TiLOS Rules of Engagement

- The Apical Instrument (A.I.) will vary depending on the initial dimensions of the canal in the apical third.
- Instrument 5 sizes larger than the A.I.
- Canals must be instrumented to at least a #15 hand file to establish patency prior to using engine driven files.
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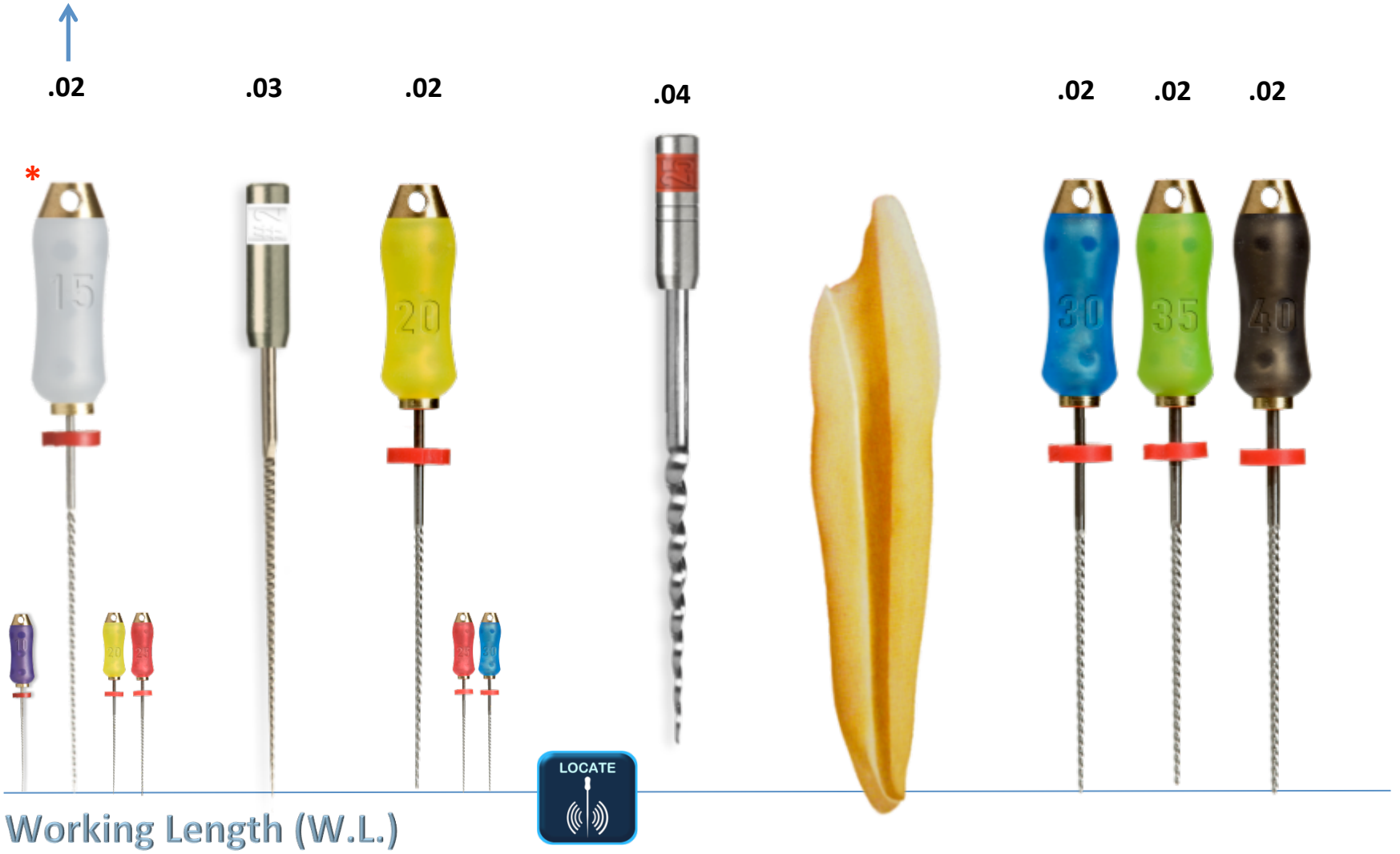
= confirm working length with the A.I. or larger file using an apex locator.
- All canals demonstrate a critical zone in at least one of the thirds, which require shaping files for safe instrumentation.
- Curved canals often require the use of NiTi instruments.

-Initial Steps
-Negotiation
-Apical Instrument Determination
-Working Length Determination

Straight and Narrow Canals



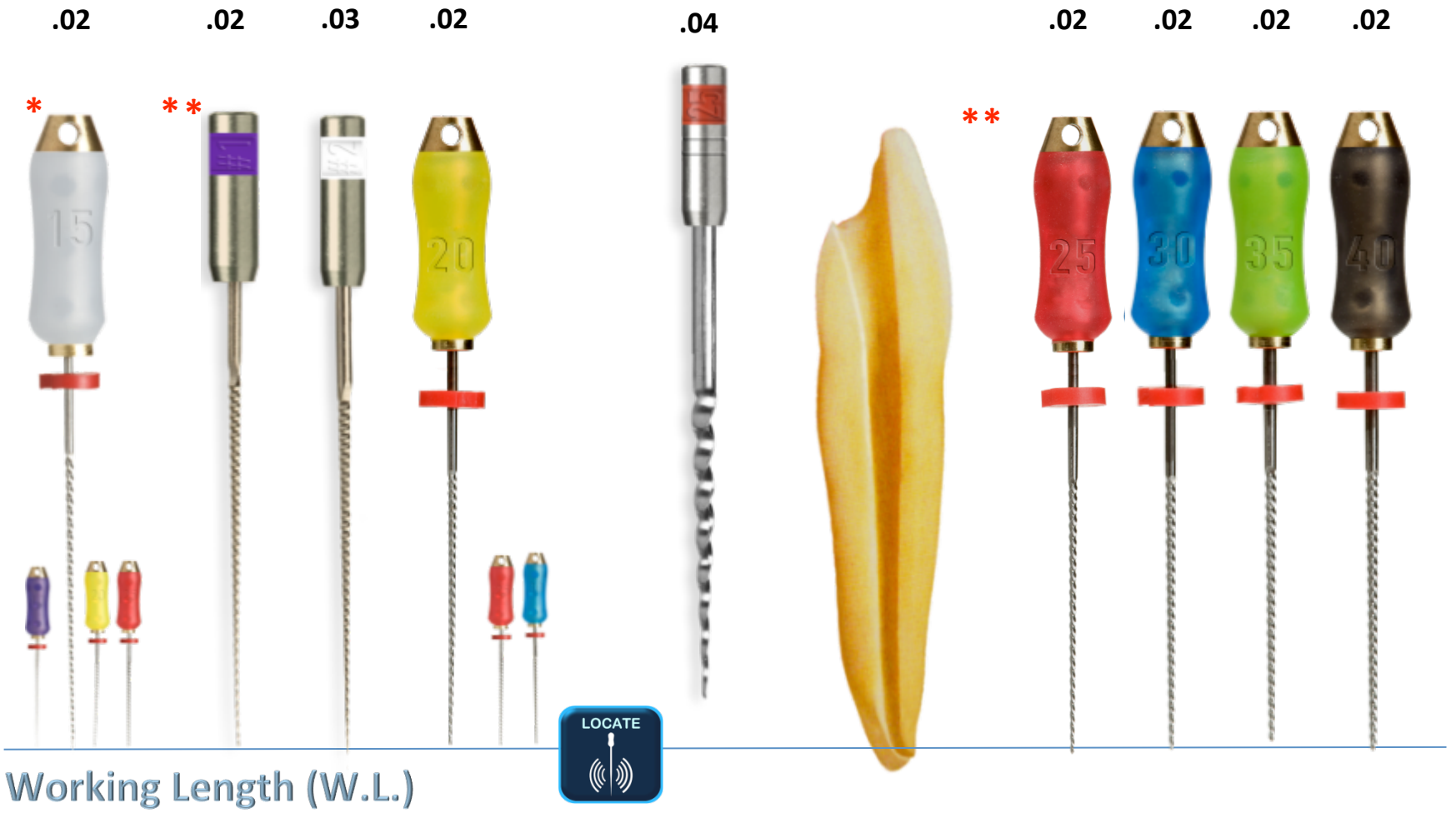
*File size may vary depending on the initial dimensions of the canal in the apical third

1- Lower incisors
2- Upper pre-molars
3- Distal-buccal upper molars

-Initial Steps
-Negotiation
-Apical Instrument Determination
-Working Length Determination

Straight and Narrow Canals

** Add these files for calcified canals or retreatment

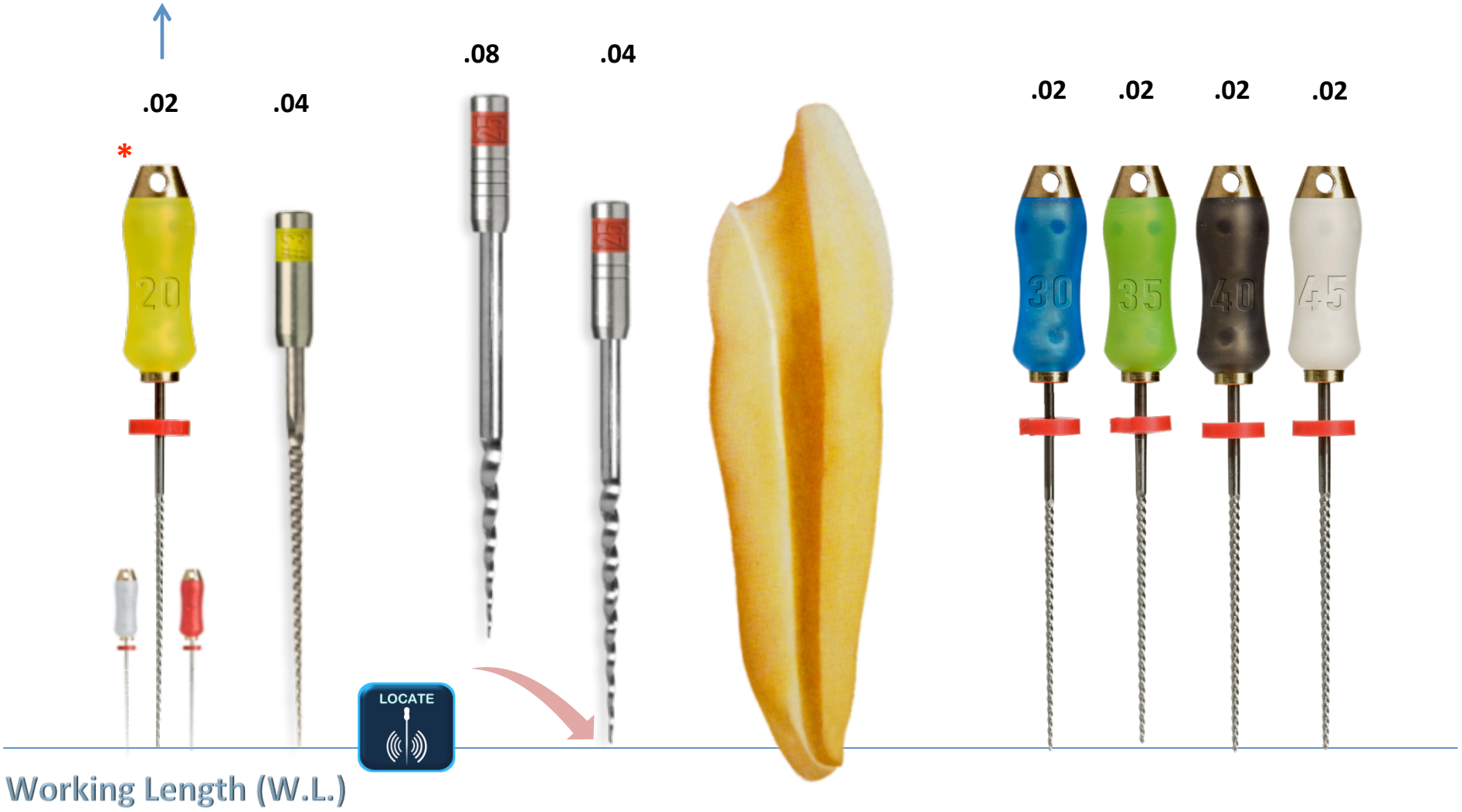


*File size may vary depending on the initial dimensions of the canal in the apical third

1- Lower incisors
2- Upper pre-molars
3- Distal-buccal upper molars

-Initial Steps
-Negotiation
-Apical Instrument Determination
-Working Length Determination

Straight and Large Canals

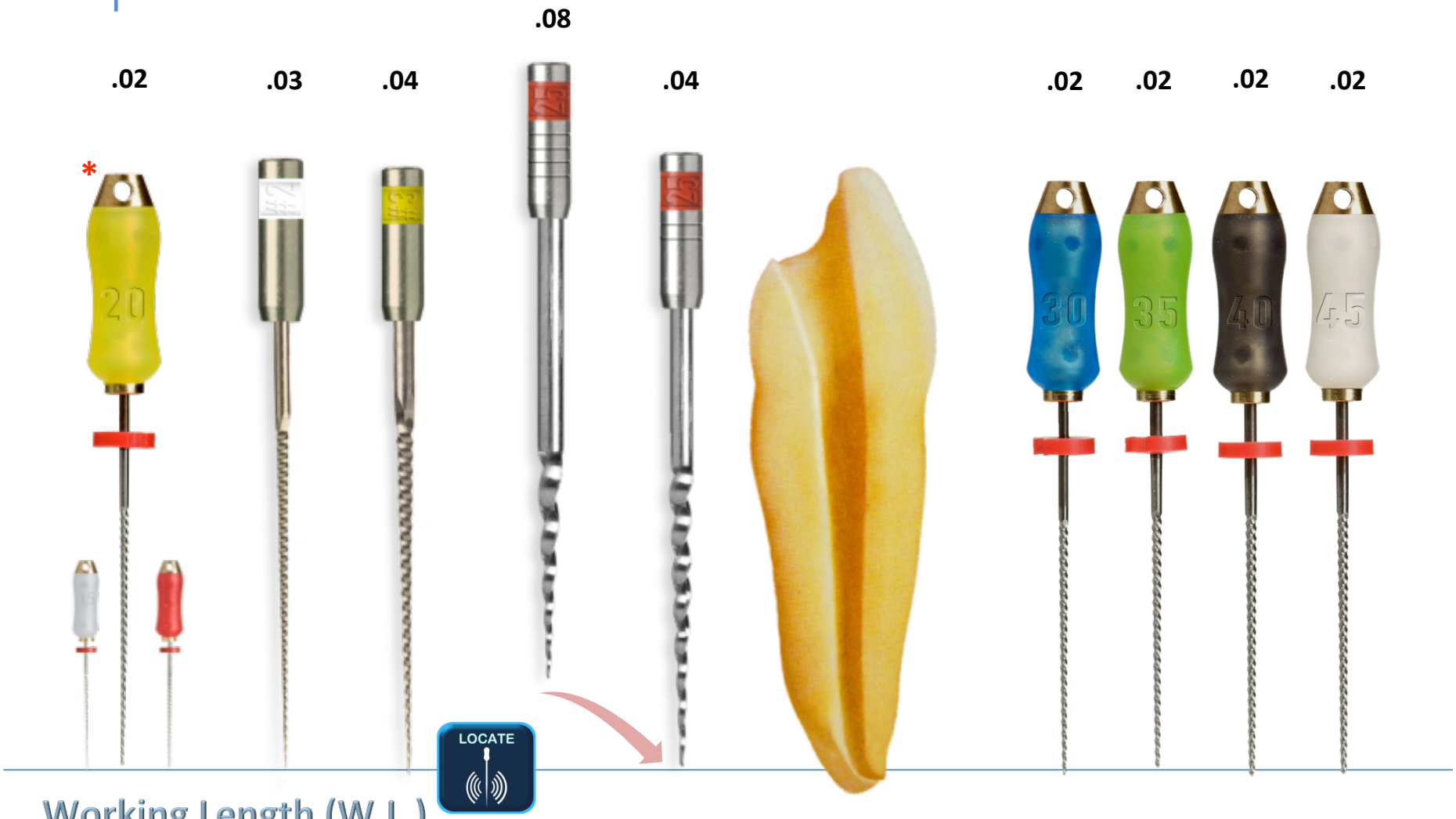


*File size may vary depending on the initial dimensions of the canal in the apical third.

1- Upper Central incisor
2- Upper and lower canines
3- Lower pre-molars

-Initial Steps
-Negotiation
-Apical Instrument Determination
-Working Length Determination

Curved and large Canals



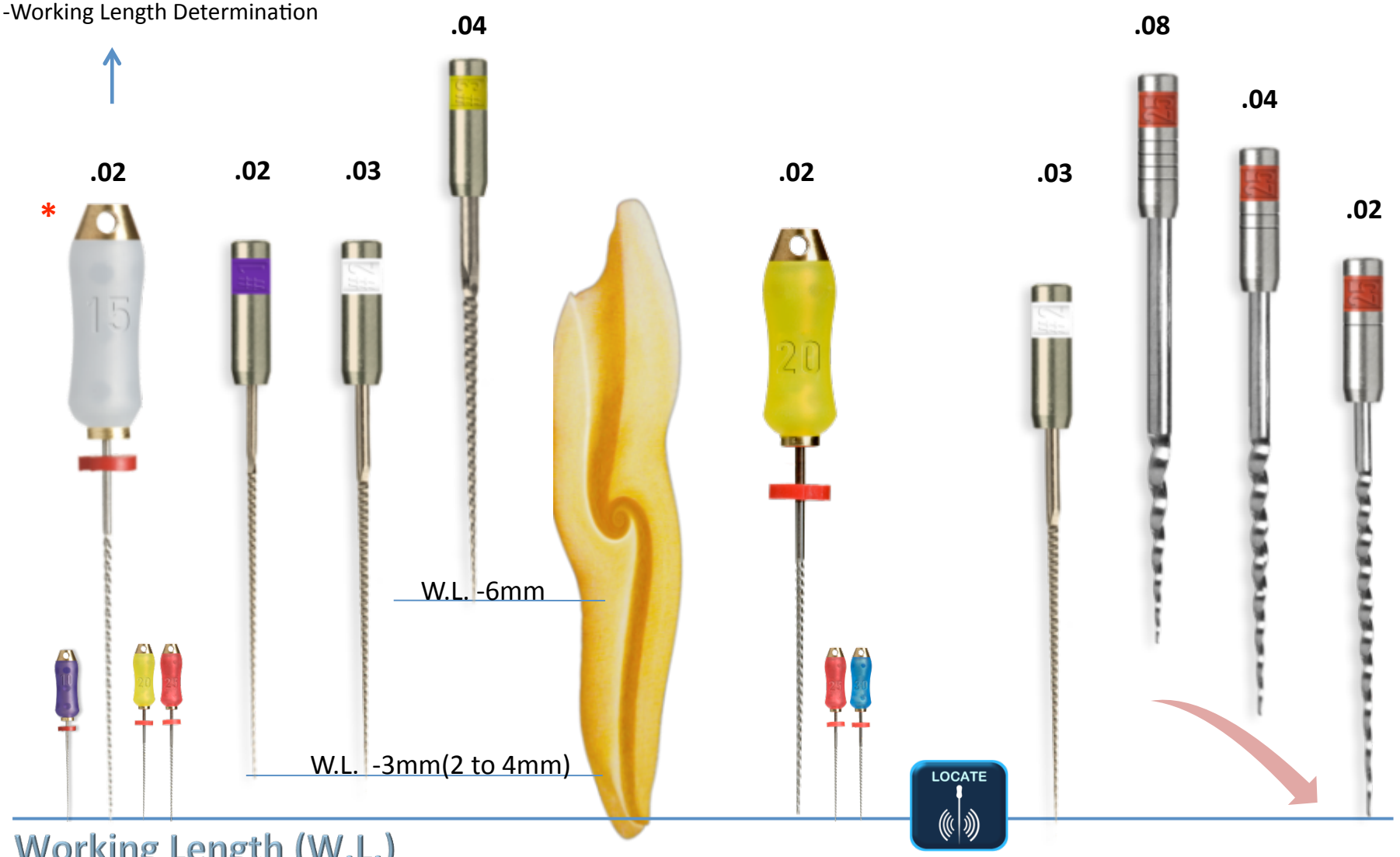
Working Length (W.L.)

* File size may vary depending on the initial dimensions of the canal in the apical third

1- Upper lateral incisor
2- Palatine canal of upper molars
3- Distal canals of lower molars

-Initial Steps
-Negotiation
-Apical Instrument Determination
-Working Length Determination

Curved and Narrow Canals



1- Mesial buccal and 4th canal of upper molars
2- Mesial canals of lower molars

* File size may vary depending on the initial dimensions of the canal in the apical third

- Critical Zones (v shaped areas) are best instrumented with shaping files.

- In curved and narrow canals, it is imperative to readdress these critical zones with a #2 shaping file prior to instrumenting with transitional files to the apex.

NiTi Apical Preparation

Recommend apical finishing to 5 sizes larger than the A.I.

Working Length (W.L.)