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Turbines without a dark side



syneco



syneca VISION

The instrument range that meets the highest demands. High-end turbines with ultimate technology!

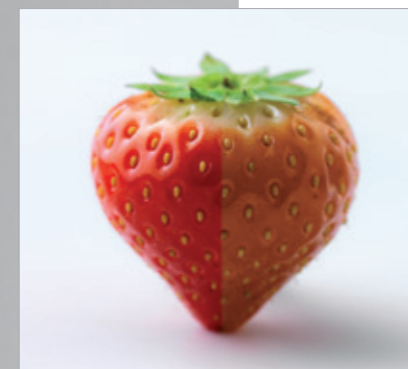


syneca FUSION

The instrument range for maximum economy. Proven Syneca quality is more accessible than ever before, whatever your budget!

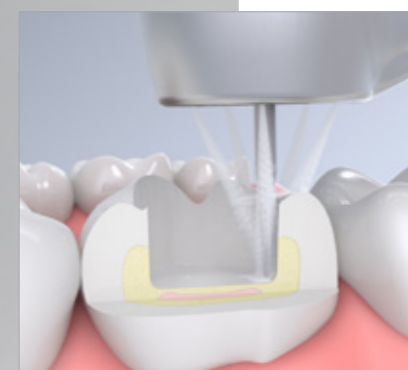
Turbines that meet the highest demands

High-end technology for excellent preparation results: Both of the Syneca turbine lines are characterised by high performance, optimal ergonomics and outstanding value for money. Syneca Vision is symbolic of innovations such as the sterilizable 5x Ring LED+ and Syneca Fusion promises top quality combined with unbeatable cost-efficiency.



See better

Optimal contrast and natural illumination with maximal colour rendering with LED+.



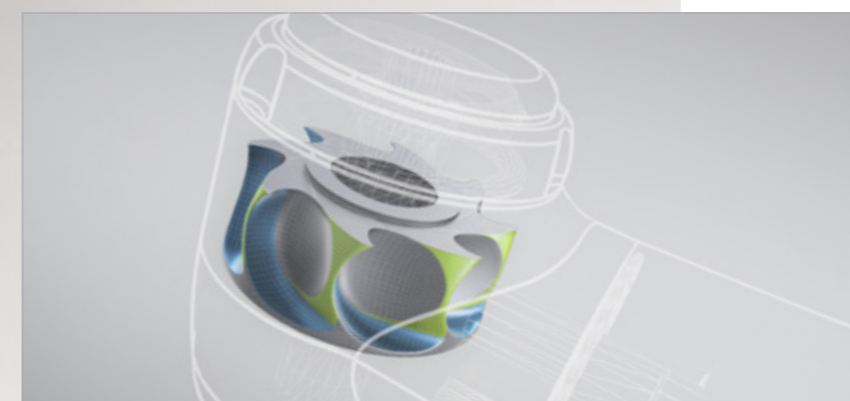
Optimum cooling

Thanks to the 4x or 5x spray, the bur tip is optimally cooled in every application position.



Patented hygienic head system

The circulating air in the turbine head ensures no aerosol particles are sucked into the turbine as the rotor slows down.



Full steam ahead with the Power Blade rotor

The optimized blade geometry allows higher rotor efficiency. For maximum torque and optimal power throughout preparation.



Ergonomic, lightweight and quiet

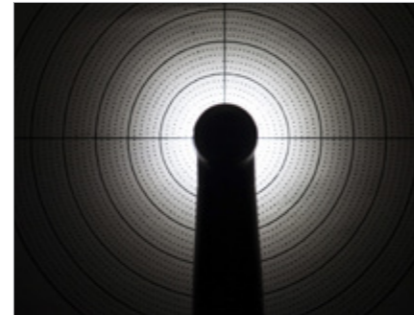
Relaxed, fatigue-free working with noticeably more lightweight turbine system.

Synea Vision:

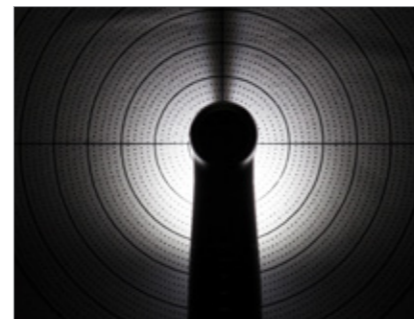
The dream that has become reality

The world's first sterilizable turbine handpieces with 5x Ring LED+ not only amaze with their shadowless illumination, but prove to be turbines of the highest quality in all other respects too. Discover a completely new working experience – with absolutely no shadows.

synea^{VISION}



Synea Vision Ring LED+
Shadowless illumination of the treatment site with the unique 5x Ring LED+.



Synea Fusion in comparison with basic LED+.



led+

Comfort to the power of 5!
Five LEDs and five spray ports revolutionise visual comfort and ease of use.

Synea Vision:

Power turbine TK-100 L
and microturbine TK-94 L

The TK-100 L is the power turbine with absolutely no shadows. It offers extra high performance without undesirable side effects such as high wear and tear or air escaping from the head of the turbine. With its extra small head, the TK-94 L is perfect for minimally invasive procedures and provides optimal access to the treatment site.

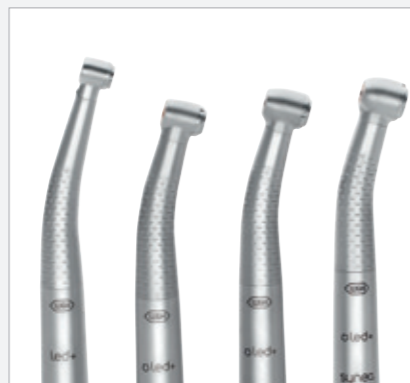


Tiny head, great advantages
With a head diameter of only 9 mm and an overall head height of 17.2 mm with a 16 mm bur attached patients with a limited access, such as children and the elderly, benefit especially.



Further advantages at a glance

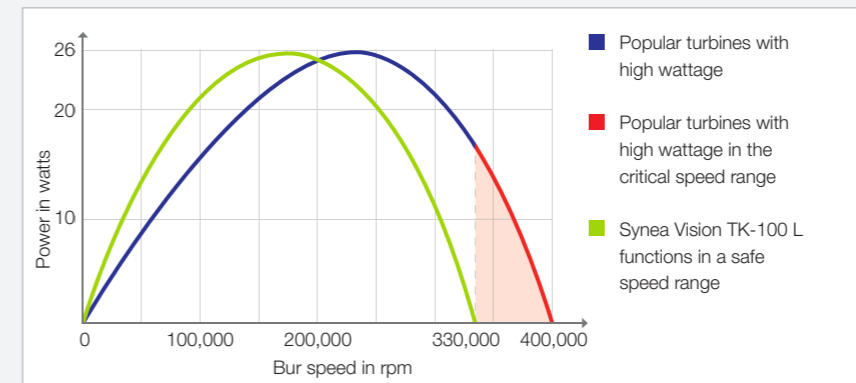
- › Outstanding ergonomics
- › Low weight
- › Best balance
- › Non-slip grip profile
- › Especially quiet rotor
- › Low-noise operation
- › Ceramic ball bearings
- › Hygienic head system
- › Long service life
- › Quality made in Austria
- › Thermo washer disinfectable and sterilizable



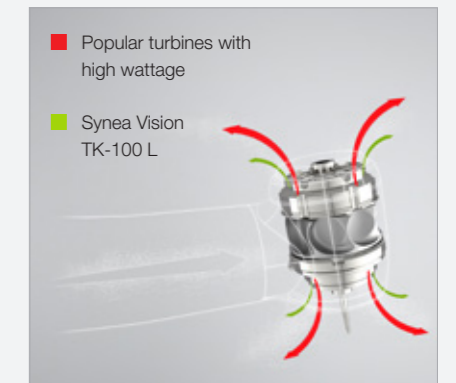
Tailor-made turbines
The right head size for optimal access to the treatment site in every application.



Extraordinary value retention
Like new every day with the special, scratch-resistant coating.



Service life with no compromises
Improved performance due to optimal use of the torque without exhausting the maximum speed. This reliably ensures high power and is gentle on the rotor's ball bearings for a long time.



Hygiene with no compromises
Minimal escape of air at the head maximum capacity for added efficiency and unbeatable hygiene.

User experiences



Dr. med.dent. Martin Schiffli
Salzburg, Austria

“The innovative lighting concept of the W&H turbine with 5x 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.”



DDR Mats Bäckström Falun
Sweden

“Excellent torque supports efficient removal of natural tooth substance as well as high-strength denture materials.”



Synea Vision: Technical data



| Types with integrated ceramic ball bearings: | 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 |
| CRI (LED version): | > 90 | > 90 | > 90 | > 90 |
| Colour temperature: (LED version): | 5,500 K | 5,500 K | 5,500 K | 5,500 K |
| Coupling: | 1 Roto Quick 2 Multiflex**** | 1 Roto Quick 2 Multiflex**** | 1 Roto Quick 2 Multiflex**** | 1 Roto Quick 2 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) | 21.4 mm (with bur 19 mm) |
| Power*: | 14 W | 21 W | 24 W | 26 W |
| rpm (min⁻¹): | 410,000 ± 30,000 | 400,000 ± 30,000 | 360,000 ± 30,000 | 330,000 ± 30,000 |
| Rotary instruments: | FG bur, as per 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 | 3 ± 0,3 bar | 3 ± 0,3 bar | 3 ± 0,3 bar |
| Multiflex® connection operating pressure: | 2.5 to 4 bar | 2.5 bis 4 bar | 2.5 bis 4 bar | 2.5 bis 4 bar |
| Spray: | 5x | 5x | 5x | 5x |

* Performance value applies at a rated pressure of 3 bar and exhaust air pressure of max. 0.2 bar

** Values apply for use of RM-34 LED with DC power supply

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



W&H Roto Quick couplings enable 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-month guarantee



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-month guarantee

Synea Fusion:

Synea turbines with maximum efficiency



User comfort with no compromises and top performance combined with outstanding cost-efficiency: Discover the advantages of the new Synea Fusion line!

Further advantages at a glance

- › Outstanding ergonomics
- › Low weight
- › Especially quiet rotor
- › Low-noise operation
- › Ceramic ball bearings
- › Hygienic head system
- › Long service life
- › Quality made in Austria
- › Thermo washer disinfectable and sterilizable



Optimum cooling of four sides
Constant cooling and optimal cleaning of the treatment site thanks to 4x spray.



Experience LED+
Excellent illumination with natural colour rendering and optimal positioning of the LED.



The choice is yours

Choose between the two different head sizes and then select the connection which suits your coupling system. The W&H Roto Quick offers you unbeatable LED+ light and convenient 360° rotation.

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 + / LED + / compact glass rod / compact glass rod /- | LED + / LED + / compact glass rod / compact glass rod /- |
| CRI (LED version): | > 90 | > 90 |
| Colour temperature (LED version): | 5,500 K | 5,500 K |
| Coupling: | 1 Roto Quick RM-connection 2 Multiflex [®] *** NSK Mach [®] *** | 1 Roto Quick RM-connection 2 Multiflex [®] *** NSK Mach [®] *** |
| 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*: | 18 W | 21 W |
| rpm (min ⁻¹): | 390,000 ± 30,000 | 360,000 ± 30,000 |
| Rotary instruments: | FG bur, as per ISO 1797-1, 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 / 52 g / 40 g | 42 g / 44 g / 70 g / 53 g / 42 g |
| Roto Quick connection operating pressure: | 3 ± 0,3 bar | 3 ± 0,3 bar |
| Multiflex [®] connection operating pressure: | 2.5 to 4 bar | 2.5 to 4 bar |
| Spray: | 4x | 4x |

* Performance value applies at a rated pressure of 3 bar and exhaust air pressure of max. 0.2 bar

** Values apply for use of RM-34 LED with DC power supply

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

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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-month guarantee

Advanced Infection prevention Management Solutions

W&H AIMS provides a **step-by-step hygiene and reprocessing workflow** to interrupt the chain of infection and prolong the lifespan of instruments.



aims.wh.com



Complete product range as a holistic solution

Sterilization, hygiene and maintenance are becoming increasingly important in dental practice. W&H offers best practice hygiene protocols as a complete solution for the reprocessing of your instruments and transmission instruments.





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