Profin PDX Maintenance and Lubrication instructions

General:

The Dentatus Profin PDX contra angle can be cleaned and lubricated using all cleaning and lubricating devices for standard E-type connectors as well as with all high quality cleaning and lubricating liquids. For best results, follow the manufacturer's instructions.

The contra angle must be sterilized before it is used. It is also important that after each use, the contra angle is cleaned and properly lubricated. This will ensure good hygiene and functionality.

Begin the cleaning routine by cleaning off stains and debris by using a non-metal brush, to avoid scratching the instrument, under running clean water and dry the instrument with a soft cloth.

When using aerosol sprays, after cleaning the outside surface, insert the spray can nozzle into the motor input of the contra angle and push the button of the can until the liquid coming out from the head of the contra angle is clear. This takes a few seconds. Wipe off excess fluid with a paper towel.

The Dentatus Profin contra angle can be washed in a thermal disinfector up to 95 °C (221 °F) and autoclaved in 134 °C (274 °F). In the US – in accordance with FDA regulations.

Note: Do not immerse the instrument into disinfection solutions or into ultrasonic baths!

LTA-tips

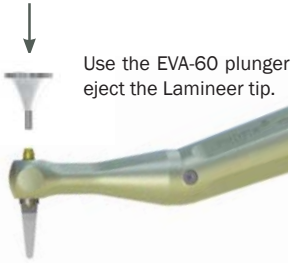
Remove debris clogging by scrubbing the diamond coated side against the dedicated cleaning block or clean the tips in an ultrasonic cleaner.

Sterilize the tips in an autoclave at maximum 134 °C (274 °F).

Autoclavable



Thermal disinfectior, without or with mild detergents.



Use the EVA-60 plunger to safely eject the Lamineer tip.

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Dentatus AB is certified to ISO 9001 / ISO 13485
US Pat. #5,326,263 and #5,385,469

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MADE IN SWEDEN

Profin® The ultimate instrumentation for finishing and polishing

A Guide for the use and maintenance of the Profin PDX contra-angle handpiece and tips

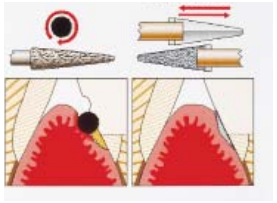
The Profin PDX with precise controlled movement of the reciprocating 1.2 mm motion is safe and ideal for delicate refining natural teeth and dental restorative materials. The PDX operates at low speeds and short intervals without automatic water spray, as spray is a major factor reducing the benefits of direct visibility. A small water spray clip is optionally available.

Recommended speed 5000-10000 (max) rpm.

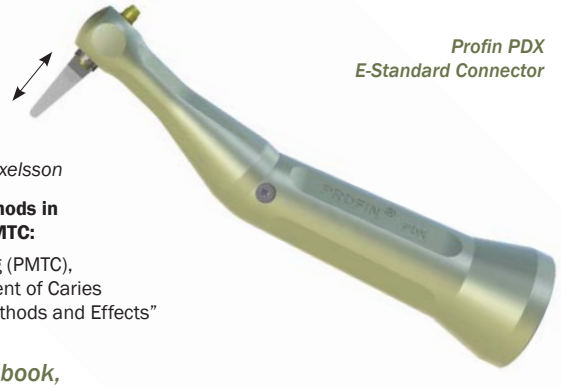
The PDX contra-angle can be set in a self-steering mode, which is most often used in polishing procedures. The alternate fixed mode is set by pushing the Lamineer® tip upward into one of the notched indexed positions of convenience. The fixed position is used for creating anatomical corrections for esthetic alignments. The primary feature of the system is the ability to reduce, finish and polish treated areas without creating grooves or blemishes.

PDX's companion series of Lamineer® tips provide easier access to hard-to-reach intraoral areas, and can be effectively used

- on enamel, metallic, ceramic and composite restorations
- for refining gingival and incisal embrasures to natural forms
- to contour and individualize anterior restorations
- to reshape and polish tooth contacting areas
- to correct and refinish at chairside margins prior to cementation



Illustrations from the book by Prof. Per Axelsson



Profin PDX
E-Standard Connector

Read more about Profin and other methods in Professor Per Axelssons book about PMTC:

"Professional Mechanical Tooth Cleaning (PMTC), Finishing and Minimally Invasive Treatment of Caries and Periodontal Diseases. Materials, Methods and Effects"

For more information about the book, contact your local dealer, or Dentatus Sweden direct.

Dentatus

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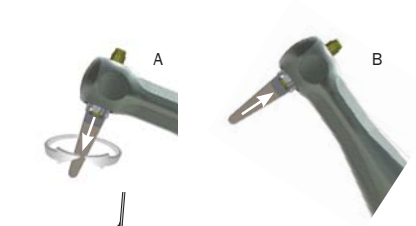
Profin® Lamineer tips *LTA®/EVA*

Cat # / Particle size in µ		Colour code	Shape	Recommended use
LTA-150/2	Diamond	Red		Removal of gross overhangs and shaping of all restorative material - use tips with large particle size.
LTA-100/2	Diamond	Green		
LTA-75/2	Diamond	Gold		
LTA-50/2	Diamond	Yellow		For shaping and polishing all prosthetic materials and enamel.
LTA-30/2	Diamond	White		
LTA-15/2	Diamond	Violet		Final polishing - use tips with small particle size.
LTA-39/2	Tungsten Carbide	Black		Tungsten Carbide does not scuff enamel. For final finishing of composite filling margins.
LTA-S150/2	Diamond	Red		Same use as above.
LTA-S100/2	Diamond	Green		Smaller and thinner tip provide better access to narrow areas and closer to interdental contact points.
LTA-S75/2	Diamond	Gold		
LTA-S50/2	Diamond	Yellow		
LTA-S30/2	Diamond	White		
LTA-S15/2	Diamond	Violet		
LTA-S36/2	Tungsten Carbide	Black		Tungsten Carbide does not scuff enamel. For final finishing of composite filling margins.
LTA-L75/2	Diamond	Gold		Coated on left or right side. For stripping and removal of contact points.
LTA-R75/2	Diamond	Gold		
LTA-L50/2	Diamond	Yellow		
LTA-R50/2	Diamond	Yellow		
LTA-E50/2	Diamond	Yellow		For occlusal and concave surfaces.
LTA-C50/2	Diamond	Yellow		For finishing shoulders, bevels etc.
LTA-D150/2	Diamond	Red		For shaping diverging surfaces and incisal edges.
LTA-D100/2	Diamond	Green		
LTA-D50/2	Diamond	Yellow		
LTA-D30/2	Diamond	White		
LTA-T50/2	Diamond	Yellow		For opening incisal and gingival, approximal areas.
LTA-T30/2	Diamond	White		

Tips for polishing with polishing paste. (Disposable plastic and wooden tips)

EVA-123-100	Plastic	Blue		Apply polishing paste in groove. The groove is pushed together when used approximally. Can be used either fixed or freely rotating.
EVA-123S-100	Plastic	Pink		
EVA-2000/100	Plastic	Green		Universal tips, only used freely rotating. Use with appropriate polishing paste
EVA-5000/100	Plastic	Blue		
EVA-7/50	Wooden			The wooden tip slightly absorbs the paste for longer action. For vibrating the cement when placing inlays/onlays.
PDS/MJ2/75	Wooden			

Instruction for use



Selection of tips
The selection of diamond grit is depending on the amount of material that has to be reduced. A general recommendation is the more material the more coarse diamonds. The removal of material and finishing should be made in steps.

NOTE: Never go from super-coarse to super-fine in one step, but use intermediate medium-coarse tips.

NOTE: The black Tungsten-Carbide-coated tips can always be used for finishing when there is a risk for abrasion on enamel, since Tungsten Carbide does not scar or scuff enamel.

NOTE: The wearing of the Diamond Tips is low. The durability is depending on the circumstances, for continued efficiency it is recommended not more than 30-40 times.

Prepare your Profin for work

Apply the LTA-tip in the piston. Check for secure seating by pulling the tip with your fingers. A firm resistance should be sensed. If tip comes out easily, try another tip or send handpiece for service.
The tip can be used in two different positions:

In position A, the tip is free to rotate to follow contours.

In position B, the tip is fixed in a position of convenience.

To change a fixed position, pull out the tip, turn and push it back into a new position. Mount the Profin handpiece on your micromotor. Internal water or spray should be turned off on the unit. External water connection can be used with the sprayclip (optional). Spray is under normal conditions not neccessary for cooling. If spray is not connected, rinse the area from debris if necessary with a 3-way syringe.
Rec. speed is 5000-10000 (max) rpm.

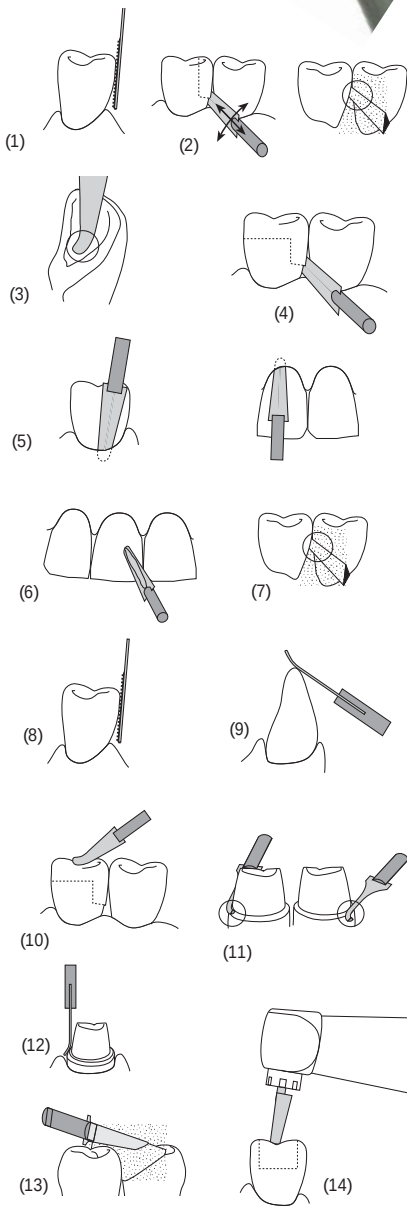
Reduction of overhangs and excess cements
Apply the tip on the material to be reduced or finished in parallell to the tooth contour (1). Start the motor, move the handpiece slowly up and down, or in and out in order to remove debris (2). Change for a finer diamond when the bulk of material has been reduced. Finish with 30 or 15 micron tip and polish with the plastic or wooden tips together with a polishing paste.

When cementing laminates on incisors, the excess material in the palatinal concavity can easily and safely be removed with a bent tip (3).

Adjustment of inlay margins
The margins can normally be finished together with removal of excess luting material (4). The procedure is similar to removal of overhangs. If inlays/onlays are being made on adjacent teeth, finish each tooth after cementation for easier access, and polish when all have been cemented.

Removal of subgingival excess cements
The tips are non-traumatic to soft tissue and can be used subgingival (5). Select a suitable tip (normally this procedure does not require super-coarse or coarse tips). Apply the tip on the subgingival surface and start the motor. The tips can be either fixed or in a swirel position whichever provides the best tactile sense. For subgingival polishing the blue spatula-shaped tip EVA -5000 or the wooden tip EVA-7 may be used.

Additional uses for Profin:
- Shaping and adjustment of corners (6)
- Shaping of approximal embrasures (7)
- Shaping of contours (8)
- Shaping/adjustment of incisal edges (9)
- Adjustment of occlusion (10)
- Finishing of shoulders (11)
- Preparation of bevels (12)
- Stripping (13)
- Vibration for cementation (14)



For all these additional applications, use the above techniques and recommendations as a guideline