

Multipurpose abrasion

Innovative air abrasive dental system offering previously unattainable results.

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Sandman Futura

Air abrasion system

Features

- Unique patented air abrasion unit that guarantees the best performance and quality
- Designed for minimally invasive treatments and all other air abrasion dental and laboratory tasks
- Highly efficient at low pressure: favourable results at only 1.5–2 bar
- Small, compact unit measuring 25×23×12 cm and weighing 3 kg
- Includes two handpieces: 25 µm and 50 µm, respectively
- Foot control
- Specially calibrated dental aluminumoxide powder in practical and hygienic dispensable cups

Advantages for patients

- Practically pain-free treatment
- No drill, no noise and no vibration
- Reduced time: anaesthetics are often unnecessary
- Better quality: minimally invasive dentistry means optimal treatment for tooth tissue preservation
- Better results: fillings bond better with Sandman Futura treatment than with ordinary drill treatment

Advantages for dentists

- Makes treatment effortless and more controlled
- Top quality minimally invasive treatment results
- Less stress and greater satisfaction for personnel
- Practice builder



Sandman Futura is a recently developed air abrasive system. Air abrasion in aesthetic and restorative dentistry is an indispensable tool for minimally invasive dentistry. It can be used with patients of all ages: children, adults and the elderly.

The system is based on the unique patented whirl atomization principle, which ensures exact and controlled treatment at low pressure with the exact amount of powder needed.

One of the major indications is to make exploratory preparations before fissure sealing, as demonstrated in the case below (Figures 1–6). It can be followed by a combination of an adhesive restoration and then fissure sealing. A much wider indication area, however, can be found in dentistry for the creative dentist, who wants to obtain quality through a minimally invasive approach.

An overview of indications are as follows:

- Conservative cavity preparation without anaesthesia.
- Pit and fissure preparation (clean or cut).
- Roughen enamel and dentin to enhance the bonding (based on research evidence).
- Condition metals, composites and amalgam for maximum bonding.
- Conditioning porcelain before silane treatment.
- Remove composite and adhesives (varying choice of abrasives).
- Aggressive removal of stains.

- Removal of orthocement.
- Application with the CoJet powder (3M-ESPE).
- Endocavity cleaning before coronal restoration.
- Removal of incisal edge discolouration for smokers.
- To create amalgam or gold satin finish to test for glossy occlusal spots.
- Before application of lingual orthodontics.
- Prior to the application of adhesive resin for prosthesis repair.
- Tunnel preparation and cleaning.
- Vibration-free preparation.
- Create endodontic access through porcelain.
- White spot repair.
- Clean preparation for pieces and liners.
- Perio-treatment with glass beads.
- Amalgam tattoo removal of dentin and enamel.
- Clean rubberdam clamps from resin sealer, corrosion etc.
- Reduce gloss from instruments used under the bright light of a microscope.
- Myriad laboratory procedures.

Many more indications become evident as one begins to experiment with the system. We are convinced that air abrasion is part of minimally invasive technique and that its success is related to dust control and discipline.

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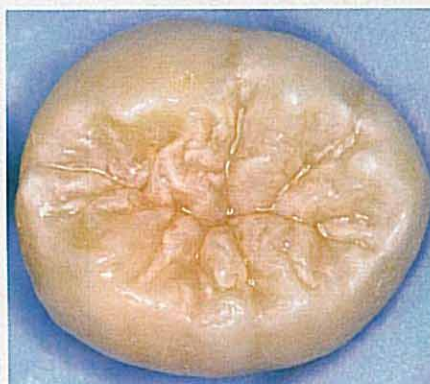


FIGURE 1 Fissures before fissure sealing.

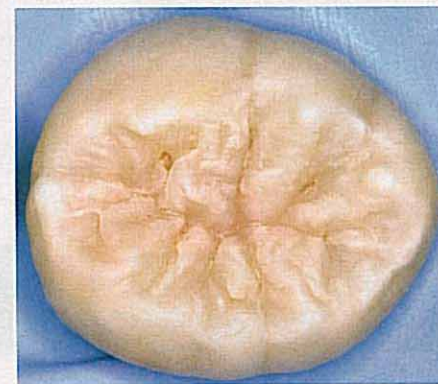


FIGURE 2 After air abrasion with Sandman.



FIGURE 3 During phosphoric etching.



FIGURE 4 After phosphoric etching.



FIGURE 5 After fissure sealing.



FIGURE 6 After removal of oxygen inhibited layer.