

See four times more

The new Synea range with LED+



Optimal
illumination



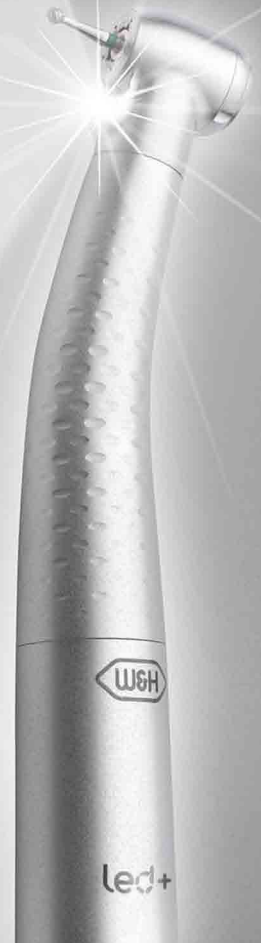
Small
head



High
colour rendering
index



Perfect
LED positioning



synea led+

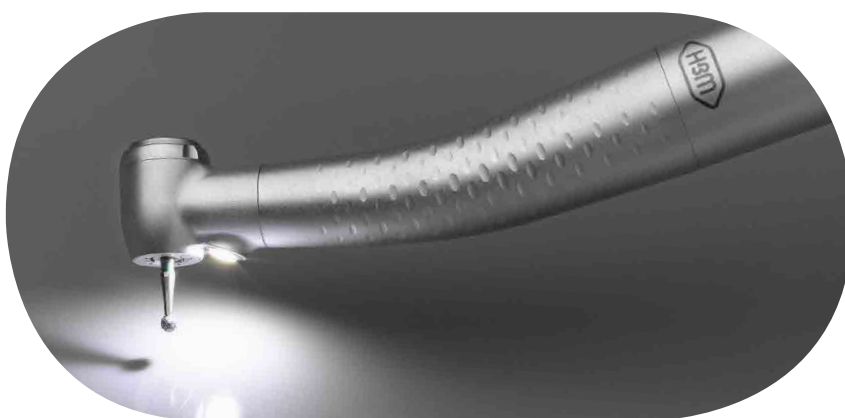
Ready for imitation

One light – four advantages: Simply the perfect combination

Optimal illumination; a colour rendering index of more than 90; a perfectly positioned LED; and a small head – discover the new Synea range with LED+.

Synea – the amazing LED+

With the new Synea LED+ range you can now see four times more clearly. The unique combination of LED advantages ensures optimum visibility of the treatment site and exceptional reproduction of natural colours.



Optimal illumination

With a colour temperature of 5,500 K, W&H instruments produce a radiation spectrum that corresponds to daylight. An integrated electronic control system guarantees W&H's trademark light quality for all optic treatment units. Fluctuations in light quality are therefore not an issue. Perfect illumination is guaranteed.



High colour rendering index

Visual clarity: the new LED instruments from W&H have an unparalleled high colour rendering index (CRI). Colours illuminated by the daylight quality light in the mouth are rendered perfectly. For the first time, it is even possible for red tones to be observed naturally.



Perfect LED positioning

By positioning the LED chip directly on the head of the instruments, W&H has created the largest possible illumination area. In addition the small distance between the LED and bur ensures the optimal illumination of cavities.

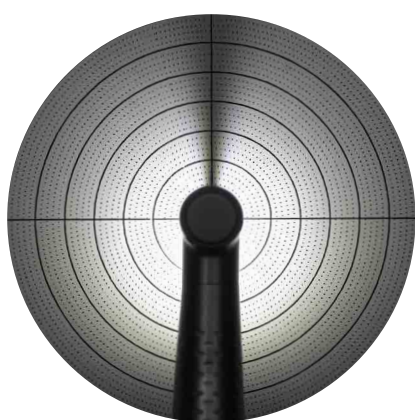


Small head

Synea LED turbines also offer maximum visibility thanks to their extremely small head sizes.

Simply no contest: Synea turbines with LED+

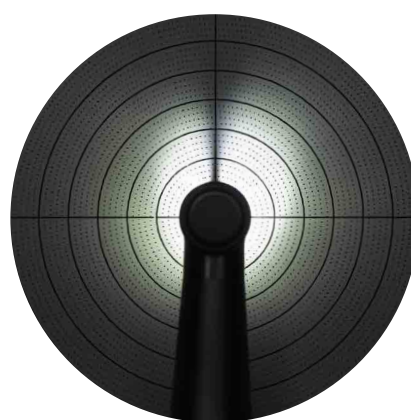
The combined features of the Synea turbines make for an unparalleled LED experience. See for yourself.



W&H*



Competitor A*



Competitor B*

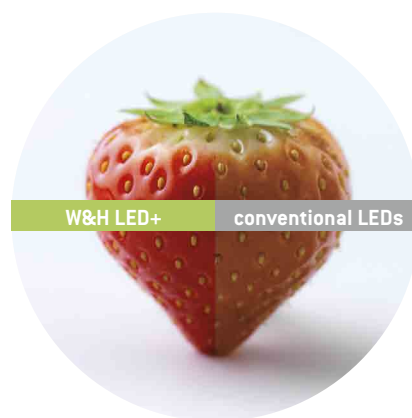
The luminosity of the Synea LED turbines is clearly superior to other solutions. The secret is the combination of LED advantages and the new plus for the Synea LED range – the colour rendering index.

Find out more about
W&H LED competence
at wh.com

High colour rendering index (CRI)

Relaxed work thanks to daylight quality light, exceptional reproduction of natural colours and clear colour contrasts. The colour rendering index of artificial light sources is very important because a high CRI value significantly improves people's sense of wellbeing and ensures greater visibility. Perfect colour rendering has an index of 100. Conventional LEDs

only have a CRI of between 60 and 80 and are ineffective in reproducing red tones – a significant disadvantage for many medical applications. However, Synea LED+ turbines use a new technology. The result is a CRI of more than 90 which means clear colour contrasts and exceptional reproduction of natural red tones in the mouth.



LED comparison:
natural red tones rendered by LED+

*All instruments were tested under identical conditions.

Synea turbines – Exciting new features combined just for you

With the TA-97 C LED and TA-98 C LED, we have developed two special turbines just for you. Take a look for yourself. The facts speak for themselves.

Synea turbines –
all the advantages at a glance:

- > Perfect LED experience thanks to:
optimal illumination,
a high colour rendering index,
perfect LED positioning and a
small head for perfect visibility
and best-possible access
- > Penta spray for optimum cooling
from five directions
- > Ceramic ball bearings – robust and
low on noise and wear
- > Completely thermo washer
disinfectable and sterilizable
- > Long lifespan
- > Light and quiet

Optimum cooling

With its five output nozzles,
the Penta spray ensures
continuous cooling and cleaning.
Even if individual nozzles are
obscured when working on a tooth,
sufficient cooling is guaranteed.

Sterilizable up to 135 °C

All Synea turbines are, of course,
thermo washer disinfectable and
sterilizable, in accordance with
the W&H standard.

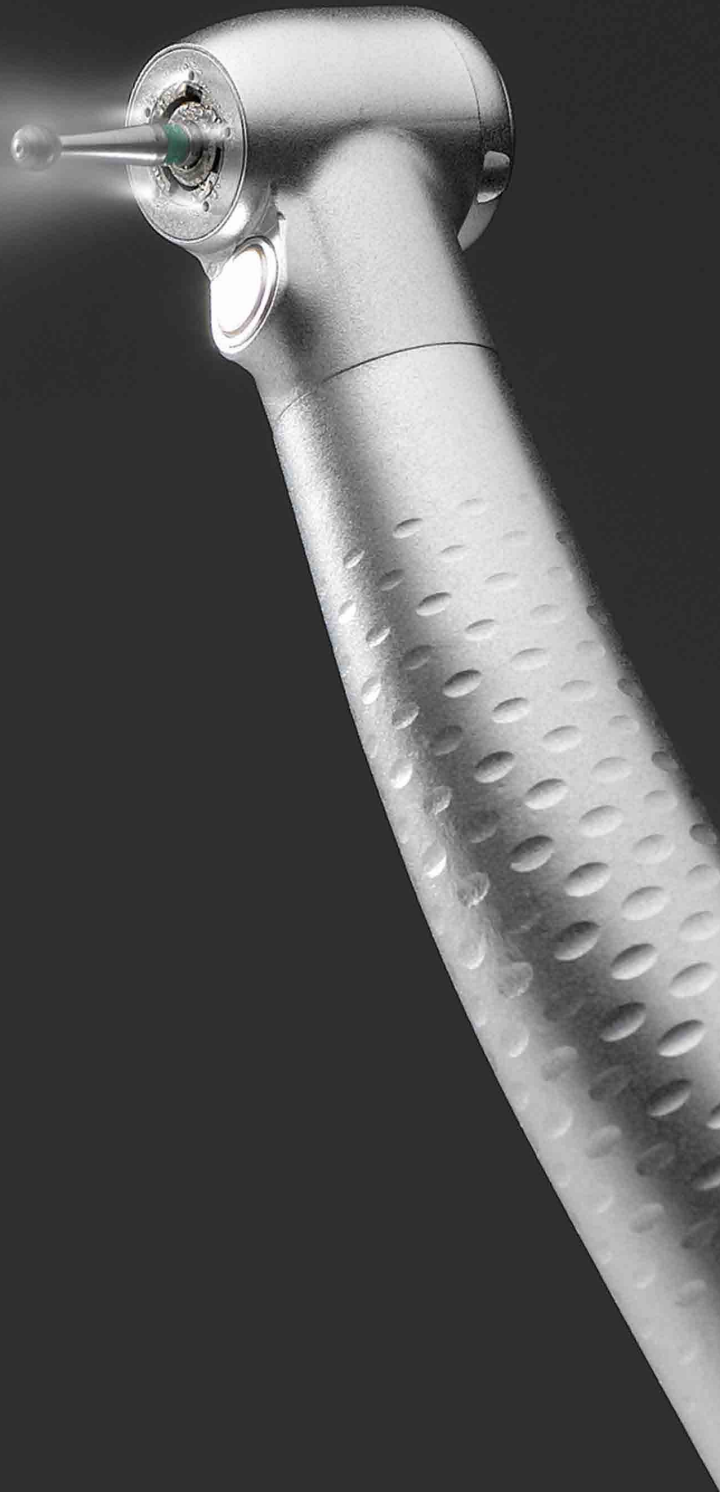


TA-97 C LED

TA-98 C LED



Synea turbines –
From innovation to perfection



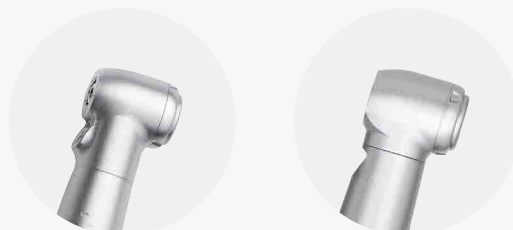
Synea TA-97 C LED in action

Technical data



Scan the QR code with
your mobile telephone for
more information on
Synea turbines

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



Types with integral
ceramic ball bearings:

TA-97 C LED / TA-98 C LED

TA-97 CLM / TA-98 CLM

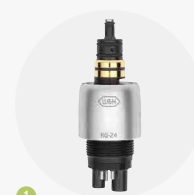
Light:	LED	LED (glass rod)*
CRI:	> 90	80*
Colour temperature:	5,500 K	5,500 K*
Luminous flux (lumen):	6.0	4.0*
Brightness:	25,000 Lux	25,000 Lux*
Coupling:	1 Roto Quick	2 Multiflex®**
Headsizes:	Ø 10 mm / Ø 11.5 mm	Ø 10 mm / Ø 11.5 mm
Head height with bur (19 mm):	21.1 mm / 21.4 mm	21.1 mm / 21.4 mm
Power:	17 W / 20 W	17 W / 20 W
Speed (rpm):	390,000 / 360,000	390,000 / 360,000
Rotary instruments:	FG burs according to EN ISO 1797-1:1995	
Diameter:	1.6 mm	1.6 mm
Max. length:	21 mm / 25 mm	21 mm / 25 mm
Weight:	40 g / 42 g	68 g / 70 g
Pressure level:	3 ± 0.3 bar	3 ± 0.3 bar (2.5 up to 4 bar)
Spray:	five-hole	five-hole
Sound level:	59 dB (A) / 57 dB (A)	59 dB (A) / 57 dB (A)

Power and speed data of air driven motors are largely dependent on the quality of the turbine hoses used
and may therefore differ from the specified values.

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

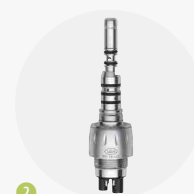
** Multiflex® is a registered trade mark of Kaltenbach & Voigt GmbH, Germany

All types are also available without light.



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

- > Click and pull
- > Continuous regulation of the spray water supply
- > Non-retraction valve
- > Sterilisable
- > 24 month guarantee



W&H RM-34 LED coupling for
Multiflex® connection

- > Use of LED without having to adapt
the dental unit
- > Long LED service life
- > Continuous regulation of the spray water supply
- > Non-retraction valve
- > 24 month guarantee

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