

# REALITY

The information source for esthetic dentistry

2017

## The Ratings | HANDPIECES – AIR – HIGHSPEED

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(4.6)



## Tornado

### INTRODUCTION/MANUFACTURER'S CLAIMS

New flagship highspeed air turbine handpiece by Bien-Air. It features, according to the manufacturer, 30 watts of power with its so-called SteadyTorque technology. It is also stated to be the quietest on the market due to its Accu-Spray Quattro Mix spray system and the Accu-Chuck PreciPlus vibration-canceling bur-retention mechanism. The PreciPlus is additionally stated to offer optimal stability and precision, while the Quattro Mix spray is supposed to provide superior bur-cooling action and clear illumination.

The ceramic ball bearings are stated to provide extended turbine life and lower noise, while the sealed head supposedly prevents fluid infiltration, reduces cross-contamination risk, and prolongs the life of the bearings. And it has a Cool Touch feature, which is designed to reduce or eliminate the handpiece itself becoming hot and burning the patient. Although this burning patient phenomenon has mainly been associated with electric handpieces, it's nice to know that Bien-Air has also incorporated its advantages into its air turbines.

The design is the latest in euro-cool with virtually seamless, satin-finished cladding and a nonslip coating called TotalTact. This smooth profile also facilitates cleaning. Most (75%) evaluators thought its appearance was on par with other highspeeds, while 25% considered it to be cooler-looking.

### LIGHT INTENSITY (LUX)

**9,860** Using the LED coupler, illuminates the operative area at a level consistent with that of other highend highspeeds. Most (60%) evalua-

### RAVES & RANTS

- + Quietest highspeed
- + A best buy
- Lubrication my not be your fav
- Must access website for detailed instructions

### MANUFACTURER

Bien-Air  
[www.bienair.com](http://www.bienair.com)

### PRICES

Handpiece + coupler  
\$995.00

### WARRANTY

2 years

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tors thought it was brighter than other highsPEEDS, while the other 40% felt it was about the same.

## WATER SPRAY

**4-port, arranged around the bur.** Provides plenty of cooling irrigation. Most (80%) evaluators thought it was about the same as other units, while the other 20% considered it to have a better water spray than other highsPEEDS.

## DURABILITY (TURBINE)

1,200 sterilization cycles.

## NOISE (dBA)

**60.8** (which makes it the quietest highsPEED air handpiece that we have ever tested.) Thus we can confirm its quietest on the market claim. Most (80%) evaluators thought it seemed quieter than other units while the other 20% considered it to be about the same as other highsPEEDS. One evaluator noted it was still not as quiet as an electric.

## TORQUE

**30 watts.** Most (60%) evaluators considered it to be more powerful than other handpieces, while 20% thought it was on par and 20% felt it was less powerful.

## MAXIMUM OPERATING SPEED

410,000 rpm

## MAXIMUM OPERATING PRESSURE

55 psi

## RECOMMENDED OPERATING PRESSURE

50 psi

## WEIGHT

**3.9oz/93.6g** (including the coupler), which is average for this category. This was a split vote, as 40% of the evaluators thought it felt heavier, 40% lighter, and 20% about the same compared to other highsPEEDS. One evaluator stated it felt solid.

## BALANCE

Most (60%) evaluators found it to be about the same to hold and balance compared to competing units, while the other 40% thought it was better.

## HANDPIECE DIMENSIONS (mm)

Diameter	16.5
Length	125.4

These dimensions are similar to most handpieces in this category.

## HEAD DIMENSIONS

Diameter	12.2
Length (w/330 bur)	21.1

These dimensions are similar to most handpieces in this category. Most (80%) evaluators thought its head was about the same compared to other highsPEEDS, while the other 20% considered it to be smaller.

## ANGLE OF THE HEAD

**102 degrees.** This angle is similar to most handpieces in this category. All evaluators thought this angle was acceptable.

## MAINTENANCE

You can either use a conventional spray lubricant or the innovative small yellow plastic Lubrimed device, which delivers medical grease to the active parts and reduces waste. This latter method merely requires you to insert the metal cannula tip of the Lubrimed into the chuck and turn its handle one-half revolution. Very easy, quick, and less messy than spraying it with conventional lubricant. Most (80%) evaluators thought its cleaning and maintenance tasks were about the same as other units, while the other 20% found it to be more difficult using the Lubrimed.

## DIRECTIONS

Two coated paper chairside guides, one for using the handpiece and one for maintenance. Both offer helpful tips, while the instructions for care features several color illustrations for using Lubrimed. In addition, inside the box holding the handpiece, there is a plain paper, multi-language foldout that basically tells you to access the Bien-Air website for the latest version of the instructions. One evaluator

noted that while most dentists are comfortable with accessing websites, it is somewhat inconvenient to force us to do so by not providing a detailed printed

set of instructions, notwithstanding the two aforementioned chairside guides. On the other hand, the online version is thorough and easy to understand.

# REALITY

## STRENGTHS

Excellent torque, well balanced, very quiet, matte finish provides for a secure grip, and comfortable to hold.

## WEAKNESSES

Lubrimed may not be your fav way to lubricate. Must access website for detailed instructions.

## BOTTOM LINE

**The quietest highspeed handpiece on the market, impressive torque and at an amazingly affordable price.**

# TORNADO

## FEEL THE POWER

Bien Air<sup>+</sup>  
Dental

With its proprietary **SteadyTorque™** technology, the Tornado turbine delivers a power output that is hard to resist. Now you can discover the most powerful small heads, with our new Tornado<sup>5</sup>.

TORNADO  
MORE  
POWER

THE MOST  
POWERFUL ON  
THE MARKET  
30 WATT

UP TO 3 YEARS  
WARRANTY



TORNADO<sup>5</sup>  
MORE  
VISIBILITY

THE MOST  
POWERFUL  
SMALL HEAD  
24 WATT

S W I S S  M A D E



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