People have Priority

Restoration and Prosthetics
# Restoration and Prosthetics

<table>
<thead>
<tr>
<th>Section</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Company</td>
<td>4 – 5</td>
</tr>
<tr>
<td>Product overview 1 for Synea Vision, Synea Fusion, Alegra Turbines, Alegra Straight and contra-angle handpieces</td>
<td>6 – 7</td>
</tr>
<tr>
<td>Product overview 2 for Roto Quick, Coupling with LED, Air motors, Electric motors</td>
<td>8 – 9</td>
</tr>
<tr>
<td>Synea Vision Turbines</td>
<td>10 – 11</td>
</tr>
<tr>
<td>Synea Vision 5x Ring LED+</td>
<td>12 – 13</td>
</tr>
<tr>
<td>Synea Vision Straight and contra-angle handpieces</td>
<td>14 – 15</td>
</tr>
<tr>
<td>Synea Vision Short Edition</td>
<td>16 – 17</td>
</tr>
<tr>
<td>Synea Fusion Turbines</td>
<td>18 – 19</td>
</tr>
<tr>
<td>Synea Fusion Straight and contra-angle handpieces</td>
<td>20 – 21</td>
</tr>
<tr>
<td>Alegra Turbines</td>
<td>22 – 23</td>
</tr>
<tr>
<td>Alegra Straight and contra-angle handpieces</td>
<td>24 – 25</td>
</tr>
<tr>
<td>Couplings</td>
<td>26 – 27</td>
</tr>
<tr>
<td>Air motors</td>
<td>28 – 29</td>
</tr>
<tr>
<td>Electric motors</td>
<td>30 – 31</td>
</tr>
<tr>
<td>Hygiene &amp; maintenance</td>
<td>32 – 33</td>
</tr>
<tr>
<td>Technical data</td>
<td>34 – 39</td>
</tr>
</tbody>
</table>
The expectations are high.
We work with people.

Our most important tool is experience:
W&H has been manufacturing high-quality dental precision instruments since 1890. Continuous innovation ensures high quality in the field of Restoration and Prosthetics.

The secret to our success: W&H has always focussed on people – regardless of whether they are partners, customers, patients or employees. It would only be natural for you now to ask us: Is that really put into practice? Why not put us to the test!
Whatever happens:
With W&H restoration and prosthetic instruments you are always prepared.

Now at your dental supplier or at wh.com
»One step ahead of the future.«

»The new definition of price-performance ratio.«

»A perfect partner when treating your patients.«
Your advantages at a glance

Synea Vision

- Ring LED+: 5 x optic outlets for shadowless illumination
- Scratch-resistant surface
- Extremely powerful
- Quiet
- Long service life
- With Roto Quick and Multiflex® connections
- Hygienic head
- Ceramic ball bearings
- Perfect ergonomics
- Different head sizes with 5x spray
- Thermo washer disinfectable and sterilizable

Synea Fusion

- LED+ illumination
- Small heads
- Optimal solution
- Light and smooth
- Long service life
- Available with RotoQuick-, Multiflex®-, NSK®-, or RM-connection
- Hygienic head
- Ceramic ball bearings
- Maximum efficiency in use
- Uncompromising user comfort
- Thermo washer disinfectable and sterilizable

Alegra

Turbines, Straight and contra-angle handpieces

- Fast and precise preparation
- Excellent ergonomics
- Perfect balance
- Durable and long life
- Long service life
- Quiet
- Replaceable water filter
- Precision cooling
- Simple bur changing
- Patented hygienic head system
- Optimal view
- Thermo washer disinfectable and sterilizable
»High motor power and long lifespan.«

»Versatile system interfaces.«

»Short and light weight.«
Your advantages at a glance
> Light
> Flexible
> Sterilizable
> Free 360° instrument rotation
> Continuous regulation of the spray water supply
> Roto Quick non-retraction valve

Your advantages at a glance
> Use of LED without any changes at all in the dental unit
> Long service life of the LED
> Continuous regulation of the spray water supply
> Multiflex® non-retraction valve

Your advantages at a glance
> Short and lightweight
> The LED in the air motor guarantees optimal view
> Extremely powerful motor with high torque
> Long lifespan

Your advantages at a glance
> Motor fully sterilizable
> Light weight
> Exceptionally powerful
> Brushless – therefore maintenance-free
> Long life
> Lifetime bearing lubrication
> Wide range of applications
Synea Vision Turbines
For the highest demands

**Innovative. Flexible. Durable.** Ultimate ground breaking technology for excellent preparation results: Discover the Synea Vision range with unique innovations such as the shadowless Ring LED+ or the special new scratch-resistant surface coating!

Light and smooth
Fatigue-free working with noticeably lighter turbine system.

Scratch-resistant surface
A special scratch-resistant coating maintains the value of the entire range.

Tailor-made turbines
The right head size for every application and connections for the most popular coupling systems.

Microturbine TK-94 L
with a head diameter of only 9 mm and an overall head height of 17.2 mm with 16 mm bur attached and 12 watt power.

The Synea Vision microturbine TK-94 L is particularly well suited for minimally invasive procedures, for example in paediatric dentistry. Generally though, it is ideal for all patients with a small mouth opening.
Ring LED+

**Innovation, Variety, Durability.** With the Synea Vision Ring LED+ TK-97 L, TK-98 L and TK-100 L turbines, we offer the world’s first sterilizable 5x Ring LED+ for a completely new way of working – without a shadow of doubt.

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

**TK-97 L, TK-98 L and TK-100 L**
Three turbines, one advantage: top visibility and cooling.

Synea Vision Ring LED+
The aim was shadowless illumination.

Synea Fusion LED+
The result hits the target.

Competitor
Synea Vision Straight and contra-angle handpieces
Ultimate Technology

**Precision. Elegance. Comfort.** 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 impressive access options. And a special coating improves aesthetics even more – whilst extending their life and preserving their value.

---

**Instruments for the future**

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

**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 so they always look as good as new.

---

**5x spray**

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

**Excellent preparation results**

with outstandingly quiet operation and optimised head sizes.

**Versatile range**

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

---

* on speed-increasing models
Synea Vision Short Edition
Straight and contra-angle handpieces
The perfect balance between power and ergonomics

**Short and easy.** 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.

---

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

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

**Contra-angle handpieces for all situations**
The Synea Vision Short Edition in the classic range and with two different head sizes for high-speeds.

---

**Scratch-resistant surface**
even on the small Synea Vision contra-angle handpieces.

**Best results**
due to easy access and small head sizes.

**Substantially lighter and shorter**
The combination of Synea Vision Short Edition contra-angle handpieces with the EM-12 L electric motor is so light in weight that it considerably reduces the risk of repetitive strain injury.
Synea Fusion Turbines
Unbeatable value for money

**Economic. Durable. Ergonomic.** Uncompromising user comfort combined with outstanding economy: Discover the benefits of the Synea Fusion range!

**Experience LED+**  
Optimum illumination, natural colour reproduction and LED positioned directly beneath the instrument head.

**Effective cooling of four sides**  
Continuous cooling with Quattro Spray*.

**Best ergonomics**  
Synea turbines are comfortable in the hand and have a non-slip coating.

*Made in AUSTRIA*

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

* on speed-increasing model
Synea Fusion Straight and contra-angle handpieces
Ultimate price-performance ratio

Economic. Ergonomic. Efficient. 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.

- **Quality that pays for itself**
  - Proven Synea quality
  - Maximum efficiency in use
  - Uncompromising user comfort

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

- **Small head**
  Best visibility and optimal access thanks to new, compact head sizes.

- **Optimised grip profile**
  For secure grip and optimum hygiene.

- **Special instruments**
  Special reciprocating contra-angle handpieces for areas that are difficult to access.
Long service life and extremely quiet operation

**Reliable. Efficient. Precise.** The Alegra range of turbines offers high-end technology for top preparation results! Experience maximum efficiency during use combined with maximum safety: for you and your patients.

**Long service life**
Ceramic ball bearings guarantee minimum wear. Particularly with optimum care and maintenance!

**Quiet**
Alegra turbines offer top quality, vibration-free, quiet operation thanks to precision manufacture.

**Precision cooling**
The triple spray during treatment cools the treatment site from all sides and guarantees safety during treatment.

**Tailor-made turbines**
From hard-to-reach areas to fast removal of tooth structure: The right head size for every application.

**Optimal view**
The position of the LED in the turbine head guarantees optimal view and illumination of the treatment site.

**Replaceable water filter**
Prevents dirt particles from entering the turbine.
Alegra Straight and
Contra-angle handpieces
Maximum efficiency and safety during treatment

*Long life. Compact. Precise.* Treatment of your patients is very efficient and extremely safe with Alegra. Straight and contra-angle handpieces »Made in Austria« and designed with proven W&H quality.

**Simple bur changing**
The push-button chucking system makes changing burs fast and easy.

**Best view**
The small contra-angle handpiece head allows a direct view of the treatment site.

**External spray cooling**
The optional external spray clip enables cooling of the treatment site.

**Durable and long life**
High-quality materials make Alegra straight and contra-angle handpieces particularly durable and long lasting.

**Fatigue-free operation**
Due to the ergonomic design.
Couplings
Versatile system interfaces

Light, flexible and sterilizable. Roto Quick couplings are versatile to use and are suitable both for instruments with LED+ and LED, as well as halogen light. For use with all standardised turbine tubing.

Full compatibility compatible with all turbines, air motors and scalers with Roto Quick and Multiflex®* connections.

360° instrument rotation for easy handling, prevents the tube from twisting.

Continuous regulation of the spray water supply quick, customised adjustment by the user even – during treatment.

Non-retraction valve avoids back-flow of contaminated spray water to minimise the risk of infection.

Quick coupling with generator A generator in the Roto Quick quick coupling enables the use of light turbines on the turbine hose without a power supply.

W&H Coupling RM-34 LED for Multiflex®* connection The coupling with LED can be used alongside the conventional halogen couplings without requiring any changes at all in the dental unit.

* Multiflex® is a trademark of a third party not affiliated with W&H Dentalwerk Burmoos GmbH
Air motors
High motor power and long lifespan

Compact. Lightweight. LED. The W&H air motors are characterized by high motor power and a long lifespan. Power can be controlled smoothly in both forward and reverse drive. They are very quiet and light to use. The air motors are available with or without light.

W&H offers the optimal range of air motors for your straight and contra-angle handpieces. The W&H air motors are available with Borden 2(3)-hole system, standard 4-hole system and standard 6-hole system.

Fast and precise preparation
For efficient use of straight and contra-angle handpieces with powerful W&H air motors.

LED light
The LED in the air motor AM-25 L RM guarantees optimal view and illumination of the treatment site.

Excellent ergonomics
Easy 360° rotation of the contra-angle handpiece on the air motor, low overall weight and slender design ensures fatigue-free operation.
Electric motors
Short length and light weight

**Compact and powerful.** A compact and exceptionally powerful brushless electric motor, its main applications are fillings, prosthetics and prophylaxis. Its short length and light weight are especially ergonomic and allow you to work with ease.

---

**Electric Motor EM-E6**
As one of the smallest and lightest motors, the EM-E6 is a reliable drive system for professional work in the field of restoration and prosthetics, as well as prophylaxis.

**Tabletop control EM-E6 TP**
As a table top model, the brushless electric motor is ready for immediate use as there is no need to modify or interfere with the dental control unit.

**Built-In Kit EM-E6**
Ask your dental supplier for details of installing this lightweight motor into your dental unit.

---

**Electric Motor EM-E7 LED**
With its integrated LED source, it is the ideal partner for straight and contra-angle handpieces with glass light rods. The result: daylight quality illumination over the entire treatment area.

**Built-In Kit EM-E7 LED**
Ask your dental supplier for details of installing this lightweight motor into your dental unit, for daylight quality LED light when used with your optic handpieces.
You can find the exact work process for preparation of transmission instruments and motors at wh.com.

Hygiene & maintenance

Regular cleaning and care of your instruments protects them against premature wear and unnecessary service costs.

W&H Technical Service

Instruments
- Straight and contra-angle handpieces
- Turbines

Lisa Mobile App Traceability

LisaSafe Labelling

Seal² Packaging

Assistina 3x3
- Internal cleaning of spray channels and transmission parts
- External cleaning
- Lubrication

Assistina TWIN
- Cleaning of the spray channels
- Lubrication

Assistina 301
- Cleaning of the spray channels
- Lubrication

Lisa Sterilization

Multidem Water treatment

Lisa Finish

Start

Finish
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.

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

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

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
Assistina 301 plus, Assistina 3x2, Assistina 3x3, Assistina TWIN: The range of W&H cleaning and maintenance units provides the perfect preparation for sterilization from optimum oil service to automatic internal and external cleaning. And all in record time!

Assistina TWIN
First reprocessing device for dental instruments which is equipped with two process chambers that can be used alternately.
Synea Vision – Turbines

Types with integrated ceramic ball bearings:

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Light</td>
<td>LED+ / compact glass rod</td>
<td>Ring LED+ / compact glass rod</td>
<td>Ring LED+ / compact glass rod</td>
<td>Ring LED+ / compact glass rod</td>
</tr>
<tr>
<td>CRI (LED version)</td>
<td>&gt; 90</td>
<td>&gt; 90</td>
<td>&gt; 90</td>
<td>&gt; 90</td>
</tr>
<tr>
<td>Colour temperature (LED version):</td>
<td>5,500 K</td>
<td>5,500 K</td>
<td>5,500 K</td>
<td>5,500 K</td>
</tr>
<tr>
<td>Luminous flux (lumens):</td>
<td>6.0 / 4.0**</td>
<td>6.0 / 4.0**</td>
<td>6.0 / 4.0**</td>
<td>6.0 / 4.0**</td>
</tr>
<tr>
<td>Illuminating power:</td>
<td>25,000 lux</td>
<td>25,000 lux</td>
<td>25,000 lux</td>
<td>25,000 lux</td>
</tr>
<tr>
<td>Coupling:</td>
<td>Roto Quick Multiflex®*</td>
<td>Roto Quick Multiflex®*</td>
<td>Roto Quick Multiflex®*</td>
<td>Roto Quick Multiflex®*</td>
</tr>
<tr>
<td>Head size:</td>
<td>Ø 9 mm</td>
<td>Ø 10 mm</td>
<td>Ø 11.5 mm</td>
<td>Ø 13 mm</td>
</tr>
<tr>
<td>Head height:</td>
<td>17.2 mm (with bur 16 mm)</td>
<td>21.1 mm (with bur 19 mm)</td>
<td>21.4 mm (with bur 19 mm)</td>
<td>21.4 mm (with bur 19 mm)</td>
</tr>
<tr>
<td>Power:</td>
<td>12 W</td>
<td>18 W</td>
<td>21 W</td>
<td>22 W</td>
</tr>
<tr>
<td>rpm (min⁻¹):</td>
<td>410,000</td>
<td>400,000</td>
<td>360,000</td>
<td>330,000</td>
</tr>
<tr>
<td>Rotary instruments:</td>
<td>FG bur, as per ISO 1797-1, with Ø 1.6 mm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. operating part diameter:</td>
<td>1.5 mm</td>
<td>2 mm</td>
<td>2 mm</td>
<td>2.5 mm</td>
</tr>
<tr>
<td>Max. length:</td>
<td>16 mm</td>
<td>21 mm</td>
<td>25 mm</td>
<td>25 mm</td>
</tr>
<tr>
<td>Weight:</td>
<td>39 g / 67 g</td>
<td>38 g / 68 g</td>
<td>40 g / 69 g</td>
<td>40 g / 70 g</td>
</tr>
<tr>
<td>Roto Quick connection operating pressure:</td>
<td>3 ± 0.3 bar</td>
<td>3 ± 0.3 bar</td>
<td>3 ± 0.3 bar</td>
<td>3 ± 0.3 bar</td>
</tr>
<tr>
<td>Multiflex®* connection operating pressure:</td>
<td>2.5 to 4 bar</td>
<td>2.5 to 4 bar</td>
<td>2.5 to 4 bar</td>
<td>2.5 to 4 bar</td>
</tr>
<tr>
<td>Spray outlets:</td>
<td>5x</td>
<td>5x</td>
<td>5x</td>
<td>5x</td>
</tr>
<tr>
<td>Volume:</td>
<td>59 dB (A)</td>
<td>57 dB (A)</td>
<td>57 dB (A)</td>
<td>57 dB (A)</td>
</tr>
</tbody>
</table>

The power and rotary speeds of air drives depend greatly on the quality of the turbine hoses used and may therefore vary from the specified values.

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

** Values apply for use of RM-34 LED with DC power supply
## Synea Vision – Straight and contra-angle handpieces

<table>
<thead>
<tr>
<th>Types with light: (compact glass rod)</th>
<th>WK-99 LT</th>
<th>WK-93 LT</th>
<th>WK-66 LT</th>
<th>WK-56 LT</th>
<th>WK-86 LT</th>
<th>HK-43 LT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Head size:</td>
<td>Ø 9.5 mm</td>
<td>Ø 9.1 mm</td>
<td>Ø 9.5 mm</td>
<td>Ø 9.5 mm</td>
<td>Ø 9.5 mm</td>
<td>–</td>
</tr>
<tr>
<td>Head height with bur [19 mm]:</td>
<td>21.6 mm</td>
<td>21.2 mm</td>
<td>20 mm</td>
<td>20 mm</td>
<td>20 mm</td>
<td>–</td>
</tr>
<tr>
<td>Rotary instruments:</td>
<td>FG bur</td>
<td>FG bur</td>
<td>Contra-angle handpiece bur</td>
<td>Contra-angle handpiece bur</td>
<td>Contra-angle handpiece bur</td>
<td>Straight and contra-angle handpiece burs</td>
</tr>
<tr>
<td>Max. operating part diameter:</td>
<td>Ø 2.5 mm</td>
<td>Ø 2 mm</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Max. length:</td>
<td>25 mm</td>
<td>21 mm</td>
<td>34 mm</td>
<td>34 mm</td>
<td>34 mm</td>
<td>34 mm</td>
</tr>
<tr>
<td>Speed increase/reduction:</td>
<td>1:5</td>
<td>1:4.5</td>
<td>2:1</td>
<td>1:1</td>
<td>8:1</td>
<td>1:1</td>
</tr>
<tr>
<td>Spray:</td>
<td>5x (&gt; 50 ml/min)</td>
<td>5x (&gt; 50 ml/min)</td>
<td>1x (&gt; 50 ml/min)</td>
<td>1x (&gt; 50 ml/min)</td>
<td>1x (&gt; 50 ml/min)</td>
<td>1x (&gt; 50 ml/min)</td>
</tr>
<tr>
<td>Illuminating power in types with light:</td>
<td>25,000 lux</td>
<td>25,000 lux</td>
<td>25,000 lux</td>
<td>25,000 lux</td>
<td>25,000 lux</td>
<td>25,000 lux</td>
</tr>
</tbody>
</table>

### Indications:
- Crown and cavity preparations
- Trephining
- Resections
- Finishing
- Removing fillings and metal
- Excavating preparations close to the pulp
- Trephining
- Resections
- Finishing
- Removing fillings and metal
- Cavity preparations
- Preparations close to the pulp
- Trephining
- Resections
- Separating
- Finishing of cavity margins and fillings
- Root canal filling
- Cementing
- Preparing
- Separating
- Trephining
- Resections in anterior area
- Minor technical procedures

### ISO Standard
<table>
<thead>
<tr>
<th>WK-93 LT + EM-E8 LED + VE-9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length [up to end of hose union]: 189 mm</td>
</tr>
<tr>
<td>Weight: 198 g</td>
</tr>
</tbody>
</table>

### ISO Short
<table>
<thead>
<tr>
<th>WK-93 LTS + EM-12 L + VE-10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length [up to end of hose union]: 160 mm</td>
</tr>
<tr>
<td>Weight: 150 g</td>
</tr>
</tbody>
</table>
### Synea Fusion – Turbines

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Light:</td>
<td>LED + / LED + / compact glass rod / compact glass rod / --</td>
<td>LED + / LED + / compact glass rod / compact glass rod / --</td>
</tr>
<tr>
<td>CRI (LED version):</td>
<td>&gt; 90 / 90</td>
<td>&gt; 90 / 90</td>
</tr>
<tr>
<td>Colour temperature (LED version):</td>
<td>5,500 K / 5,500 K</td>
<td>5,500 K / 5,500 K</td>
</tr>
<tr>
<td>Luminous flux (lumens):</td>
<td>6.0 / 6.0 / 4.0** / depending on coupling / --</td>
<td>6.0 / 6.0 / 4.0** / depending on coupling / --</td>
</tr>
<tr>
<td>Illuminating power:</td>
<td>25,000 Lux / 25,000 Lux</td>
<td>25,000 Lux / 25,000 Lux</td>
</tr>
<tr>
<td>Coupling:</td>
<td>Roto Quick / RM-connection / Multiflex** / NSK Mach**</td>
<td>Roto Quick / RM-connection / Multiflex** / NSK Mach**</td>
</tr>
<tr>
<td>Head size:</td>
<td>Ø 10 mm / Ø 11.5 mm</td>
<td>Ø 10 mm / Ø 11.5 mm</td>
</tr>
<tr>
<td>Head height:</td>
<td>21.1 mm (with bur 19 mm) / 21.4 mm (with bur 19 mm)</td>
<td>21.1 mm (with bur 19 mm) / 21.4 mm (with bur 19 mm)</td>
</tr>
<tr>
<td>Power:</td>
<td>16 W / 19 W</td>
<td>16 W / 19 W</td>
</tr>
<tr>
<td>rpm (min⁻¹):</td>
<td>390,000 / 360,000</td>
<td>390,000 / 360,000</td>
</tr>
<tr>
<td>Rotary instruments:</td>
<td>FG bur, as per ISO 1797-1, with Ø 1.6 mm</td>
<td>FG bur, as per ISO 1797-1, with Ø 1.6 mm</td>
</tr>
<tr>
<td>Max. operating part diameter:</td>
<td>2 mm</td>
<td>2 mm</td>
</tr>
<tr>
<td>Max. length:</td>
<td>21 mm</td>
<td>25 mm</td>
</tr>
<tr>
<td>Weight:</td>
<td>40 g / 43 g / 68 g / 52 g / 40 g</td>
<td>42 g / 44 g / 70 g / 53 g / 42 g</td>
</tr>
<tr>
<td>Roto Quick connection operating pressure:</td>
<td>3 ± 0.3 bar</td>
<td>3 ± 0.3 bar</td>
</tr>
<tr>
<td>Multiflex** connection operating pressure:</td>
<td>2.5 to 4 bar</td>
<td>2.5 to 4 bar</td>
</tr>
<tr>
<td>Spray outlets:</td>
<td>4x</td>
<td>4x</td>
</tr>
<tr>
<td>Volume:</td>
<td>59 dB (A)</td>
<td>59 dB (A)</td>
</tr>
</tbody>
</table>

The power and rotary speeds of air drives depend greatly on the quality of the turbine hoses used and may therefore vary from the specified values.

* Multiflex® and NSK Mach® are trademarks of third parties not affiliated with W&H Dentalwerk Burmoos GmbH
** Values apply for use of RM-34 LED with DC power supply
## Synea Fusion – Straight and contra-angle handpieces

### 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 mm
- –
- –
- –
- 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
- –
- –
- –

### Indications:
- > Crown and cavity preparations
- > Trephining
- > Resections
- > Finishing
- > Removing fillings and metal
- > Crown and cavity preparations
- > Trephining
- > Resections
- > Separating
- > Finishing of cavity margins and fillings
- > Preparing
- > Separating
- > Trephining
- > Resections in anterior area
- > Minor technical procedures
- > Removal of excess materials
- > Prepolishing
- > Fine polishing
- > Buffing in the interdental and subgingival areas
- > Max. rotational speed 20,000 rpm
- > 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

---

## Air motors

### Type
- AM-25 L RM
- AM-25 A RM
- AM-25 E RM
- AM-25 A BC
- AM-25 E BC
- AM-25 BC

### Coupling hose end:
- Fixed connection Standard 6-hole
- Fixed connection Standard 4-hole
- Fixed connection Borden 2(3)-hole

### Light [LED version]:
- LED
- –
- –

### Spray:
- internal
- internal
- internal

### Weight:
- 77 g
- 78 g
- 75 g
- 78 g
- 74 g
- 73 g

### Power:
- 20 W

### Speed range [min⁻¹] at an operating pressure of:
- 2.5 bar: 5,000 – 20,000*
- 3 bar: 5,000 – 25,000*

### Direction of rotation:
- forward / reverse operation mode

* The power and speed of air drives depend on the quality of the turbine hose and may differ from the specified value.
# Alegra Turbines

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Light (LED version):</td>
<td>LED and generator</td>
<td>LED and generator</td>
<td>–</td>
</tr>
<tr>
<td>Light intensity (LED version):</td>
<td>25,000 lux</td>
<td>25,000 lux</td>
<td>–</td>
</tr>
<tr>
<td>Head size:</td>
<td>Ø 10.4 mm</td>
<td>Ø 12.2 mm</td>
<td>Ø 12.2 mm</td>
</tr>
<tr>
<td>Power:</td>
<td>14 W</td>
<td>16 W</td>
<td>16 W</td>
</tr>
<tr>
<td>Speed:</td>
<td>390,000 min⁻¹</td>
<td>330,000 min⁻¹</td>
<td>330,000 min⁻¹</td>
</tr>
<tr>
<td>Rotary instruments:</td>
<td>FG bur, in acc. with ISO 1797-1, Ø 1.6 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum working part diameter:</td>
<td>2 mm</td>
<td>2 mm</td>
<td>2 mm</td>
</tr>
<tr>
<td>Maximum length:</td>
<td>21 mm</td>
<td>25 mm</td>
<td>25 mm</td>
</tr>
<tr>
<td>Weight:</td>
<td>46 g</td>
<td>48 g</td>
<td>49 g / 49 g</td>
</tr>
<tr>
<td>&gt; Turbines with LED</td>
<td>26 g / 20 g</td>
<td>26 g / 20 g</td>
<td></td>
</tr>
<tr>
<td>&gt; Couplings with generator</td>
<td>46 g / 47 g</td>
<td>48 g / 50 g / 50 g</td>
<td></td>
</tr>
<tr>
<td>&gt; Turbines without light</td>
<td>46 g / 47 g</td>
<td>48 g / 50 g / 50 g</td>
<td></td>
</tr>
<tr>
<td>Operating pressure:</td>
<td>2.2 – 2.8 bar (32 – 40 PSI)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ball bearings:</td>
<td>Ceramic</td>
<td>Ceramic</td>
<td>Steel</td>
</tr>
<tr>
<td>Spray:</td>
<td>Triple</td>
<td>Triple</td>
<td>Single</td>
</tr>
<tr>
<td>Volume:</td>
<td>62 dB (A)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* TE-97 LQ and TE-98 LQ turbines with LED are intended for use with W&H RQ-53 and RQ-54 Roto Quick couplings only. The power and speed of air drives depend on the quality of the turbine hose and may differ from the specified value.

# Alegra Straight and contra-angle handpieces

<table>
<thead>
<tr>
<th>Type:</th>
<th>WE-56</th>
<th>WE-57</th>
<th>WE-66</th>
<th>HE-43</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gear ratio:</td>
<td>1:1</td>
<td>1:1</td>
<td>4:1</td>
<td>1:1</td>
</tr>
<tr>
<td>Head size:</td>
<td>Ø 10.1 mm</td>
<td>Ø 10.1 mm</td>
<td>Ø 10.1 mm</td>
<td>–</td>
</tr>
<tr>
<td>Head height (with 19 mm bur):</td>
<td>20.8 mm</td>
<td>22.7 mm</td>
<td>20.8 mm</td>
<td>–</td>
</tr>
<tr>
<td>Rotary instruments:</td>
<td>Contra-angle handpiece bur</td>
<td>FG bur</td>
<td>Contra-angle handpiece bur</td>
<td>Straight and contra-angle handpiece burs*</td>
</tr>
<tr>
<td>Instrument shaft diameter:</td>
<td>2.35 mm</td>
<td>1.6 mm</td>
<td>2.35 mm</td>
<td>2.35 mm</td>
</tr>
<tr>
<td>Max. length:</td>
<td>34 mm</td>
<td>25 mm</td>
<td>34 mm</td>
<td>50 / 34 mm</td>
</tr>
<tr>
<td>Weight:</td>
<td>65 g</td>
<td>65 g</td>
<td>65 g</td>
<td>72 g</td>
</tr>
<tr>
<td>Spray (optional):</td>
<td>Single external</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Can also be used with prophy heads with doriot connection.
Couplings

<table>
<thead>
<tr>
<th>Roto Quick couplings:</th>
<th>RQ-24</th>
<th>RQ-34</th>
<th>RQ-14</th>
<th>RQ-03</th>
<th>RQ-04</th>
<th>RQ-53</th>
<th>RQ-54</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light:</td>
<td>yes</td>
<td>yes</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>generator</td>
<td>generator</td>
</tr>
<tr>
<td>Spray control:</td>
<td>–</td>
<td>yes</td>
<td>yes</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
</tbody>
</table>

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

- Light: LED
- Spray control: yes
- Connection: 6-hole

*Light, flexible and sterilizable. W&H Roto Quick couplings are versatile to use and are suitable both for instruments with LED+ and LED, as well as halogen light. 24 months of warranty.

The coupling with LED can be used alongside the conventional halogen couplings without requiring any changes at all in the dental unit. Long service life – 24 months of warranty.

Electric motors

<table>
<thead>
<tr>
<th>Type</th>
<th>EM-E6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size [L x Ø]</td>
<td>38.6 x 20.2 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>64 g</td>
</tr>
<tr>
<td>Speed range</td>
<td>2,000 – 40,000 rpm</td>
</tr>
<tr>
<td>Power</td>
<td>55 W</td>
</tr>
<tr>
<td>Torque</td>
<td>3 Ncm</td>
</tr>
</tbody>
</table>

*effective length

<table>
<thead>
<tr>
<th>Type</th>
<th>EM-E7 LED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size [L x Ø]</td>
<td>47.5 x 21.5 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>79 g</td>
</tr>
<tr>
<td>Speed range</td>
<td>2,000 – 40,000 rpm</td>
</tr>
<tr>
<td>Power</td>
<td>62 W</td>
</tr>
<tr>
<td>Torque</td>
<td>3 Ncm</td>
</tr>
</tbody>
</table>

*effective length
Restoration and Prosthetics

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

Manufacturer:
W&H Dentalwerk Bürmoos GmbH
Ignaz-Glaser-Straße 53, Postfach 1
5111 Bürmoos, Austria

+ 43 6274 6236-0
+ 43 6274 6236-55
office@wh.com
wh.com

Distribution:
W&H (UK) Limited
6 Stroud Wood Business Centre
Park Street, St Albans, Hertfordshire AL2 2NJ, United Kingdom

+ 44 1727 874990
+ 44 1727 874628
office.uk@wh.com
wh.com

Scan the QR-Code with your mobile telephone for more information on our products.

Subject to alterations

20423 UEN Rev. 003 / 30.11.2017