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 non-slip coating called TotalTact. This smooth profile also facilitates cleaning.

The 4-port water spray provides plenty of cooling irrigation and its light intensity, which we measured to be about 9,860 lux using the LED coupler, illuminates the operative area at a level consistent with that of other high-end highspeeds.

Its weight is 3.3oz/93.6g (including the coupler), which is average for this category. The head measures 12.2mm in diameter and 21.1mm long with a 330 bur, while its overall length and diameter are 125.4mm (including the coupler) and 16.5mm respectively. The head angle is 102 degrees. All of these dimensions are similar to most handpieces in this category.

Noise was measured at 60.8dB, which makes it the quietest highspeed air handpiece that we have ever tested. Thus we can confirm its quietest on the market claim.

Lab tests show the Tornado cuts with nice precision and minimal vibration, but its full clinical evaluation, which just started, will certainly provide more detailed specs. In the meantime, if you are looking for what appears to be the quietest handpiece on the market and at an amazingly affordable price, you may want to give it serious consideration.