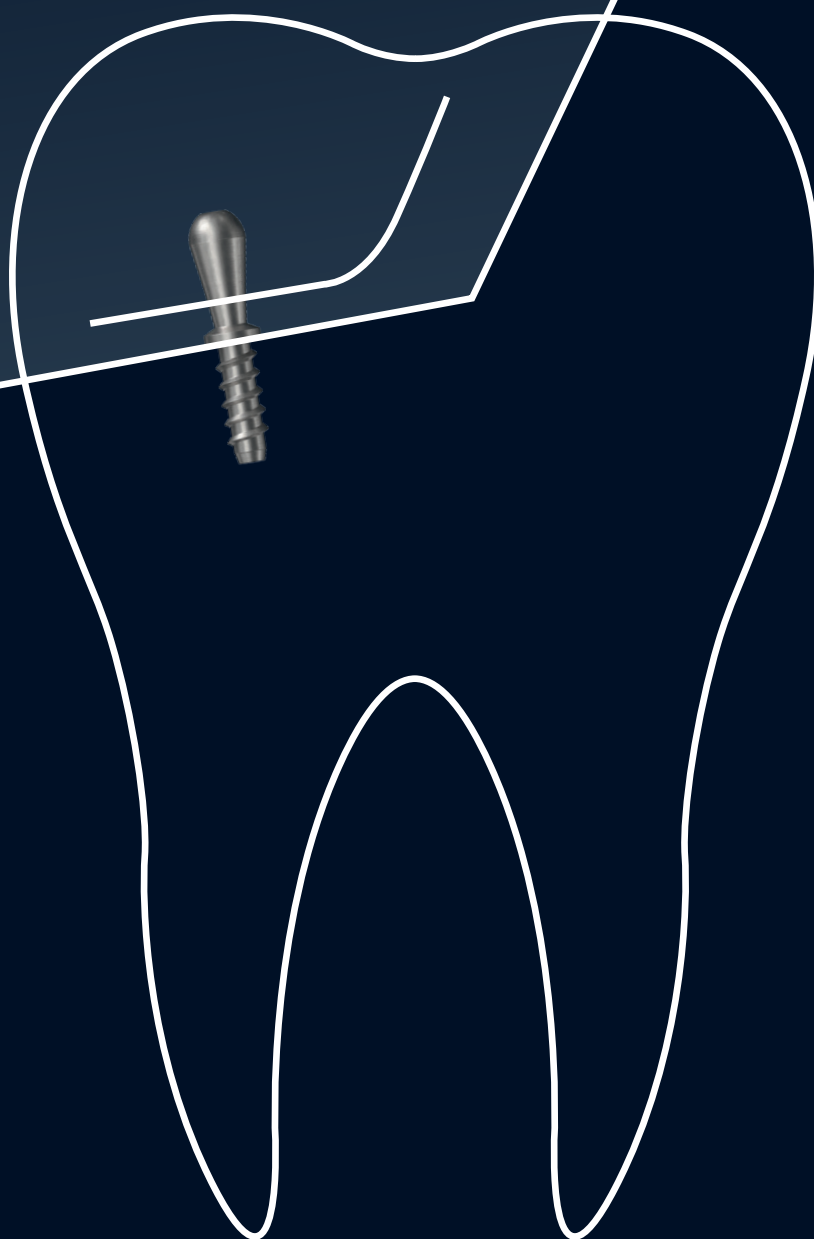# Parapulpal retention pins

For permanent retention in the
most demanding indications

COLTENE

Sometimes mechanical retention is key

COLTENE can look back on decades of experience in the parapulpal pin segment and millions of satisfied customers. Brands like the well known TMS or MAX Pin facilitate daily work in practices and deliver reliable results even in high demanding cases. As a leading manufacturer, COLTENE strives for excellent material quality and offers a broad range of parapulpal pins. Therefore, different types of self-threading pins cover a wide indication spectrum and are a good choice for almost every case to deliver satisfying results for your clients.
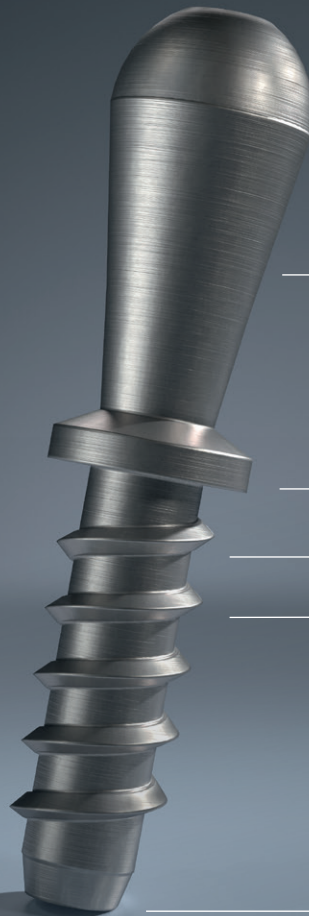
Overview

	MAX® Pin	TMS LINK PLUS®	TMS LINK® Series
RESTORATION & CORE BUILD UPs			
Class I		×	×
Class II	×	×	×
Class III		×	×
Class IV	×	×	×
ALLOYS			
Alpha Beta Titanium	×	×	×
Gold-Plated Stainless		×	×
CHARACTERISTICS			
Self-shearing	×	×	×
Shoulder stop	×	×	
Smooth self-alignment	×	×	×
Rounded head	×		
Tapered pin end	×	×	×
Available 2-in-1		×	×

MAX® Pin

Optimum Retention.
Superior Safety.

MAX Pins are designed for use with different restorative materials – composite, amalgam or glass ionomer: In large class II and class IV restorations, for addition retention and support for cuspal/incisal edges. MAX Pins can be used confidently for a stronger bond between restorative material and dentin.

1 Rounded head

No sharp edges to cause stress points in restorative material

2 Undercut shape of the head

Material "locks on" just like undercut cavity preparation design

Easy adaptation of restorative material

3 Broad shoulder stop

Perfect seating of the pin

No apical stress, eliminates the risk of "bottoming out"

4 Inverted buttress thread design

More thread surface against dentin for more retention

Clearly forms thread path for lower insertion stress than conventional threads

5 Wider pitch threads

Greater mass of dentin between threads for more retention

Less dentin displaced for safer placement

6 Tapered pin end

Easier insertion, pin aligns automatically

Two sizes to meet any need:

MAX 017 (0.017"/0.425 mm) for space-limited indications where head length is critical

MAX 021 (0.021"/0.525 mm) for general use

Contra-angle or hand placement – the choice is yours

Reduced risk of cross-contamination due to sanitary blister packing

Color coded packaging for easier product identification

TMS – The family

It's the details that make the difference

TMS pins are easy to use, self-threading retention pins that provide a reliable link between restorative filling material and dentin. While the original TMS pins were conceived for manual insertion, TMS LINK and TMS LINK PLUS pins can also be mechanically installed. The well thought out construction of TMS LINK and TMS LINK PLUS is the result of decades of experience and an uncompromising effort to meet your restorative needs.

EVOLUTION
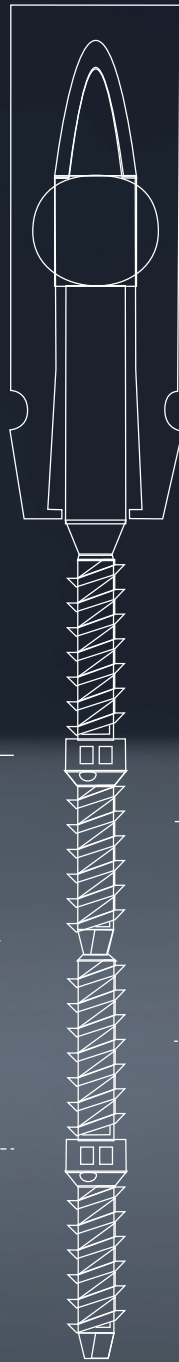
	TMS	TMS LINK® Series	TMS LINK PLUS®	
SIZE				
0.350 mm / 0.0135"	×	×		
0.425 mm / 0.017"	×	×		
0.525 mm / 0.021"	×	×	×	
0.675 mm / 0.027"	×	×	×	

1 Ball joint link to shank

Smooth self-alignment of the pin during insertion and consistent shearing

2 Shoulder stop

Stops the pin coronally reducing apical stress

4 Defined shear points

Convenient and time-saving pin placement

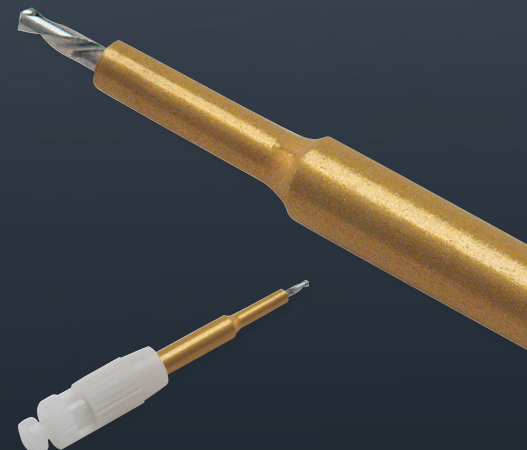**3 Wide buttress thread design**

Smooth insertion together with optimum retention

5 Tapered pin end

Leads pin into channel for easy insertion

KODEX® Drills

KODEX Drill	Class			
COLOR	I	II	III	IV
Minuta Pink			×	×
Minikin Red	×	×	×	×
Minim Silver	×	×	×	×
Regular Gold	×	×		

Order information

MAX® Pin

Self-threading parapulpal retention pins with shoulder stop and rounded head design for good adaptation.
Corrosion-free, titanium alloy. Self-alignment during placement.

Material	Color code	Ø mm	Pin Design	Sales Unit	Self-shearing	REF	Content
Titanium Alloy	Blue	0.425	Single	Complete-Kit	Yes	**M61**	25 Pins, 2 MAX Drills, 1 Hand Driver
				Bulk Kit	Yes	**M63**	60 Pins
	Purple	0.525	Single	Complete-Kit	Yes	**M71**	25 Pins, 2 MAX Drills, 1 Hand Driver
				Bulk Kit	Yes	**M73**	60 Pins

MAX® Pin Accessories

REF	
M91	Drills Blue, Depth-Limiting, 5 pcs
M92	Drills Purple, Depth-Limiting, 5 pcs

TMS LINK PLUS®

TMS LINK PLUS pins offer smooth self-alignment, tapered pin end, shoulder stop and automatic shear-points. They are available as single pins or as convenient 2-in-1 pin system for a time saving placement. The pins can be mechanically installed.

Material	Color code	Ø mm	Pin Design	Sales Unit	Self-shearing	REF	Content
Titanium Alloy	Minim Silver	0.525	Single	Complete-Kit	Yes	**EL82124**	24 Pins, 1 KODEX Drill K92, 1 Hand Driver
				Bulk Kit	Yes	**EL82260**	60 Pins
			2-in-1	Complete-Kit	Yes	**EL84124**	24 Pins, 2 KODEX Drills K92, 1 Hand Driver
				Bulk Kit	Yes	**EL84260**	60 Pins
Gold-Plated Stainless Steel	Minim Silver	0.525	Single	Complete-Kit	Yes	**EL72124**	24 Pins, 1 KODEX Drill K92, 1 Hand Driver
				Bulk Kit	Yes	**EL72260**	60 Pins
			2-in-1	Complete-Kit	Yes	**EL73124**	24 Pins, 2 KODEX Drills K92, 1 Hand Driver
				Bulk Kit	Yes	**EL73260**	60 Pins
	Regular Gold	0.675	Single	Complete-Kit	Yes	**EL74124**	24 Pins, 1 KODEX Drill K96, 1 Hand Driver
				Bulk Kit	Yes	**EL74260**	60 Pins
			2-in-1	Complete-Kit	Yes	**EL75124**	24 Pins, 2 KODEX Drills K96, 1 Hand Driver
				Bulk Kit	Yes	**EL75260**	60 Pins

TMS LINK® Series

The 2nd generation TMS pins can be mechanically installed and offer a ball joint link to the shank for a smooth self-alignment as well as a tapered pin end for an easier insertion. The TMS LINK pin is available as single pin or as convenient 2-in-1 system.

Material	Color code	Ø mm	Pin Design	Sales Unit	Self-shearing	REF	Content
Titanium Alloy	Minikin Red	0.425	Single	Complete-Kit	Yes	L811	20 Pins, 1 KODEX Drill K91, 1 Hand Driver
				Bulk Kit	Yes	L812	50 Pins
Gold-Plated Stainless Steel	Minuta Pink	0.350	Single	Complete-Kit	Yes	L501	20 Pins, 1 KODEX Drill K89, 1 Hand Driver
				Bulk Kit	Yes	L502	50 Pins
	Minikin Red	0.425	Single	Complete-Kit	Yes	L511	20 Pins, 1 KODEX Drill K91, 1 Hand Driver
				Bulk Kit	Yes	L512	50 Pins
	Minim Silver	0.525	Single	Complete-Kit	Yes	L521	20 Pins, 1 KODEX Drill K92, 1 Hand Driver
				Bulk Kit	Yes	L522	50 Pins
			2-in-1	Complete-Kit	Yes	L531	20 Pins, 2 KODEX Drills K92, 1 Hand Driver
				Bulk Kit	Yes	L532	50 Pins
	Regular Gold	0.675	Single	Complete-Kit	Yes	L541	20 Pins, 1 KODEX Drill K96, 1 Hand Driver
				Bulk Kit	Yes	L542	50 Pins
			2-in-1	Complete-Kit	Yes	L551	20 Pins, 2 KODEX Drills K96, 1 Hand Driver
				Bulk Kit	Yes	L552	50 Pins

TMS®

The 1st generation of TMS was conceived for manual insertion and is available as single pin or as convenient 2-in-1 system.

Material	Color code	Ø mm	Pin Design	Sales Unit	Self-shearing	REF	Content
Gold-Plated Stainless Steel	Minuta Pink	0.350	Single	Complete-Kit	Yes	T111	20 Pins, 1 KODEX Drill K89, 1 Hand Wrench
				Bulk Kit	Yes	T112	50 Pins
	Minikin Red	0.425	Single	Complete-Kit	Yes	T107	20 Pins, 1 KODEX Drill K91, 1 Hand Wrench
				Refill	Yes	T108	50 Pins
				Bulk Kit	Yes	T109	100 Pins
	Minim Silver	0.525	Single	Complete-Kit	No	T04	20 Pins, 1 KODEX Drill K93, 1 Hand Wrench
				Refill	No	T05	50 Pins
				Bulk Kit	No	T06	100 Pins
			2-in-1	Complete-Kit	Yes	T10	20 Pins, 1 KODEX Drill K92, 1 Hand Wrench
				Refill	Yes	T11	50 Pins
				Bulk Kit	Yes	T12	100 Pins
	Regular Gold	0.675	Single	Complete-Kit	Yes	T13	20 Pins, 1 KODEX Drill K97, 1 Hand Wrench
					No	T01	20 Pins, 1 KODEX Drill K97, 1 Hand Wrench
				Refill	No	T02	50 Pins
					Yes	T14	50 Pins
				Bulk Kit	No	T03	100 Pins
					Yes	T15	100 Pins
			2-in-1	Complete-Kit	Yes	T07	20 Pins, 1 KODEX Drill K96, 1 Hand Wrench
				Refill	Yes	T08	50 Pins
				Bulk Kit	Yes	T09	100 Pins

Order information

KODEX® Drills

KODEX-Drills complete the TMS, TMS LINK and TMS LINK PLUS retention pin systems.
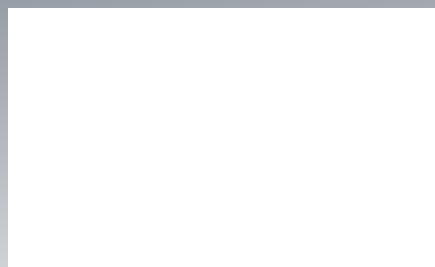A colour coding helps to select the appropriate size, thereby ensuring an optimal preparation of the canal.

Color code	Ø mm	Drill length	Depth-limiting	Shank length	REF	Content
Minuta Pink	0.350	1.3 mm	Yes	Long	**K89**	6 pcs
Minikin Red	0.425	1.5 mm	Yes	Short	**K90**	6 pcs
		1.5 mm	Yes	Long	**K91**	6 pcs
Minim Silver	0.525	2.0 mm	Yes	Regular	**K92**	6 pcs
		4.0 mm	No	Regular	**K93**	6 pcs
Regular Gold	0.675	2.0 mm	Yes	Regular	**K96**	6 pcs
		5.0 mm	No	Regular	**K97**	6 pcs

Accessories Parapulpal Pins

REF	Item
B5910	Hand Wrench, Minuta Pink, 1 pc
B593	Hand Wrench, Regular Gold & Minikin Red, 1 pc
B595	Hand Wrench, Minim Silver, 1 pc
B61M	Bending Tool, Minim Silver, 1 pc
B61R	Bending Tool, Regular Gold, 1 pc
L590	Universal Hand Driver, 1 pc

COLTENE