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**WE
KNOW
ENDO.**



Start-X[®]

Achieve higher control and precision
with ultrasonic inserts specifically
designed for access cavity refinement
and canal orifice location

A well prepared access cavity and location of canal openings are recognized as key factors to the success of endodontic treatments

The use of ultrasonic inserts is advised for these applications thanks to two main characteristics:

- A great working precision
- An incomparable view of the operative field

Dentsply Sirona Endodontics has therefore developed, together with Dr Berutti, Dr Cantatore and Dr Castellucci, a range of ultrasonic tips based on a simple concept:

ONE TIP – ONE CLINICAL INDICATION



Each tip has been designed for a specific indication and has the following main characteristics:

Micro milled active part

- Minimized risk of potential diamond grit loss in the patient's mouth

Water port

- Cools down the insert and avoids overheating of the treated tooth. This is particularly important when removing metal posts which usually require high energy
- The intermittent use of irrigation enables the clinician to alternate between dry precision work and debris evacuation

Excellent resistance to fracture

“According to my clinical experience, the Start-X[®] tips are one of the most fracture resistant ultrasonic inserts I have used”*

Professor Elio Berutti

*Individual clinical results may vary

One tip – one clinical indication



Start-X® 1

- | | |
|----------------------------|---|
| Application | ▪ Access cavity wall refinement |
| Non active tip | ▪ Avoids accidentally damaging the pulp chamber floor |
| Active lateral part | ▪ Creates a straight access to the canal |



Start-X® 2

- | | |
|----------------------------|--|
| Application | ▪ MB2 canal scouter
(2nd canal mesio buccal root) |
| Active tip | ▪ Removes the dentine that often conceals the MB2 access in upper molars |
| Active lateral part | ▪ Creates a straight access to the canal |



Start-X® 3

- | | |
|--------------------|--|
| Application | ▪ Canal openings scouter |
| Active tip | ▪ Removes the obstructions that prevent a straight access to the canal |



Start-X® 4

- | | |
|------------------------|--|
| Application | ▪ Metal post removal |
| Specific design | ▪ Suitable for working efficiently both on the top and the sides of the metal post |
| Water port | ▪ Avoids over heating |



Start-X® 5

- | | |
|---------------------------------|--|
| Application | ▪ Reveals the original pulp chamber floor anatomy |
| Active tip | ▪ Canal orifice location made easier thanks to the removal of calcifications and filling materials that hide the original pulp chamber floor anatomy |
| Thin and cylindrical tip | ▪ Good visibility |



Power settings

In general, within the recommended guidelines, start with a lower power setting and only increase the power if necessary to safely accomplish the procedural task

	SATELEC P5 NEWTRON		EMS MINIPIEZON	
	Min ←	Max →	Min ←	Max →
Start-X® 1	16	18	8	9
Start-X® 2	16	18	8	9
Start-X® 3	10	18	4	7
Start-X® 4	18	20	9	10
Start-X® 5	7	18	3	8

Power settings for other ultrasonic units are available on Dentsply Sirona Endodontics website:

www.dentsplymallefer.com

- The power setting is adjusted depending on the specific clinical application
- The inserts have been designed to be exclusively used with a Piezo ultrasonic generator
- Technical specification/thread:

References



M3x0.6mm SATELEC TYPE	M3x0.5mm EMS TYPE	Start-X® 1	Start-X® 2	Start-X® 3	Start-X® 4	Start-X® 5	X Box
A 0660-1	A 0661-1	●					1x
A 0660-2	A 0661-2		●				1x
A 0660-3	A 0661-3			●			1x
A 0660-4	A 0661-4				●		1x
A 0660-5	A 0661-5					●	1x
A 0660-6	A 0661-6	●	●	●	●	●	5x

Available on Dentsply Sirona Endodontics website: www.dentsplymallefer.com a video from Dr Berutti, Dr Cantatore and Dr Castellucci, illustrating the use of each Start-X® insert.