A new, high-speed, air-driven handpiece is promising an entirely new cutting experience for dentists, one that is so smooth, powerful and efficient, it doesn’t feel like work anymore.

The Dentsply Midwest® Stylus™ ATC is the world’s first air-driven handpiece to automatically adjust speed in response to load, offering superior performance and precision.

The Midwest Stylus ATC introduces the dental world to Speed-Sensing Intelligence (SSI) and Superior Turbine Suspension (STS), groundbreaking technologies that solve two long-standing challenges facing dentists: load-based variations in speed that can cause stalling and require time-consuming feathering, and bur deflection and chattering that occur at high speeds and can affect accuracy and precision.

It’s the speed
The Midwest Stylus ATC’s Speed Sensing Intelligence automatically optimizes the delivery of power, no matter the load, to provide smooth, consistent cutting speeds for unmatched efficiency and the fastest removal of material.

A sensor in the coupler picks up the frequency of vibrations caused by the speed of the rotating bur. When the bur encounters a higher load that would normally cause a decrease in speed, a signal from an advanced “electronic brain” in the control source increases air pressure and thereby the rotation of the turbine, thus increasing speed. The opposite occurs when the bur encounters a lighter load.

In other words, in a split second, the handpiece knows when to deliver more power or when to reduce power.

It’s the suspension
The ATC’s Superior Turbine Suspension allows the handpiece to operate at speeds of 350,000 rpm under load with no noticeable bur deflection or chattering. This provides outstanding control, every time.

The STS also creates a greater, more consistent transfer of power from the handpiece to the bur for the absolute maximum in cutting efficiency. No other handpiece on the market today allows dentists to create this degree of precision.

In fact, this smooth, precise control is especially beneficial for margin refinement and fine restorative procedures.

“This is the greatest breakthrough in high-speed, air-driven handpieces since their introduction by Midwest in the 1950s,” said Len Litkowski, DDS, and director of professional relations and clinical research for Dentsply Professional.

“Bringing electronic control to the dental handpiece to provide a constant speed, even under load, will make the dentist’s experience more efficient, effective and stress-free,” he said.

Controlled power in a small package
In addition to Speed-Sensing Intelligence and Superior Turbine Suspension, the Midwest Stylus ATC offers these advantages:

• Exceptional visibility, access and maneuverability with mini or mid-sized head.
• Outstanding swivel for freedom of movement.
• Enhanced access to posterior surfaces with standard- and short-shank bur compatibility.

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You know how important photographs are to your practice, but you don’t know who to turn to for advice. PhotoMed understands your need and can help you choose the right camera. We also include a support and loan equipment program for the life of the camera so you have someone to turn to if you have questions.

PhotoMed dental cameras feature the best digital camera equipment available. The Canon 50D and the Rebel T2i are great choices.

Choosing a quality dental system for your practice doesn’t have to be difficult. Call the experts at PhotoMed and we’ll help you with all of your camera questions.

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Come see us at the CDA in Anaheim, CA - we’ll be in booth #2034 - hall D
Plak Smacker: new ultrafine toothbrush

Plak Smacker announces the release of its new adult brush, the Ultrafine Toothbrush.

Perfect for patients with receding gum lines and sensitive surfaces, the Ultrafine’s tapered extra-soft bristles provide up to three months of gentle brushing without compromising plaque removal. The rubber grip handle offers comfortable support and reduces slippage during use.

Available in four colors, the Ultrafine Toothbrush is sure to be a favorite among patients.

For more information or to place an order, please call (800) 989-8825.

Picasso Lite makes soft-tissue laser treatment accessible

For those dentists who have wanted to offer laser treatment to their patients but have held back because of the expense of the equipment, now there is an answer. The Picasso Lite is a soft-tissue dental laser featuring an ultracompact, lightweight design. It is manufactured by AMD LASERS, a company based in Indianapolis that was founded by Alan Miller. (AMD stands for Alan Miller Designs.)

“AMD LASERS is committed to our role as the leader in advancing the use of laser technology in the dental operatory,” said Miller, who is CEO of the company.

Intended to replace the archaic use of scalpels and electro-surge in the treatment of soft tissue, the Picasso Lite features 2.5 watts of power, an adjustable aiming beam and three customizable presets. Perhaps the best thing about the Picasso Lite is its affordable price.

“If you ask us what we have the best price, we also have the best warranty,” said Scott Mahnken, director of sales and marketing at AMD LASERS. “Quality is very important to us.”

Picasso Lite cuts and coagulates tissue with reduced trauma, bleeding and necrosis of tissue and is used for soft-tissue surgery, including tumbling, gingivectomies, frenectomies, exposing implants/teeth/ortho brackets and treating aphthous ulcers and herpetic lesions.

New from AMD LASERS are disposable tips that can be used instead of the fiber optic cable, making procedures even more convenient.

“We are very excited about the latest product announcement,” Miller said.

“Dentists wanted an option of using convenient disposable tips or the cost effectiveness of a strip-pafiberable fiber. We delivered. This marks just another breakthrough in technology by AMD LASERS.”

We are committed to our one vision, one goal — a laser in every office and every operatory,” Miller said. “The research and development we continue to reinvest in our current and future products only solidifies AMD LASERS as the No. 1 company in the world.”

Bart Wacławik, chief operating officer of the company, said the tips were designed to meet the needs of all soft-tissue dental procedures.

“The new disposable tips are available in various angles, lengths and sizes to meet our clients’ needs,” he said.

The Picasso Lite comes with a setup DVD, online laser certification, accessories and an international warranty, said Tim Young, director of sales and marketing.

“Quality is very important to us.”


Icon debuts in Reader’s Digest

News about this treatment for dental caries and white spot lesions to reach a global readership of more than 16 million in May 2010

Reader’s Digest, known as “the world’s best-read magazine,” featured Icon®, the caries infiltrant system by DMG America, in the Next Big Things section of its May 2010 issue.

Reader’s Digest publishes 50 editions and is the world’s largest paid-circulation magazine.

“It’s truly an honor to be featured in such an incredibly reputable and well-read publication,” says Tim Haberstumpf, DMG Director of Marketing.

“First we were on The Doctors, then Fox News, and then featured in Popular Science. More and more people are hearing about how dental professionals using the Icon system can, in many cases, potentially help them avoid drilling and anesthesia to arrest early dental caries. It’s exciting to say the least.”

Introduced by DMG America in September 2009, Icon uses micro-invasive technology to fill and reinforce demineralized enamel without drilling, anesthesia or sacrificing healthy tooth structure.

Icon, which stands for Infiltration Concept, is a true breakthrough in restorative dentistry indicated for the treatment of white spot lesions and incipient decay that has progressed up to the first third of dentin.

Icon enables dentists to treat incipient lesions upon discovery, effectively removing white spots and arresting the progression of early carious lesions. It works by capillary action and is light cured to harden the resin after placement.

Previously, it was necessary for dental professionals to “wait and watch” early caries until they were big enough to justify drilling and filling, and they had only more invasive options for treating discoloration such as white spot lesions that could not be eliminated by tooth whitening.

“Icon is the first micro-invasive dental product that can be used in...”

continued
There are many uses of the Velopex Aquacut Quattro Fluid Air Abrasion Unit.

- Cutting enamel, composite, dentine
- Fissure cleaning and sealing
- Composite repair
- Cavity preparation
- White spot removal
- Pre-bonding conditioning of enamel
- Stain removal
- Fissure cleaning and sealing
- Stain removal
- Caries removal
- Cleaning and polishing
- Fissure cleaning and sealing
- Stain removal
- Caries removal
- Etching
  - Etching
  - Porcelain repair
  - Metal bonding
  - Treating lab work
  - Pre-bonding conditioning of enamel
  - Wash and dry

The Aquacut Quattro will give you greater control and flexibility than any other piece of equipment you own. Some of its other benefits include:

- No vibration, turbine noise, heat generation or smell,
- Greatly reduced need for local anesthesia,
- A handpiece that creates a fluid curtain around the powder medium,
- A triple-action foot control that speeds treatment by allowing cut, wash and dry operations through the same handpiece,
- No chipping or stress fracturing,
- Minimal loss of sound tooth material.

The Aquacut Quattro and stand. (Photo/Velopex)

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just one patient visit to arrest caries progression, remove white spot lesions and increase the life expectancy of treated teeth,” says Haberstumpf.

“All this recent press coverage has introduced millions of patients to the concept that this type of treatment avoids the pain of the drill that comes with a traditional restoration and, most importantly, it saves tooth structure immediately and in the long run. Patients really appreciate that!”

To view full clips from the television shows, complete product descriptions and treatment steps, a training video, and an overview of the international studies currently being conducted with Icon, visit the Drilling No Thanks! website at www.drilling-no-thanks.com.
Directa makes restorations quicker, easier and more efficient

By Fred Michmershuizen, Online Editor

Directa AB, a Swedish manufacturing company that dedicates itself to introducing innovative, high-quality and cost-effective products into the dental marketplace, is perhaps best known around the world for its Luxator® extraction instruments, which allow dentists to remove teeth with less damage to the surrounding tissue, keeping a better anatomy for an implant site. At the GNYM meeting in New York City, the company’s products for restorations kept many people buzzing.

Many are already familiar with the Directa FenderWedge® tooth protector, which separates and protects adjacent teeth during preparation for a restoration. A combination of a wedge and a protective stainless steel plate, the FenderWedge protects teeth by a few tenths of a millimetre, protecting the adjacent tooth during preparation and guiding the final building of the contact point.

Now, the Directa FenderWedge has a companion — the Directa FenderMate®. The one-piece matrix and wedge is designed to allow dentists to quickly and efficiently fill a cavity and get a restoration with a light contact and a tight cervical margin.

Directa has taken a 10-minute procedure down to about two minutes. In traditional methods of cavity preparation, the emphasis has been to break contact and extend the walls of the proximal box in order to accommodate the matrix band. With the facility to insert FenderMate lingually and/or buccally the dentist can maintain a smaller, more traditional proximal preparation thus preserving healthy tooth structure and easily restoring a proper contact.

The FenderMate combines a wedge and a matrix in its design so that dentists no longer have to fumble with multiple pieces. A flexible wing separates the teeth and firmly seals the cervical margin, avoiding overhang. It features optimal matrix curvature and a pre-shaped contact. No ring is needed, and when it is inserted as a wedge, the tooth is ready for immediate restoration.

FenderMate has made a tremendous impact worldwide. The new product has been rated one of the best products of the year with great positive feedback. Dentists are pleased not only with FenderMate’s ease of use, but with its ability to help preserve more of the natural tooth structure which is essential in providing better patient care.

The FenderMate is available in assorted kit of 72 pieces or Refill packs of 18 pieces in four different variations. As with all products by Directa AB, dentists, not engineers, design the FenderWedge and the FenderMate, which gives rise to the company maxim “Design by Dentists.”

Information about all Directa products and distributors may be found at www.directadental.com or by calling (203) 788-4224.

The Junior Lift by Crescent Products

Do you have difficulty getting your smaller-sized patients properly positioned on your dental chair? Are you constantly asking them to reposition themselves, hoping this will enable your patient to fit the chair a little better? Is performing procedures more difficult for you because of this problem? If you find yourself dealing with this very situation, rest assured, there is a solution.

Crescent Products recently developed a product to permanently alleviate the problem of smaller patients not fitting the dental chair properly.

The Junior Lift is a foam support cushion designed specifically for the dental chair. It boosts your smaller patient to a better and more comfortable position in the dental chair, raising the height of the patient.

Additionally, the Junior Lift allows the patient to reach the headrest on the dental chair more easily. The cushion simply rests in place on the chair and is ideal for older children and smaller adults up to about five feet in height.

As with all comfort products by Crescent Products, this support is covered in a soft vinyl that can be easily cleaned with disinfectant. The anti-slip material on the bottom keeps the Junior Lift in place.

With the introduction of this new product, performing procedures on smaller patients has never been easier. The Junior Lift is a must-have for every dental practice. It is also available in three colors: teal, beige and gray.

Judy McDonald
Crescent Products
(800) 989-8085
judy@crescentproducts.com
www.crescentproducts.com/dental.htm

PhotoMed G11 digital camera

The PhotoMed G11 digital dental camera is specifically designed to allow you take all of the standard clinical views with “frame and focus” simplicity.

The built-in color monitor allows you to precisely frame your subject; focus and shoot. It’s that easy.

Proper exposure and balanced, even lighting are assured. By using the camera’s built-in flash, the amount of light necessary for a proper exposure is guaranteed.

Also, PhotoMed’s custom close-up lighting attachment redirects the light from the camera’s flash to create a balanced, even lighting across the field.

More information is available at www.photomed.net or call (800) 989-7765.
An independent study presented at the 41st Annual Conference on Radiation Control, held May 18–21, 2009, concluded that the NOMAD handheld dental X-ray system produces staff radiation-exposure doses so low that the vast majority of users received no measurable radiation dose.

This conclusion contradicts the common misperception that operator exposure would be higher with a handheld X-ray system.

The study also found that the image resolution and contrast of the NOMAD were superior to the wall-mounted system tested, and the leakage and scattered radiation were lower.

In addition, the study reported that additional operator protection measures, such as the use of lead aprons or stands, are not warranted. According to the study, this is largely due to improved shielding techniques incorporated into the NOMAD.

The paper, “Image Quality and Radiation Dose Comparison for Intraoral Radiography: Hand-held, Battery Powered versus Conventional X-ray Systems,” was delivered as part of the annual meeting of the Conference of Radiation Control Program Directors (CRCPD) in Columbus Ohio in May 2009. Edgar Bailey, MSEHE; Joel Gray, PhD; and John Ludlow, DDS, authored the study.

The NOMAD handheld X-ray system is manufactured in the USA by Aribex of Orem, Utah, and was invented by the company’s CEO, Dr. D. Clark Turner.

“This study verifies what we have known for some time, that our handheld X-ray device is at the cutting edge of X-ray technology in terms of quality and safety,” said Turner.

“Add to that the convenience of the lightweight handheld design and we have a product that has changed the way X-rays are taken in a dental office and has opened the way to take X-ray imaging to those who cannot come to a dental office.”

The NOMAD is cordless and rechargeable and requires no installation so it can easily be taken from operatory to operatory in a dental office. The operator can stand right next to the patient while taking the X-ray without having to leave the room.

In addition, because it does not require direct connection to an AC outlet, it has been widely used for humanitarian work in some of the most remote areas of the world. A copy of this independent study as well as more information about the NOMAD may be found at www.aribex.com.