DENTSPLY MAILLEFER

Clinical Education

PROTAPER • NEXT™

Trainer Module

+ WE KNOW ENDO.

DENTSPLY
MAILLEFER

PROTAPER•NEXT™

+ Performance
and
Versatility

+
WE
KNOW
ENDO.

DENTSPLY MAILLEFER

2001 ProTaper

2006 PROTAPER® UNIVERSAL

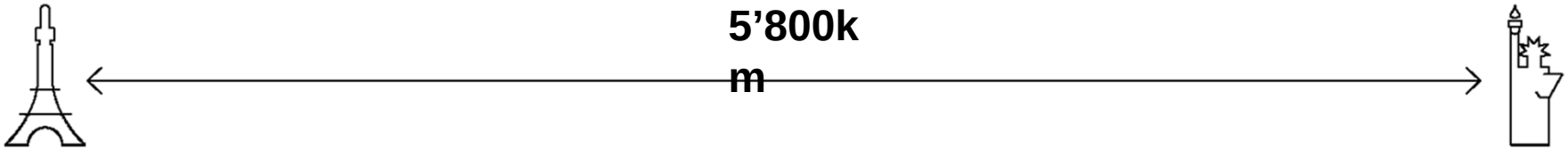
2013 PROTAPER • NEXT™

+ WE KNOW ENDO.

DENTSPLY MAILLEFER

Placed one by one, the total length will be :

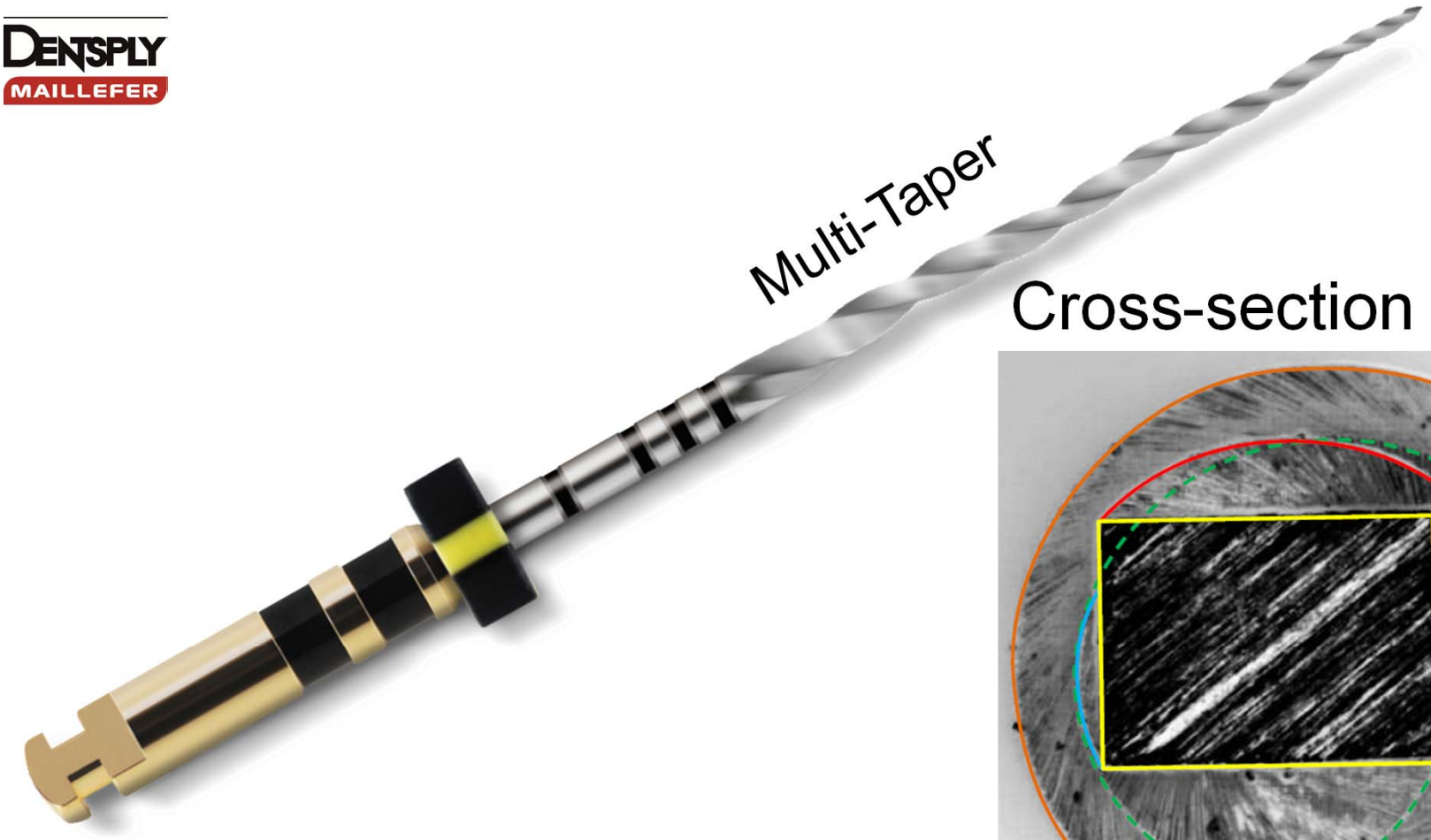
+ More than 5800 km of PROTAPER® files



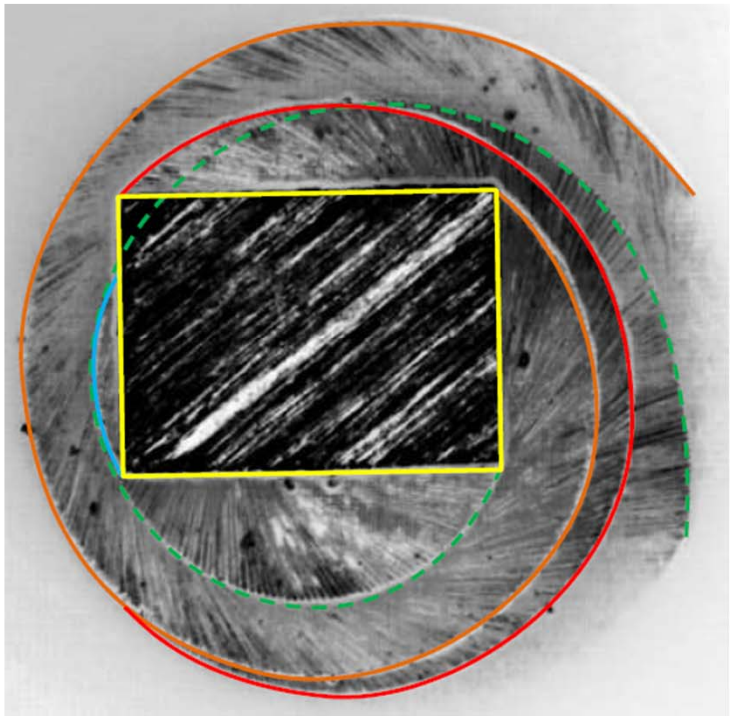
and the total weight of all Protaper will be of : 78 tons of instruments or 12 elephants

+ WE KNOW ENDO.

DENTSPLY MAILLEFER



Cross-section at 9 mm



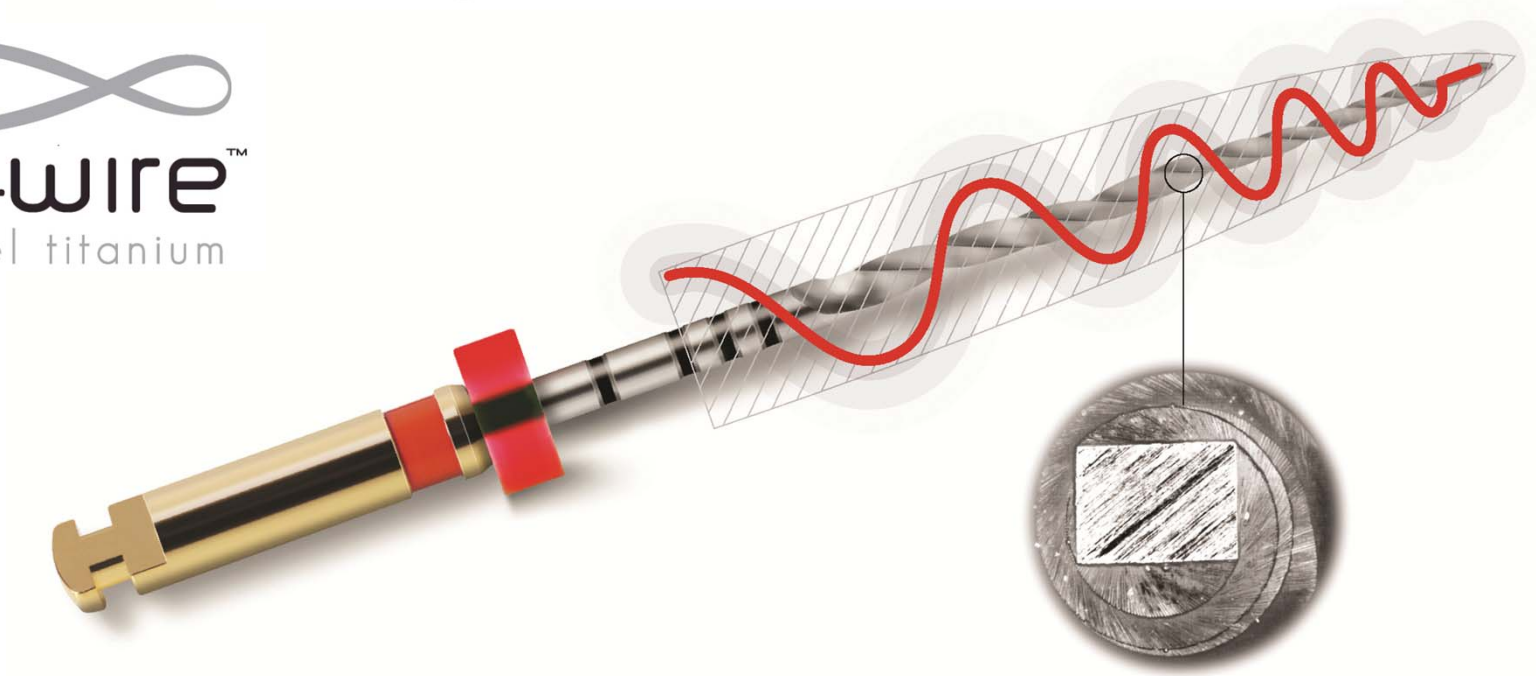
Eccentric Rectangular Section

WE KNOW ENDO.

DENTSPLY MAILLEFER

PROTAPER • NEXT™

m-wire™
nickel titanium



Swaggering effect (snaking motion)

- **Enlarged space for debris removal**
- **Respect canal anatomy**

single patient **use**

+ WE KNOW ENDO.

DENTSPLY MAILLEFER

PROTAPER • NEXT™

The PROTAPER philosophy remains:

- **A single sequence of files for all clinical cases**
- **Variable tapers for optimized crown-down technique**
- **Recognized apical finishing diameters**

+ WE KNOW ENDO.

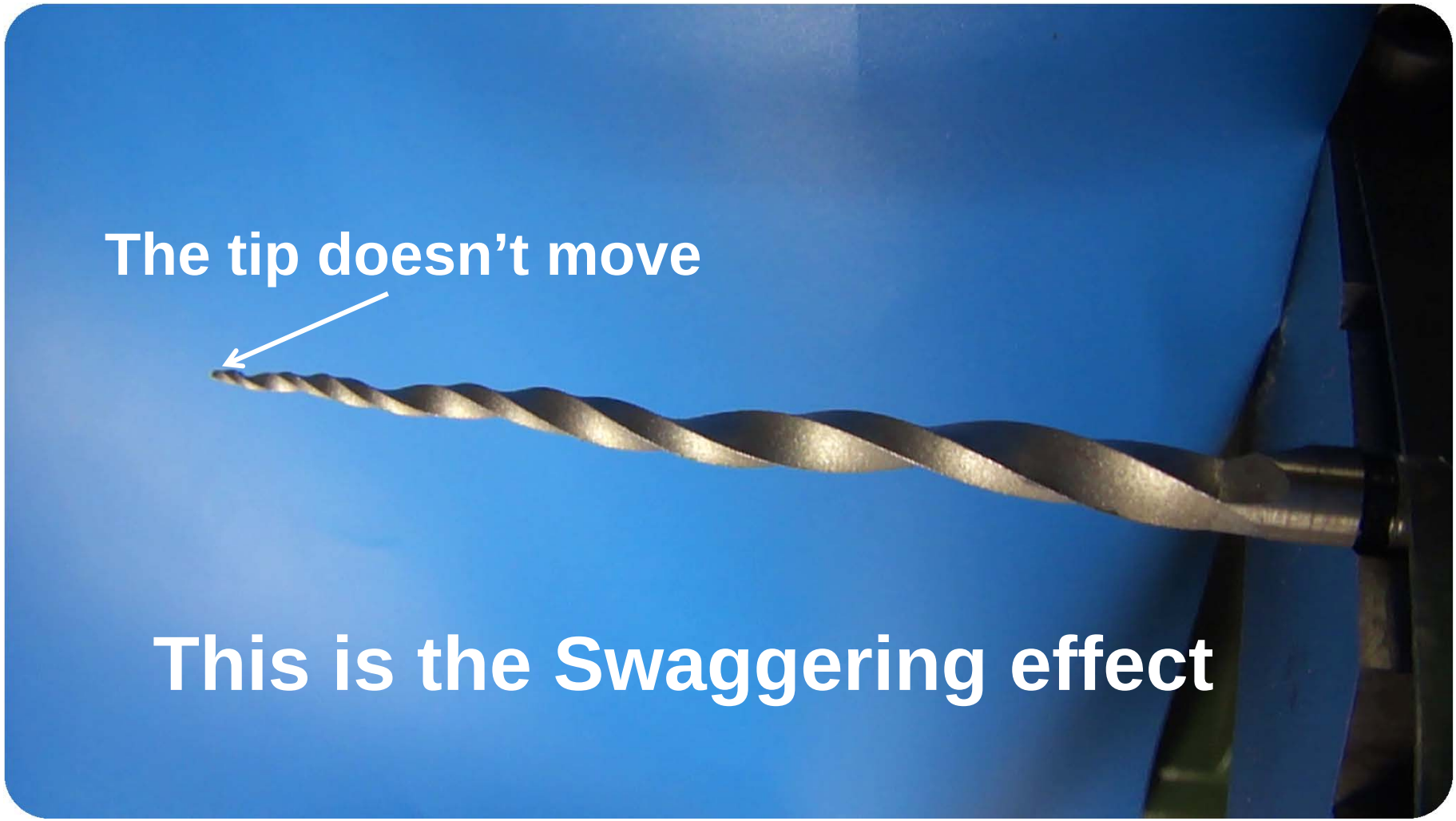
DENTSPLY MAILLEFER

PROTAPER NEXT™ Next Generation Technology

Instrument cross section surface = **46%** of the cutting envelope surface (compared to 58% by PTU).

More space for debris removal with PTN.

WE KNOW ENDO.


The tip doesn’t move
This is the Swaggering effect

DENTSPLY MAILLEFER

X1 0,17 / 0.04

X2 0,25 / 0.06

X3 0,30 / 0.07

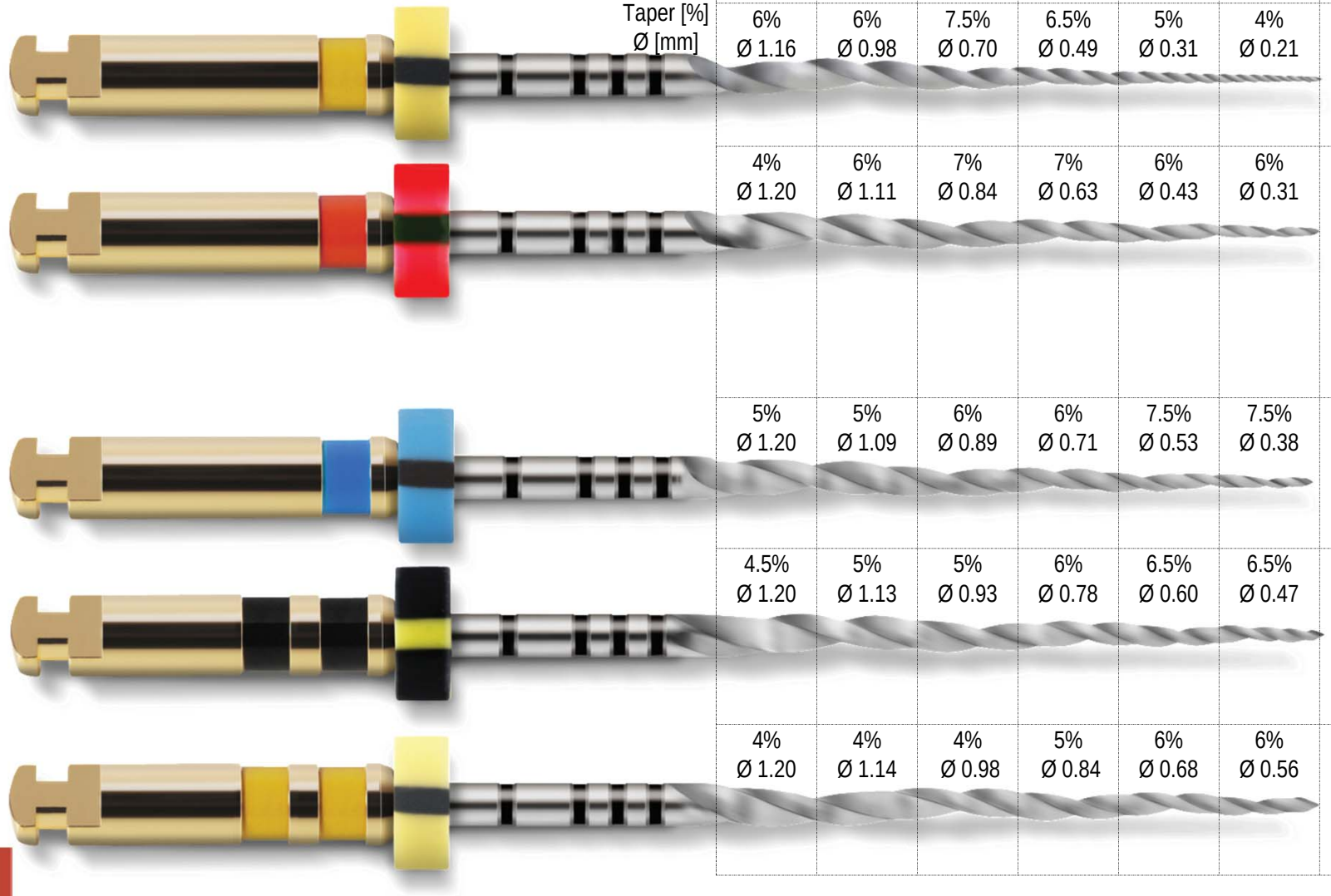
X4 0,40 / 0.06

X5 0,50 / 0.06

+ WE KNOW ENDO.

DENTSPLY MAILLEFER

PROTAPER • NEXT™



	Active part lengths						
	16mm	13mm	9mm	6mm	3mm	1mm	Tip Ø
X1	6% Ø 1.16	6% Ø 0.98	7.5% Ø 0.70	6.5% Ø 0.49	5% Ø 0.31	4% Ø 0.21	0.17
X2	4% Ø 1.20	6% Ø 1.11	7% Ø 0.84	7% Ø 0.63	6% Ø 0.43	6% Ø 0.31	0.25
X3	5% Ø 1.20	5% Ø 1.09	6% Ø 0.89	6% Ø 0.71	7.5% Ø 0.53	7.5% Ø 0.38	0.30
X4	4.5% Ø 1.20	5% Ø 1.13	5% Ø 0.93	6% Ø 0.78	6.5% Ø 0.60	6.5% Ø 0.47	0.40
X5	4% Ø 1.20	4% Ø 1.14	4% Ø 0.98	5% Ø 0.84	6% Ø 0.68	6% Ø 0.56	0.50

+ WE KNOW ENDO.

DENTSPLY MAILLEFER

PROTAPER • NEXT™

m-wire™
nickel titanium

SEQUENCE - MODE OF USE

+ WE KNOW ENDO.

DENTSPLY MAILLEFER

FOR ALL OPL TEACHING

PROTAPER•NEXT™

THE FOLLLOWING SLIDE IS THE "DFU"
Direction For Use

This is the sequence recommended by all the Designer Group of endodontists and the Manufacturer.

Please teach and use ONLY this sequence.

Thanks to the PROTAPER•NEXT™ dimensions, the variable taper and the eccentric section of the all hybridization is not needed at all.

+ WE KNOW ENDO.

Direction For Use (DFU)

- **Prepare straight-line access to canal orifice.**
- **Explore the canal using small-sized hand files, determine working length, verify patency and confirm a smooth, reproducible glide path.**
- **Always irrigate and if necessary, expand the glide path using small-sized hand files or dedicated mechanical glide path files.**
- **In the presence of NaOCl, brush and follow, along the glide path, with the PROTAPER NEXT™ X1 (017/04) file, in one or more passes, alternatively with small-sized hand files if necessary, until the working length is reached.**
- **Use PROTAPER NEXT™ X2 (025/06), exactly as described for PROTAPER NEXT™ X1 file, until the working length is passively reached.**
- **Inspect the apical flutes of the PROTAPER NEXT™ X2 file; if they are loaded with dentin, then the shape is finished, the correspondingly sized gutta -percha master cone or size verifier may be fitted, and the canal is ready for disinfection.**
- **Alternatively, gauge the foramen with a size 025 hand file and, if this file is snug at length, the canal is shaped and ready for disinfection.**

If the size 025 hand file is loose at length, then continue shaping with the PROTAPER NEXT™ X3 (30/07) and, when necessary, the PROTAPER NEXT™ X4 (040/06) or PROTAPER NEXT™ X5 (050/06), gauging after each instrument with the 030, 040 or 050 hand files, respectively.

During protocol of use, irrigate, recapitulate with a **small-sized** hand file after each sequential **PROTAPER NEXT™** instrument, then re-irrigate.

DENTSPLY MAILLEFER

Optional

Pathfile

Canal glide-path

Canal scouting

X1 X2 X3 X4 X5

+ WE KNOW ENDO.

GLIDE-PATH Management

- Scouting the canal with a K-File # 010 (Ready.Steel K-File)

- Glide-Path with Pathfile # 1 (013) and Pathfile # 2 (016)

WE KNOW ENDO.

DENTSPLY MAILLEFER

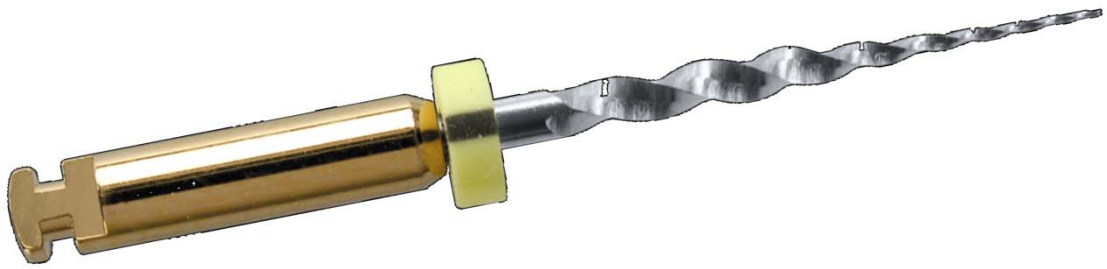
PROTAPER • NEXT™

(only when needed)

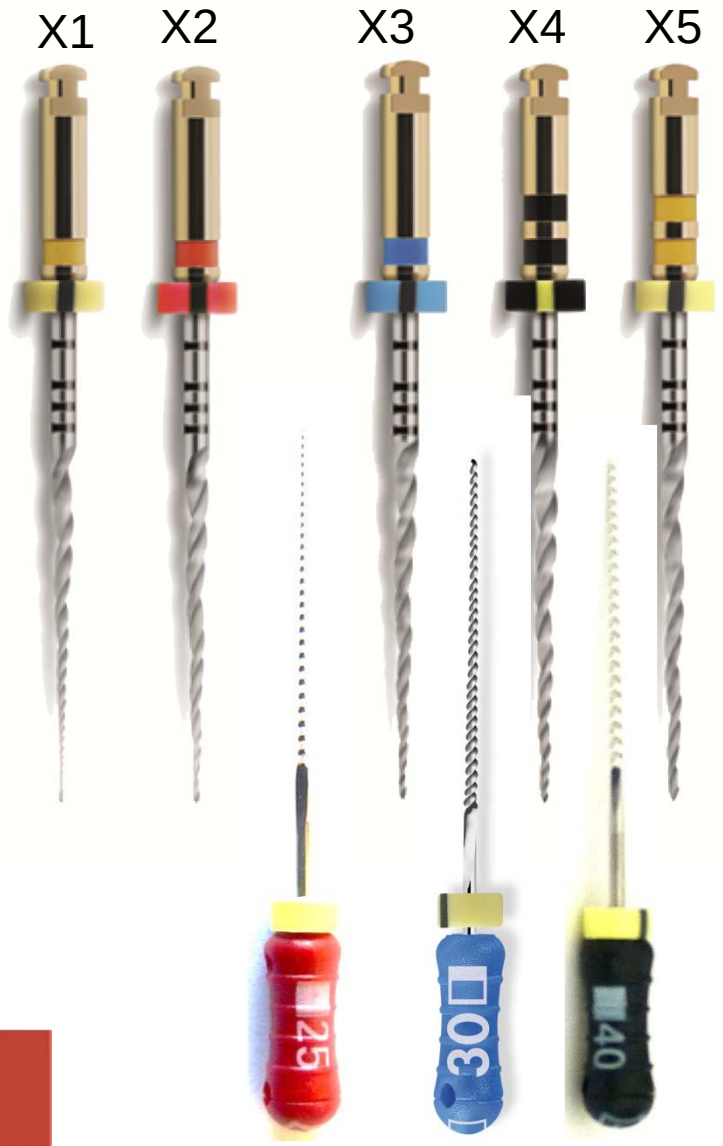
OPENING INSTRUMENT

For Relocation of the Canal Orifice

For Coronal Enlargement



+ WE KNOW ENDO.



Shaping :

X1 017 / .04

X2 025 / .06

Optional :

X3 030 / .07

X4 040 / .06

X5 050 / .06

Gauging after X2 “to find the natural diameter of the canal”

Pre-op

Post-op

Courtesy Dr John West

WE KNOW ENDO.

DENTSPLY MAILLEFER

PROTAPER • NEXT™

PROTAPER® UNIVERSAL

Retreatment

D1

D2

D3

+ WE KNOW ENDO.

DENTSPLY MAILLEFER

PROTAPER • NEXT™

PROTAPER® UNIVERSAL

Retreatment

RETREATMENT

If Insoluble resins

↓

Ultrasonics

If Gutta Percha

↓

PROTAPER® UNIVERSAL

Retreatment

No Solvent

If Soluble Pastes

↓

Solvent

+

PROTAPER® UNIVERSAL

Retreatment

+ WE KNOW ENDO.

DENTSPLY MAILLEFER

PROTAPER • NEXT™

IS NOT ONLY MADE OF NiTi INSTRUMENTS BUT IT IS A COMPLETE

SYSTEMS

+ WE KNOW ENDO.

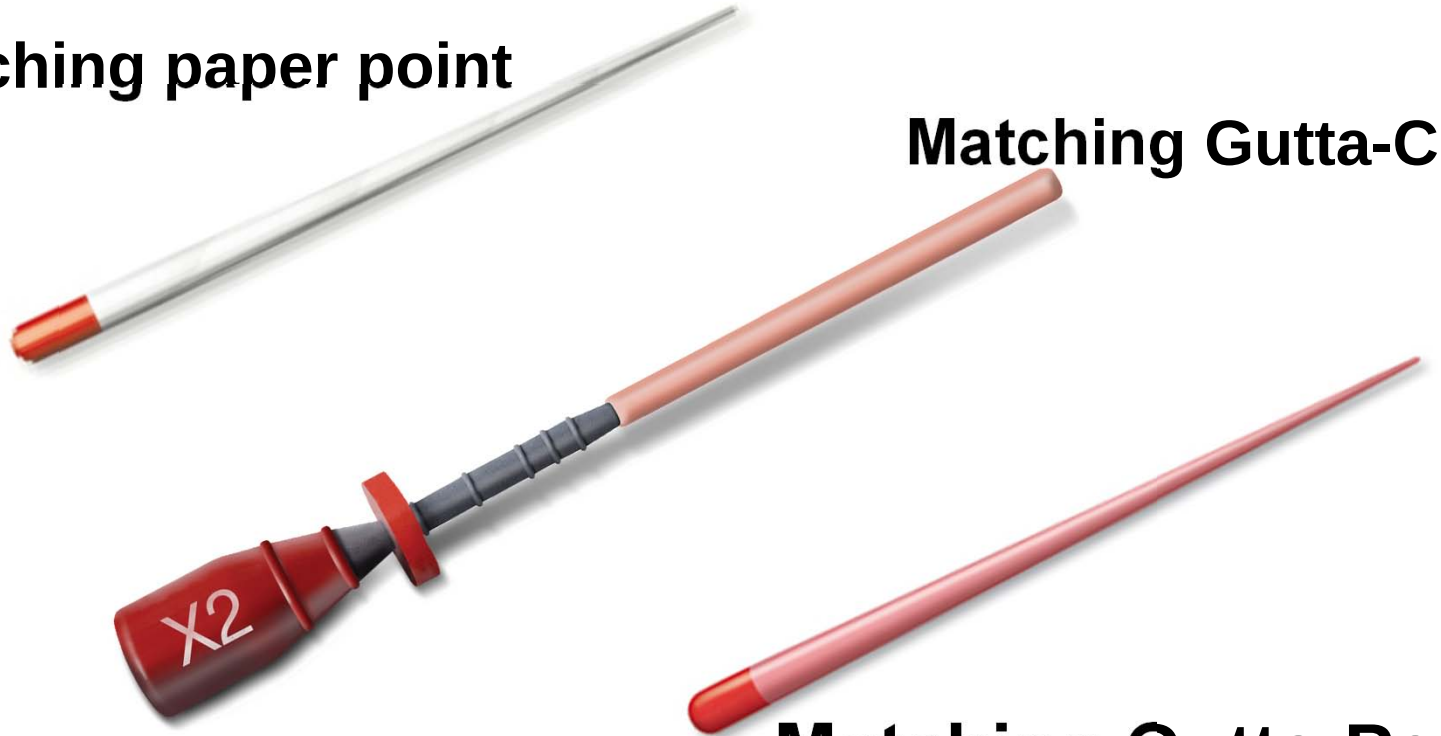
DENTSPLY MAILLEFER

PROTAPER • NEXT™

SYSTEMS

Matching paper point

Matching Gutta-Core



Matching Gutta-Percha

+ WE KNOW ENDO.

DENTSPLY
MAILLEFER

gutta•core™

+
WE
KNOW
ENDO.

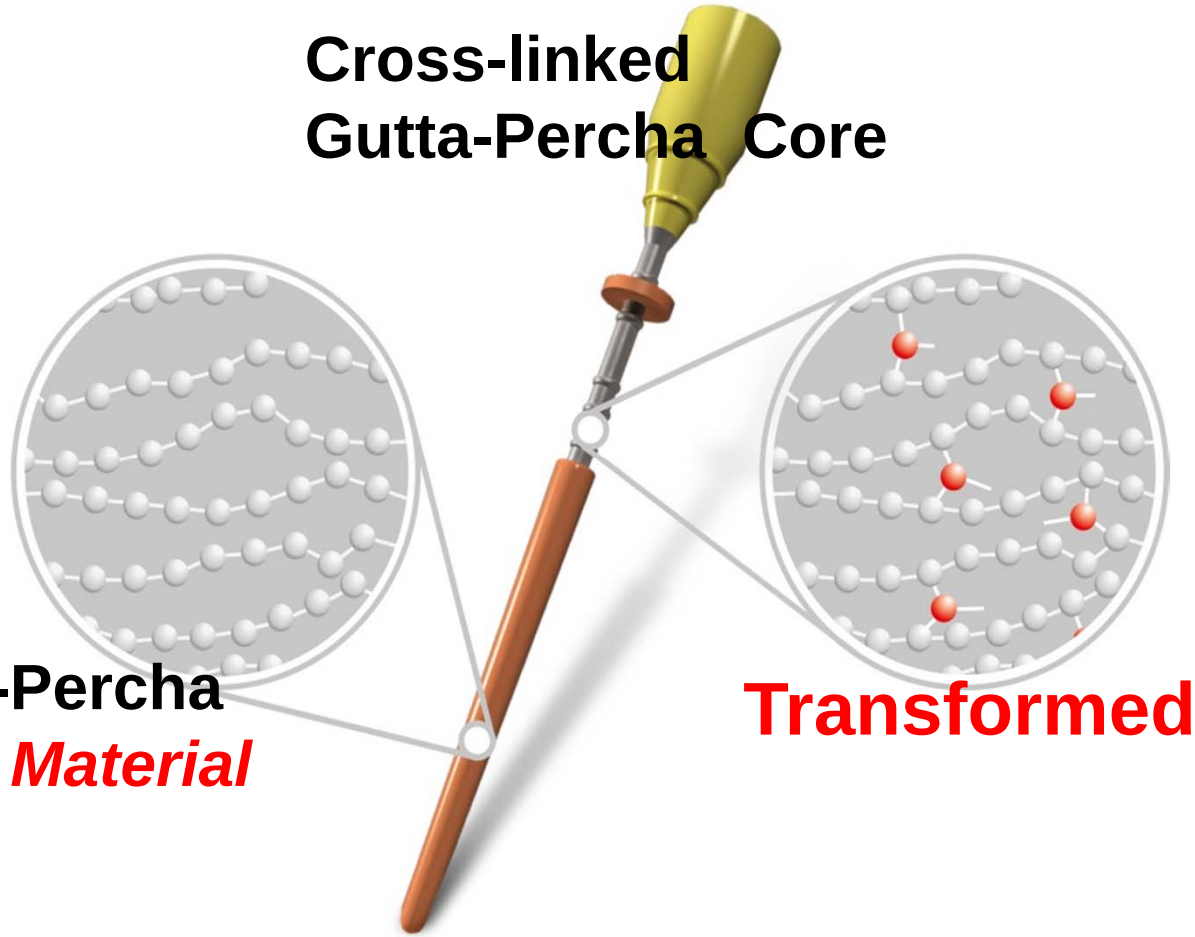
DENTSPLY MAILLEFER

Cross-linked gutta-percha core-obturator

+ WE KNOW ENDO.

Transforming gutta-percha from the inside out.

GuttaCore™ is the first obturator with a cross-linked gutta-percha core.



WE KNOW ENDO.

DENTSPLY MAILLEFER

PROTAPER • NEXT™

VIDEO

+ WE KNOW ENDO.