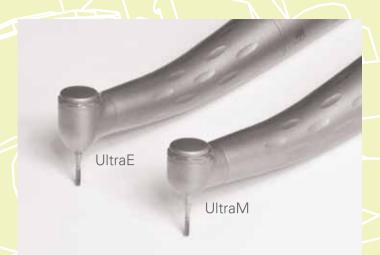


TwinPowerTurbine® Ultra Series
Even Smaller Design with More Power



Compact Head Design Powerful Quiet Durable Zero Suck Back

Features at a Glance



Powerful Micro Head

The TwinPower Turbine Ultra
Series handpieces offer a small
compact head size for improved
access and views in the oral
cavity. This product line includes
the new UltraM and UltraE.
Although these handpieces are
mini in design, their power is
equal to or greater than many
high torque turbines.

Unique TwinPower Technology

The torque produced by TwinPower technology provides steady, effective, and efficient drilling with a light touch.

Quick Stop Braking

Rotation stops within 2 seconds even at the highest speeds. This feature offers added safety and prevents excessive drilling.

Bur Flexibility

UltraM, which has the smallest head, accepts standard burs up to 20 mm in length as well as short shank burs. UltraE utilizes standard burs.

Zero Suck Back

Unique, built-in technology prevents the intake of contamination and cutting debris when the handpiece stops rotating.

Long-lasting Ceramic Ball Bearings

The ceramic ball bearings are exceptionally hard and light, making the bearings faster and more durable.

Aero-skirt

The aero-skirt cuts down on the flow of air towards the treatment area. This, in turn, regulates the spray delivered to the treatment area and provides more efficient drilling and improved cooling.

Quiet

Advanced fluid dynamic technology and high precision machining has significantly reduced the noise level in the 6,000 to 7,000 Hz range. This makes treatment more comfortable for the patient.

Glass Rod Optics

The glass rod optics offer autoclave safe, highly focused and stable illumination (25,000 LUX).

Compact, Powerful Design: UltraM and UltraE



The TwinPower Turbine Ultra Series is twice as powerful as other popular mini head handpieces.





The UltraM head is approximately 30% smaller than a TwinPower Turbine standard head. This gives the dentist a much better view of the treatment area. The UltraM head accepts a standard bur up to 20 mm in length. The usable portion of the bur (the part extending out of the head) is the same as that of a standard head.





Head Type Comparison

UltraM

UltraM delivers 18 watts, twice the power of some other popular mini handpieces, and offers an extremely compact head height for exceptional posterior access.

l IItro E

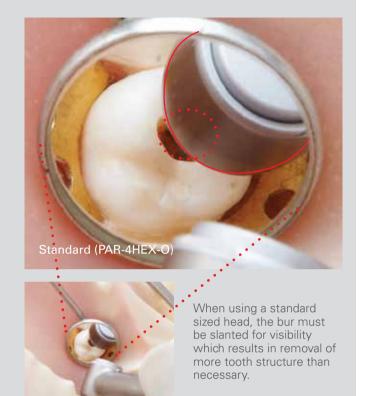
UltraE is a bit larger and more powerful at 20 watts, but still offers a compact head that improves the clinician's view when using a mirror or microscope.

Improved Access and Visibility

Case 1. Tooth 16 Pulp Chamber Opening

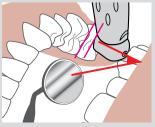






Case 2. Tooth 17 Cavity Preparation





With UltraM, the bur can be held upright for use on molars (including wisdom teeth) or for patients who have limited opening.



The bur must be slanted with a standard head to gain access which leads to excessive drilling of the tooth structure. The mirror is placed to the side of the handpiece head and gets wet resulting in poor visibility.



More Comfortable for Patients

Case 3. Tooth 47 Treatment Area





The UltraM head is more comfortable for patients and offers better access in the posterior region. It is especially helpful on the occlusal surface when the patient has limited opening.

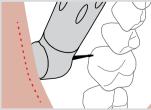




A standard sized head strikes opposing teeth in the treatment area. The sensation of this can be stressful and uncomfortable for patients.

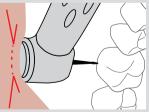
Case 4. Tooth 46 Caries Treatment





The handpiece head may be placed perpendicular to the tooth even in the posterior region. The labial and buccal gingiva do not prevent this due to the small head size of UltraM.





A standard size head presses up against the labial and buccal gingiva, which can be unpleasant for the patient.



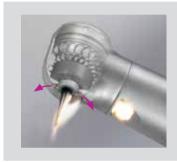
15° head angle to hold bur parallel to tooth axisThis is the ideal angle to hold the bur parallel to the tooth axis when resting your little finger on a tooth.

TwinPower Turbine Technology



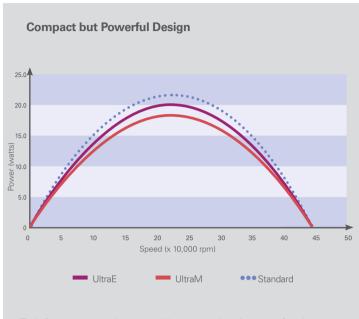
Push Button Chuck

The metal push button chuck is durable and bur replacement is quick and easy.



Aero-skirt

The aero-skirt cuts down on the flow of air towards the treatment area. This, in turn, regulates the spray and provides more efficient drilling and improved cooling.



TwinPower technology provides exceptional torque for the UltraM (18 W) and UltraE (20 W) heads. Steady and powerful, these heads can be used for both ceramic and metal prosthetics.



Wide Field of View

A compact head leaves a wide field of view in line with the axis of the tooth. The dentist can see the tip of the bur during procedures.

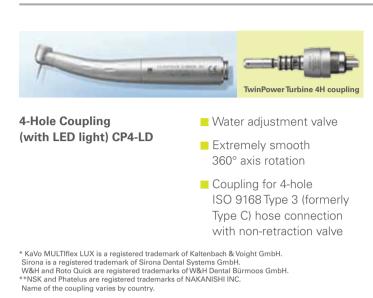
(shown with 19 mm bur)

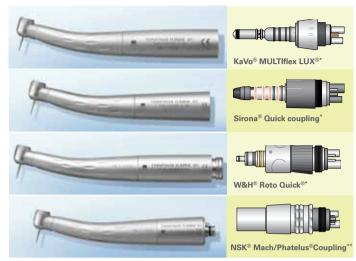


All TwinPower Turbines can be equipped with LED lights

The LED coupler offers a bright, natural colored light with a wide field of illumination. This consistent and even lighting results in less eye fatigue and makes it easier to identify caries, diseases, and abnormalities.

Connection and Coupling Options





Specifications and Ordering Information

Product Name	TwinPower Turbine 4H	
Head Types	UltraM	UltraE
Chuck Types	Push Button Chuck	
Models	PAR-4HUMX-O	PAR-4HUEX-O
Tube Connection	Morita, KaVo, Sirona, W&H, NSK	
Weight (g)	48 - 57 depending on connection type	
Suck Back* (mm / Aq)	0	
Stop Time	Less than 2 seconds	
Angle of View** (°)	15.8	16.6
Maximum Power *** (watts)	approx. 18	approx. 20
Speed *** (rpm)	370,000 ± 30,000	
Chip Air Ports	5	3
Water Ports	1	3
Head Diameter (mm)	9.0	
Head Height (mm)	10.6	12.7
Drive Air Pressure (MPa)	0.20 - 0.29	

Ordering Information		
TwinPower Turbine UltraM		
Morita (PAR-4HUMX-O)	16-5356989	
KaVo (PAR-4HUMX-O-KV)	16-5357578	
NSK (PAR-4HUMX-O-NK)	16-5357586	
W&H (PAR-4HUMX-O-WH)	16-5357594	
Sirona (PAR-4HUMX-O-SR)	16-5357608	
TwinPowerTurbine UltraE		
Morita (PAR-4HUEX-0)	16-5356970	
KaVo (PAR-4HUEX-O-KV)	16-5357497	
NSK (PAR-4HUEX-O-NK)	16-5357500	
W&H (PAR-4HUEX-O-WH)	16-5357519	
Sirona (PAR-4HUEX-O-SR)	16-5357527	

- * Suction pressure
- ** With 19 mm bur
- *** Power and speed depend on pressure of drive air

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