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# Precision, Elegance, Comfort: **Straight and contra-angle handpieces**



syneco

## The new premium straight and contra-angle handpieces from W&H

People have Priority: To make it easier to select one of our new Synea straight and contra-angle handpieces, we listened to your requirements and have now developed two new lines perfectly suited to your needs. Synea Vision: now with innovations such as special scratch-resistant coating, and Synea Fusion: a series with top quality and maximum economy.



### synea VISION

The instrument line for the highest demands. Customised straight and contra-angle handpieces with maximum precision, elegance and performance.

### synea FUSION

The efficient and economical solution. Straight and contra-angle handpieces with the well-known Synea quality have never been so affordable!



**Synea Vision Short Edition**  
The short route to better ergonomics.

## VISION FUSION



**Two instrument lines**  
New! Synea is available in Vision and Fusion lines.



**Quiet**  
Noticeably quieter – thanks to new gearing technology.



**Monoblock design**  
ergonomics cast from a single piece – for optimal hygiene.

**Customised production**  
Different head sizes for optimal access options.



**Reliability**  
Top quality for a long life.

## Synea Vision: the ultimate straight and contra-angle handpieces

A range for all applications: W&H has developed a range of top quality instruments with the new Synea Vision line. Two high-speed head sizes are available for surprising access options. And a special coating improves aesthetics even more – and extends their life.

### Instruments for the future

- › Different head sizes with 5x spray
- › Perfect ergonomics and quiet operation
- › Lasting quality
- › Scratch-resistant surface
- › Long service life



**Excellent preparation results**  
with outstandingly quiet operation  
and optimised head sizes.

synea VISION



### Small heads

Two high-speed head sizes and the world's lowest head height among slow-speeds. Also ideal for patients with limited access.

### Scratch-resistant surface

A special coating resists signs of wear – for long-lasting aesthetics and pleasure equal to that experienced on the first day.

### 5x spray

The 5x spray ensures even cooling of the treatment site under all conditions.

### Versatile range

The right straight or contra-angle handpiece for every application – in Synea quality!

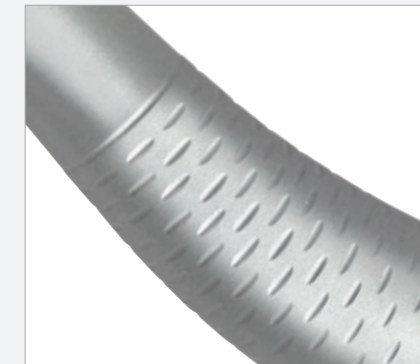
## Synea Vision Short Edition: the perfect balance between power and ergonomics

The new Synea Vision Short Edition makes the treatment process considerably easier due to the reduction in weight and length. Choose from the classic range of high and slow-speeds. The perfect balance between ergonomics and power when combined with the new, ultra-short micromotor EM-12 L.



### Small but what power

The new micromotor EM-12 L with LED for bright as daylight illumination of the treatment area.



### Scratch-resistant surface

even on the small Synea Vision contra-angle handpieces.



### Best results

due to easy access and small head sizes.

### Contra-angle handpieces for all situations

The Synea Vision Short Edition in the classic range and with two different head sizes for high-speeds.



### Perfect balance

Fit perfectly in your hand: the contra-angle handpieces of the Short Edition.



The contra-angle handpieces of the Synea Vision Short Edition can be used on micromotors with an ISO coupling length of 23 mm or less. Please check compatibility with your existing micromotors. Your specialist consultant will be glad to assist you.

# Working with a system: The Synea Vision Standard and Short Edition

Two systems, lots of advantages: whether you go for the Synea Vision Standard Version or prefer the Synea Vision Short Edition – superb quality, durability and precision will make your daily work significantly easier.

## Synea Vision Short Edition with electric motor EM-12 LED\*

Small but what power: the EM-12 LED electric motor can be used both for restoration and prosthetics as well as endodontics and prophylaxis.

## 25% lighter, 15% shorter

The combination of Synea Vision Short Edition contra-angle handpieces with the EM-12 LED electric motor considerably reduces the amount of strength required.

## It's in your hands

Decide on the solution that best suits the most important tool in your practice – your hands.



## Synea Vision standard contra-angle handpieces with EM-E8 LED electric motor

The perfect system for daily work in the practice. With instruments for all standard motors that are currently available on the market.

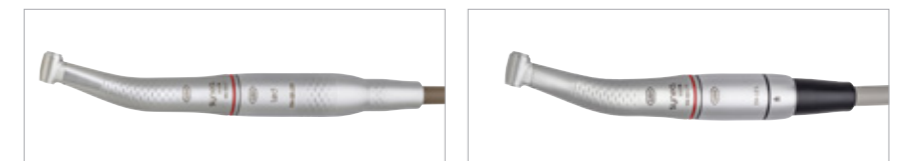
\*Available on selected dental units.



# Synea Vision: Technical data



Types with light: (compact glass rod)	WK-99 LT WK-99 LT S	WK-93 LT WK-93 LT S	WK-66 LT WK-66 LT S	WK-56 LT WK-56 LT S	WK-86 LT	HK-43 LT
<b>Head size:</b>	Ø 9.5 mm	Ø 9.1 mm	Ø 9.5 mm	Ø 9.5 mm	Ø 9.5 mm	–
<b>Head height with bur (19 mm):</b>	21.6 mm	21.2 mm	20 mm	20 mm	20 mm	–
<b>Rotary instruments:</b>	FG bur	FG bur	Contra-angle handpiece bur	Contra-angle handpiece bur	Contra-angle handpiece bur	Straight and contra-angle handpiece burs
<b>Max. operating part diameter:</b>	Ø 2.5	Ø 2	–	–	–	–
<b>Max. length:</b>	25 mm	21 mm	34 mm	34 mm	34 mm	34 mm
<b>Speed increase/reduction:</b>	1:5	1:4.5	2:1	1:1	8:1	1:1
<b>Spray:</b>	5x (> 50 ml/min)	5x (> 50 ml/min)	1x (> 50 ml/min)	1x (> 50 ml/min)	1x (> 50 ml/min)	1x (> 50 ml/min)
<b>Illuminating power in types with light:</b>	25,000 lux	25,000 lux	25,000 lux	25,000 lux	25,000 lux	25,000 lux
<b>Indications:</b>	<ul style="list-style-type: none"> <li>› Crown and cavity preparations</li> <li>› Trephining</li> <li>› Resections</li> <li>› Finishing</li> <li>› Removing fillings and metal</li> </ul>	<ul style="list-style-type: none"> <li>› Crown and cavity preparations</li> <li>› Trephining</li> <li>› Resections</li> <li>› Finishing</li> <li>› Removing fillings and metal</li> </ul>	<ul style="list-style-type: none"> <li>› Excavating</li> <li>› Preparations close to the pulp</li> <li>› Finishing</li> </ul>	<ul style="list-style-type: none"> <li>› Cavity preparations</li> <li>› Trephining</li> <li>› Resections</li> <li>› Separating</li> <li>› Finishing of cavity margins and fillings</li> </ul>	<ul style="list-style-type: none"> <li>› Excavating</li> <li>› Preparations close to the pulp</li> <li>› Root canal filling</li> <li>› Cementing</li> </ul>	<ul style="list-style-type: none"> <li>› Preparing</li> <li>› Separating</li> <li>› Trephining</li> <li>› Resections in anterior area</li> <li>› Minor technical procedures</li> </ul>



	ISO Standard WK-93 LT + EM-E8 LED + VE-9	ISO Short WK-93 LTS + EM-12 L + VE-10
<b>Length (up to end of hose union):</b>	189 mm	160 mm
<b>Weight:</b>	198 g	150 g

# Synea Fusion:

## Ultimate price-performance ratio

Proven Synea quality has never been so economical: With the Synea Fusion line W&H has developed a range of instruments in which economy is as important as quality.



**Optimal cooling from four sides**  
Continuous cooling with Quattro Spray.



**Small head**  
Best visibility and optimal access thanks to new small head sizes.



**Good illumination**  
Compact glass rod for good illumination of the treatment site.



**Optimised grip profile**  
for secure grip and optimum hygiene.



**Special instruments**  
Special reciprocating contra-angle handpieces for areas that are difficult to access.

### Quality that pays for itself

- › Proven Synea quality
- › Maximum efficiency in use
- › Uncompromising user comfort

# Synea Fusion:

## Technical data



<b>Types with light: (compact glass rod)</b>	<b>WG-99 LT</b>	<b>WG-66 LT</b>	<b>WG-56 LT</b>		<b>WG-67 LT</b>	<b>WG-69 LT</b>
<b>Types without light:</b>	<b>WG-99 A</b>	<b>WG-66 A</b>	<b>WG-56 A</b>	<b>HG-43 A</b>	<b>WG-67 A</b>	<b>WG-69 A</b>
<b>Head size:</b>	Ø 9.5 mm	Ø 9.5 mm	Ø 9.5 mm	–	–	–
<b>Head height with bur (19 mm):</b>	21.6 mm	20 mm	20 mm	–	–	–
<b>Rotary instruments:</b>	FG bur	Contra-angle handpiece bur	Contra-angle handpiece bur	Straight and contra-angle handpiece burs	Stroke 1.1 for Dentatus tips	Stroke 0.9 for Intensiv files
<b>Max. operating part diameter:</b>	Ø 2.5	–	–	–	defined by the available files and tips	
<b>Max. length:</b>	25 mm	34 mm	34 mm	34 mm		
<b>Speed increase/ reduction:</b>	1:5	2:1	1:1	1:1	2:1	2:1
<b>Spray:</b>	4x (> 50 ml/min)	1x (> 50 ml/min)	1x (> 50 ml/min)	1x (> 50 ml/min)	1x (> 50 ml/min)	1x (> 50 ml/min)
<b>Illuminating power in types with light:</b>	25,000 lux	25,000 lux	25,000 lux	–	25,000 lux	25,000 lux
<b>Indications:</b>	<ul style="list-style-type: none"> <li>› Crown and cavity preparations</li> <li>› Trephining</li> <li>› Resections</li> <li>› Finishing</li> <li>› Removing fillings and metal</li> </ul>	<ul style="list-style-type: none"> <li>› Excavating</li> <li>› Preparations close to the pulp</li> <li>› Finishing</li> </ul>	<ul style="list-style-type: none"> <li>› Crown and cavity preparations</li> <li>› Trephining</li> <li>› Resections</li> <li>› Separating</li> <li>› Finishing of cavity margins and fillings</li> </ul>	<ul style="list-style-type: none"> <li>› Preparing</li> <li>› Separating</li> <li>› Trephining</li> <li>› Resections in anterior area</li> <li>› Minor technical procedures</li> </ul>	<ul style="list-style-type: none"> <li>› Removal of excess materials</li> <li>› Prepolishing</li> <li>› Fine polishing</li> <li>› Buffing in the interdental and subgingival areas</li> <li>› Max. rotational speed 20,000 rpm</li> </ul>	<ul style="list-style-type: none"> <li>› Finishing of interproximal and subgingival areas and cavity margins</li> <li>› Chamfering of the preparation edges and of cavities</li> <li>› Removal of subgingival plaque</li> <li>› Stripping in orthodontics</li> <li>› Max. rotational speed 40,000 rpm</li> </ul>

# Hygiene & maintenance of your straight and contra-angle handpieces



### W&H Technical Service

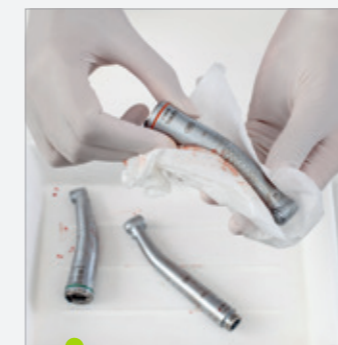
»The better the care, the longer the pleasure.«  
Regular cleaning and care of your instruments  
protects them against premature wear and  
unnecessary service costs.



You can find the exact work process for preparation of transmission instruments and motors at [wh.com](http://wh.com).

# Sterilization in record time

Cleaned, serviced, sterilized.  
The Assistina 3x3 cleaning process, in combination with the Lisa fast cycle, reduces the overall preparation time. You can use the instruments again after only 19 minutes.



0 min

**Wipe disinfection**  
Disinfect the instruments before cleaning and servicing by wiping them.



6 min

**Cleaning and care**  
The Assistina 3x3 cleans and services three instruments inside and outside in just 6 minutes.



13 min

**Sterilization**  
With the Lisa fast cycle, the instruments can be removed from the sterilizer ready for use after only 13 minutes.



### Maintenance at the press of a button

The validation of the cleaning process is confirmed by expert opinion and can be viewed at [wh.com](http://wh.com).



### Assistina 3x2

The Assistina 3x2 prepares instruments in two stages: internal cleaning, lubrication.



### Assistina TWIN

First reprocessing device for dental instruments which is equipped with two process chambers that can be used alternately.



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

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Subject to alterations

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