PRIMA DENTAL

Removal of Porcelain Fused Metal (PFM) Crowns

PACKAGING

Predator® Accu-Prep and Predator® DX

A range of packaging options available to suit the dentist's needs, ensuring convenience and optimal product protection.

Aluminium bur blocks are available for Predator® DX and Predator® Accu-Prep product ranges.

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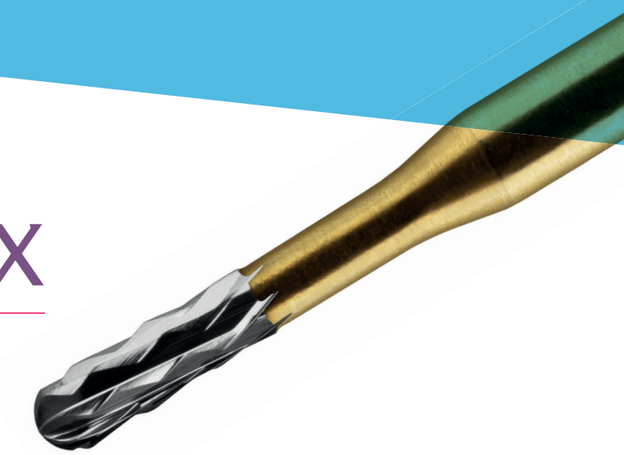
5/10 Available in Blister Packs of 5 and 10.

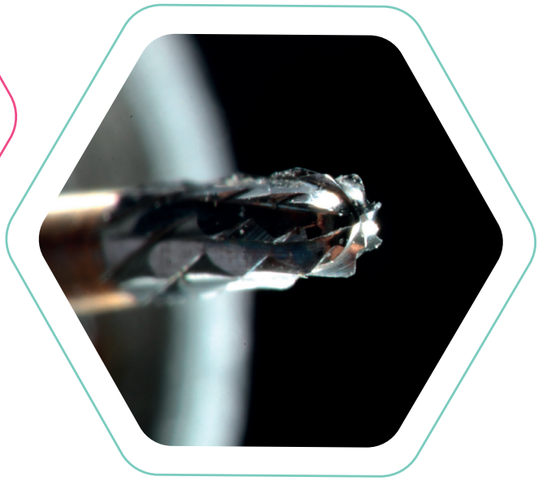
Sterisafe® Metal Cutting burs are packaged in individual gamma sterile pouches offering the patient and dental professional confidence and ultimate infection control.

PREDATOR® DX



Predator® DX in handpiece
Blended solid carbide neck dissipates stress throughout the bur.

Predator® DX, view of the cutting tip
Solid, single piece construction, cutting geometry for ceramics and metal, tough and highly durable.



The Predator® DX replaces both the diamond used to remove the porcelain and the metal cutting bur for the metal. The Predator® DX is two burs in one.

Predator® DX Bur Technical Information

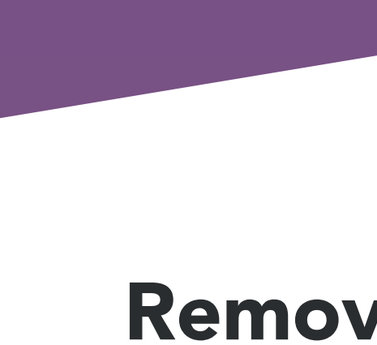
With the need to cut materials that are harder than metal alloys, the Predator® DX has been developed to specifically cut through PFM crowns. Compared to traditional transmetal burs, its a sharper bur with greater helix angles and multiple cross-cuts, creating more long lasting blades, with a smoother cutting capability. This is essential for cutting through extremely hard substrates.

Removal Technique

The removal of PRM crowns can be carried out using a combination of diamond burs to cut through porcelain and a transmetal bur for the metal part. This technique requires a greater number of steps and more time at the clinic, because dentists will have to change the rotary instruments (diamond bur and transmetal bur) several times depending on the crowns they are removing. With the advent of new rotary instruments and technology to improve cutting capacity in hybrid crowns (e.g. metal-ceramic), this procedure can be carried out in a single step, without the need to change rotary instruments during cutting. Prima Dental's Predator® DX offers a more efficient solution to cut through PFMs.

The following is a step-by-step removal technique.

1



Initial condition of PFM crown requiring removal and replacement with a ceramic crown.

2

Close-up view of the crown requiring replacement.

3

Predator® DX

4

Predator® DX selected due to its ability to cut through both ceramic and metal layers.

5

Cutting the ceramic layer.

6

Crown cutting.

7

Cutting the incisal and middle third.

8

It is very important that irrigation fluids are used abundantly.

9

Ceramic layer cut.

10

Metal layer cut.

11

Metal pin to be retained.

PREDATOR® Accu-Prep

Crown Preparation

The re-preparation stage is crucial for establishing the insertion axis and ensuring the precise adaptation of the future crown to the remaining tooth structure. This step can be carried out with **Predator® Accu-prep** range of preparation burs (e.g. 856-16, 379, 856-10, etc.).

In this sequence below, you can see the re-preparation stage using the Prima Dental bur range.

1

Occlusal trimming with **Predator®Accu-prep 379-023**.

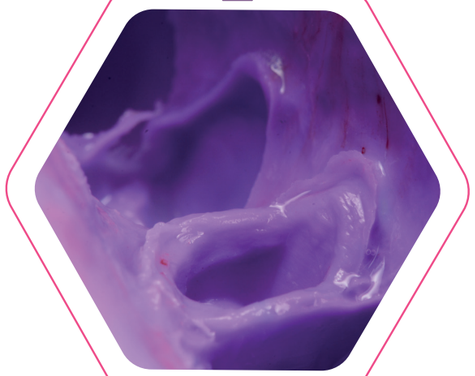
2

Re-preparation of the tooth preparation walls with the **Accu-prep 856-016**.

3

Finishing the preparation with a Prima Dental **FG 218**.

4



Moulding with added silicone.

5

Ceramic crown to be cemented.

6

Final image immediately after cementation.

PRIMA DENTAL

ACKNOWLEDGEMENTS

We would like to thank Dr. Paulo V. Soares DDS, MS, PhD and the engineering team at Prima Dental Group for the technical information and images included in this book.

Prima Dental burs listed within this e-book:

Predator® DX
Predator® Accu-prep 379 023
Predator® Accu-prep 856 016
Orthodonctic FG 218