



synea^H

The Top Turbine Generation

Harmonizing
Power and
Precision.



DENTAL INSTRUMENTATION

Synea HS – With Maximum Performance for Perfect Preparation.



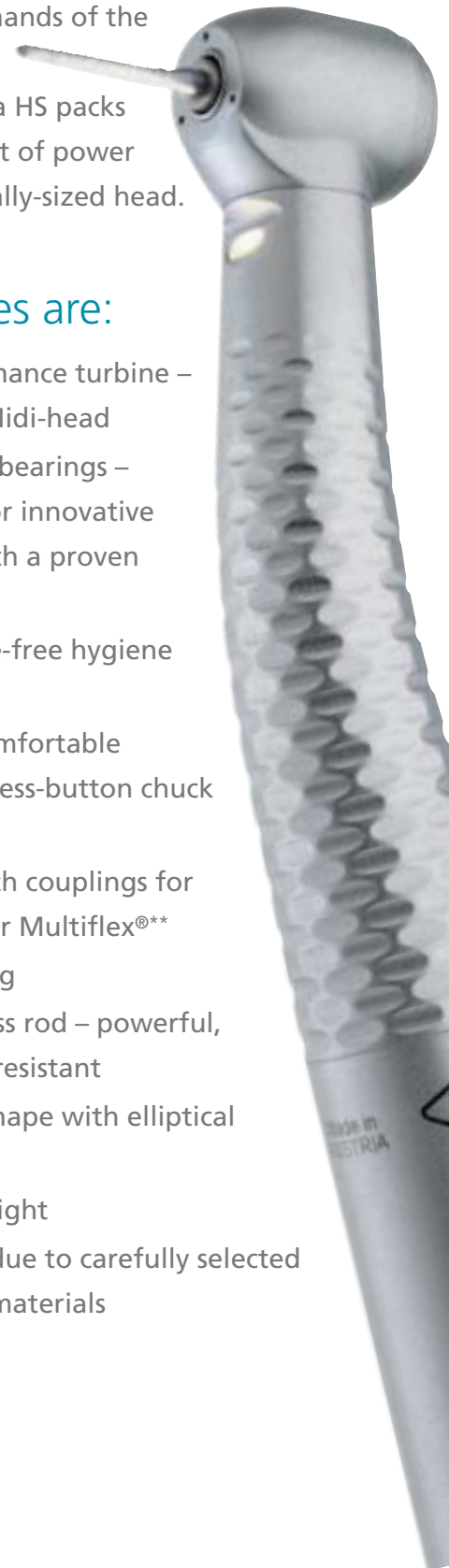
Harmony of power and precision – essential for peak performance.

High quality dental preparation is not solely dependent upon practitioner experience. The instruments used are also vitally important for a perfect result.

The range of Synea HS turbines fully meets the demands of the dental surgeon. Synea HS packs a large amount of power into an optimally-sized head.

The main advantages are:

- High performance turbine – 17 W, with Midi-head
- Integral ball bearings – classic steel or innovative ceramic – with a proven long life
- Maintenance-free hygiene head system
- Improved comfortable optimized press-button chuck system
- Available with couplings for Roto Quick or Multiflex®**
- Quiet running
- Compact glass rod – powerful, sterilization resistant
- Ergonomic shape with elliptical grip profile
- Very lightweight
- Longevity – due to carefully selected component materials



Maximum Performance Begins Within the Head.

The Synea HS Midi-head turbines have 17 W of performance, and their compact head size and shape provide an optimum view of the treatment area. Your preparations will be easier, safer, and quicker.

A Clean Solution. A distinct benefit of Synea HS lies in its hygiene head system. This keeps the turbine head free from micro-particles and ensures a longer life span. This is achieved by means of the W&H patented flow technique – with no moving parts, and therefore absolutely maintenance-free.



Perfect technology, first class materials, integral ceramic ball bearings with significantly longer life.

Quiet Presence. Nobody likes the typical background noise attributed to the turbines in dental practices. The Synea HS turbine genuinely runs quietly – the secret lies in its special flow technology.

Conventional turbine technology:

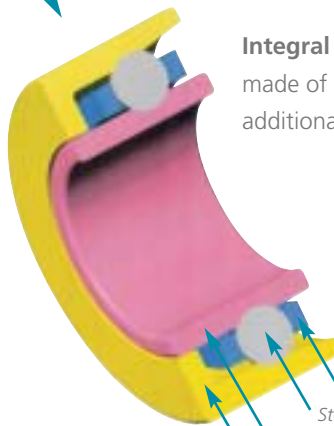


The suction effect of the rotor when it is running down drags aerosol mist and micro-particles into the turbine head.

Synea hygiene head system:



The patented flow technique has no moving parts so is entirely maintenance-free. It eliminates the entire suction effect, so the head stays clean. This is hygienic and protects the precision parts within the instrument head.



Integral Ball Bearings. Integral ball bearings are made of classic steel, or innovative ceramic for an additional increase in life span.

- Cage – high-performance material
- Steel or ceramic ball bearings – for concentric smooth running
- Inner ring – precision material for vibration-free rotation
- Outer race with integrated cover disk – greater stability for longer life span



The Synea HS and You: A Perfect Combination.



Synea HS: power and precision for a perfect treatment result.

A turbine such as the Synea HS brings power and precision to every preparation – aided by its illuminating power. The outlet provides an excellent light intensity profile, enhancing visibility across the preparation site and its immediate vicinity. This increases the precision and safety of the procedure.



Optimal light output and pattern for excellent illumination of the preparation site.

Refreshing Performance.

The optimized triple spray of the Synea HS Midi-head turbines ensures exceptional cooling of the preparation site. The three spray outlets nebulize water into particularly fine droplets – this provides the best cooling possible.

An Illuminating Presence.

Behind the powerful illumination provided by Synea turbines with light is the unique compact glass rod. This is extremely robust and delivers a particularly bright, precise light – even after many thousand sterilizations.

Handles With Ease. The light weight of Synea HS allows relaxed and stress-free working.

Sure Hold with Ease.

The press-button chuck system has been improved still further. The chuck provides optimal retention, and the rotary implements are extremely easy to change by depression of the press-button. This convenient system will be appreciated each time implements are changed.



The improved press-button chuck system – effective bur gripping power with minimal pressure applied.





Synea HS – Destined for a Long Career.

To guarantee a long and distinguished career, it is important to have high quality attributes.

The Synea HS integrates several excellent qualities to form a reliable instrument with a long life span and a high standard of performance. It is now available with specially developed integral ceramic ball bearings, which are impressive in terms of the material concept and their precision engineering.

A Safe Grip Every Time. An innovative elliptical grip profile was developed for the Synea HS in cooperation with experienced practitioners. This, together with its ergonomic shape, guarantees a safe and relaxed grip – especially with gloves.



Clean Presentation. The special hygienic design of the Synea HS allows particularly easy and efficient cleaning. The instrument surface is smooth and homogeneous; there are no "dirt traps", gaps or grooves.

In Dazzling Form. The Synea can of course be sterilized up to 135 °C and can be subjected to thermo washer disinfection. Its chromium-plated stainless steel surface retains its original appearance even after countless sterilizations.



Easy Rotation. The Synea HS turbines are available with either Roto Quick or Multiflex®** coupling, for ease of integration into your dental environment. This attention to detail is typical of the W&H philosophy.



Roto Quick coupling



*Multiflex®** coupling*

Guaranteed Quality. The Synea HS complies with the strict European product directives for medical equipment, and therefore holds the CE mark. Its advanced technology and superb quality are the hallmarks of a first class precision instrument. Synea HS turbines with steel ball bearings come with a one year warranty, and those with ceramic ball bearings have a two years warranty.



Technical Data:



2
years warranty
for turbines with
ceramic ball bearings



Types with integral ceramic ball bearings*):	TA-98 LC	TA-98 LCM	TA-98 C	TA-98 CM	TA-96 LC	TA-96 LCM	TA-96 C	TA-96 CM
Types with integral steel ball bearings:	TA-98 L	TA-98 LM	TA-98	TA-98 M	TA-96 L	TA-96 LM	TA-96	TA-96 M
Light:	Yes	Yes	–	–	Yes	Yes	–	–
Coupling:	Roto Quick	Multiflex®**	Roto Quick	Multiflex®**	Roto Quick	Multiflex®**	Roto Quick	Multiflex®**
Head size:	Midi Ø 11.5 mm [0.45 inch]				Mini Ø 10.5 mm [0.41 inch]			
Power:	17 W				14 W			
Speed:	350,000 rpm				370,000 rpm			
Rotary instruments	FG burs according to EN ISO 1797-1:1995				FG burs according to EN ISO 1797-1:1995			
Ø / maximum length:	1.6 / 25 mm [0.063 / 0.98 inch]				1.6 / 21 mm [0.063 / 0.83 inch]			
Weight:	48 g	70 g	55 g	69 g	46 g	69 g	54 g	68 g
Pressure level:	3 ± 0.3 bar [43.5 ± 4.5 psi] (2.2 + 0.3 bar) (2.5 up to 4 bar) (2.2 + 0.3 bar) (2.5 up to 4 bar) [(32 + 4.5 psi) [(36 up to 58 psi) [(32 + 4.5 psi) [(36 up to 58 psi) <td colspan="4">3 ± 0.3 bar [43.5 ± 4.5 psi] (2.2 + 0.3 bar) (2.5 up to 4 bar) (2.2 + 0.3 bar) (2.5 up to 4 bar) [(32 + 4.5 psi) [(36 up to 58 psi) [(32 + 4.5 psi) [(36 up to 58 psi) </td>				3 ± 0.3 bar [43.5 ± 4.5 psi] (2.2 + 0.3 bar) (2.5 up to 4 bar) (2.2 + 0.3 bar) (2.5 up to 4 bar) [(32 + 4.5 psi) [(36 up to 58 psi) [(32 + 4.5 psi) [(36 up to 58 psi)			
Air consumption:	44 l/min [1.55 CFM]				44 l/min [1.55 CFM]			
Spray flow:	up to 80 ml/min [0.02 gal/min]				up to 80 ml/min [0.02 gal/min]			
Spray:	triple				single			
Intensity of illumination:	25,000 Lux	25,000 Lux	–	–	25,000 Lux	25,000 Lux	–	–
Sound level acc. to ISO 7785-1:	65	62	65	62	68	66	68	66

* not available in all countries.

** Multiflex® is a registered trade mark of Kaltenbach & Voigt GmbH & Co. KG, Biberach

Technically perfect solutions of W&H.

Order your W&H Synea HS turbine through your specialist dealer.



DENTALWERK



ISO 13485
Annex II
93/42/EWG
EC 0297

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