



Pasin-Pin[®]

The orthodontic mini-implant



bbc-orthotec.com


Pasin-Pin® System

The **Pasin-Pin® System** was developed to provide maximum flexibility in orthodontic therapy.

The coupling of implant and anchoring device is not system-dependent, so that orthodontists have maximum freedom of treatment. All forms of round and square wires up to a dimension of 1.15 mm (0.046 inches) can be securely and stably fixed by a screwable connection. **Pasin-Pin®** implants are made of Grade 5 titanium (Ti6AL4V) and feature self-drilling and self-tapping threads. The material is characterised by high biocompatibility and high tensile strength. Its mechanical properties are excellent, especially when it is used for orthodontic implants with a small diameter.

Features and properties

The **Pasin-Pin®** is available in different diameters and lengths, for the upper and lower jaws.

	Diameter	Length			
		8 mm	10 mm	12 mm	14 mm
Upper jaw	2,3 mm	✓	✓	✓	✓
	2,0 mm	✓	✓	✓	✓
Lower jaw	1,6 mm	✓	✓		

The length specification of the **Pasin-Pin®** combines the lengths of thread and transgingival collar. The slot in the head of the **Pasin-Pin®** is 1.2 mm (0.047 inches) wide.

Coupling elements (square & round wires) are fixed inplace by the **Pasin-Pin® Fix Cap**, a screwable connector. When using non-slot-filling wires, a light-curing composite can be used to additionally stabilise the wire.

Rotational stability:

When disassembling the orthodontic appliance from the **Pasin-Pin®**, or when unscrewing the **Pasin-Pin® Fix Cap**, stabilisation of the appliance will make the implant rotationally stable, so that unintentional unscrewing of the implant is prevented.

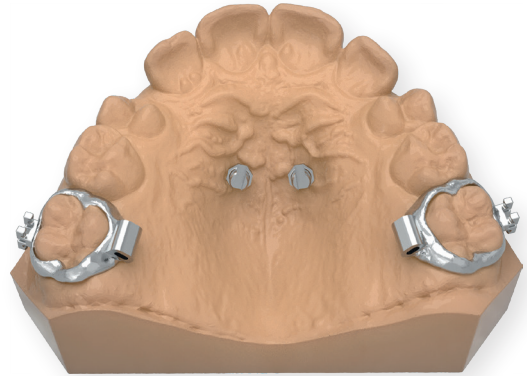
The small distance of 0.4 mm between the transgingival collar and the anchoring wire ensures low leverage and shearing forces and thus prevents early implant loss.

The **Pasin-Pin®** is supplied sterile and guarantees an absolutely clean surface. The surface is free from organic and inorganic particles and toxins to prevent premature implant loss.

Functional principle

Step 1.

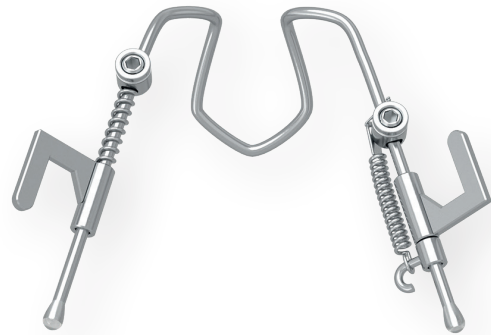
The **Pasin-Pin®** Mini implants are inserted paramedian and the bands are attached with band locks.



Step 2.

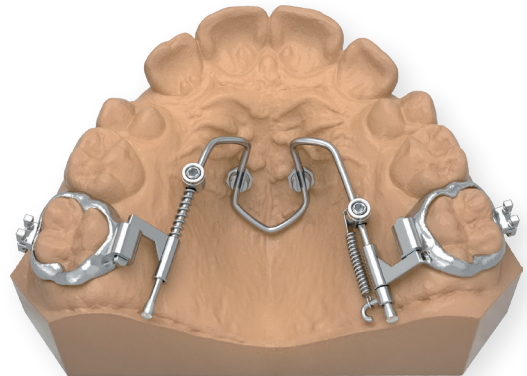
The appliance is bent from a simple 1.1 mm laboratory wire and the mechanics (distalization/mesialization) are attached.

The ends of the appliance are secured with flow composite. to secure the ends of the appliance.



Step 3.

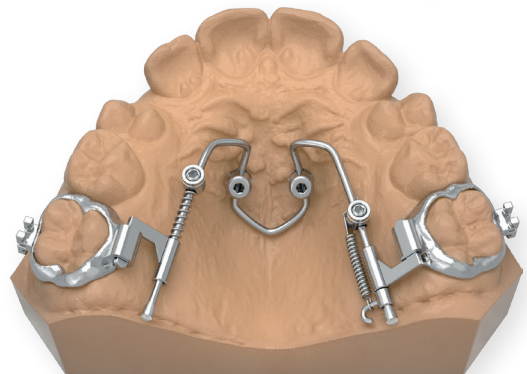
The pre-bent wire is inserted into the **Pasin-Pin®** slots and the Bayonet connectors are inserted into the strap locks.



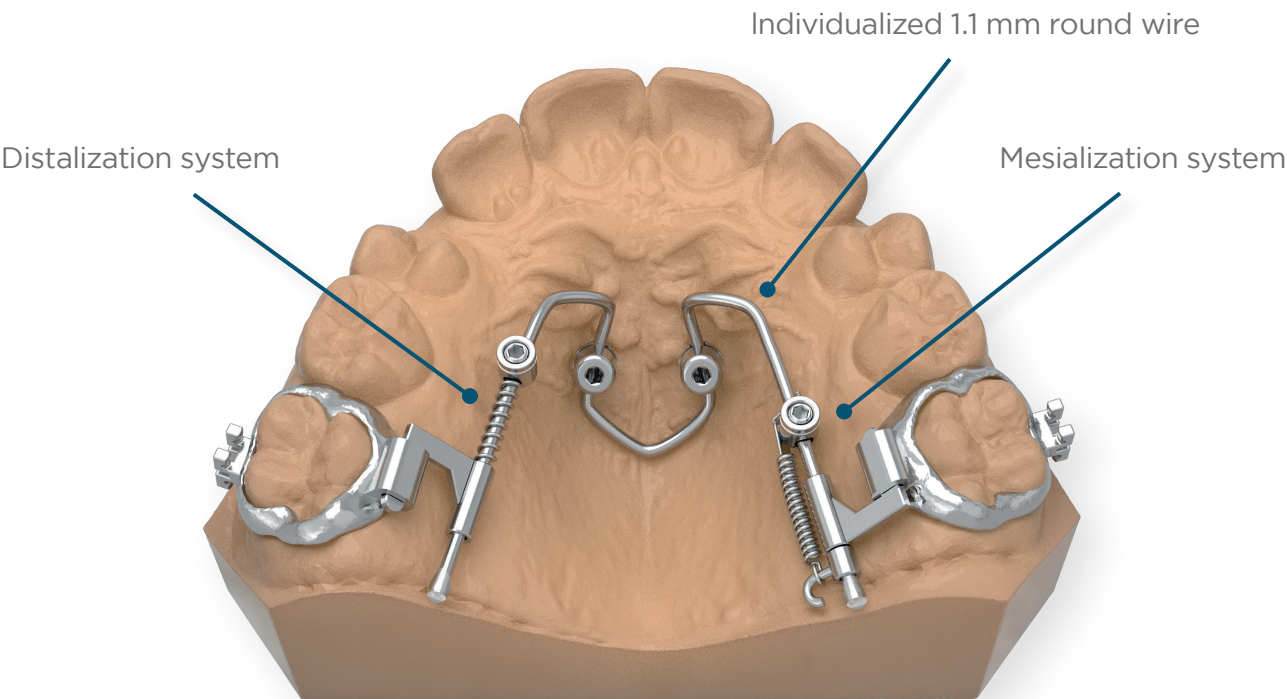
Step 4.

Two **Pasin-Pin® Fix Caps** are simply screwed on for fixation.

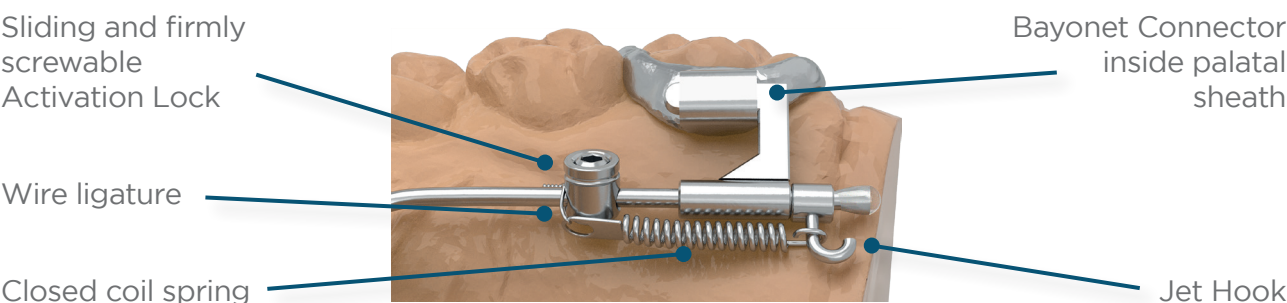
This makes the wire **rotation- and tilt-resistant**.



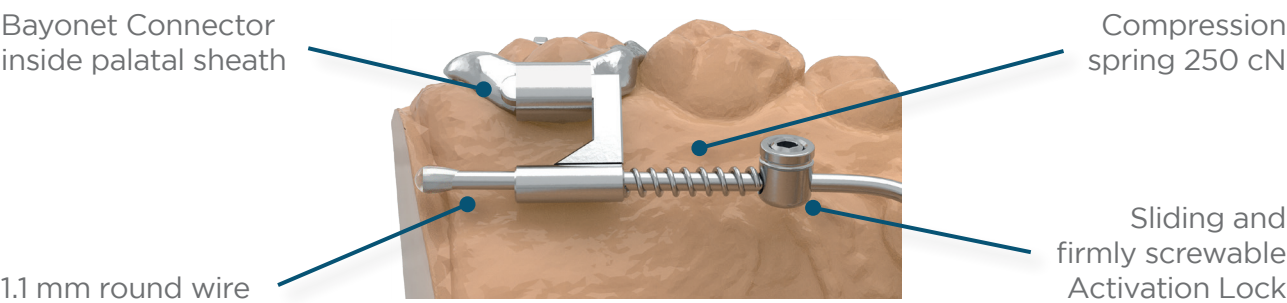
Distalization and mesialization in the upper jaw



Mesialization system

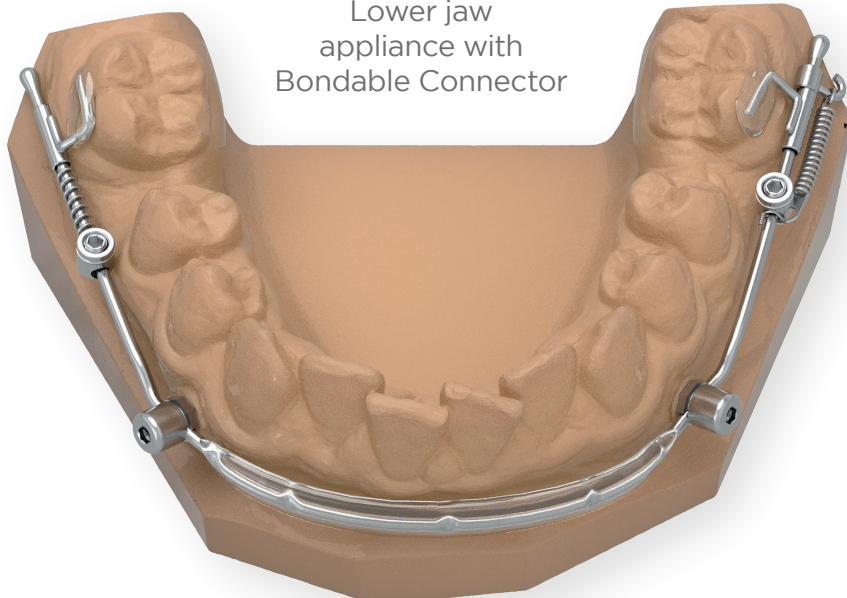


Distalization system

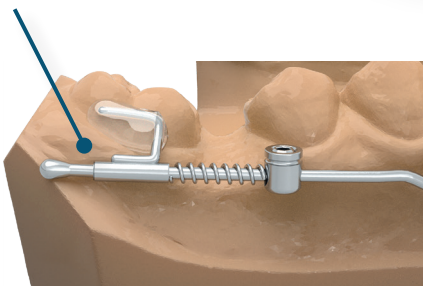


Distalization and mesialization in the lower jaw

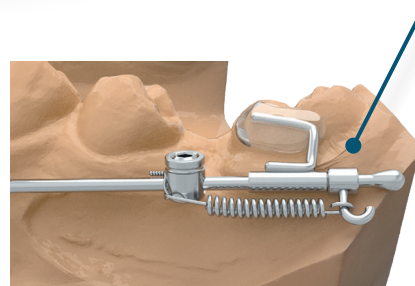
Lower jaw
appliance with
Bondable Connector



Distalization system

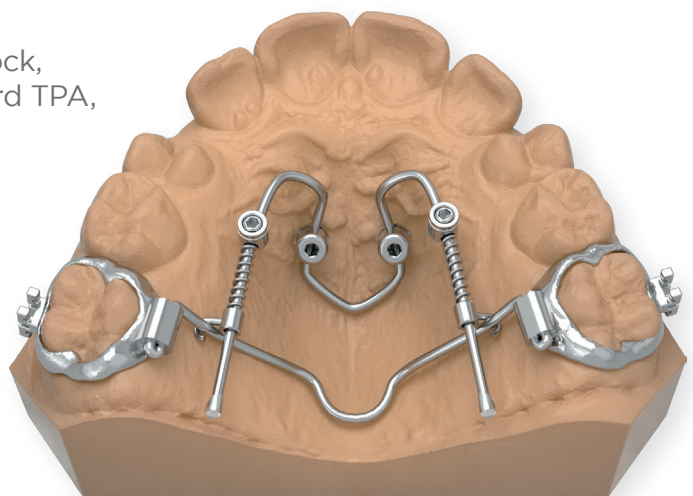
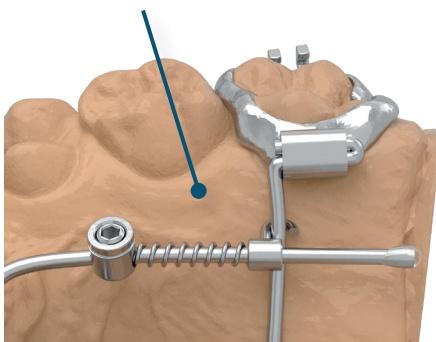


Mesialization system

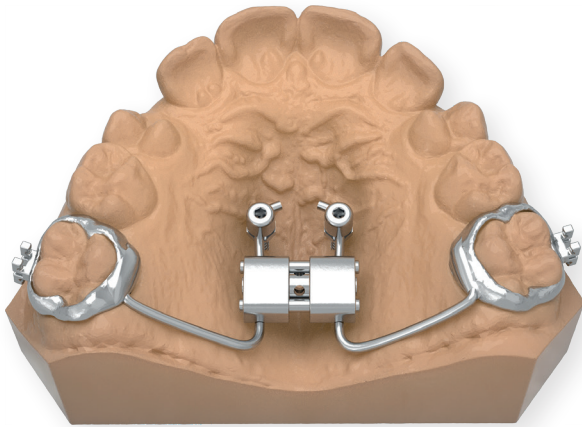


Distalization with TPA in the upper jaw

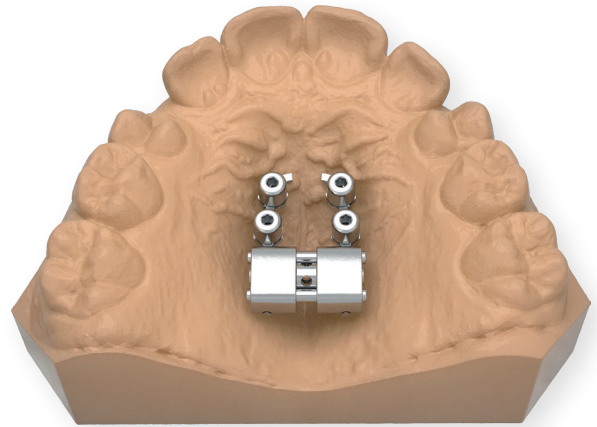
Components used: Jet Hook, Activation Lock, Compression spring, Individualized standard TPA, Individualized 1.1 mm round wire



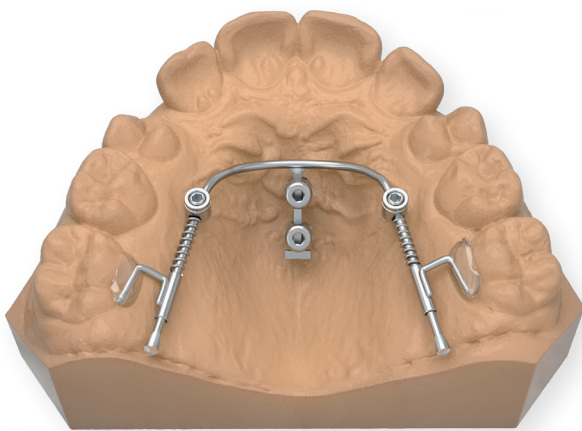
Application examples



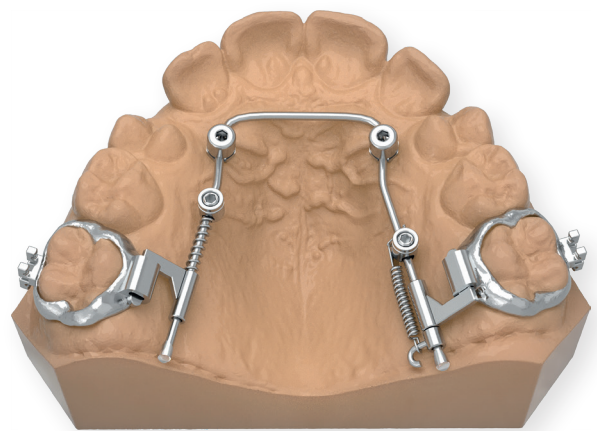
Implant supported RME



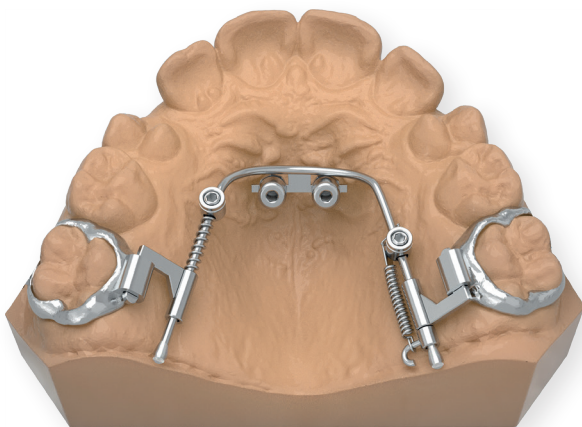
Implant supported RME



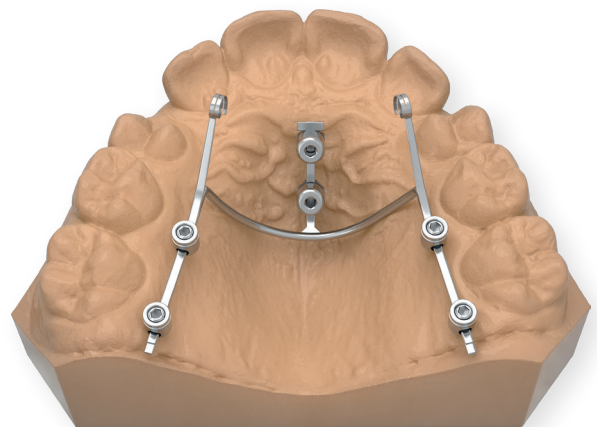
Appliance with T-Plate and
Bondable Connector



M4 appliance without plate
with 1.1 mm round wire

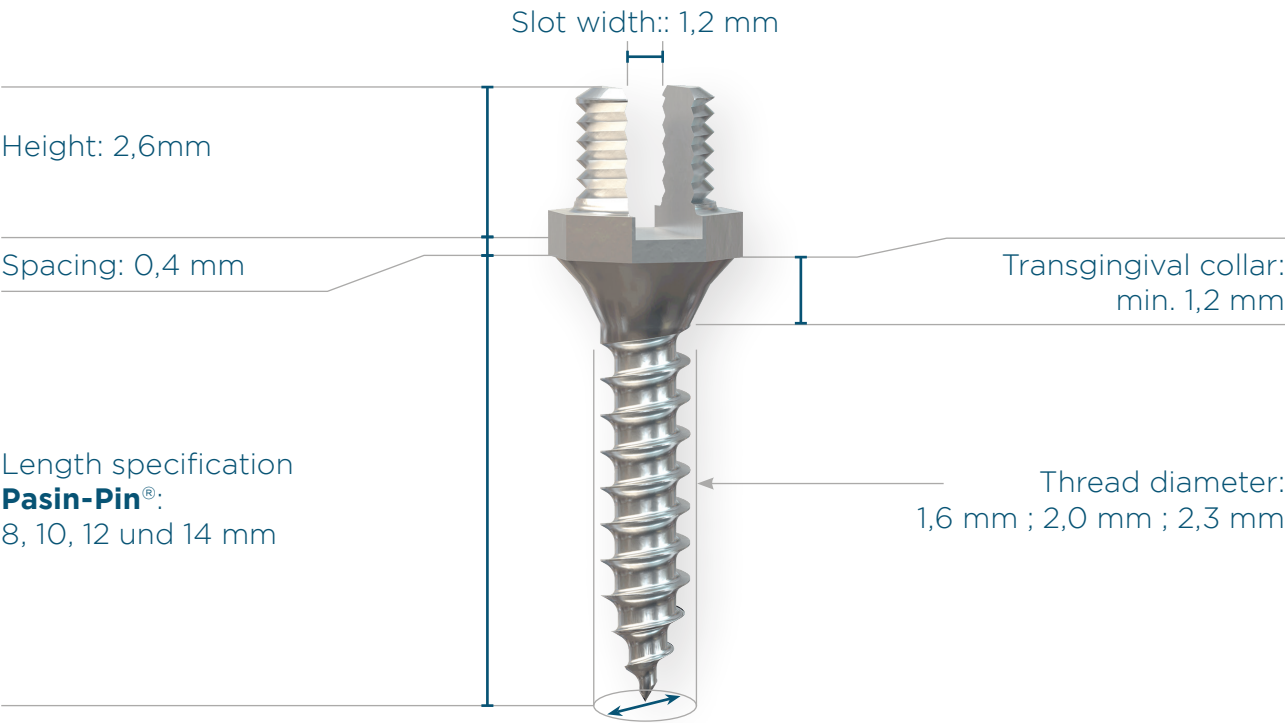


Appliance with H-Plate





T-plate with adjustable TMA spring
for impacted canine teeth

Pasin-Pin® Screw design



Product overview

Pasin-Pin®

Product	Description	PU	Ref.
Pasin-Pin® Ø 1,6 mm 	Dimension 1,6 x 8 mm	1	P1608
	Dimension 1,6 x 10 mm	1	P1610
Pasin-Pin® Ø 2,0 mm 	Dimension 2,0 x 8 mm	1	P2008
	Dimension 2,0 x 10 mm	1	P2010
	Dimension 2,0 x 12 mm	1	P2012
	Dimension 2,0 x 14 mm	1	P2014
Pasin-Pin® Ø 2,3 mm 	Dimension 2,3 x 8 mm	1	P2308
	Dimension 2,3 x 10 mm	1	P2310
	Dimension 2,3 x 12 mm	1	P2312
	Dimension 2,3 x 14 mm	1	P2314
Pasin-Pin® Fix Cap 	<i>Nut for the Pasin-Pin® Concept according to Dr. Banach</i>	2	M115

Supply:

All implants are supplied in sterile packaging and intended for single use.

Pasin-Pin® Starter Set

Product	Ref.
Pasin-Pin® System Starter Set	PPSS

Set is delivered in P-Casebox



1 x P-Screwdriver 25 mm



1 x Screwdriver Hex 20 mm



2 x Laboratory Analog



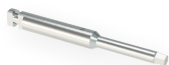
1 x P-Screw Holder 25 mm



1 x Q-Screw Handle



1 x Screwdriver FC 20 mm



Product Sets for mesialization and distalization

Pasin-Pin® System Set A

Art.-Nr. DKS10

2 x Pasin-Pin to choose



2 x Pasin-Pin Fix Cap



2 x Bayonet Connector



2 x NiTi-Spring



2 x Activation Lock with Screw



1 x P-Plate: T-Type or H-Type to choose



Pasin-Pin® System Set B

Art.-Nr. DKS15

2 x Pasin-Pin to choose



2 x Pasin-Pin Fix Cap



2 x Bayonet Connector



2 x NiTi-Spring






2 x Activation Lock with Screw





Screwdriver

Product	Description	PU	Ref.
P-Screwdriver 25 mm 	<i>The screwdriver is available in different lengths. This Instrument helps to align the implant, or the slot, after insertion. Unlike the screw holder, the screwdriver does not exert any frictional or tensile forces during removal from the implant screw.</i>	1	SD25
P-Screwdriver 35 mm 		1	SD35
P-Screwdriver 70 mm 		1	SD70
Screwdriver FC 20 mm 	<i>Screwdriver for the Pasin-Pin® Fix Cap</i>	1	Q2114
Screwdriver FC 30 mm 	<i>Screwdriver for the Pasin-Pin® Fix Cap</i>	1	Q2114L
Screwdriver Hex 20 mm 	<i>Schraubendreher für die Titanium Fixing Screw bzw. Activation Lock</i>	1	Q2115
Screwdriver Hex 30 mm 	<i>Schraubendreher für die Titanium Fixing Screw bzw. Activation Lock</i>	1	Q2115L













Screw holder

Product	Description	PU	Ref.
P-Screw Holder 25 mm 	<i>The screw holder is available in different lengths. This instrument ensures a safe, sterile removal from the packaging and a secure hold during implantation.</i>	1	SD25G
P-Screw Holder 35 mm 		1	SD35G
P-Screw Holder long 		1	SD70G





Accessories

Product	Description	PU	Ref.
P-Plate T-Type 	<i>Prefabricated coupling element for two Pasin Pin®. Connects square wire to round wire.</i>	1	P1200
P-Plate H-Type 		1	P1201



Accessories

Product	Description	PU	Ref.
Pasin-Pin® Laboratory Analog 	<i>After implant insertion, a silicone impression of the jaws can be taken to obtain a negative form of the clinical situation. The Pasin-Pin® laboratory analog will be positioned in the impression.</i>	2	LA11
Drill 1,0 x 15 mm 	<i>Pilot drill</i>	1	DR10
Q-Screw Handle 	<i>Screwable and sliding body for activation of the coil spring</i>	1	Q2116
Activation Lock with Screw 	<i>Screwdriver handle for all dental handpiece screwdrivers</i>	2	AL120
Titanium Fixing Screw 	<i>Replacement screws for Activation Lock</i>	10	TIFS
NiTi-Spring 250 cN 	<i>Coil spring with 250 cN</i>	2	NSO45
Spring 500 cN 	<i>Coil spring with 500 cN</i>	2	SS500
Bondable Connector Round 	<i>Prefabricated coupling element for direct bonding to the tooth, developed by Dr. Banach</i>	2	BDC12
Bayonet Connector Round 	<i>Prefabricated coupling element to palatal sheath</i>	2	BYC12
Jet Hook 	<i>Prefabricated coupling element for TPA or a closed coil spring</i>	10	JH16
Torque-Ratchet 	<i>Torque ratchet for implant insertion at a specific maximum torque</i>	1	QX30
P-Screw Handle 	<i>Screwdriver handle for SD70 and SD70G screwdrivers, for manual insertion of implants</i>	1	L3


Products for surgical guide and 3D software solution

Product	Description	PU	Ref.
P-Screw Holder Guide 30 mm 	<i>Special Pasin-Pin Screw Holder to use in combination with a surgical guide splint</i>	1	SD30G
P-Drill Guide Sleeve 	<i>Guide Sleeve for „DR10“ Drill, to use in combination with a surgical guide splint</i>	1	DGS1
P-Screw Holder Guide Sleeve 	<i>Guide Sleeve for „SD30G“ Screw Holder; to use in combination with a surgical guide splint</i>	1	HGS1
Scanbody Pasin-Pin 	<i>To use in combination with intraoral scanner and 3D software</i>	2	SB018

Casebox

Product	Description	PU	Ref.
P-Casebox 	<i>Pasin-Pin® System casebox</i>	1	PSB2
P-Sterilization-Box 	<i>Sterilisable instrument tray</i>	1	PSB1

Typodont

Product	Description	PU	Ref.
Upper Crowding Narrow		1	PTMD
Upper Crowding Regular		1	PTMD2
Lower Crowding Regular		1	PTMD3
Lower Straight		1	PTMD4
Upper Straight		1	PTMD5



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for orthodontics
and sleep medicine.

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