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



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



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

Safe, complete reprocessing thanks to W&H

Sterilization, hygiene and maintenance are increasingly important in the dental practice. W&H offers best practice hygiene protocols as a complete solution for processing your straight and contra-angle handpieces and turbines.



W&H offers a wide range of accessories for optimization of the sterilization process. Minor extras lead to major results. Work in the practice is easier and your team saves time.



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and accessories shown are not included as standard.

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