

# Kids-e-Crown

*"The Smart Crown"*

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Anterior Technique

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# About us

## Who are we?

We are a team driven by passion and innovation to develop quality pediatric dental products. All products are research based and passionately made by the best professional using the latest technology in the world and the years of experience in the field.

Started our journey in 2014 by developing Kids-e-Crown™ and doing the clinical trial and iterating the designs for an optimum crown which would satisfy clinical needs of pediatric dentist around the world.

**Kids-e-Dental**

## Why Zirconia ?

- Also known as Zirconium Dioxide ( $ZrO_2$ )
- Its been used in Dentistry and other medical applications like hip-replacement because of its unique properties.



High  
Strength

Load bearing  
1200 MPa



Chemical  
Resistant

Chemically  
Stable



Wear  
Resistant

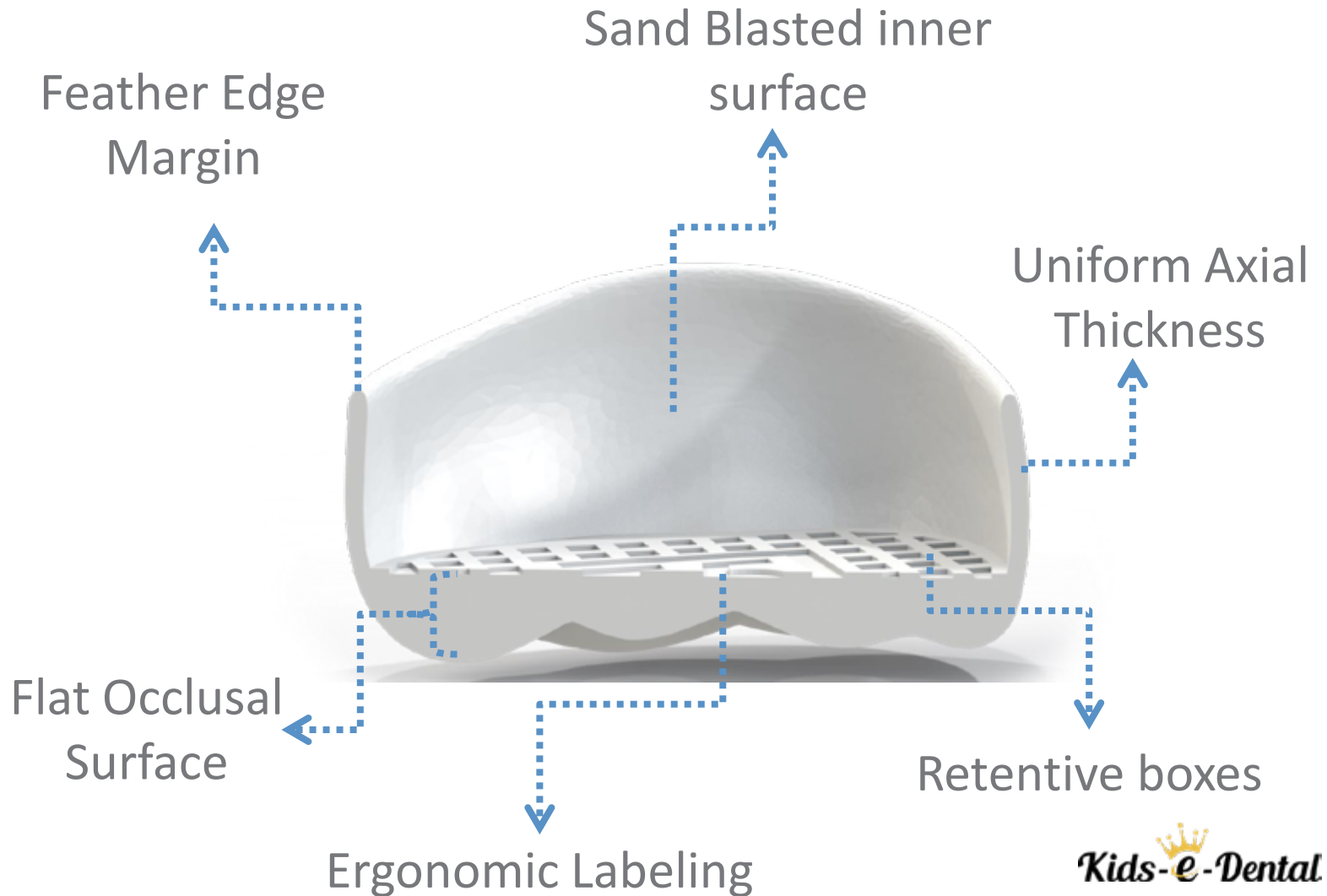
High Resistance  
to wear and tear



Bio  
Compatible

Highly Bio-  
Compatible

## Posterior Design Cross Sectional View



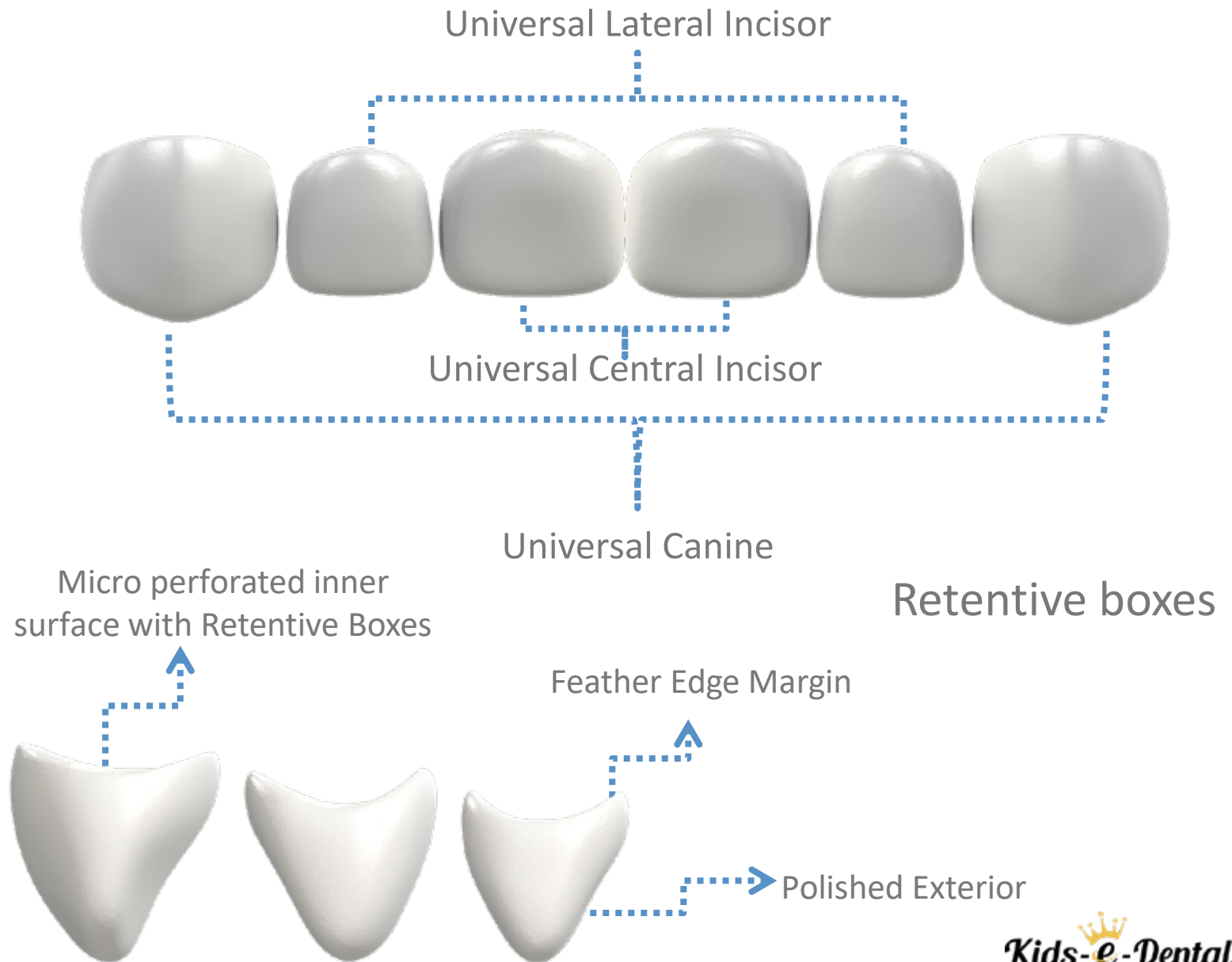
# Posterior Design



- **Occlusal Flat Surface** : Easy and fast to prepare with more stability and high stress bearing potential.
- **Uniform Axial Thickness** : Lesser tooth reduction axially.
- **Strategic sizing** : Narrow and mid size crowns helps in space loss and adjacent crown cases with minimal preparation.
- **High Adhesion** : Sand blasted surface along with retentive micro-mechanical boxes helps to enhance mechanical adhesion
- **Natural Look** : Kids-e-crowns are specifically designed to give a natural look with colour, translucency and contours on the crown
- **Smart Labelling** : Permanently embossed tooth number and size marking.



# Anterior Design







## Anterior Design

- **Universal Design** : No left and right side crown cut short the inventory and lessen the confusion.
- **High Adhesion** : Sand blasted surface along with retentive micro-mechanical boxes helps to enhance mechanical adhesion
- **Natural Look** : Kids-e-crowns are specifically designed to give a natural look with colour, translucency and contours on the crown.
- **Smart Labelling** : Permanently embossed tooth number and size marking.



The following chart shows the sizing dimension of Kids-e-Crown



**Kids-e-Crown** *"The Smart Crown"* sizing guide



CENTRAL INCISOR	
SIZE	MAXILLARY
0	5.7
1	6.1
2	6.5
3	6.9
4	7.3
5	7.9

LATERAL INCISOR	
SIZE	MAXILLARY
0	4.4
1	4.8
2	5
3	5.4
4	5.8
5	6.2

CUSPIDS		
SIZE	MAXILLARY	MANDIBULAR
0	6.5	5.3
1	6.9	5.6
2	7.2	5.9
3	7.5	6.1
4	7.9	6.4
5	8.3	6.8

1ST MOLAR		
SIZE	MAXILLARY	MANDIBULAR
2	7	7.3
3N	7.2	7.5
3	7.4	7.7
4N	7.6	8
4	7.8	8.2
5N	8	8.3
5	8.2	8.6
6	8.8	9.0

2ND MOLAR		
SIZE	MAXILLARY	MANDIBULAR
2	9.2	9.4
3N	9.4	9.6
3	9.6	9.9
4N	9.8	10.1
4	10	10.4
5N	10.3	10.6
5	10.8	10.8
6	11.5	11.2

# Mesio-distal dimensions in millimetres (mm)

# N-Narrow or mid size



# Anterior Technique

## Crown Selection

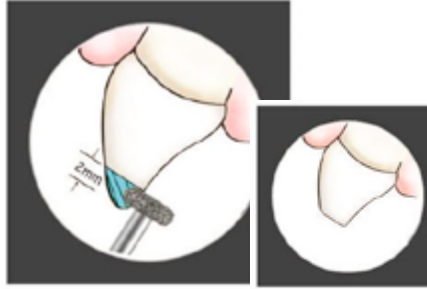
Step 1



- Choose appropriate size of crown using mesio distal width

## Inicisal Preparation

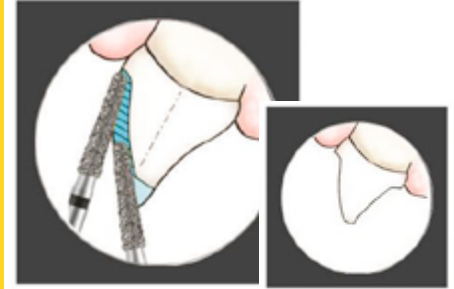
Step 2



- Cut 1.5 to 2 mm inicisal edge

## Supragingival Preparation

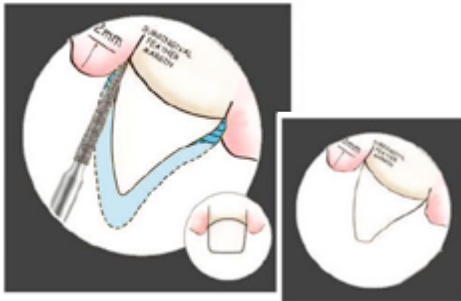
Step 3



- Create a chamfer margin all around the tooth by reducing 0.5 – 1mm

## Subgingival Preparation

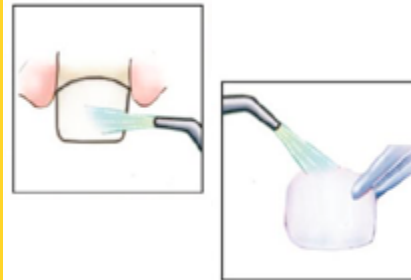
Step 4



- Remove chamfer margin extend 2mm subgingivally without ledge formation

## Check Fit & preparation

Step 5



- Round off line angles
- Crown should be passive fit
- Clean crown with water and alcohol
- Control Bleeding

## Cementation

Step 6



- We recommend Glass Inomer cement.
- Cement using light finger pressure
- Remove Residual cement

# Posterior Technique

## Crown Selection

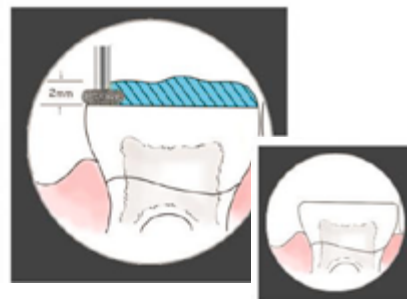
Step 1



- Choose appropriate size of crown using mesio distal width

## Occlusal Preparation

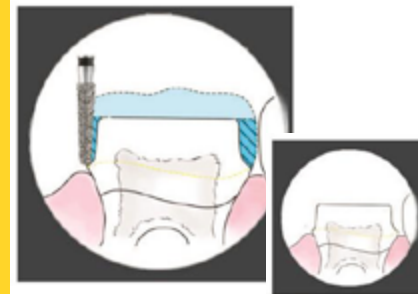
Step 2



- Reduce 1.5 to 2 mm
- Keep Preparation flat

## Supragingival Preparation

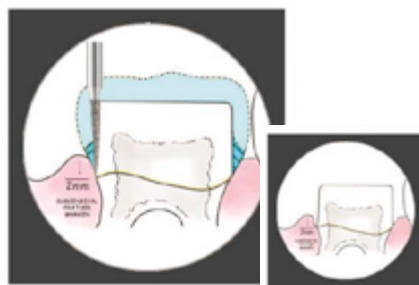
Step 3



- Create a chamfer margin all around the tooth by reducing 0.5 – 1mm

## Subgingival Preparation

Step 4



- Remove chamfer margin extend 2mm subgingivally without ledge formation

## Check Fit & preparation

Step 5



- Round off line angles
- Crown should be passive fit
- Clean crown with water and alcohol
- Control Bleeding

## Cementation

Step 6



- We recommend Glass Inomer cement.
- Cement using light finger pressure
- Remove Residual cement

# Sterilization Technique

- The crowns can be sterilized in an autoclave , before autoclaving clean off the blood and saliva with alcohol.
- Repeated cycles of autoclaving wont affect the strength, material properties and colour of the crowns.



# Anterior Cases



# Posterior Cases





# Anterior Kit Details

## Central & Lateral Incisor

### Master Kit - 24 Crowns

Size	0	1	2	3	4	5
Central Incisor	2	2	2	2	2	2
Lateral Incisor	2	2	2	2	2	2



### Starter Kit - 16 Crowns

0	1	2	3	4	5
	2	2	2	2	
		2	2	2	2

Size

Central Incisor

Lateral Incisor

### Trial Kit- 8 Crowns

0	1	2	3	4	5
		2	2		
		2	2		

## Canine

### Master Kit - 24 Crowns

Size	0	1	2	3	4	5
Upper Canine	2	2	2	2	2	2
Lower Canine	2	2	2	2	2	2

### Starter Kit - 16 Crowns

0	1	2	3	4	5
	2	2	2	2	
		2	2	2	2

Size

Upper Canine

Lower Canine

### Trial Kit- 8 Crowns

0	1	2	3	4	5
		2	2		
		2	2		



## Anterior Master Kit 48 Crowns

Size	0	1	2	3	4	5
Central Incisor	2	2	2	2	2	2
Lateral Incisor	2	2	2	2	2	2
Upper Canine	2	2	2	2	2	2
Lower Canine	2	2	2	2	2	2



## Anterior Starter Kit 32 Crowns

0	1	2	3	4	5
	2	2	2	2	
		2	2	2	2
	2	2	2	2	
	2	2	2	2	

## Anterior Trial Kit 16 Crowns

Size	0	1	2	3	4	5
Central Incisor			2	2		
Lateral Incisor			2	2		
Upper Canine		2	2			
Lower Canine		2	2			

# Posterior Kit Details

## Posterior Master Kit\*\*

### 32 Crowns

Size	2	3n	3	4n	4	5n	5	6
Upper Right	1	1	1	1	1	1	1	1
Upper Left	1	1	1	1	1	1	1	1
Lower Right	1	1	1	1	1	1	1	1
Lower left	1	1	1	1	1	1	1	1



## Posterior Starter Kit\*\*

### 20 Crowns

2	3n	3	4n	4	5n	5	6	Size
1		1		1		1	1	Upper Right
1		1		1		1	1	Upper Left
1		1		1		1	1	Lower Right
1		1		1		1	1	Lower left

## Posterior Trial Kit\*\*

### 12 Crowns

2	3n	3	4n	4	5n	5	6
		1		1		1	
		1		1		1	
		1		1		1	
		1		1		1	

\*\* - Applicable for both **Primary First Molar** and **Primary Second Molar** kit

## **Can we alter Kids-e-crowns ?**

We do not recommend altering Kids-e-Crown

But you can alter it marginally if necessary with use of zirconia adjustment burs with light hands in continuous presence of water spray.

## **What type of cement you recommend?**

A normal Glass Inomer Cement with quick setting is recommended

## **Do you provide try-in crowns?**

No, we do not provide and do not recommend try-in crowns, since they are an additional liability and dead inventory to manage.

Instead you can select the crown by placing them on the target tooth and the ones which do not fit can be cleaned off with alcohol and sterilised in an autoclave and reused again.

## **Can the crown be crimped like stainless steel crown ?**

No they can't be crimped