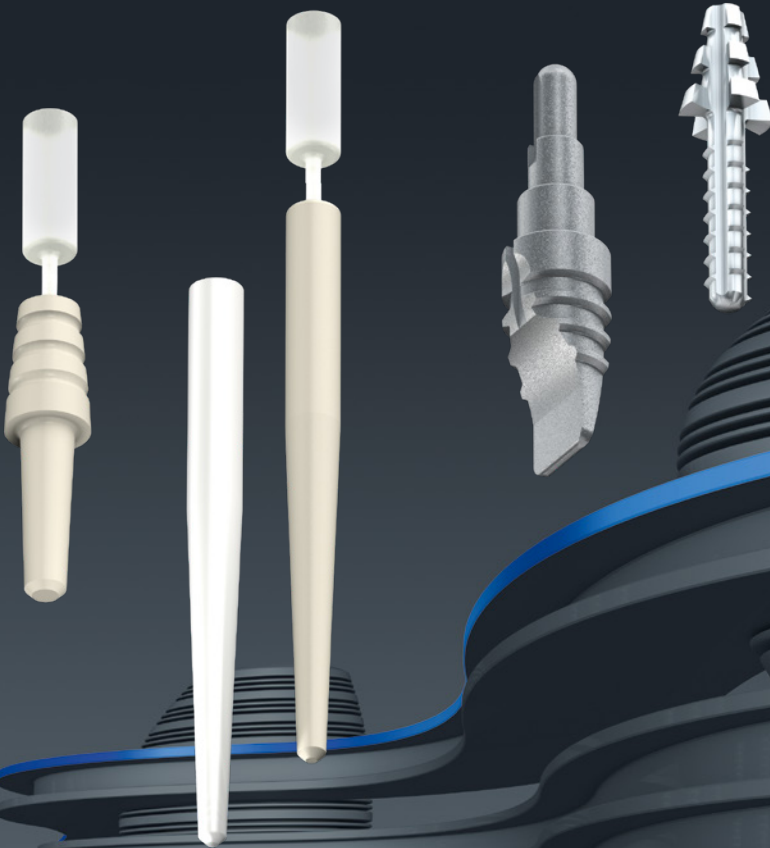




# Compass | Post Systems

Product recommendations and appropriate use



## Recommendation · Guidelines

Degree of horizontal/ vertical destruction	Single tooth restoration Core build-up Composite All-ceramic/metal crown Closed dental arch	
	ER DentinPost Coated  ER DentinPost  <b>(optional use)</b>	
	ER DentinPost Coated  ER DentinPost  ER CeraPost	
	ER DentinPost X Coated  ER DentinPost X  ER CeraPost  ER TitanPost X Coated	
	ER TitanPost X  OptiPost  Vario  BKS	
	ER One-piece cast/ cast-on restoration	



**Preconditions:**

Remaining substance of 2 mm in height around the crown,  
ferrule design, or surgical crown extension.

Remaining apical root filling of at least 4 mm

Bridge (partially edentulous jaw)



Single crown in case of bruxism

Telescopic prosthesis or cast metal framework clasped to crowns (partially edentulous jaw)



ER TitanPost X Coated



ER TitanPost X Coated



ER TitanPost X Coated



ER TitanPost X



ER TitanPost X



ER TitanPost X



BKS



BKS



Vario



Vario X



Vario



OptiPost



BKS



ER One-piece cast/  
cast-on build-ups



OptiPost



ER One-piece cast/  
cast-on restoration



ER One-piece cast/  
cast-on restoration



## ER System instruments 6 mm



### 1 Pilot bur 183LB

- For removing root fillings

● 183LB.204.070  
● 183LB.204.090  
● 183LB.204.110

☉<sub>rot.</sub> 1,000 – 5,000 rpm



### 2 Reamer 196S

- Preparation of the retention box and the recipient site of the post in just one step to ensure a perfect fit

● 196S.204.070 ● 196SL.204.070  
● 196S.204.090 ● 196SL.204.090  
● 196S.204.110 ● 196SL.204.110

☉<sub>rot.</sub> 1,000 rpm



### 3 Roughening instrument 196DS

- Roughening of the root canal wall by manually rotating without pressure twice or three times in the root canal, followed by rinsing

● 196DS.644.070  
● 196DS.644.090  
● 196DS.644.110

## ER System posts 6 mm



### ER DentinPost X Coated

- Made of glass fibre reinforced composite
- Completely covered with layers of silicate and silane and provided with an adhesion promoting polymer coating
- Excellent retention
- Minimum weakening of the root thanks to a short shank with a length of merely 6 mm
- With pronounced retention head for deeply destroyed crowns
- Aesthetically pleasing result
- Excellent radiopacity
- Not suitable for sterilization

#### Direct build-up

Direct core build-up with composite.

- DPXCL6.070
- DPXCL6.090
- DPXCL6.110



### ER TitanPost X Coated

- Made of pure titanium
- Completely covered with layers of silicate and silane and provided with an adhesion promoting polymer coating
- Excellent retention
- Minimum weakening of the root thanks to a short shank with a length of merely 6 mm
- With pronounced retention head for deeply destroyed crowns
- Perfect combination between outstanding stability and excellent esthetics thanks to tooth-colored coating
- Excellent radiopacity
- Not suitable for sterilization

#### Direct build-up

Direct core build-up with composite.

- TPXCL6.070
- TPXCL6.090

ER System  
short

ER System

OptiPost

Vario

BKS

Revision

Storage

## ER System instruments



### 1 Pilot bur 183LB

- For removing root fillings

- 183LB.204.050
- 183LB.204.070
- 183LB.204.090
- 183LB.204.110

☉<sub>rot</sub> 1,000 – 5,000 rpm



### 2 Root facer 120D

- For planing the cavity floor and preparation of the retention box for a perfectly flush fit of the post head

120D.204.030

☉<sub>rot</sub> 2,000 rpm



### 3 Reamer 196/196L

- For mechanical enlargement of the root canal and preparation of the post insertion site

- 196.204.050\* ● 196L.204.050
- 196.204.070\* ● 196L.204.070
- 196.204.090\* ● 196L.204.090
- 196.204.110\* ● 196L.204.110

☉<sub>rot</sub> 1,000 – 2,000 rpm

\* also available with hand grip 644.



#### 4 Diamond coated roughening instrument 196D

- To increase the retention, rotate manually twice or three times without pressure, followed by rinsing

- 196D.644.050
- 196D.644.070
- 196D.644.090
- 196D.644.110

#### Depth gauges

- Adjustable to the lengths of the posts with retention head: 9, 12 and 15 mm and also individually adjustable. To be placed onto the reamer.

- 45L9
- 45L12
- 45L15
- 74L12

## ER System posts



### ER DentinPost Coated

- Made of glass fibre reinforced composite
- Completely covered with layers of silicate and silane and provided with an adhesion promoting polymer coating
- Uncoated handling element that can be snapped off after use
- Increased stability thanks to unidirectional glass fibres
- The shape of the post matches that of the root, perfect adaptation to the root canal wall
- Elasticity module similar to that of dentin
- Excellent radiopacity
- Aesthetically pleasing result
- Not suitable for sterilization

#### Direct build-up

Direct core build-up with composite.

- DPC1L12.050
- DPC1L12.070
- DPC1L12.090
- DPC1L12.110



### ER DentinPost

- Made of glass fibre reinforced composite
- Increased stability thanks to unidirectional glass fibres
- The shape of the post matches that of the root, perfect adaptation to the root canal wall
- Elasticity module similar to that of dentin
- Excellent radiopacity
- Aesthetically pleasing result
- Not suitable for sterilization

#### Direct build-up

Direct core build-up with composite.

- 354TL12.050
- 366TL12.070
- 355TL12.090
- 356TL12.110



### ER DentinPost X

- Made of glass fibre reinforced composite
- With pronounced retention head for deeply destroyed crowns
- Increased stability thanks to unidirectional glass fibres
- The shape of the post matches that of the root, perfect adaptation to the root canal wall
- Elasticity module similar to that of dentin
- Excellent radiopacity
- Aesthetically pleasing result
- Not suitable for sterilization

#### Direct build-up

Direct core build-up with composite.

- 443L9/L12.050
- 444L9/L12.070
- 445L9/L12.090
- 446L9/L12.110





### ER CeraPost

- Made of zirconium oxide ceramics
- The shape of the post matches that of the root, perfect adaptation to the root canal wall
- Excellent mechanical load capacity
- Excellent radiopacity
- Aesthetically pleasing result
- Roughened surface for optimum retention
- Not suitable for sterilization

#### Direct build-up

Direct core build-up with composite.

- 231L.12.050
- 439L.12.070
- 232L.12.090
- 233L.12.110



### ER TitanPost X

- Made of pure titanium
- With retention head
- The shape of the post matches that of the root, perfect adaptation to the root canal wall
- Outstanding load capacity and stability
- Excellent radiopacity

#### Direct build-up

Direct core build-up with composite.

- 48L9/L12/L15.050
- 228L9/L12/L15.070
- 49L9/L12/L15.090
- 50L9/L12/L15.110



### ER TitanPost X ELO

- Made of pure titanium
- With long retention head for elongated teeth
- The shape of the post matches that of the root, perfect adaptation to the root canal wall
- Outstanding load capacity and stability
- Excellent radiopacity

#### Direct build-up

Direct core build-up with composite.

- 48L9A/L12A/L15A.050
- 49L9A/L12A/L15A.090
- 50L9A/L12A/L15A.110

## ER System posts



### ER GPL

- Gold-platinum alloy capable of receiving cast-on restorations
- Composition:
  - 61 % gold
  - 23,8 % platinum
  - 15 % palladium
  - 0,2 % rhodium
- Melting range  
1,360°C - 1,460°C
- Casting temperature of the precious metal alloy:  
≤ 1,200°C
- The shape of the post matches that of the root, perfect adaptation to the root canal wall
- Outstanding load capacity and stability

#### Cast-on restorations

Intra-oral molding of the build-up onto the post. The restoration is cast directly onto the post at the dental laboratory.

- GPL L12/L15.050
- GPL L12/L15.070
- GPL L12/L15.090
- GPL L12/L15.110



### ER SPL

- Silver-palladium alloy, of limited suitability for receiving cast-on restorations
- Composition:
  - 52,5 % silver
  - 35 % palladium
  - 4,9 % platinum
  - 0,1 % iridium
  - 7,1 % copper
  - 0,4 % zinc
- Melting range  
1,085°C - 1,170°C
- Casting temperature of the precious metal alloy  
≤ 1,000°C
- The shape of the post matches that of the root, perfect adaptation to the root canal wall
- Outstanding load capacity and stability

#### Cast-on restorations

Intra-oral molding of the build-up onto the post and one-piece cast (post + stump) in the dental laboratory.

- SPL L16.050
- SPL L16.070
- SPL L16.090
- SPL L16.110



### ER CAST

- Burn-out plastic, PMMA
- For one-piece cast
- Not suitable for sterilization

#### One-piece cast

Intra-oral molding of the build-up onto the post and one-piece cast (post + stump) in the dental laboratory.

- 57L16.050
- 339L16.070
- 58L16.090
- 59L16.110



### ER STABIL

- Made of pure titanium
- For divided build-ups
- Facilitates the use of several posts when treating multi-rooted teeth with several root canals
- Outstanding load capacity and stability

#### Divided build-ups

When treating multi-rooted teeth, the cast-on restoration can be supported by a STABIL post. Make sure to remove the titanium post prior to casting because titanium posts are not suitable for casting on.

- 60L16.050
- 440L16.070
- 61L16.090
- 62L16.110



### ER TMP

- Made of pure titanium
- For temporary restorations
- This post is 2 mm shorter to allow the administration of a medicament
- Application with temporary cement

#### Temporary build-up

The TMP titanium posts are used for temporary post crowns until the cast post restoration is ready. These posts should be fixed with temporary cement that does not contain any eugenol.

- P75L11/L14.050
- P422L11/L14.070
- P76L11/L14.090
- P77L11/L14.110

## OptiPost instruments



### 1 Pilot bur

- For removing the root filling

183LA.204.090

Opti 1,000 – 5,000 rpm



### 2 Reamer (with tothing)

- For the initial reaming of the post canal

#### Upper jaw

- 29A.204.1 (OK1)
- 29A.204.2 (OK2)
- 29A.204.3 (OK3)

#### Lower jaw

- 30A.204.3 (UK3)
- 30A.204.4 (UK4)
- 30A.204.5 (UK5)

Opti 2,000 – 6,000 rpm



### 3 Placement drill (diamond coated)

- For defining the shape and roughening of the canal wall

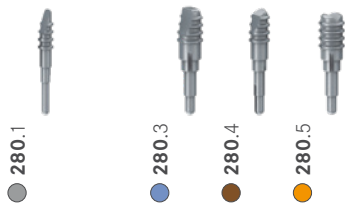
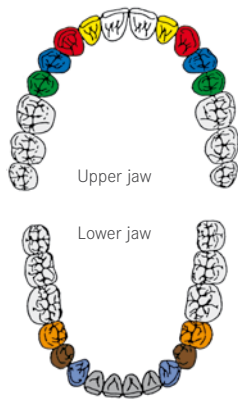
#### Upper jaw

- 27D.204.1 (OK1)
- 27D.204.2 (OK2)
- 27D.204.3 (OK3)
- 27D.204.4 (OK4)
- 27D.204.5 (OK5)

#### Lower jaw

- 28D.204.1 (UK1/2)
- 28D.204.3 (UK3)
- 28D.204.4 (UK4)
- 28D.204.5 (UK5)

Opti 2,000 – 6,000 rpm



OptiPost

## OptiPost posts



### OptiPost

- Made of pure titanium
- For the prosthetic restoration of anteriors, canines and premolars
- Excellent wall adaptation thanks to the stepped shank of the post
- Large diameter in the cervical region to ensure excellent fracture resistance
- The head part is reduced in size and exactly adapted to the anatomy of the individual tooth
- Micro retentive surface structure
- A suitable post for each tooth
- Simply choose the correct post according to the dental notation

### Direct build-up

Direct core build-up with composite.

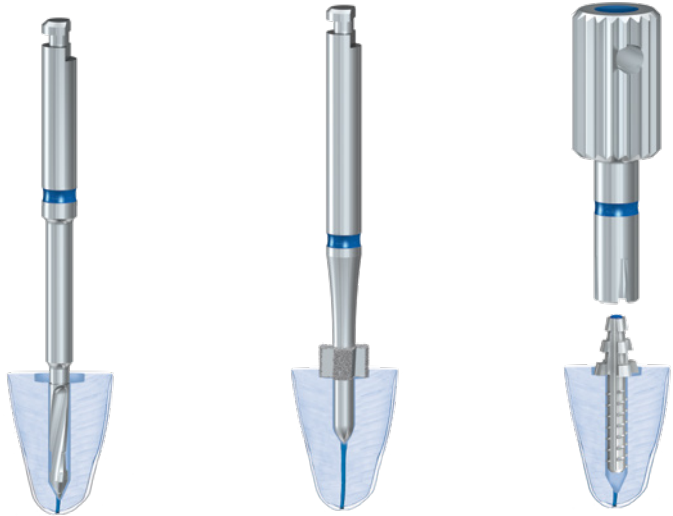
#### Upper jaw

- 279.1 (OK1)
- 279.2 (OK2)
- 279.3 (OK3)
- 279.4 (OK4)
- 279.5 (OK5)

#### Lower jaw

- 280.1 (UK1)
- 280.3 (UK3)
- 280.4 (UK4)
- 280.5 (UK5)

OptiPost



**1 Combination drill & Root facer**

- Preparation of the root canal with the combination drill

- 179.204.1 ● 179L.204.1
- 179.204.2 ● 179L.204.2
- 179.204.3 ● 179L.204.3

- Creation of the inlay cavity with the root facer

- 154.204.1
- 154.204.2
- 154.204.3

800 rpm

**2 Combination drill**

- For removing soft root filling materials and for enlarging the post canal

- 116D.204.1
- 116D.204.2
- 116D.204.3

2,000 rpm

**3 Placement tool**

- For inserting the Vario X posts

- 66L6.1
- 66L7.2
- 66L9.3

- For inserting the Vario posts

- 127.1
- 127.2
- 127.3



## Vario posts



### Vario/Vario L

- Made of pure titanium
- Cylindrical post shank
- Self-tapping thread
- For the prosthetic restoration of partially or severely destroyed teeth
- Available in 4 lengths

#### Direct build-up

Direct core build-up with composite.

- T91L6/L13.1
- T92L7/L13.2
- T93L9/L13.3



### Vario X/Vario XL

- Made of pure titanium
- Cylindrical post shank
- Self-tapping thread
- Pronounced retention head
- For the prosthetic restoration of deeply destroyed teeth
- Available in 4 lengths

#### Direct build-up

Direct core build-up with composite.

- T63L6.1
- T63L7.2
- T63L9.3

- T51L13.1
- T52L13.2
- T53L13.3



### Vario X Elo

- Made of pure titanium
- Cylindrical post shank
- Self-tapping thread
- Long, pronounced retention head
- For the prosthetic restoration of elongated teeth
- Available in 3 lengths

#### Direct build-up

Direct core build-up with composite.

- T63L6A.1
- T63L7A.2
- T63L9A.3

Vario



**1 Root canal reamer**

- For reaming the post canal

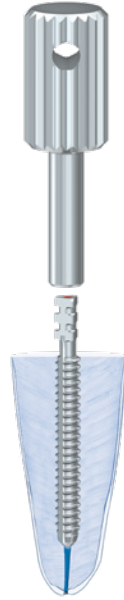
- 152BKS.204.1
- 152BKS.204.2
- 152BKS.204.3
- 152BKS.204.4
- 152BKS.204.5



**2 Screw tap**

- For manually cutting the thread into the dentin

- 118BKS.1
- 118BKS.2
- 118BKS.3
- 118BKS.4
- 118BKS.5



**3 Placement tool**

- For screwing in the BKS screws

119BKS

⊕<sub>opt</sub> 600 – 1,000 rpm

## BKS posts



### BKS

- Screw posts made of pure titanium
- The posts are retained in a pre-cut thread
- Tension-free fit of the screws thanks to screw taps of congruent shape
- Outstanding retention thanks to pronounced thread flanks
- Flexible use: 8 posts with different diameters and lengths

### Direct build-up

Direct core build-up with composite.

- 117BKS.1
- 117BKS.2
- 117BKS.3
- 117BKS.4
- 117BKS.5
- 117L11.1
- 117L8.2
- 117L8.3

BKS

## Revision: Hollow posts to be placed on fragments

### RepairPost



#### 1 Trepan bur RepairPost

- To drill around the remaining post fragment while preparing an inlay cavity at the same time

● 114.204.2

○<sub>opt.</sub> 1,000 rpm



#### 2 Trepan bur RepairPost

- For deepening the hole prior to using RepairPosts with a length of L7 and L9

● 113.204.2

○<sub>opt.</sub> 1,000 rpm



#### RepairPost

- Made of pure titanium
- For the restoration of a fractured post restoration
- The tube-shaped RepairPost is placed over the post fragment that is still in the root
- Easy to handle
- Safe restoration
- A new, durable and resilient restoration in just two steps

#### Direct build-up

Direct core build-up with composite.

- 332L5.2
- 332L7.2
- 332L9.2

Suitable for fragments with a diameter of up to 1.7 mm.

## Further revision instruments

### Removal of fractured posts



#### ● H196

- ER DentinPost remover
- For drilling Dentin-Post fragments out of the root canal

- H196.204.050
- H196.204.070
- H196.204.090
- H196.204.110

opt. 1,000 rpm

Revision

# Storage



556  
Sterilisation container A8



581  
ER Instrument tray  
(without instruments)



580  
ER Post tray  
(without instruments)

## General information

### Root posts

Root posts made of fibre reinforced composite (ER DentinPost, DentinPost X, DentinPost Coated, DentinPost X Coated), zirconium oxide (ER CeraPost) or polymethyl methacrylate (ER CAST) cannot be sterilized. They have to be cleaned and disinfected with medical alcohol.

Root posts are single-use products. A risk-free reuse of these products cannot be guaranteed as this poses a risk of infection and/or the safety of the products can no longer be guaranteed.

### Safety and liability

Please observe the general instructions for use and safety recommendations in the current Komet dental catalogue. The user is responsible for checking each product prior to use to ensure that it is suited for the intended purpose.

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