For more than 125 years, W&H has been setting the standard with new technology and innovative product development. Today, the exclusive A-dec|W&H partnership co-develops the world’s most advanced handpiece systems and small equipment integration, with a shared commitment to quality, reliability and excellent service.

A-dec|W&H products are also backed by some of the best and longest warranties in the dental industry: two years for Synea and one year for Alegra handpieces. Authorized repairs are warranted for a full year, not simply the remaining warranty period.

Milestones in Handpiece Development

1890
W&H becomes the first European manufacturer of mechanically operated hand and contra-angle handpieces.

1979
W&H introduces 360 degree coupling and the world’s first push-button chucks for turbines, immediately simplifying the process of changing the bur on the instrument head.

1992
W&H introduces the Assistina, a cleaning and care device that is both simple to use and very cost effective. The new product allows fully automatic oil service and complete cleaning of spray channels for the first time ever.

2007
W&H becomes the first dental equipment manufacturer to introduce turbines with sterilizable LEDs to the market with Synea handpieces.
Handpiece Try & Buy

A-dec | W&H handpieces are engineered for optimal power, precision and control—and testing them for yourself couldn’t be easier. Visit TryA-dec.com for details.

2009

W&H introduces LED light from non-lighted 4-hole tubing with a unique self-generating turbine. These Alegra handpieces connect seamlessly to non-lighted 4-hole tubing.

2014

W&H develops the smallest electric motor available, the EA-53, which seamlessly integrates into A-dec delivery systems with controls integrated into the touchpad. Up to two motors can run off one controller.

W&H achieves a technological sensation: five powerful, pinhead-sized LEDs integrated in a ring shape, surrounding the burr on the Synea 500 turbine.
High performance for the human touch.

A-dec | W&H handpiece systems are engineered for optimal power, precision, and control, for the specific application at hand. Precisely balanced for the perfect feel in your hand, you can focus on what matters most: your patient.

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Air or Electric? Why not both?

Electric Handpieces

**When power, precision and versatility are key.**

Electric handpieces deliver ultra-smooth performance for the greatest range of applications. With A-dec|W&H, you get the world’s smallest electric motor and handpieces to work between highspeed and lows speed, and endodontics. All the torque you need balances lightly in your hand. And for gross enamel reduction or crown removal, expect full power for every precision cut and fine margin.

**Why electric?**

If you like having full power and torque, you want electric. With the EA-53 electric motor, you can have it all: small size, big integration, and tactile sensitivity that sets a whole new standard.

- Micro head AND 5 debris clearing spray ports provide unprecedented visibility
- 3 times more power than air highspeeds for exceptionally efficient cutting
- 1-piece unibody design for reduced sound and virtually vibration-free operation

EA-53
Air Handpieces

**When feel and vision matter most.**

Doctors choose air handpieces for the tactile sensation of the bur with applied pressure. A-dec | W&H ensures productivity and optimal vision with refined small heads, unique placement of the LED illumination, and superior sight lines.

**Why you need both.**

For increased efficiency, choose both. The power and precision of electric quickly tackles the big jobs. And, when you need the finesse of an air handpiece, it’s right at your fingertips.
Solutions for Everyone

Air and electric. Speed and torque. Weight and balance. Access and vision. We’re here to help you put together the ideal combination for your practice.

Unmatched visibility. Power and precision. Compact and ultra lightweight. It’s best in class, and you’ll notice the difference the moment you feel it in your hand.

- Air
- Electric

Synea 500

Streamlined and simple, yet sophisticated. Synea 400 fits all leading brands’ quick-disconnect couplers for easy mounting and removal. It’s our most varied collection.

- Air
- Electric

Synea 400

(Actual Size 1” x 1”)

2 YEAR WARRANTY Now Backed By
The patented self-generating LED+ light changes everything. Simply attach your Alegra 300 highspeed handpiece to any air tubing and enjoy LED+ light.

- Air
**A more powerful experience.**

Meet the new highspeed standard. Get unparalleled performance with outstanding control, balance and power. Plus, get shadow-free illumination with 5 LED+ lights surrounding the bur.

- Lightest handpiece system in the industry with our best swivel for reduced hand and wrist fatigue
- Ring LED+ illuminates the entire oral cavity
- Debris clearing 5 spray ports provides unprecedented visibility
- Available in four head sizes: micro, pedo, standard and torque

Handpieces and head sizes are shown actual size

**Works with**

The Synea 500 series handpieces require a RQ-24 Roto-Quick coupler.

---

*Patented ring-LED+ lighting around the bur creates bright, shadow-free illumination*

*TK-97L Highspeed Pedo head*

*TK-94L Micro  TK-97L Pedo  TK-98L Standard  TK-100L Torque*

*gross enamel reduction • crown and bridge • amalgam removal • polishing • finishing*
Compact Length*

WK-93LTS
Highspeed
Friction-grip 1:4.5

WK-56LTS
Lowspeed
Latch 1:1

WK-93LT
Highspeed
Friction-grip 1:4.5

WK-56LT
Lowspeed
Latch 1:1

HK-43LT
Lowspeed
Lab 1:1

Standard Length

Synea 500 | Electric

highspeed • gross enamel reduction • crown and bridge • amalgam removal • polishing • finishing

lowspeed • decay removal • refining • finishing • polishing

Handpieces are shown actual size
Who knew it could be this good?

The new super compact and lightweight handpiece design provides the power of an electric in the size of an air handpiece. Nothing in the world comes close. At the leading edge of technology, Synea 500 gives you a comprehensive range of highspeed and lows speed options.

- Micro head design offers exceptional access and visibility
- 5 spray ports clear debris to provide an optimal view of the working surface
- One-piece unibody design reduces sound and provides virtually vibration-free operation
- Scratch-resistant surface is as sleek as the ultra-smooth operation

Works with

Synea 500 standard handpieces work best with the EA-53 electric motor or any E-style electric motor.

*Synea 500 compact handpieces work with the EA-53 and any compact E-style electric motor.

“"The small size, quiet operation, and terrific power make this the best handpiece I have used.”

Dr. Jerry Martin
Granite Bay, California
Proven and sophisticated.

Serious technology reduces hand fatigue and improves visibility. Lots of choices, one result: precision with comfort.

- Pedo head design improves access and visibility
- Standard head offers extra cutting power
- Lightest handpiece system in the industry to reduce hand and wrist fatigue
- LED+ illuminates the entire arch with daylight quality light
- 4 spray ports provide effective cooling and a clear view

Works with

The TG-97L/98L handpieces require a RQ-24 Roto-Quick coupler. Other Synea 400 handpieces are also available. See page 24.
Synea 400 | Electric

Standard Length

WG-99LT
Highspeed
Friction-grip 1:5

WG-56LT
Lowspeed
Latch 1:1

WG-57LT
Lowspeed
Friction-grip 1:1

WG-66LT
Lowspeed
Latch 2:1

HG-43A
Lowspeed
Lab 1:1

Handpieces are shown actual size

highspeed • gross enamel reduction • crown and bridge • amalgam removal • finishing
lowspeed • decay removal • refining • finishing • polishing
Broad applications and seamless delivery system integration.

One-piece unibody design for reduced sound and virtually vibration-free operation. Ultra quiet operation means comfort for doctor and patient alike.

- Pedo head design improves access and visibility
- 3 times more power than air highspeeds for exceptionally efficient cutting
- 4 spray ports provide effective cooling and a clear view (WG-99LT)

Works with

The Synea 400 standard handpieces work best with the EA-53 electric motor or any E-style electric motor.
How EASY is this?

You gain light without upgrading, and there’s no reason for a service call to install an intraoral light source. Just attach and go. Our whole new approach to air technology works on any delivery system with 4-hole tubing.


Get all of the comfortable balance, low noise, and illumination you’ve come to expect with premium offerings, at a price you will appreciate.

- Pedo head design improves access and visibility
- Standard head offers extra cutting power
- Unique self-generated LED+ lighting—fits any type of handpiece tubing including non-lighted
- 3 spray ports provide effective cooling and a clear view
- Lightweight handpiece design reduces hand and wrist fatigue

Works with

The Alegra 300 series highspeed air handpieces require a RQ-54 Roto-Quick coupler.
Alegra 300 | Air

Handpieces are shown actual size

decay removal • refining • finishing • polishing

Handpieces to help you perfect those critical finishing steps.

- Short, slim, and lightweight handpiece design with our best swivel reduces hand and wrist fatigue
- Precision ball-bearings provide exceptional tactile feedback with smooth and quiet operation
- Pedo head design improves access and visibility
- Unibody design simplifies handpiece cleaning, maintenance, and sterilization

Works with

The Alegra 300 handpieces (shown) require an AM-20RM air motor. Other handpieces and motor options are also available. See page 25.

“Versatility in a handpiece system saves me time, stress, and appointments.”

Dr. Helen Lester
Eugene, Oregon

To compare handpiece models visit handpiece-advisor.com
Specialty | Endodontics

Endea

Get better access with a micro head. With Endea’s legacy of innovation you’re ready to access the canal with unmatched control, visibility and ease.

- Micro head design offers exceptional access and visibility
- Precision ball-bearing design provides precise torque and ultra smooth operation to improve performance and maintain file integrity
- The 2:1 speed reducing ratio delivers increased control over file speed and torque limits (EB-79)
- The 4:1 speed reducing ratio delivers increased power and more torque when needed (EB-77)

Works with

Endea handpieces work best with the EA-53 electric motor partnered with the A-dec deluxe touchpad.
Specialty | Hygiene

Proxeo

All-around comfort for optimal prophy treatments. The advanced, lightweight Proxeo collection minimizes fatigue, while accommodating all leading cups and brushes.

- Micro head design offers exceptional access and visibility
- Precision ball-bearings provide superior tactile feedback with smooth and quiet operation
- Short, lightweight handpiece and motor with ultra smooth swivel deliver outstanding ergonomics

Handpieces are shown actual size
A motor with feeling.

Lightweight and loaded with versatility, the EA-53 motor gives you outstanding tactile sensitivity from one small, powerful, and quiet motor. Compact and balanced with a full range of handpieces for highspeed and lowspeed applications—expect to do your best work better. Ultra-quiet and low vibration, with a natural tactile sensation.

For general dentistry, hygiene, and endodontics, the EA-53 motor is ready to fully integrate with your A-dec 500 and A-dec 300.

- Compact and lightweight electric motor provides superior ergonomics for reduced hand and wrist fatigue
- Electric motor provides over three times the power of an air handpiece in virtually the same size
- Vibration-free motor operation delivers unparalleled tactile feedback
- Low noise level and LED+ lighting for superior visibility

EA-53 Tabletop Motor

One of the smallest motors on the market is now available as a tabletop. With a touchpad interface, the EA-53TT gives you the ability to add an electric motor with endo functionality to any delivery system.
Traditional for a good reason.

Tactile sensation and power all rolled into one lightweight, dependable motor solution. With an air motor, you have the ability to remove tooth structure rapidly, with a light touch. No wonder air motors have been used in dentistry for more than 40 years. You know you will get a motor that’s easy to control and long lasting.

- Precision ball-bearings provide exceptional tactile feedback with smooth and quiet operation
- Powerful design creates greater cutting efficiency
- Ultra smooth swivel and light weight reduce hand and wrist fatigue

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<th>System</th>
<th>Max. speed (rpm)</th>
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To compare handpiece models visit handpiece-advisor.com
## Specifications

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<th>Head Type</th>
<th>Power (watts)</th>
<th>Light</th>
<th>Spray Ports</th>
<th>Head diameter (mm)</th>
<th>Head height (mm)</th>
<th>Head height (w 19 mm bur)</th>
<th>Weight (grams)</th>
<th>Noise level (dB)</th>
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<td>57</td>
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<td>HE-43TMW</td>
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<td>Twist-tension 2.35 mm lab burs</td>
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<td>WE-56TSD</td>
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<td>Push-button 2.35mm latch burs</td>
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## Synea 500 Series

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<th>Compact Electric</th>
<th>Standard Electric</th>
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<tr>
<td>TK-94L</td>
<td>WK-93LTS Highspeed</td>
<td>WK-93LT Highspeed</td>
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<tr>
<td>TK-97L</td>
<td>WK-56LTS Lowspeed</td>
<td>HK-43LT Lab</td>
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<td>TK-98L</td>
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<td>TK-100L</td>
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**Coupler**
- RQ-24
- 6-pin

**Electric Motor**
- EA-53

## Operatory Handpiece Packages

### Synea 500 Air
- (3) Synea 500 air highspects
- (1) Roto-Quick
- (2) Alegra 300 air lowspects
- (1) Air motor

#### Accessories
- TK-97L or TK-98L
- RQ-24
- WE-56T
- AM-20RM

### Synea 500 Electric
- (3) Synea 500 electric highspeed compacts
- (2) Synea 500 electric lowspeed compacts

#### Accessories
- WK-93LTS
- WK-56LTS
## Synea 400 Series

<table>
<thead>
<tr>
<th>Air Highspeed</th>
<th>Coupler</th>
<th>Standard Electric</th>
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<tbody>
<tr>
<td>Synea 400 Air</td>
<td>Electric Motor</td>
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<td>(3) Synea 400 air highs speeds</td>
<td>RA-24/25, RQ-04</td>
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<tr>
<td>TG-97L or TG-98L</td>
<td>Kavo® Multi-Flex</td>
<td>HG-43A Lab</td>
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<td>NSK® PTL</td>
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<td>(1) Air motor</td>
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### Operatory Handpiece Packages

#### Synea 400 Air

- (3) Synea 400 air highs speeds
- (1) Roto-Quick
- (2) Alegra 300 air lows speeds
- (1) Air motor

#### Synea 400 Electric

- (3) Synea 400 electric highs speeds
- (2) Synea 400 electric lows speeds

- RQ-24
- WE-56T
- AM-20RM
- WG-99LT
- WG-56LT
## Alegra 300 Series

### Operatory Handpiece Packages

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<tbody>
<tr>
<td>(3) Alegra 300 air highspeeds</td>
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<tr>
<td>TE-97QL or TE-98QL</td>
<td>RQ-54</td>
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### Air Highspeed

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<tbody>
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<td>WE-56T</td>
<td>WE-57T</td>
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### Air Lowspeed

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<th>Air Motors</th>
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<td>RQ-54</td>
<td>AM-20RM 4-hole</td>
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<td>AM-20MW 4-hole</td>
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<td>AM-5MW 4-hole</td>
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<table>
<thead>
<tr>
<th>A-dec</th>
<th>W&amp;H</th>
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<tr>
<td>AM-20RM</td>
<td>AM-20MW</td>
<td>AM-5MW</td>
<td>AM-20SD</td>
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<tr>
<td>AM-20RM</td>
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<td>AM-20SD</td>
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<td>AM-5SSD</td>
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Specialty | Endea & Proxeo

**Proxeo**
- HP-44TS Phophy set
- WP-64TS Phophy set

**Endea**
- EB-79
- EB-77

**Electric Motor**
- EA-53
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Employees: 1000 worldwide
Locations: Bürmoos, Austria
Brusaporto, Italy

Established: 1964
Employees: 1000 worldwide
Locations: Newberg, Oregon USA

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Strength in numbers.

Unsurpassed customer support.

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