of the treatment site. The tip of the rotary instrument is cooled and cleaned evenly in every position – for gentler treatment and a smoother workflow.

Turbines for every situation
The power turbine and the microturbine

With its special turbines, the Synea Vision series offers solutions for specific clinical requirements. The TK-100 L **power turbine** delivers extra power for processing or removing high-strength prosthetic restorations more easily – without the typical disadvantages of high wattage, such as increased wear. The TK-94 L **microturbine** sets new standards in dental microsurgery with its exceptionally small head – for better access, a clear view, and greater comfort. Synea Vision thus combines performance and precision in modern restorative and prosthetic treatments.



TK-100 L power turbine:
Uncompromising service life

Impressive performance due to optimal use of the torque without exhausting the maximum speed. This ensures high power for efficient removal performance and is gentle on the rotor's sensitive ball bearings, protecting them in the long term – for a completely new working experience, without any negative consequences for wear, noise, smooth running, and air leakage at the head.



TK-94 L microturbine:
Small head, big benefits

With its extra-small head, the Synea Vision microturbine offers exceptional visibility and enables precise work even in hard-to-reach areas. This is particularly beneficial for patients with limited mouth opening, such as children or elderly people.



Dr med. dent. Martin Schiffli
Salzburg, Austria

“The innovative lighting concept of the W&H turbine with 5× Ring LED+ ensures full light intensity at the treatment point even under difficult conditions.”



Dr Sunil Hirani
BSc (Hons), BDS, MSc, FDSRCS (Eng), MOrthRCS (Eng), FDS (Orth)SmileLux, Milton Keynes, United Kingdom

“The Synea Vision turbine is perhaps one of the best handpieces I have ever used. This is attributed to its lightweight, excellent torque and superb Ring LED+ light source, especially in very difficult to see areas in the posterior part of the mouth.”

Synea Fusion: The most harmonious turbines in the world

from W&H

ScratchBlocker &
24-month warranty
included



Efficiency in accord

Synea Fusion turbines combine premium quality with maximum cost-effectiveness to create a harmonious interplay of precision and efficiency. Tailored to the needs of your practice, they perform reliably at the right pace and demonstrate with every use that cost-effectiveness is not an extra, but part of the composition – a symphony of performance, durability, and cost awareness.



Turbines with maximum efficiency

Synea Fusion turbines set new standards in everyday clinical practice: they combine premium quality with clever cost-effectiveness, making top performance accessible for every practice. With up to 29 watt, they offer maximum torque and optimal power. Their robust design makes them renowned for their durability. And now, thanks to ScratchBlocker coating and an extended warranty period, they are even more durable and reliable. Like this, premium quality becomes an economical solution and creates real added value in everyday use.

synea FUSION

The new Synea Fusion Now even more economical



24-month warranty
for less risk and more
predictability

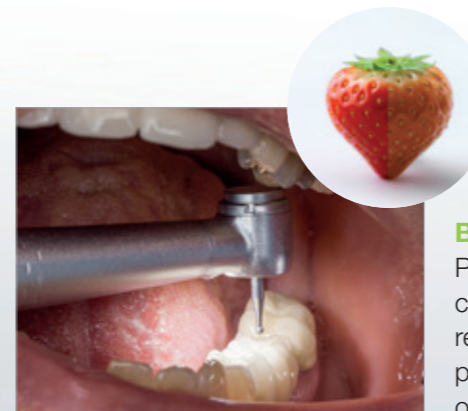


Up to 29 watt*
for maximum cutting power



ScratchBlocker coating
for high value retention

* according to ISO 14457



Better view with LED+

Powerful illumination, excellent contrast with natural colour rendering, and optimal LED positioning for the best view of the treatment site.



Wide variety

Two head sizes with different connections to suit your coupling system are available: for the best LED+ light quality, comfortable 360° rotation, and unparalleled lightness, combine your Synea turbines with the W&H Roto Quick coupling.

Synea Vision: Technical data

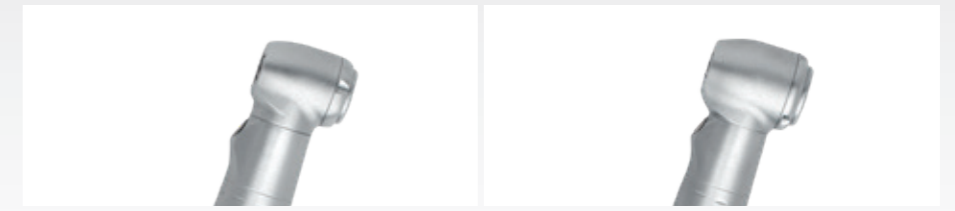


Types:	TK-94 L	TK-94 LM	TK-97 L	TK-97 LM	TK-98 L	TK-98 LM	TK-100 L	TK-100 LM
Light:	LED+	compact glass rod	Ring LED+	compact glass rod	Ring LED+	compact glass rod	Ring LED+	compact glass rod
Coupling:	Roto Quick Multiflex ^{®**}							
Head size:	Ø 9 mm		Ø 10 mm		Ø 11.5 mm		Ø 13 mm	
Head height:	17.2 mm (with bur 16 mm)		21.1 mm (with bur 19 mm)		21.4 mm (with bur 19 mm)			
Power*:	18 W	21 W	24 W	31 W	28 W	33 W	30 W	36 W
rpm (min⁻¹):	410,000 ± 30,000		400,000 ± 30,000		360,000 ± 30,000		330,000 ± 30,000	
Rotary instruments:	FG bur, according to ISO 1797-1, with Ø 1.6 mm							
Max. operating part diameter:	1.5 mm		2 mm		2 mm		2.5 mm	
Max. length:	16 mm		21 mm		25 mm		25 mm	
Weight:	39 g	67 g	38 g	68 g	40 g	69 g	40 g	70 g
Roto Quick connection operating pressure:					3 ± 0.3 bar			
Multiflex[®] connection operating pressure:					2.5 to 4 bar			
Ball bearings:	Ceramic							
Spray:	5-fold							
Hygiene head system:	Yes							
ScratchBlocker coating:	Yes							
Power Blade rotor:	Yes							
Warranty:	24 months							

* according to ISO 14457.

** Multiflex[®] is a trademark of a third party not affiliated with W&H Dentalwerk Bürmoos GmbH.

Synea Fusion: Technical data



Types:	TG-97 L	TG-97 L RM	TG-97 LM	TG-97 LN	TG-97	TG-98 L	TG-98 L RM	TG-98 LM	TG-98 LN	TG-98	
Light:	LED+		compact glass rod			-	LED+		compact glass rod		-
Coupling:	Roto Quick: TG-97, TG-97 L RM connection: TG-97 L RM Multiflex ^{®**} ; TG-97 LM NSK Mach ^{®**} ; TG-97 L N					Roto Quick: TG-98, TG-98 L RM connection: TG-98 L RM Multiflex ^{®**} ; TG-98 LM NSK Mach ^{®**} ; TG-98 L N					
Head size:	Ø 10 mm					Ø 11.5 mm					
Head height:	21.1 mm (with bur 19 mm)					21.4 mm (with bur 19 mm)					
Power*:	23 W	22 W	24 W	20 W	21 W	28 W	26 W	29 W	24 W	24 W	
rpm (min⁻¹):	390,000 ± 30,000					360,000 ± 30,000					
Rotary instruments:	FG bur, according to ISO 1797, with Ø 1.6 mm										
Max. operating part diameter:	2 mm					2 mm					
Max. length:	21 mm					25 mm					
Weight:	40 g	43 g	68 g	50 g	40 g	40 g	44 g	70 g	52 g	42 g	
Roto Quick connection operating pressure:						3 ± 0.3 bar					
Multiflex[®] connection operating pressure:						2.5 to 4 bar					
Ball bearings:	Ceramic										
Spray:	4-fold										
Hygiene head system:	Yes										
ScratchBlocker coating:	Yes										
Power Blade rotor:	Yes										
Warranty:	24 months										

* according to ISO 14457.

** Multiflex[®] and NSK Mach[®] are trademarks of a third party not affiliated with W&H Dentalwerk Bürmoos GmbH.

synea VISION



Power up to 36 watt

W&H Roto Quick coupling enables the versatile use of instruments with Ring LED+, LED+, LED, and halogen light

- › Click and pull
- › Continuous regulation of the spray water supply
- › Clean head system
- › Sterilizable
- › 24 months warranty



W&H RM-34 LED coupling for Multiflex^{®} connection**

- › Use of LED without requiring changes to an optic dental unit
- › Long LED service life
- › Continuous regulation of the spray water supply
- › Clean head system
- › 24 months warranty



Power up to 29 watt

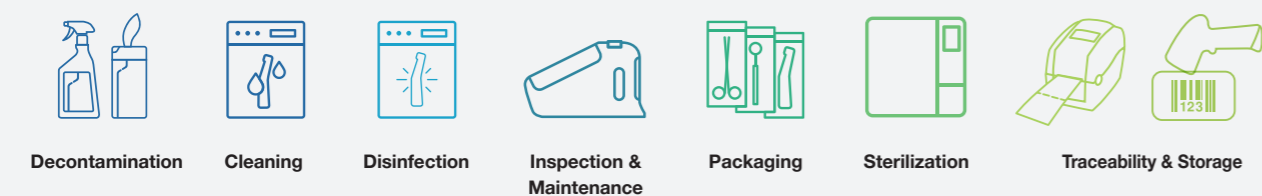
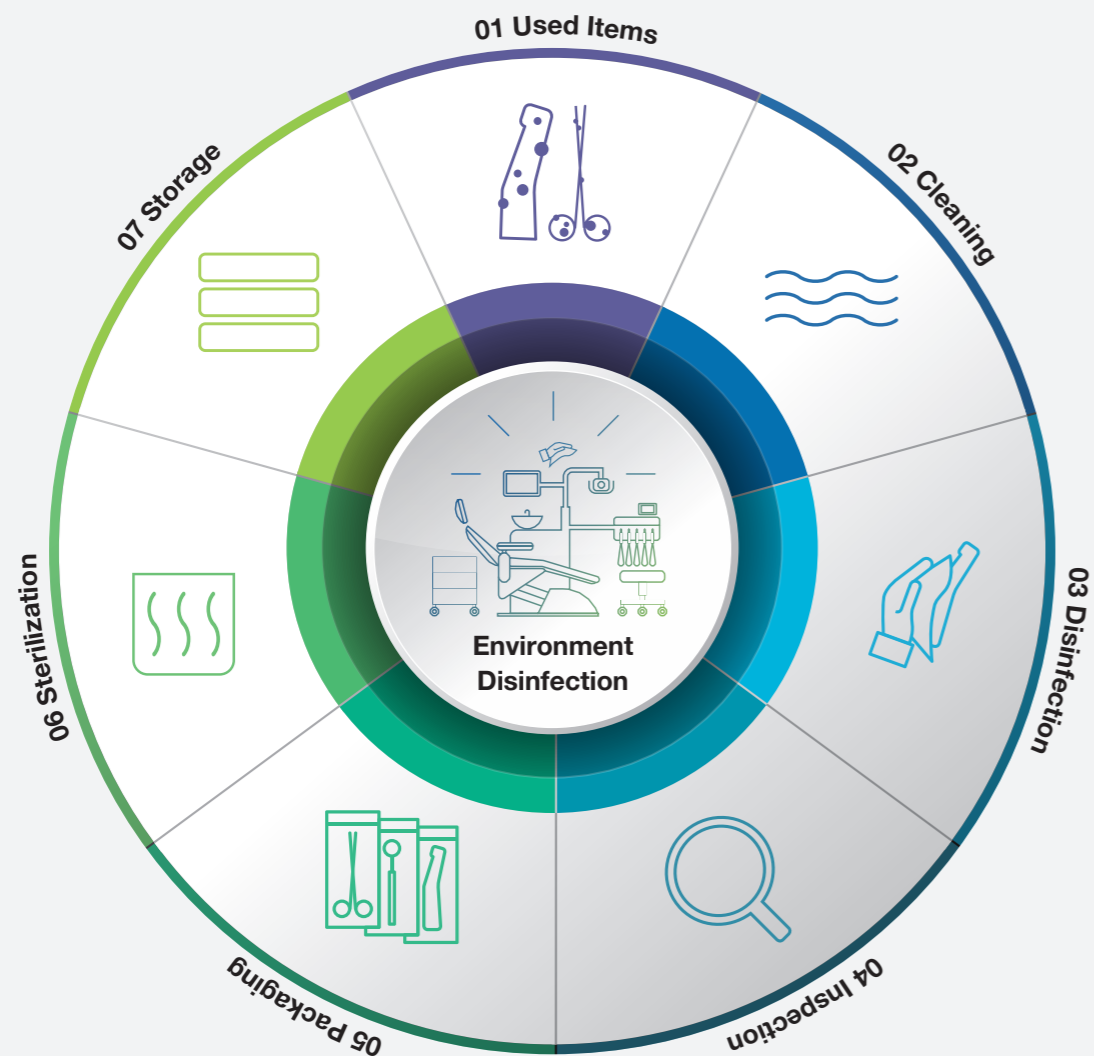
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W&H AIMS
Safety first!

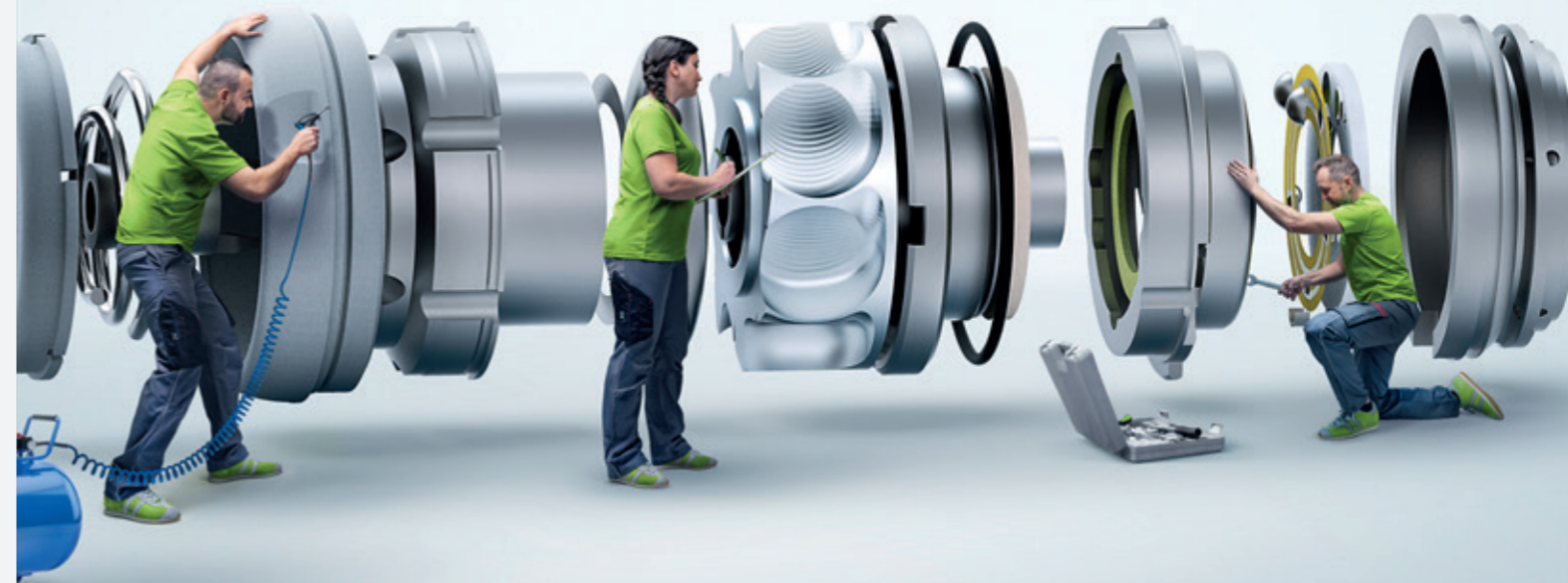


Hygiene is extremely important in the dental practice. W&H AIMS is here to help: with a wide product portfolio, fundamental knowledge, and all relevant information at a glance.

For your safety and the safety of your patients. aims.wh.com



Real pros.
 Real insiders.



From professionals for professionals.

Whoever has developed a product knows best how it works. Everyone who daily works with technology knows it better than anyone else. This is exactly what distinguishes the W&H ProService technicians. They are real insiders with more W&H know-how and thus more competence for your W&H products. When it comes to service, you should only trust in genuine W&H original quality – this way you benefit from the best possible performance and maximum safety.

W&H ProService: Real pros. Real benefits.



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