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We've harnessed air

Constant removal rate without loss of speed

primea
advanced air

World first: Primea Advanced Air
Control and precision with ease

With the Primea Advanced Air you now have the air under perfect control. It is the world's first air-driven high-speed drive solution with an adjustable bur speed to provide constant removal rate, even with increasing pressure. This allows you to work with the optimal application speed and maximum treatment efficacy at all times: a unique symbiosis of power and ease for extra control combined with premium comfort.

Adjustable bur speed

Wide range of applications and controlled preparation at constant speeds thanks to **adjustable bur speed between 60,000 and 320,000 rpm.**

Constant removal rate

Automatic power adjustment with electronic air control thanks to **Advanced Air technology.**

Further product advantages

- Optimal view with 5x Ring LED+
- Perfect cooling thanks to 5x spray
- Fatigue-free working thanks to ideal ergonomics and lightweight handpiece
- Best tactile feedback with quiet operation
- Value retention thanks to special scratch-resistant coating
- Added control thanks to non-slip grip profile
- Ultimate safety due to patented hygienic head system
- Maximum access thanks to small head

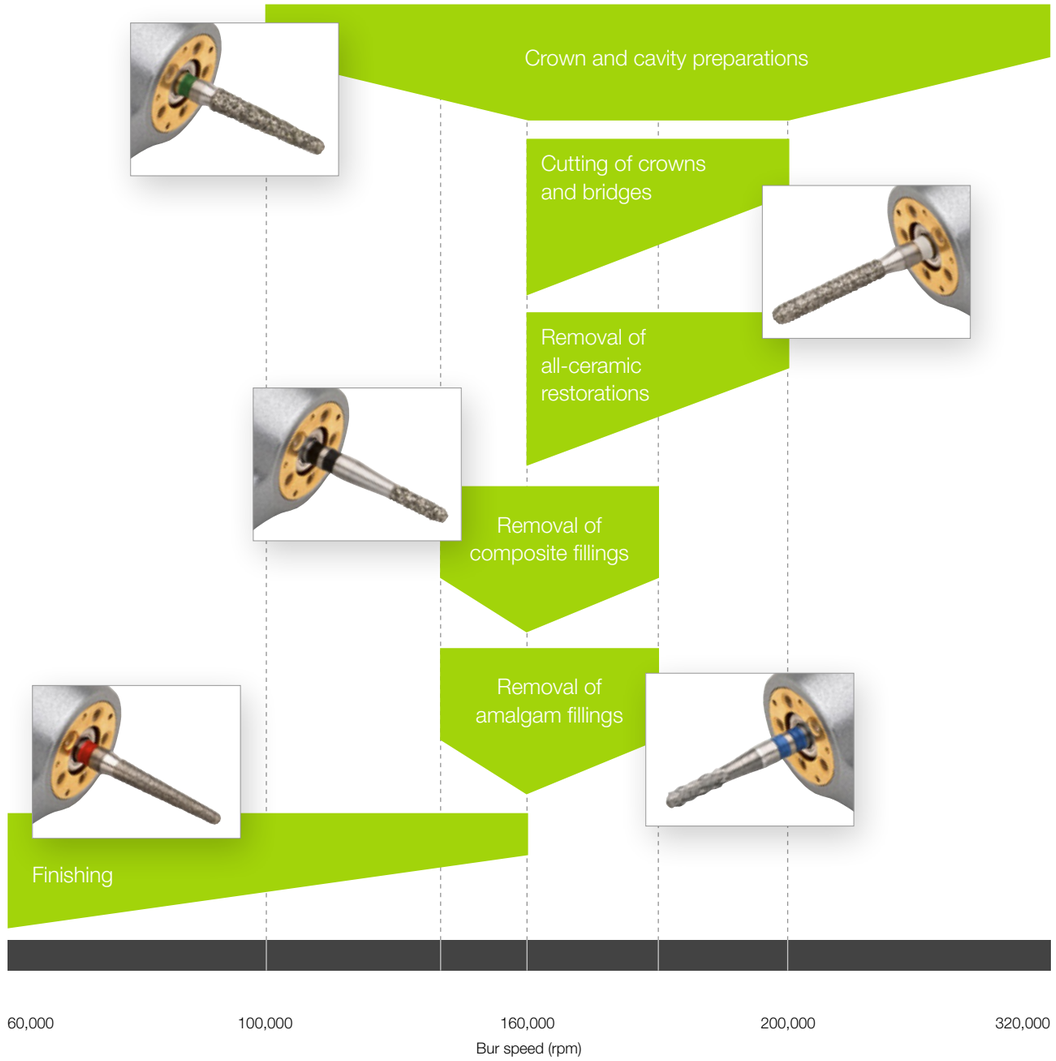
State prize winner 2018
The State Prize for Innovation awarded by the Federal Ministry for Digital and Economic Affairs

St
p
Staatspreis Innovation 2018
des Bundesministeriums für Digitalisierung und Wirtschaftsstandort

High-speed
under control

You can always rely on Primea Advanced Air. It adapts to your personal preparation requirements and works together with you hand in hand. You regulate the speed and benefit from maximum control. A perfect combination, which represents a real competitive advantage for air driven dental units and is an interesting alternative to conventional turbines and red contra-angle handpieces for units with electric motors.

Optimal speed ranges for the Primea Advanced Air



Treatment success
pre-programmed

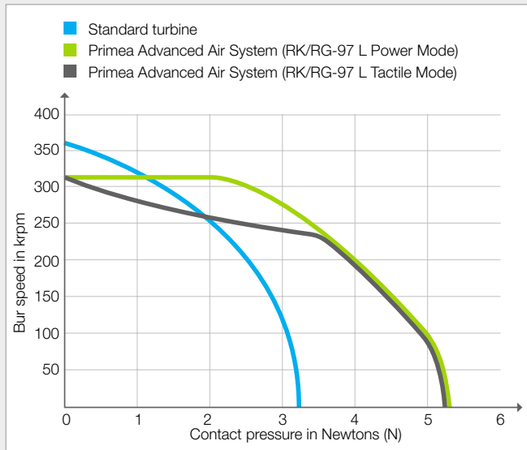
With the Advanced Air technology, loss of speed is a thing of the past. A sensor in the head of the turbine measures the actual rotation speed of the bur on the tooth constantly. As soon as the speed threatens to slow, the control module adjusts the air supply immediately so as to ensure the constant removal of tooth structure.

Speed setting
You can set the required/ recommended bur speed for the respective application on the display.

Speed check
The speed actually measured in the bur head is checked against the set speed.

Speed regulation
If the actual speed deviates from the set value, the air supply is accordingly adjusted immediately.

Speed comparison*

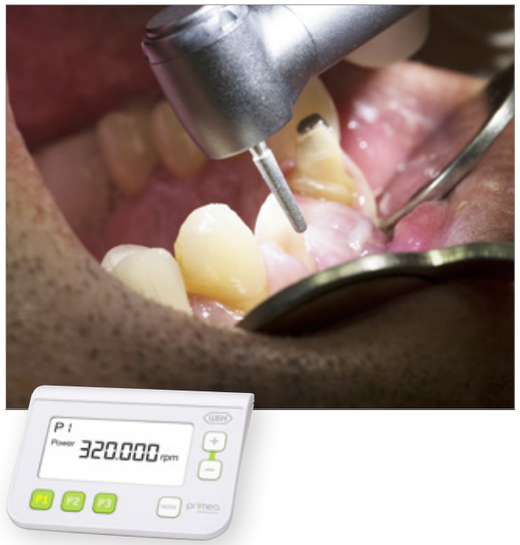


Additional function: operating mode
Whilst the set speed is always maintained constant under increasing pressure in “Power” mode, “Tactile” mode permits reduction of the speed. This makes it possible to perform sensitive steps with even more control and even more minimally invasively.

* Measured parameters: Bur: 836KR 314 016, depth: 3 mm (half cutting part length), Feed in: 0.8 mm (half cutting part diameter), material: marble, TK-98 L: 3 bar, RG-97 L: 320 krpm, chip air: 2 bar, water: 1.5 bar, all pressure measurements taken directly at RQ-24 coupling

Optimal speed
creates added value

Effortless opening of cavities, easy cutting of crowns and bridges, removal of old fillings at lightning speed and finishing of preparation margins with ultimate precision: Your clinical advantages with the Primea Advanced Air are at your fingertips. Work with the bur speed recommended by the bur manufacturer for your instruments and experience a new quality of high-speed preparation.



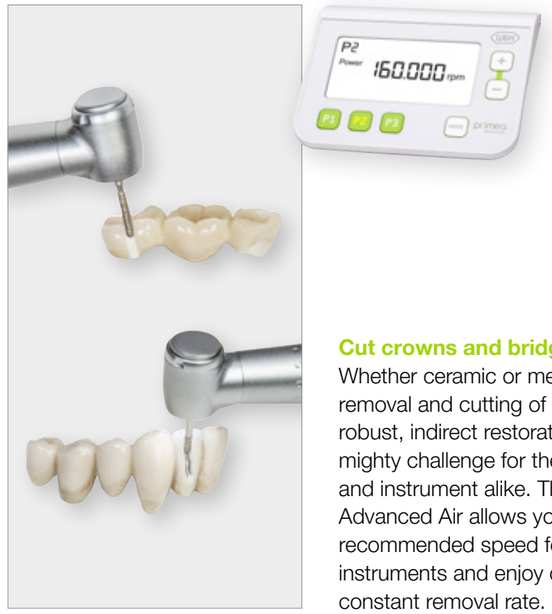
Preparation of cavities and crowns with minimal effort
The constantly high bur speed of 320,000 rpm allows efficient, controlled and precise performance of high-speed tasks. You cannot only open cavities effortlessly, but also shape crown preparations safely and guarantee effective treatment.

Prof. RADM Suchada Vuddhakanok
Bangkok, Thailand

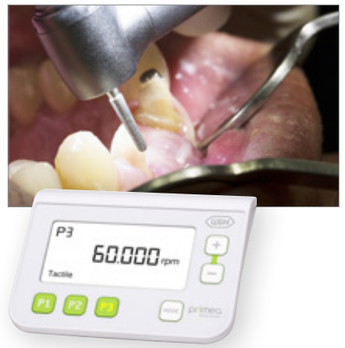
“That’s it. This is exactly what I have been waiting for!”

Dr. James Klim
Santa Rosa, CA, USA

“With the Advanced Air technology I can significantly reduce the treatment time of my patients.”



Cut crowns and bridges faster
Whether ceramic or metal, the removal and cutting of extremely robust, indirect restorations is a mighty challenge for the dentist and instrument alike. The Primea Advanced Air allows you to set the recommended speed for the specific instruments and enjoy optimal, constant removal rate.



Controlled finishing
With the Primea Advanced Air you can perform this sensitive step with a constantly low bur speed of just 60,000 rpm. This allows you to profile the preparation surface even more minimally invasively and finish the preparation margins with even more control than with a classic turbine handpiece.

Remove fillings safely and efficiently
From A for amalgam to C for composite to Z for zirconium dioxide: the Primea Advanced Air allows you to remove old fillings quickly and safely. The optimal ratio of minimum heat development to high removal rate is achieved at a speed of 160,000 rpm.

Dr. Christian Müller
Salzburg, Austria

“I love the tactile feedback. I feel the smallest imperfections on the tooth and can thus increase the quality of my work.”

Dr. Michael VanGorden
St.Helens, OR, USA

“Combines the control of an electric motor with the cutting efficiency of an air-driven high-speed handpiece.”

Add-on

System can be optimally integrated into your personalised workflow. Choose the smart Add-on with flexible installation options.

CE ✓

The CE of your dental unit is not affected by the W&H add-on solutions.

Add-on
If you intend to use the Add-on as a table-top unit, the sterilizable tray offers an additional surface for resting instruments on.

Removable display
The display can be removed from the Add-on and positioned independently of the control module.

Installation options
You can also install the Add-on below or on the side of the table used for your dental unit.

Built-in

Selected unit manufacturers offer the Primea Advanced Air technology as a fully integrated drive solution within the scope of a complete system. It can be controlled simply and conveniently via your dental unit's control panel. Ask W&H or your unit manufacturer about the Primea Advanced Air System.

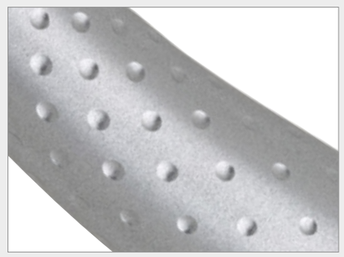
A perfect symbiosis

In addition to the innovative drive technology, both Primea Advanced Air turbines also boast all the advantages of classic, high-quality W&H turbine handpieces. Whilst the RK-97 L scores extra points with a 5x Ring LED+, the RG-97 L amazes with LED+. And thanks to the Roto Quick coupling the entire system is remarkably light.

The choice is yours
The Primea Advanced Air System is available with a 5x Ring LED+ (RK-97 L) or LED+ (RG-97 L).

Optimum cooling
Thanks to the 5x spray the bur tip is optimally cooled in every application position.

Shadowless illumination
The 5x Ring LED+ offers an optimal view of the treatment site with perfect contrasts.



Extraordinary value retention
Everyday like new with the special, scratch-resistant coating.

RQ-24
360° rotation and low overall weight with the RQ-24 Roto Quick coupling.

Excellent ergonomics
Fatigue-free working and high tactile feedback thanks to low weight and quiet operation.

Technical data

Primea Advanced Air Add-on

CE 0297

Type:	AF-100
Speed range:	60,000 – 320,000 min^{-1}
Modes:	Power / Tactile
Mains voltage:	100 – 240 V
Dimensions (height x width x depth):	92 x 156 x 211 mm
Weight:	1.33 kg
Warranty:	24 months
Inlet pressure for air supply hose:	600 – 800 kPa (6 – 8 bar, 87 – 116 psi)
Air consumption:	Maximum 65 Nl/min

The perfect accessories (optionally available)

- Supports: Fastening options for flexible installation and customised positioning.
- Tray:The practical tray for your instruments can be disinfected and sterilized.

Primea Advanced Air turbines

CE 0297 | 135°C

Type:	RK-97 L	RG-97 L
Speed range as Advanced Air turbine:	60,000 – 320,000 rpm	
Maximum power as Advanced Air turbine (Add-on):	27 W ± 10% at 6 – 8 bar inlet pressure	
Maximum power as Advanced Air turbine (Built-in):	30 W ± 10% at 5.5 – 5.9 bar inlet pressure	
Speed range as standard turbine:	400,000 ± 30,000 rpm	
Maximum power as standard turbine:	21 W at 3 bar inlet pressure	
Head size:	Ø 10 mm	
Head height with bur (19 mm):	21.1 mm	
Weight:	39 g	
Rotary instruments:	FG bur dia. 1.6 mm, compliant with ISO 1797	
Maximum working part diameter:	2 mm	
Maximum permissible length:	21 mm	
Coupling:	Roto Quick	
Light:	Ring LED+	LED+
Spray:	5x	
Ball bearing:	Ceramic	
Warranty:	24 months	12 months

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With the Primea Advanced Air you have the air under perfect control.
It is the world's first air-driven high-speed drive solution with an adjustable bur speed and constant removal rate, even with increasing pressure. As such, you can always work with the optimum speed for the job.

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

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Subject to alterations