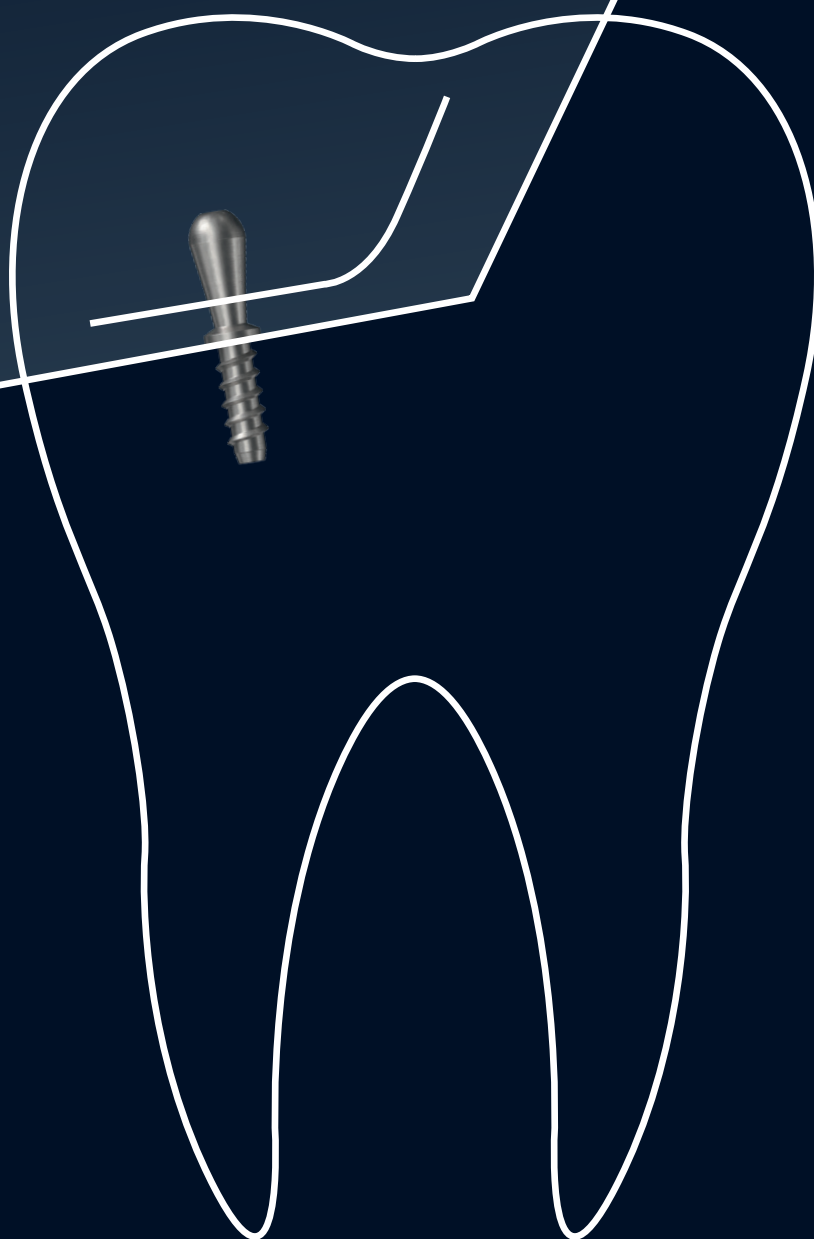


RESTORATION

# Parapulpal retention pins

For permanent retention in the most demanding indications



# 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

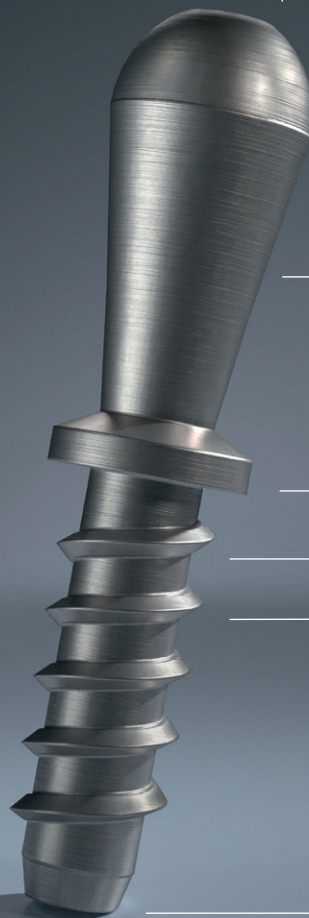


RESTORATION & CORE BUILD UPS			
Class I		×	×
Class II	×	×	×
Class III		×	×
Class IV	×	×	×
ALLOYS			
Alpha Beta Titanium	×	×	×
Gold-Plated Stainless		×	×
CHARACTERISTICS			
Self-shearing	×	×	×
Shoulder stop	×	×	
Smooth self-alignment	×	×	×
Rounded head	×		
Tapered pin end	×	×	×
Available 2-in-1		×	×

# MAX<sup>®</sup> 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

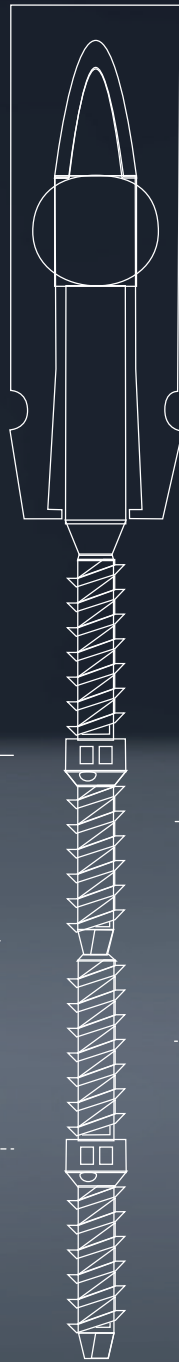


TMS LINK® Series



TMS LINK PLUS®

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



**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

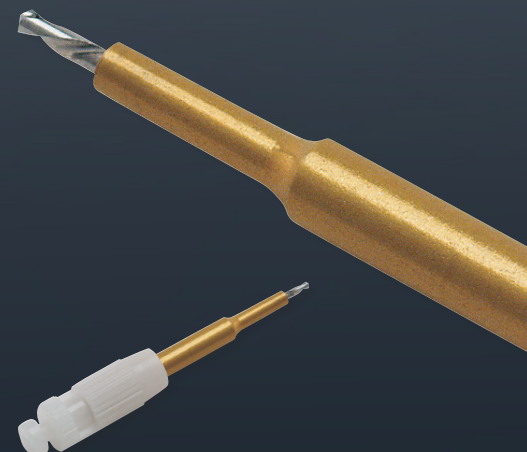
Smooth insertion together with optimum retention

**5** Tapered pin end

Leads pin into channel for easy insertion

# KODEX® Drills

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



# 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	<b>M61</b>	25 Pins, 2 MAX Drills, 1 Hand Driver
				Bulk Kit	Yes	<b>M63</b>	60 Pins
	Purple	0.525	Single	Complete-Kit	Yes	<b>M71</b>	25 Pins, 2 MAX Drills, 1 Hand Driver
				Bulk Kit	Yes	<b>M73</b>	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	<b>EL82124</b>	24 Pins, 1 KODEX Drill K92, 1 Hand Driver
				Bulk Kit	Yes	<b>EL82260</b>	60 Pins
			2-in-1	Complete-Kit	Yes	<b>EL84124</b>	24 Pins, 2 KODEX Drills K92, 1 Hand Driver
				Bulk Kit	Yes	<b>EL84260</b>	60 Pins
Gold-Plated Stainless Steel	Minim Silver	0.525	Single	Complete-Kit	Yes	<b>EL72124</b>	24 Pins, 1 KODEX Drill K92, 1 Hand Driver
				Bulk Kit	Yes	<b>EL72260</b>	60 Pins
			2-in-1	Complete-Kit	Yes	<b>EL73124</b>	24 Pins, 2 KODEX Drills K92, 1 Hand Driver
				Bulk Kit	Yes	<b>EL73260</b>	60 Pins
	Regular Gold	0.675	Single	Complete-Kit	Yes	<b>EL74124</b>	24 Pins, 1 KODEX Drill K96, 1 Hand Driver
				Bulk Kit	Yes	<b>EL74260</b>	60 Pins
			2-in-1	Complete-Kit	Yes	<b>EL75124</b>	24 Pins, 2 KODEX Drills K96, 1 Hand Driver
				Bulk Kit	Yes	<b>EL75260</b>	60 Pins

## TMS LINK® Series

The 2<sup>nd</sup> 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	<b>L811</b>	20 Pins, 1 KODEX Drill K91, 1 Hand Driver
				Bulk Kit	Yes	<b>L812</b>	50 Pins
Gold-Plated Stainless Steel	Minuta Pink	0.350	Single	Complete-Kit	Yes	<b>L501</b>	20 Pins, 1 KODEX Drill K89, 1 Hand Driver
				Bulk Kit	Yes	<b>L502</b>	50 Pins
	Minikin Red	0.425	Single	Complete-Kit	Yes	<b>L511</b>	20 Pins, 1 KODEX Drill K91, 1 Hand Driver
				Bulk Kit	Yes	<b>L512</b>	50 Pins
	Minim Silver	0.525	Single	Complete-Kit	Yes	<b>L521</b>	20 Pins, 1 KODEX Drill K92, 1 Hand Driver
				Bulk Kit	Yes	<b>L522</b>	50 Pins
			2-in-1	Complete-Kit	Yes	<b>L531</b>	20 Pins, 2 KODEX Drills K92, 1 Hand Driver
				Bulk Kit	Yes	<b>L532</b>	50 Pins
	Regular Gold	0.675	Single	Complete-Kit	Yes	<b>L541</b>	20 Pins, 1 KODEX Drill K96, 1 Hand Driver
				Bulk Kit	Yes	<b>L542</b>	50 Pins
2-in-1			Complete-Kit	Yes	<b>L551</b>	20 Pins, 2 KODEX Drills K96, 1 Hand Driver	
			Bulk Kit	Yes	<b>L552</b>	50 Pins	

## TMS®

The 1<sup>st</sup> 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	<b>T111</b>	20 Pins, 1 KODEX Drill K89, 1 Hand Wrench
				Bulk Kit	Yes	<b>T112</b>	50 Pins
	Minikin Red	0.425	Single	Complete-Kit	Yes	<b>T107</b>	20 Pins, 1 KODEX Drill K91, 1 Hand Wrench
				Refill	Yes	<b>T108</b>	50 Pins
				Bulk Kit	Yes	<b>T109</b>	100 Pins
	Minim Silver	0.525	Single	Complete-Kit	No	<b>T04</b>	20 Pins, 1 KODEX Drill K93, 1 Hand Wrench
				Refill	No	<b>T05</b>	50 Pins
				Bulk Kit	No	<b>T06</b>	100 Pins
			2-in-1	Complete-Kit	Yes	<b>T10</b>	20 Pins, 1 KODEX Drill K92, 1 Hand Wrench
				Refill	Yes	<b>T11</b>	50 Pins
				Bulk Kit	Yes	<b>T12</b>	100 Pins
	Regular Gold	0.675	Single	Complete-Kit	Yes	<b>T13</b>	20 Pins, 1 KODEX Drill K97, 1 Hand Wrench
					No	<b>T01</b>	20 Pins, 1 KODEX Drill K97, 1 Hand Wrench
				Refill	No	<b>T02</b>	50 Pins
					Yes	<b>T14</b>	50 Pins
Bulk Kit				No	<b>T03</b>	100 Pins	
				Yes	<b>T15</b>	100 Pins	
2-in-1			Complete-Kit	Yes	<b>T07</b>	20 Pins, 1 KODEX Drill K96, 1 Hand Wrench	
			Refill	Yes	<b>T08</b>	50 Pins	
			Bulk Kit	Yes	<b>T09</b>	100 Pins	

# Order information

## KODEX® Drills

KODEX-Drills complete the TMS, TMS LINK and TMS LINK PLUS retention pin systems.

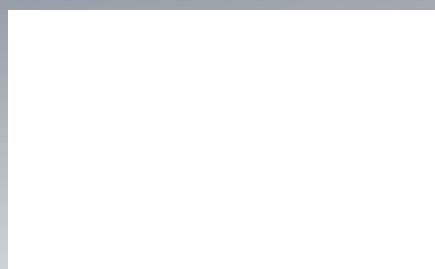
A colour coding helps to select the appropriate size, thereby ensuring an optimal preparation of the canal.

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

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