

BENEFIT[®]-System . Handout

Prof. Dr. Benedict Wilmes | Düsseldorf

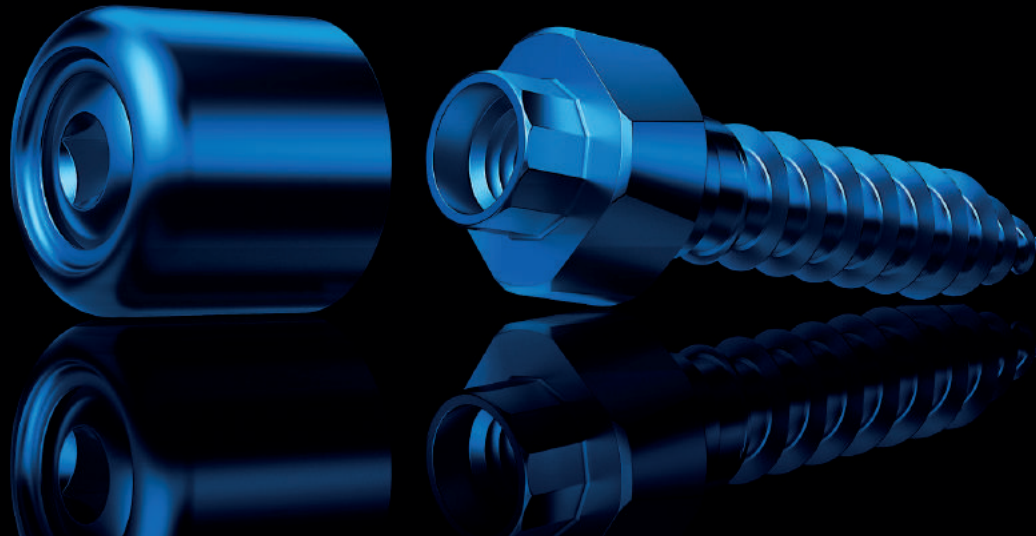


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INTRODUCTION | EINFÜHRUNG

Skeletal anchorage in Orthodontics

An important requirement for successful orthodontic treatment is stable anchorage. Conventional orthodontic anchorage can be limited by periodontal disease and/or missing teeth. Skeletal anchorage has been proven to be very effective. It can be an essential part of non-compliance therapy and broadens the options available to the orthodontic practitioner.

Mini-Implants are especially advantageous because of the minimally invasive insertion protocol and their relatively low cost.

However, limitations can occur when conventional Mini-Implant Systems are used for orthodontic anchorage. In collaboration with leading specialists, **psm** has developed the unique **BENEFIT®** TAD System for temporary fixation in the palate. **BENEFIT®** offers high precision titanium implant screws and a large variety of prefabricated connecting parts such as **BENEplates**, abutments and palatal expanders.

With the introduction of the **BENEFIT®** System **psm** has considerably enhanced the therapeutic diversity of the treatments available for Mesialization, Distalization, RPE as well as uprighting or anchorage of the dentition.

With **BENEFIT®**, **psm** was the first company to offer a full range of skeletal anchorage appliances for the palate – a trend that has become state-of-the-art in Orthodontics.

Skelettale Verankerung in der Kieferorthopädie

Eine wichtige Voraussetzung für eine erfolgreiche kieferorthopädische Behandlung ist die hinreichend stabile und belastbare Verankerung. Die skelettale Verankerung hat sich hierfür in den letzten Jahren durchgesetzt und nicht zuletzt wegen ihrer Unabhängigkeit von der Patientencompliance das Behandlungsspektrum der Kieferorthopädie enorm erweitert.

Unter den verschiedenen skelettalen Verankerungssystemen haben sich mittlerweile insbesondere die Mini-Implantate aufgrund ihrer geringen chirurgischen Invasivität und der relativ geringen Kosten etabliert.

Jedoch stößt man bei den herkömmlichen Mini-Implantat-Systemen bisweilen an Grenzen, wenn es um die Verbindung vom Mini-Implantat zur kieferorthopädischen Apparatur geht. **psm** hat in Zusammenarbeit mit führenden Spezialisten das einzigartige **BENEFIT®** Implantat System für die temporäre Verankerung im Gaumen entwickelt. **BENEFIT®** bietet hochpräzise Implantatschrauben aus Titan und eine Vielzahl an vorkonfektionierten Verbindungssteilen wie **BENEplates**, Abutments und Gaumenexpandern.

Mit der Einführung des **BENEFIT®** Systems vor über 10 Jahren hat **psm** die therapeutische Vielfalt mit Behandlungsoptimierungen u.a. bei der Mesialisierung, Distalisierung, GNE sowie der Verschiebung und Verankerung von sämtlichen Zähnen erheblich verbessert.

Mit dem **BENEFIT®** System war **psm** das erste Unternehmen, das ein rein knochengetragenes, palatinales Verankerungssystem angeboten hat, welches sich heutzutage als State-of-the-art in der Kieferorthopädie durchgesetzt hat.

BENEFIT® MINI IMPLANT | BENEFIT® MINI IMPLANTAT

Double hexagon to prevent rotation of abutments.
Zwölfkant zur Vermeidung von Abutment Rotation.

Internal thread for BENEplate fixation screw or the abutment screw.
Innengewinde für den Einsatz der BENEplate Fixierschraube oder der Abutmentschraube.

Non removable internal abutment screws.
Fest integrierte Abutmentschraube.

Increased thread depth and denser pitch design ensure maximum anchorage even in cancellous bone.

Tiefe Gewindeflanken und enge Gewindesteigung für maximale Verankerung auch in spongiösem Knochen.

Continuously sharp thread flanks cut into the bone.

Durchlaufend scharfe Gewindespitzen.

Selfdrilling screw tip.

Selbstbohrende Schraubenspitze.

Optimized thread design leads to easy insertion without force (cork screw principal).

Optimiertes Gewindedesign ermöglicht leichtes Inserieren ohne Druck (Korkenzieherprinzip).

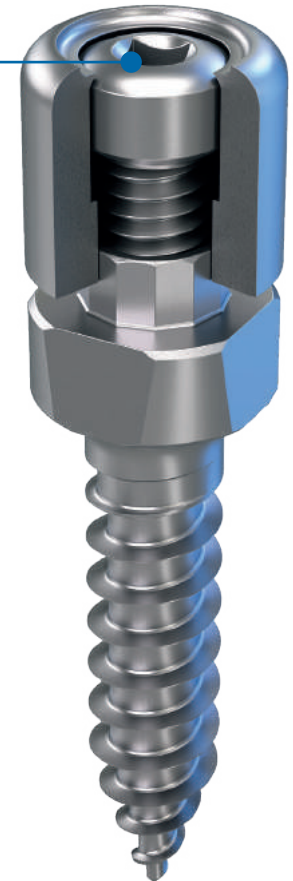
Ø1,5 / Ø1,8



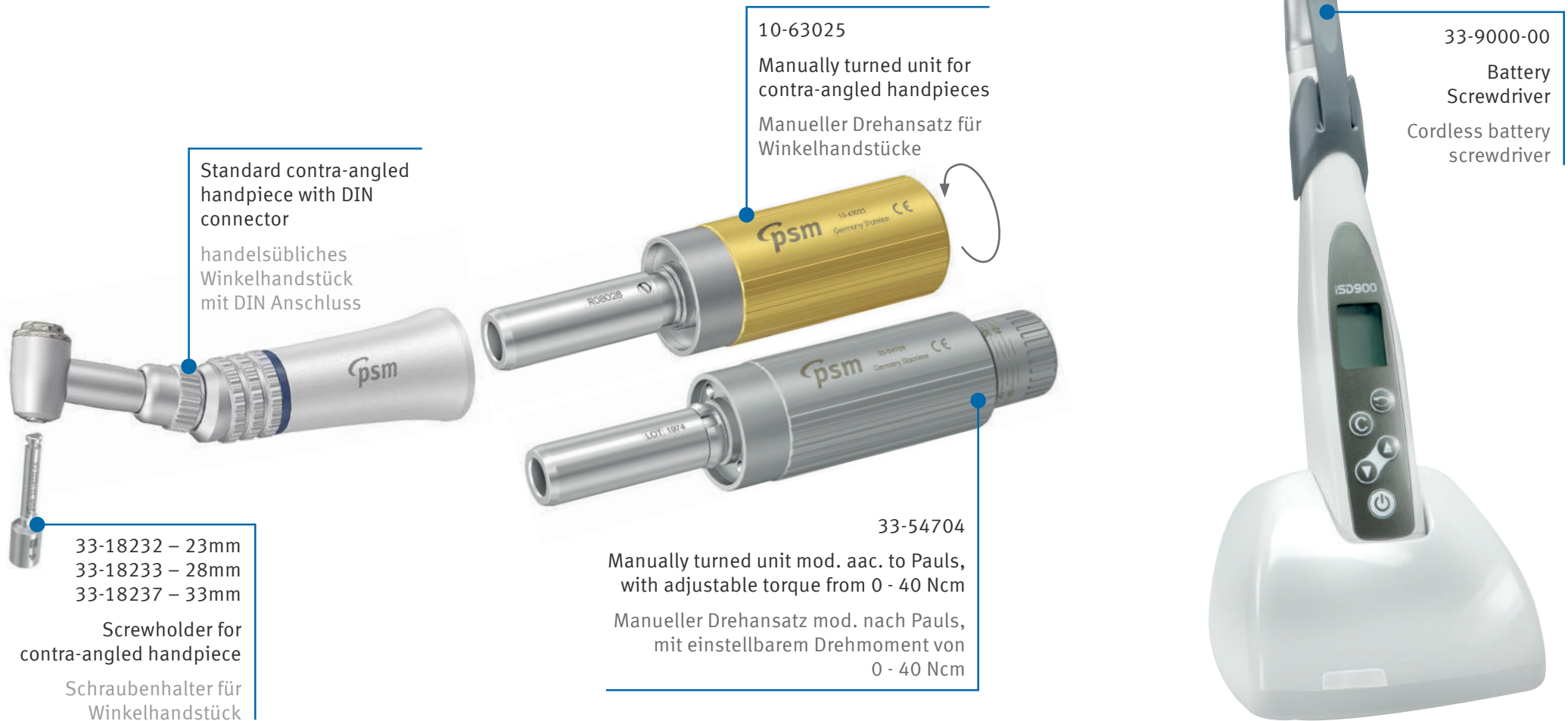
Ø2,0



Ø2,3



SCREWDRIVER | SCHRAUBENDREHER



SCREW REMOVAL | SCHRAUBEN ENTNAHME

Direct screw removal from the sterile holder.

Entnahme der Schraube direkt aus der Sterilhalterung.



SCREWS & ABUTMENTS | SCHRAUBEN & ABUTMENTS

BENEFIT® Mini Implants BENEFIT® Mini Implantate



Abutments Abutments



Connection with the appliance Verbindung mit der Apparatur

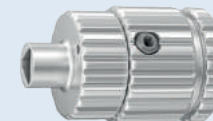


Manual Screwdrivers Manuelle Schraubendreher

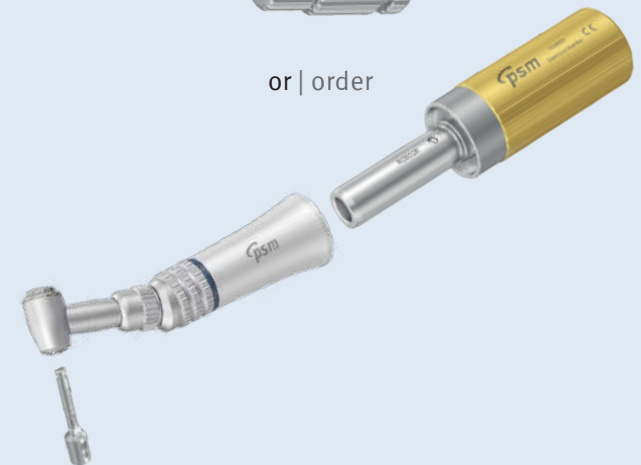


with limited
torque (10 Ncm)
mit begrenztem
Drehmoment (10 Ncm)

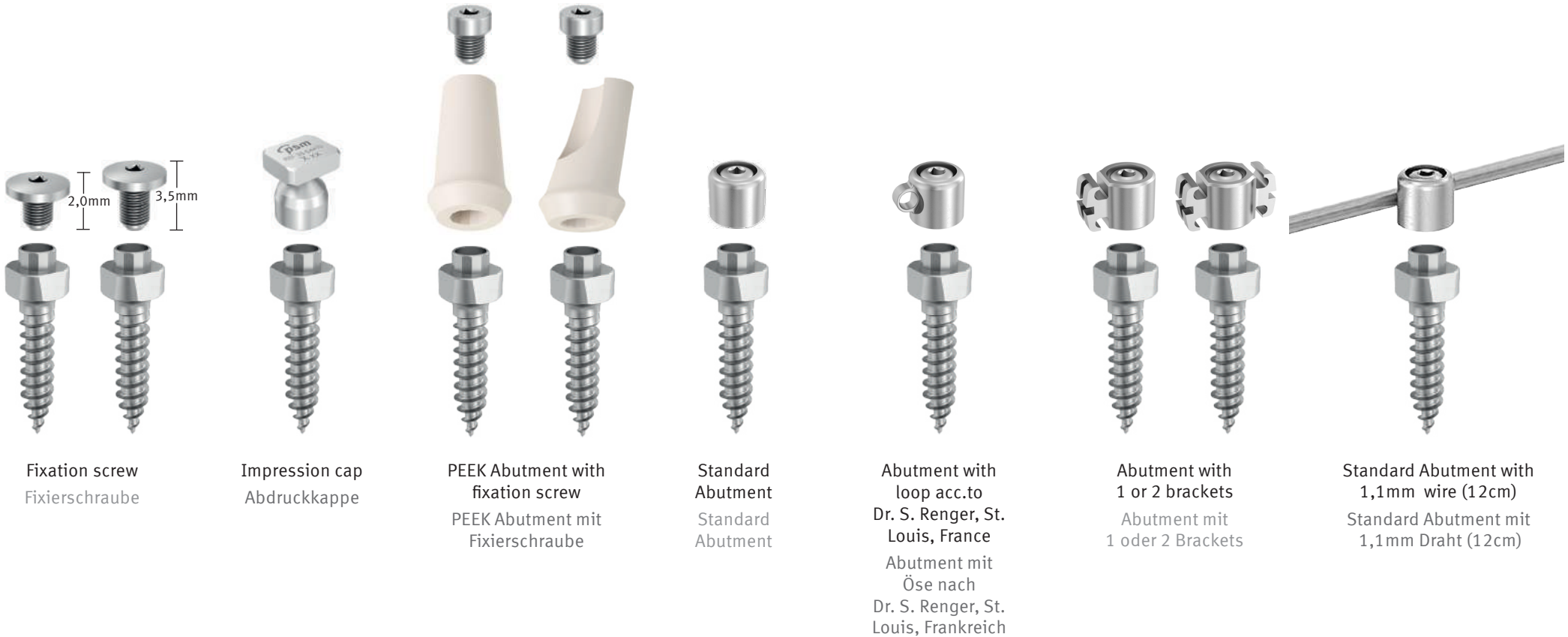
or | order



or | order



SCREWS & ABUTMENTS | SCHRAUBEN & ABUTMENTS



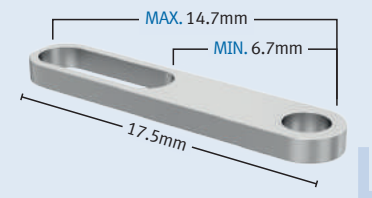
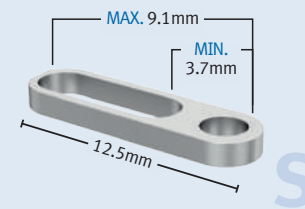
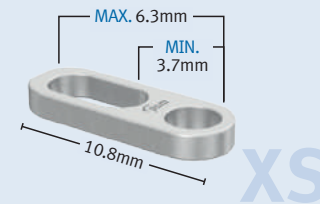
BENEFIT®-System | BENEFIT®-System

BENEslder mesial/distal
BENEslder mesial/distal



median

beneplate



median



paramedian

Ordering information on page 51
Bestellinformationen auf Seite 51

ADAPTATION | ANBIEGEN

The BENEs slider

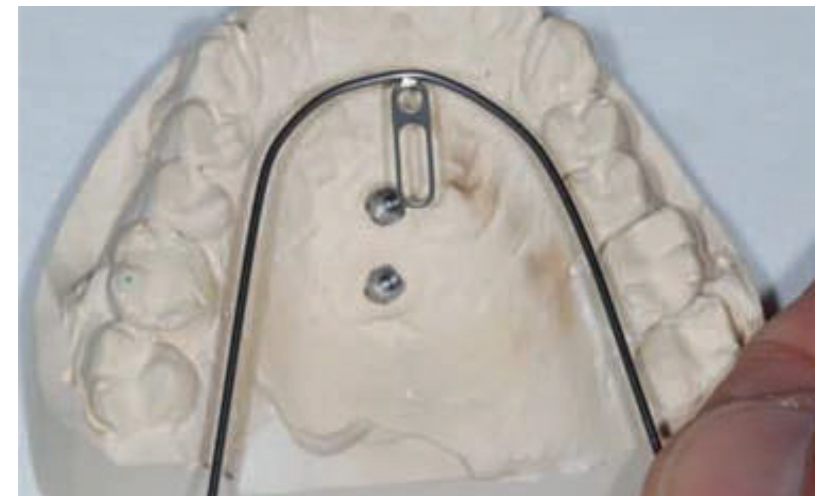
The most classical indication for skeletal anchorage using Mini-Implants with abutments is molar-distalization and mesialization in the maxilla. By means of the so called "**BENEs slider**" the molars can be bodily distalized or mesialized using the Mesial slider. In many cases, tooth extraction or dental implants can be avoided.

To couple two **BENEFIT**® Mini-Implants, a **BENEs plate** with a welded wire is connected to the implants and the **BENEs slider** parts (mobilizer, springs, **BENEs tube**) are placed on the wire. Active force is applied by springs (240g or 500g) and activated with the Mobilizer.

Der BENEs slider

Eine der klassischen Indikationen für eine skelettale Verankerung und insbesondere für Mini-Implantate mit Abutments stellt die Molarendistalisierung/-mesialisierung im Oberkiefer dar. Mittels des so genannten „**BENEs slider**“ können die Molaren körperlich distalisiert werden. Mit Hilfe des Mesial sliders werden Zähne körperlich mesialisiert. So kann in vielen Fällen die Extraktion von bleibenden Zähnen und/oder dentale Implantate vermieden werden.

Zur Verbindung zweier **BENEFIT**® Mini-Implantate wird eine **BENEs plate** mit Draht auf die Implantate geschraubt und die **BENEs slider** Teile (Mobilisator, Federn, **BENEs tube**) auf den Draht aufgesteckt. Die ausführende Kraft wird über eine Feder (240g oder 500g) mittels Mobilisator aktiviert.



SKELETAL ANCHORAGE | SKELETTALE VERANKERUNG



Anesthesia:
Two paramedian injections

Anästhesie:
Zwei paramediane Depots



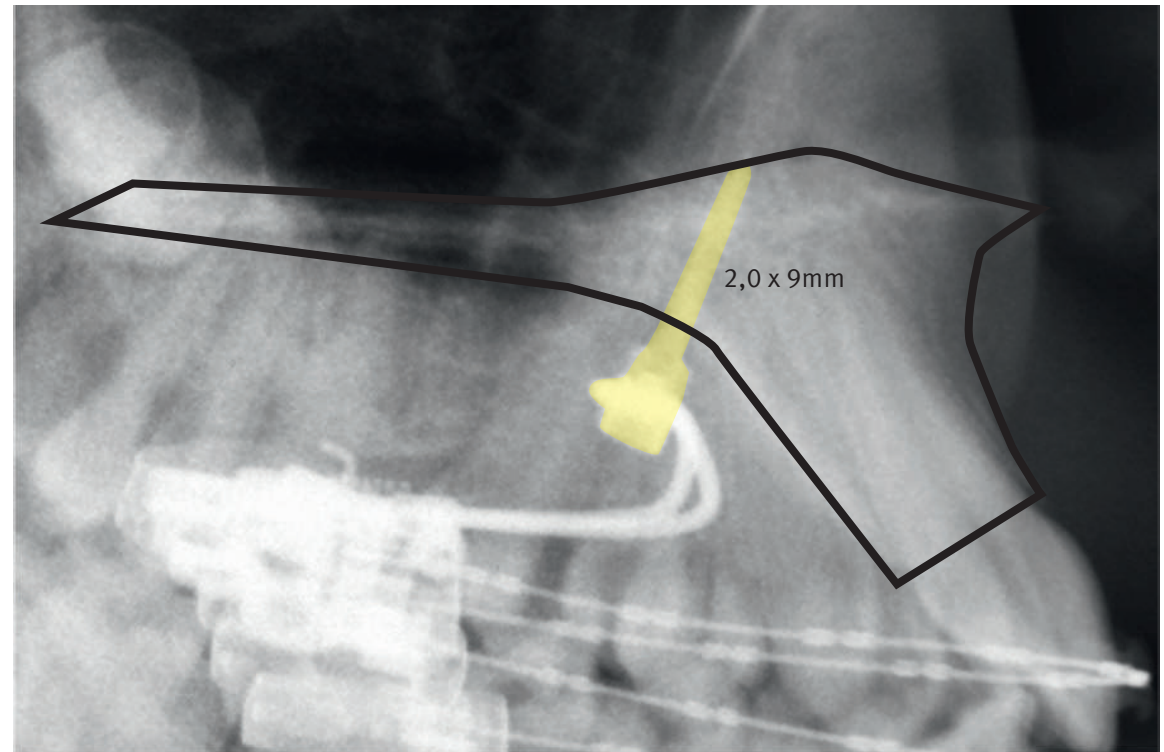
Pre-drilling:
approx. 3mm deep
(only required for adults)

Vorbohrung:
ca. 3mm tief
(nur bei Erwachsenen
erforderlich)



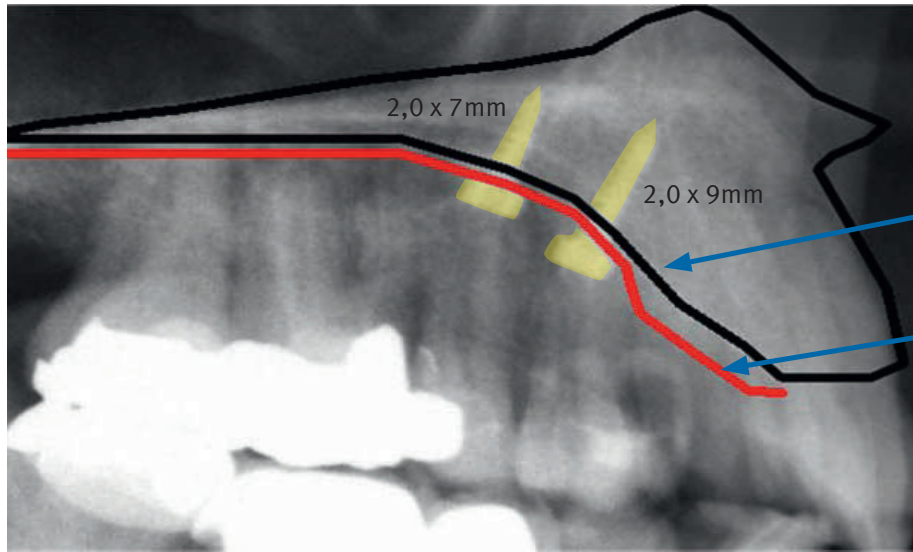
Implant Insertion:
easy and secure insertion
by the orthodontist

Implantatinsertion:
Einfaches und sicheres
Implantieren durch den
Kieferorthopäden



Standard dimension of a palatal mini-implant
Standard Größe des palatinalen Mini-Implantates

SKELETAL ANCHORAGE | SKELETTALE VERANKERUNG



Mini implant sizes at median insertion

Mini-Implantat Größen bei medianer Insertion

posterior Mucosa app. 1 mm
Mukosa posterior ca. 1 mm

anterior Mucosa > 3 mm
Mukosa anterior ca. 3 mm

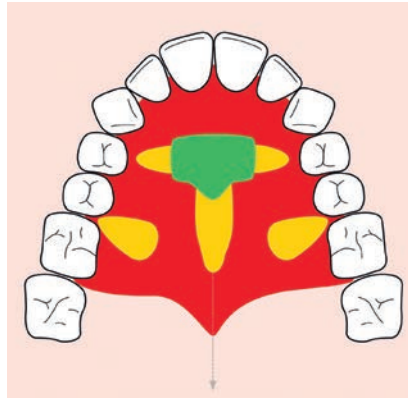
Distance between mini-implants: 7 - 14 mm

Abstand zwischen den Mini-Implantaten: 7 - 14 mm



Best insertion area

Bevorzugtes Insertionsgebiet



T-Zone

T-Zone



Median insertion

Mediane Insertion



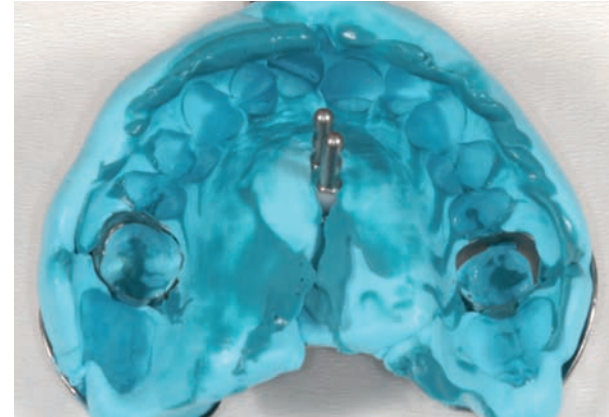
Paramedian insertion 2.0 x 9mm

Paramediane Insertion 2,0 x 9mm

ADAPTATION IN THE LABORATORY | HERSTELLUNG IM LABOR



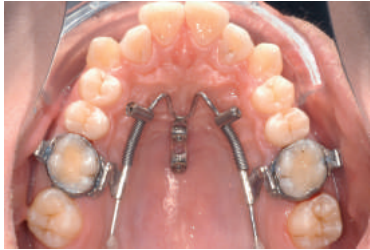
33-54410
Impression cap, 2 ea.
Abdruckkappe , 2 St.



33-54426
Laboratory analog, 2 ea.
Laborimplantat (Analog), 2 St.



VERSATILE USAGE OF TAD'S | ANWENDUNGSBEISPIELE



Molar Distalization
Molaren Distalisierung

BENEsider
BENEsider

Pendulum B
Pendulum B



Molar Mesialization
Molaren Mesialisierung

Mesialslider
Mesialslider

T-Bow
T-Bogen



RPE (and facemask) Hybrid-Hyrax
Hybrid Hyrax (GNE)

Alignment of unerupted teeth
Einordnung retinierter Zähne



Temporary pontics
Temporärer Zahnersatz

Molar Uprighting
Molarenaufrichtung



BENESLIDER | BENESLIDER



33-54543

Micro Mobilizer
Micro Mobilisator



33-54540

Mobilizer
Mobilisator

33-54409

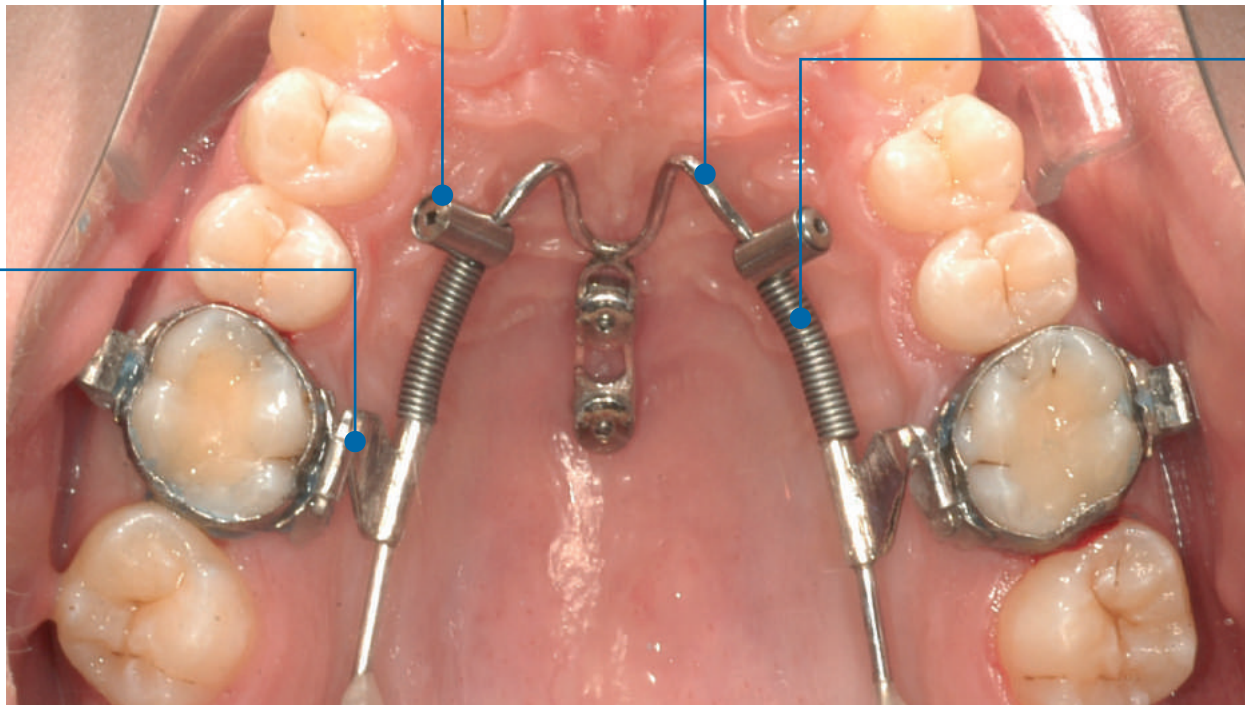
BENEplate
with 1.1 mm wire

BENEplate
mit 1,1 mm Draht



33-54536

BENEtube
BENEtube



33-54524

Adolescent: 240 g NiTi coil spring
Jugendliche: 240 gr. NiTi Federn

33-54525

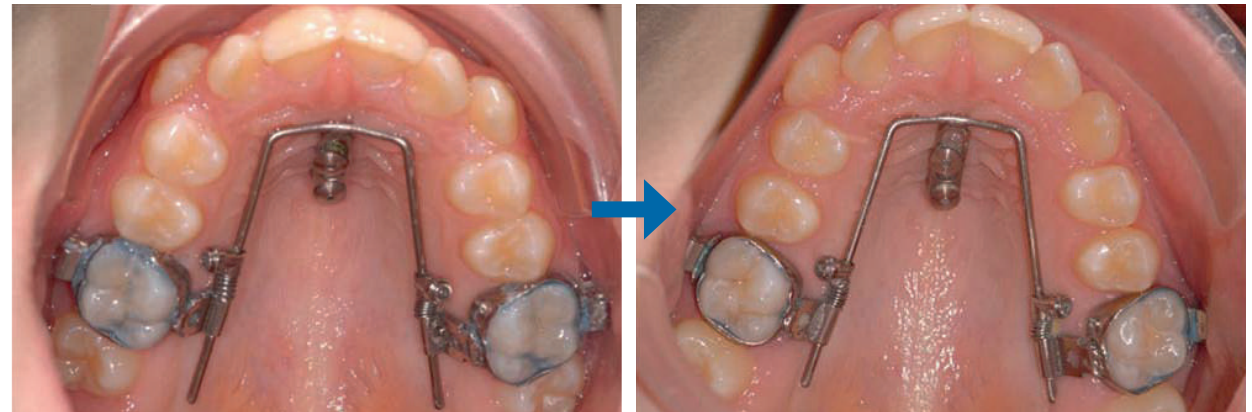
Adults: 500 g NiTi coil spring
Erwachsene: 500 gr. NiTi Federn

BENESLIDER | BENESLIDER

beneplates

BENEplate with 1.1 mm
stainless steel wire

BENEplate mit 1,1 mm Draht
aus rostfreiem Stahl

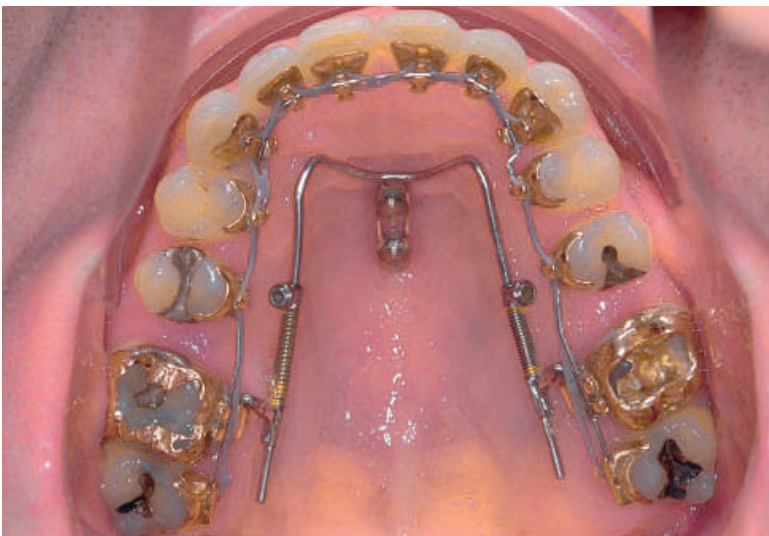


5.5 months later | 5,5 Monate später



7 months later | 7 Monate später

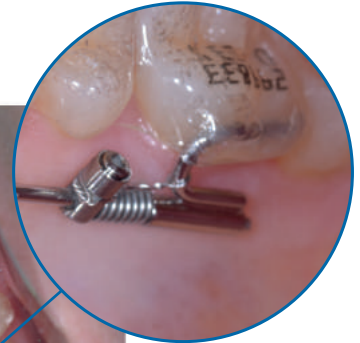
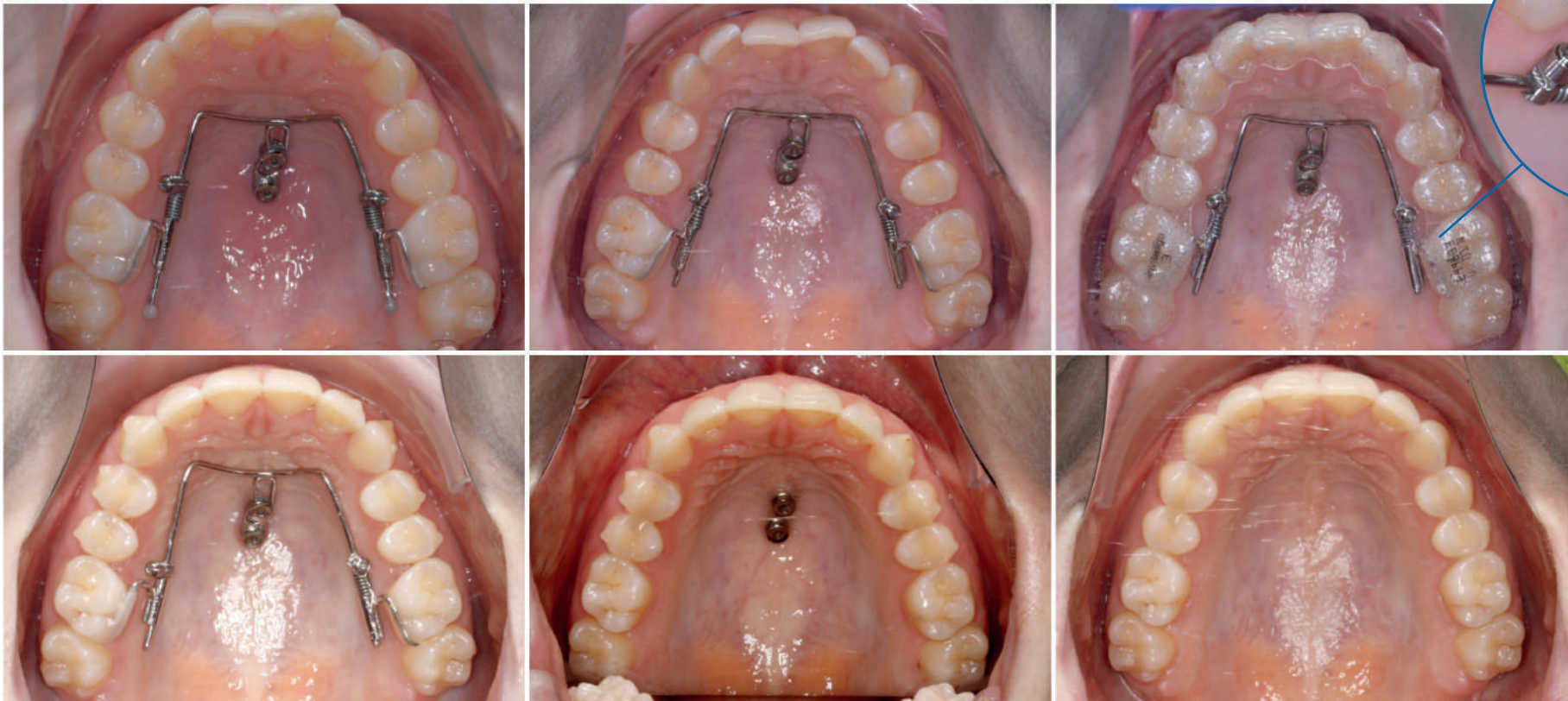
BENESLIDER WITH LINGUAL BRACES | BENESLIDER MIT LINGUALBRACKTES



BENefit WITH ALIGNERS| BENefit MIT ALIGNER



beneplates



33-54544

Banach Tube
stainless steel

Banach Tube
Stahl

PENDULUM B | PENDULUM B

beneplates

BENEplate

with 0.8 mm stainless steel wire (33-54428)
or **TMA** (33-54420)

BENEplate

mit 0,8mm Stahldraht (33-54428)
oder **TMA-Draht** (33-54420)



Treatment Start
Behandlungsbeginn



4 months later
4 Monate später

> Total treatment time: 12 months

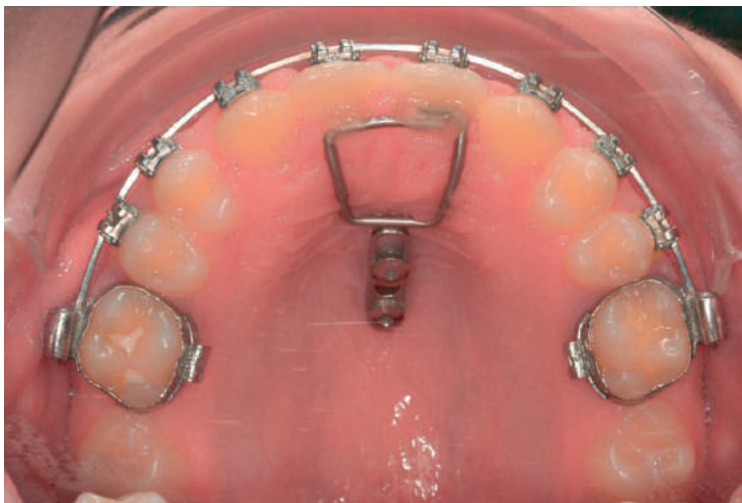
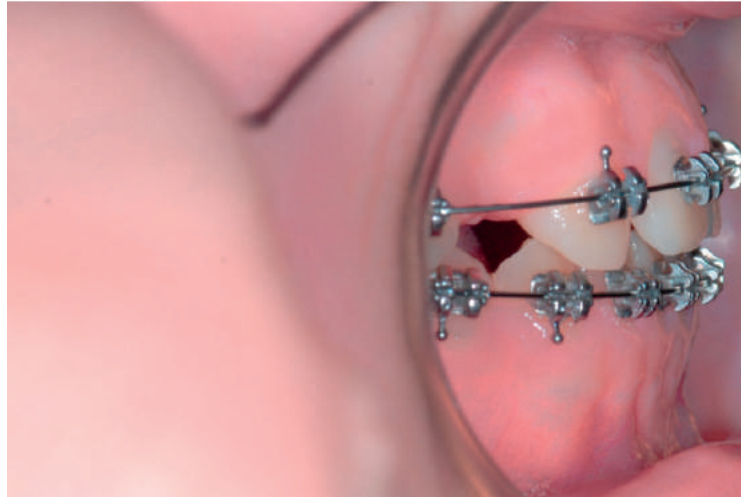
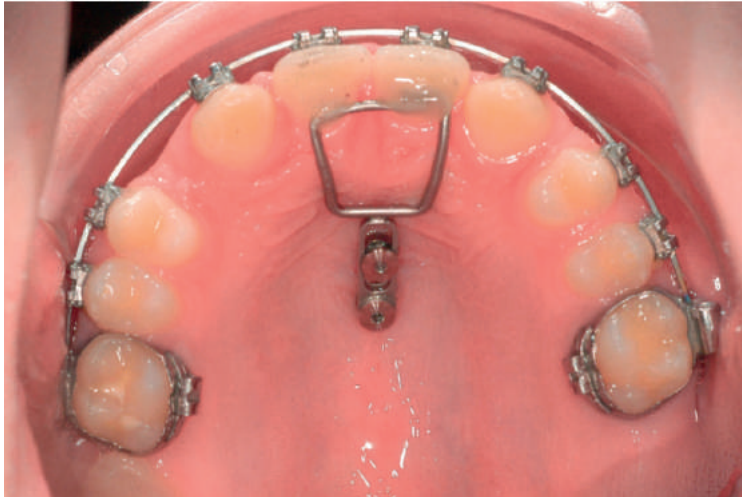
- 6 months Pendulum
- 6 months braces

> Gesamte Behandlungszeit: 12 Monate

- 6 Monate Pendulum
- 6 Monate Brackets



ANTERIOR ANCHORAGE, T-BOW | FRONT-VERANKERUNG, T-BOGEN



MESIALSLIDER | MESIALSLIDER

beneplates



33-54553
Mirco Mobilizer with hook
MicroMobilisator mit Haken



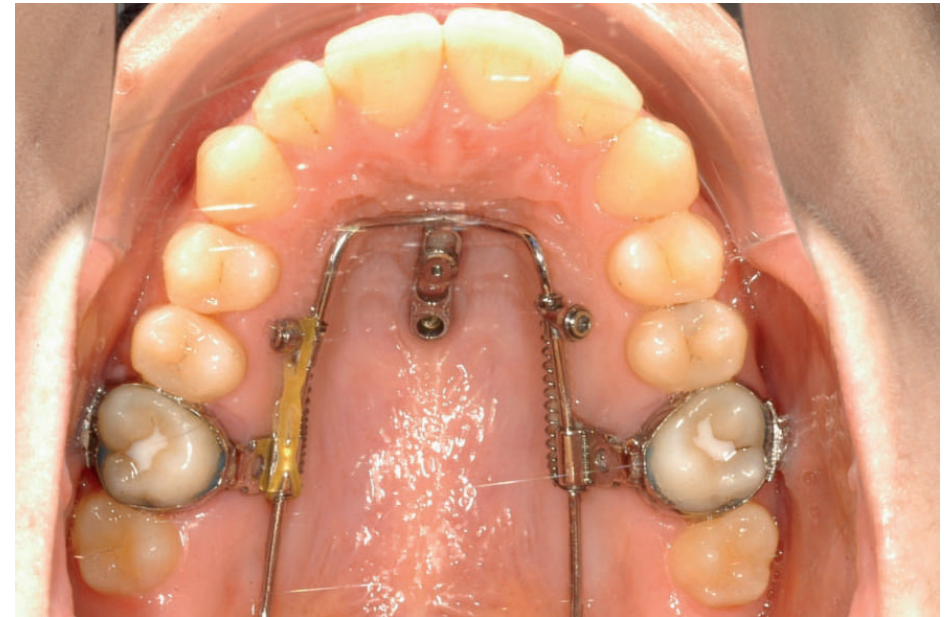
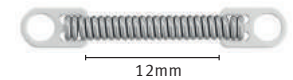
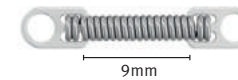
33-54541
Mobilizer with hook
Mobilisator mit Haken



33-54539
Mesialtube
Tube mesial



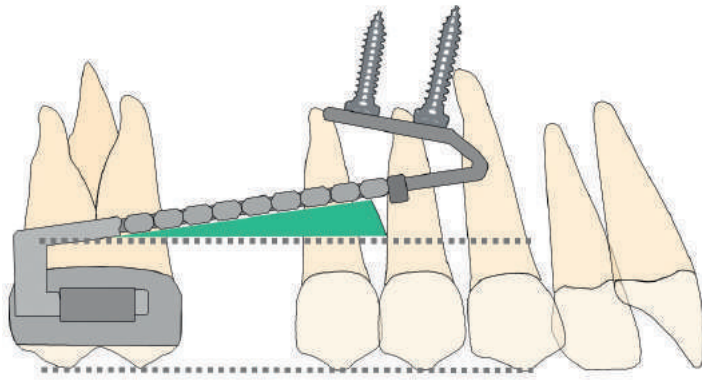
Niti spring
NiTi Federn



MESIALSLIDER | MESIALSLIDER

Mesialslider with an inclined plane for simultaneous molar intrusion

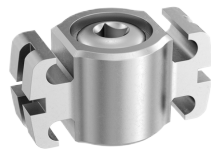
Mesialslider mit schiefer Ebene zur simultanen Molarenintrusion



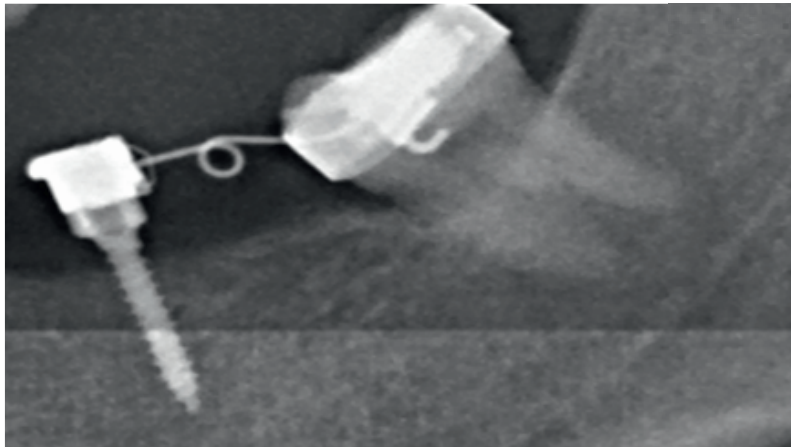
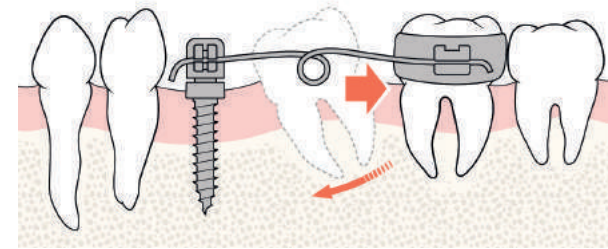
MOLAR UPRIGHTING | MOLARENAUFRICHTUNG



33-54450



33-54452



TEMPORARY PONTIC | TEMPORÄRER ZAHNERSATZ



33-54430
Abutment Standard
Standard Abutment

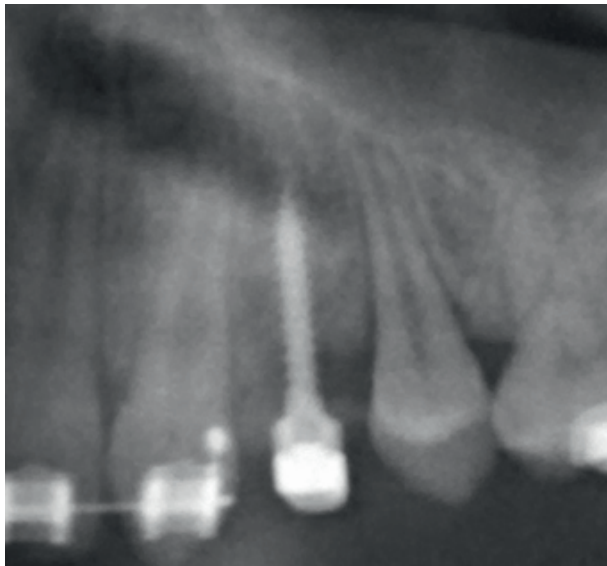
or
oder



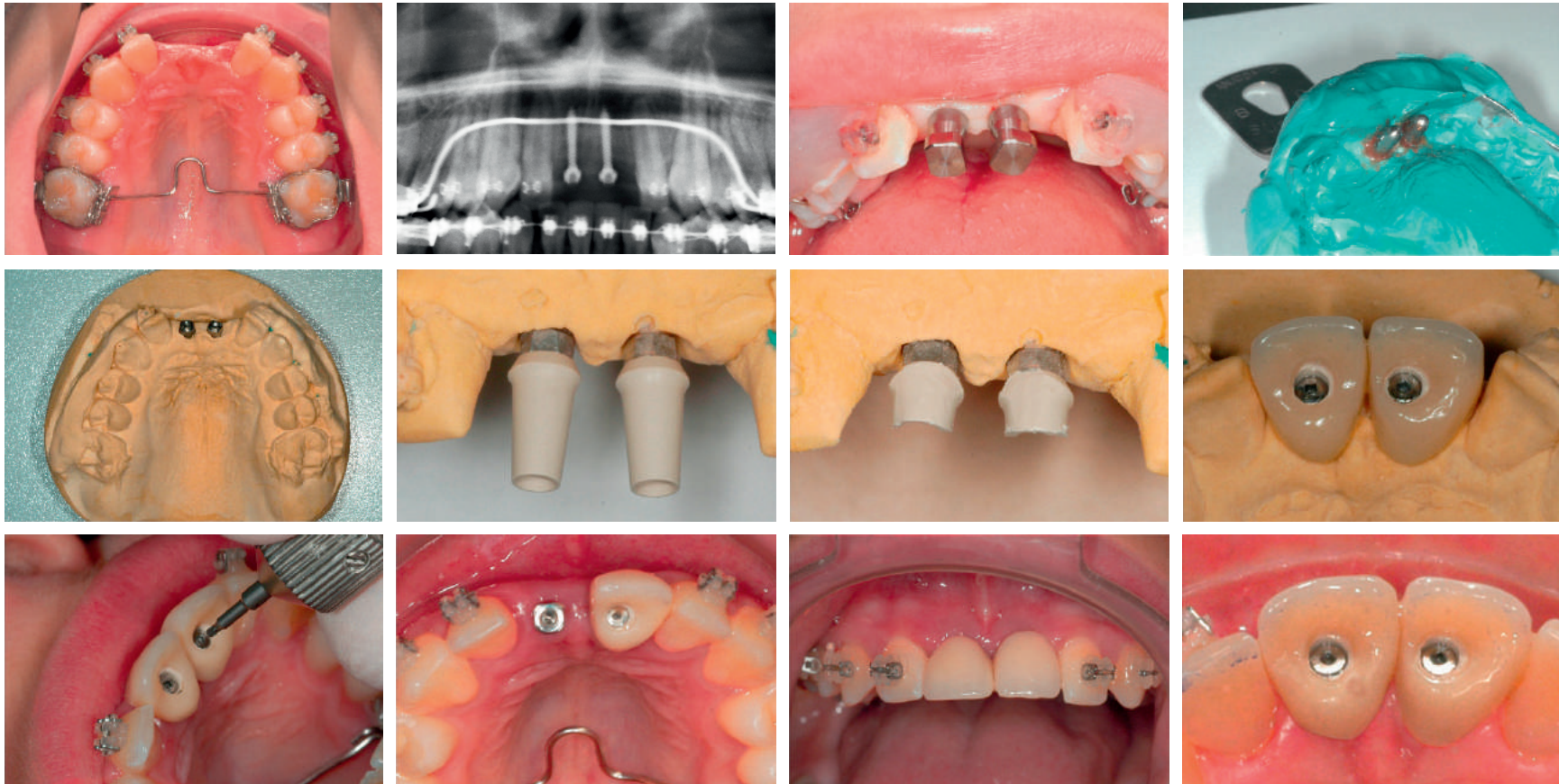
33-54466
Abutment PEEK
PEEK Abutment



33-54469
Abutment PEEK, 15° angled
PEEK Abutment, 15° abgewinkelt



TEMPORARY PONTIC | TEMPORÄRER ZAHNERSATZ

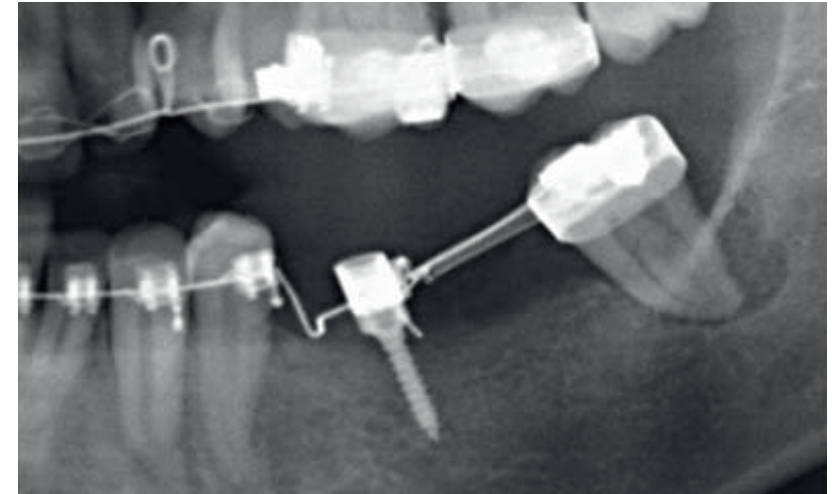
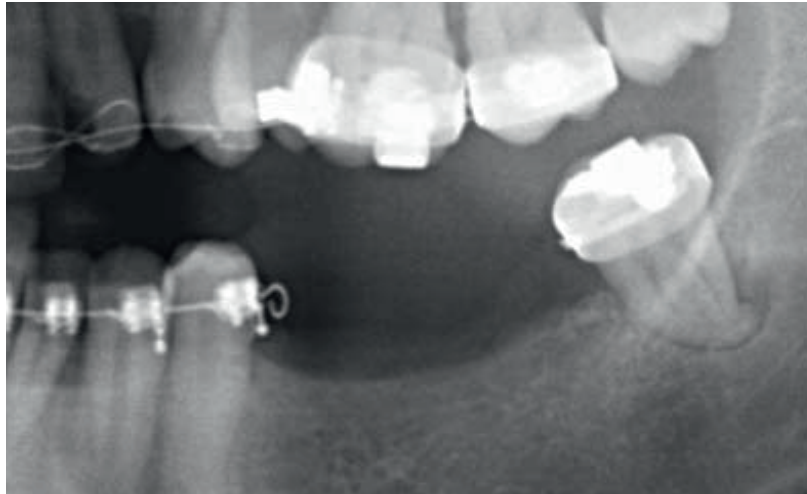


MANAGEMENT OF WIDE SPACES | BEHANDLUNG GROSSER LÜCKEN

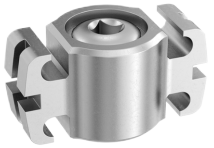
Bridge technique
Brückentechnik



33-54450
BENEFIT® Abutment with
1 bracket
BENEFIT® Abutment mit
1 Bracket



ECTOPIC TEETH | RETINIERTE ZÄHNE



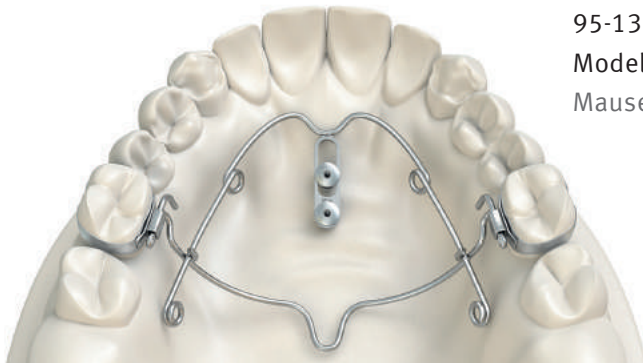
33-54452

Bracket-Abutment with TMA-Wire 16/22"

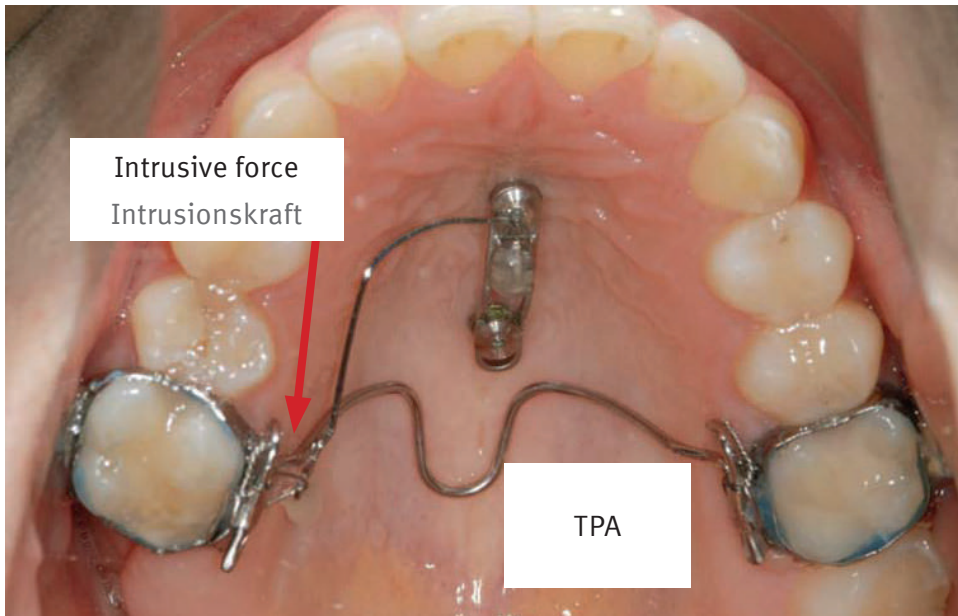
Abutment mit Brackets TMA-Draht 16/22"



MOLAR INTRUSION | MOLAREN INTRUSION



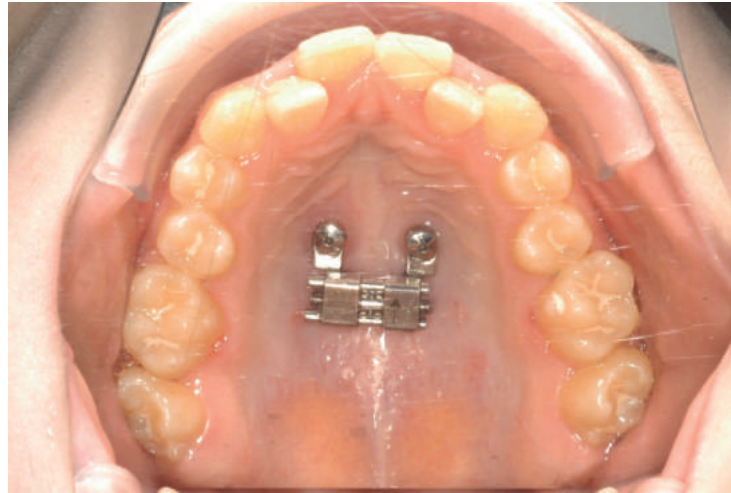
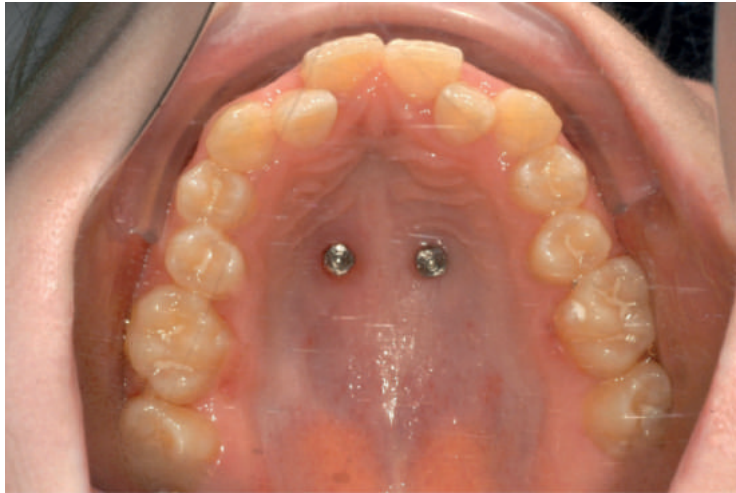
95-13012
Model Mouse Trap
Mausefalle Modell



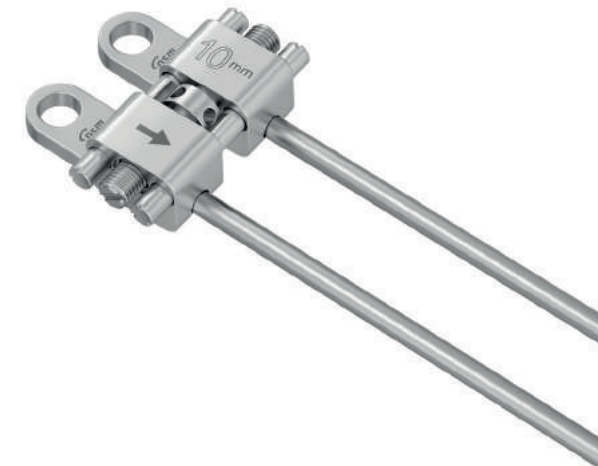
PERIODONTAL DISTRACTION OF ANKYLOSED TEETH | PARODONTALE DISTRAKTION ANKYLOSIERTER ZÄHNE



BENEFIT MAXILLARY EXPANDER | BENEFIT GNE EXPANDER



bmX



33-57506 6mm
33-57508 8mm
33-57510 10mm

bmX, palatal expander

bmX, GNE Expander

HYBRID HYRAX | HYBRID HYRAX



2x

ST-33-54209

BENEFIT® 2.0 Screw, 9 mm

BENEFIT® 2.0 Schraube, 9 mm



2x

33-54463

Hyrax Abutment

Hyrax Abutment

or
oder



2x

33-54462

Hyrax Ring

Hyrax Ring

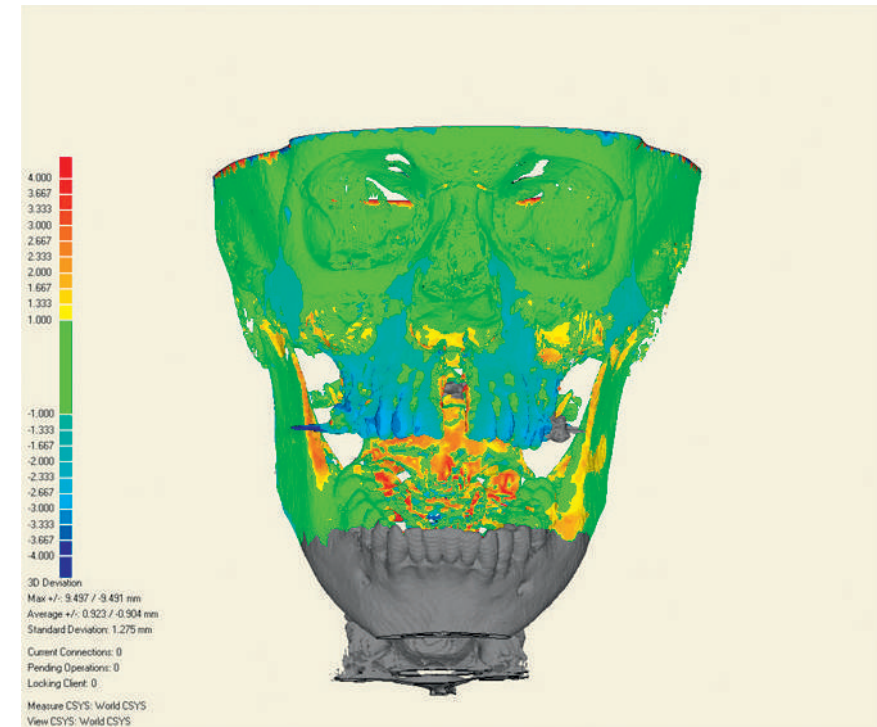
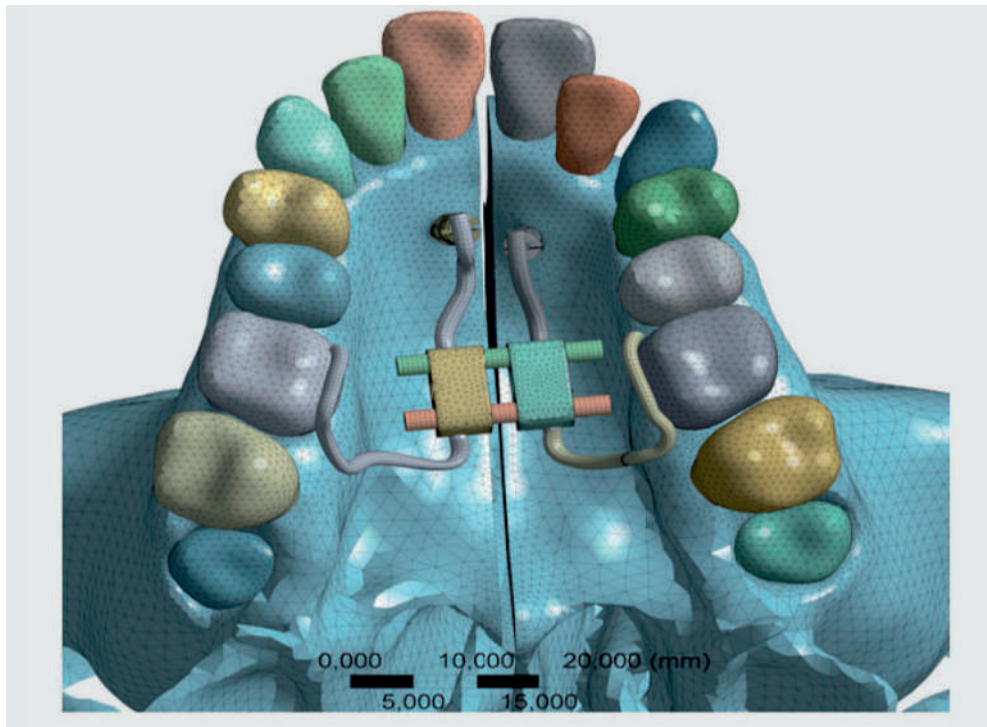
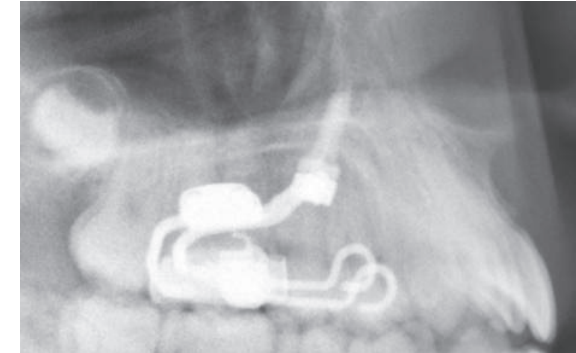
HYBRID HYRAX | HYBRID HYRAX

Goal 1: Less tipping of the teeth

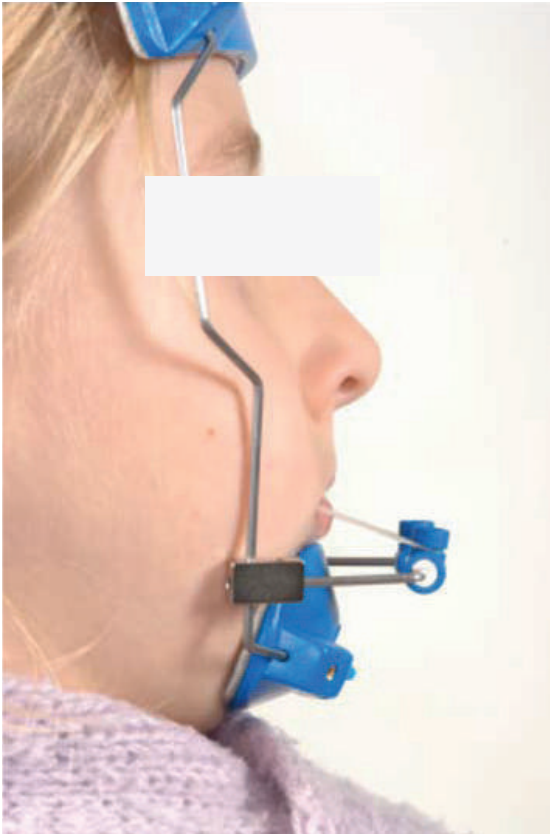
- Cranial force application

Ziel 1: Weniger Kippung der Zähne

- Craniale Kraftapplikation



HYBRID HYRAX | HYBRID HYRAX

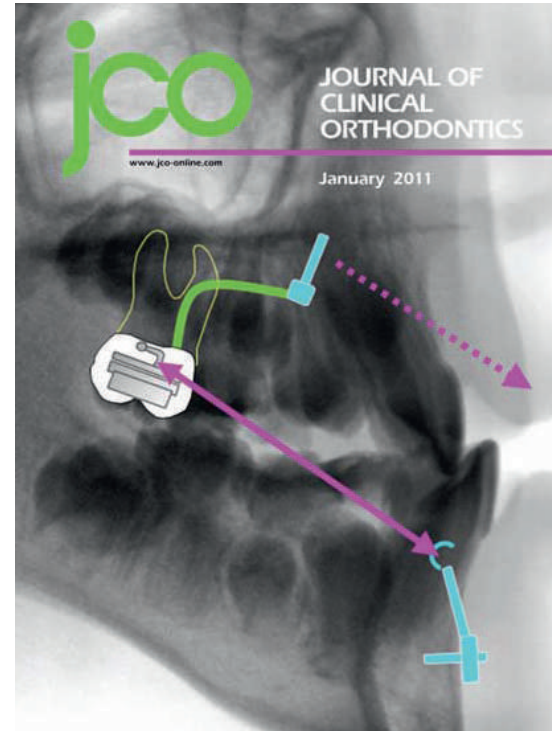


Intraoral
alternative?

Intraorale Alternative?

Goal 2: Avoid mesial migration when using a facemask

Ziel 2: Vermeidung mesialer Zahnaufwanderungen, die durch die Gesichtsmaske verursacht werden können.



LITERATURE – PUBLICATIONS:

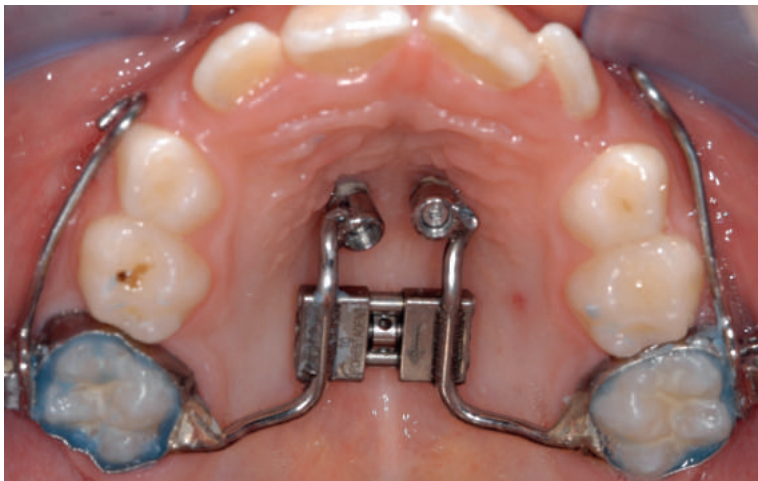
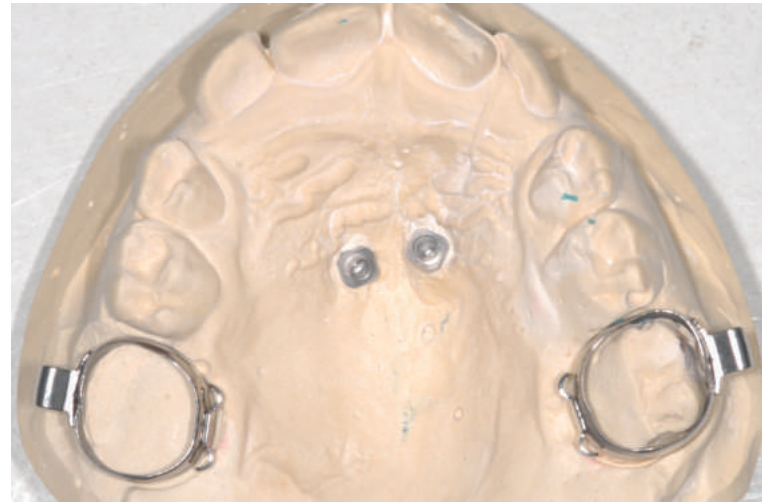
Wilmes B, Kau CH, Ludwig B, Drescher D. Early Class III Treatment with a Hybrid Hyrax-Mentoplate Combination J Clin Orthod, 45:1-7



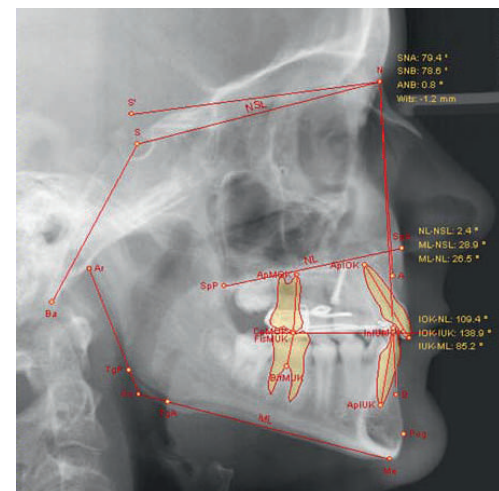
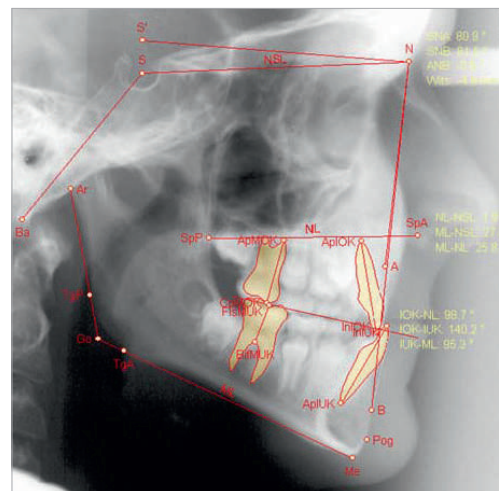
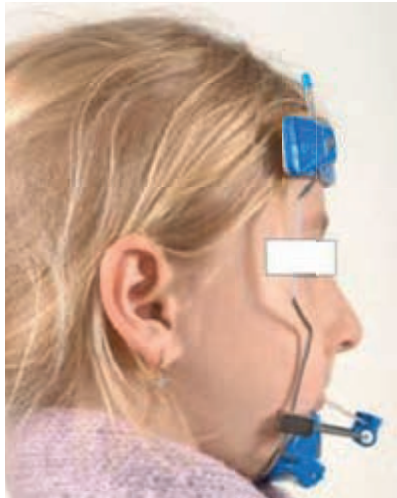
LITERATURE – PUBLICATIONS:

Ludwig B, Glasl B, Bowman J, Drescher D, Wilmes B. Miniscrew supported Class III Treatment with the Hybrid RPE Advancer. J Clin Orthod 2010; 44:533-539
Nienkemper M, Wilmes B, Pauls A, Drescher D. Maxillary protraction using a hybrid hyrax - facemask combination. Prog Orthod 2013;14:57

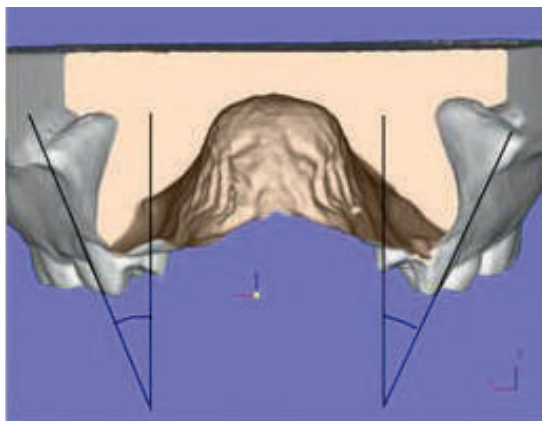
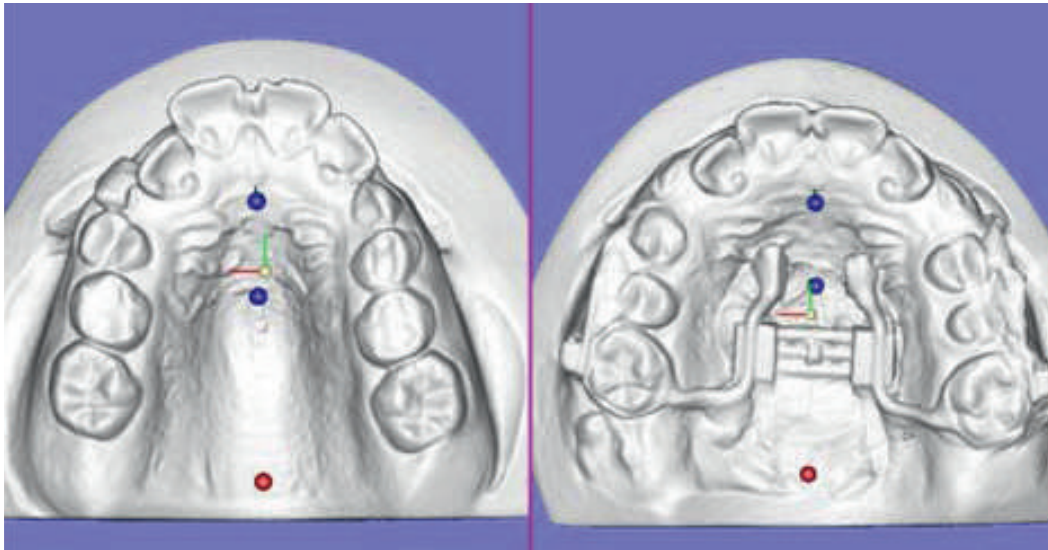
HYBRID HYRAX | HYBRID HYRAX



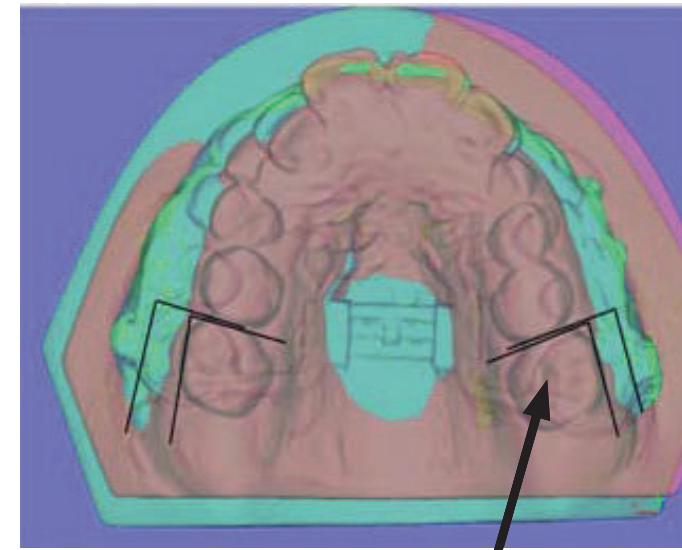
HYBRID HYRAX – FACEMASK | HYBRID HYRAX – GESICHTSMASKE



HYBRID HYRAX – FACEMASK | HYBRID HYRAX – GESICHTSMASKE



Less tipping
Weniger Kippung



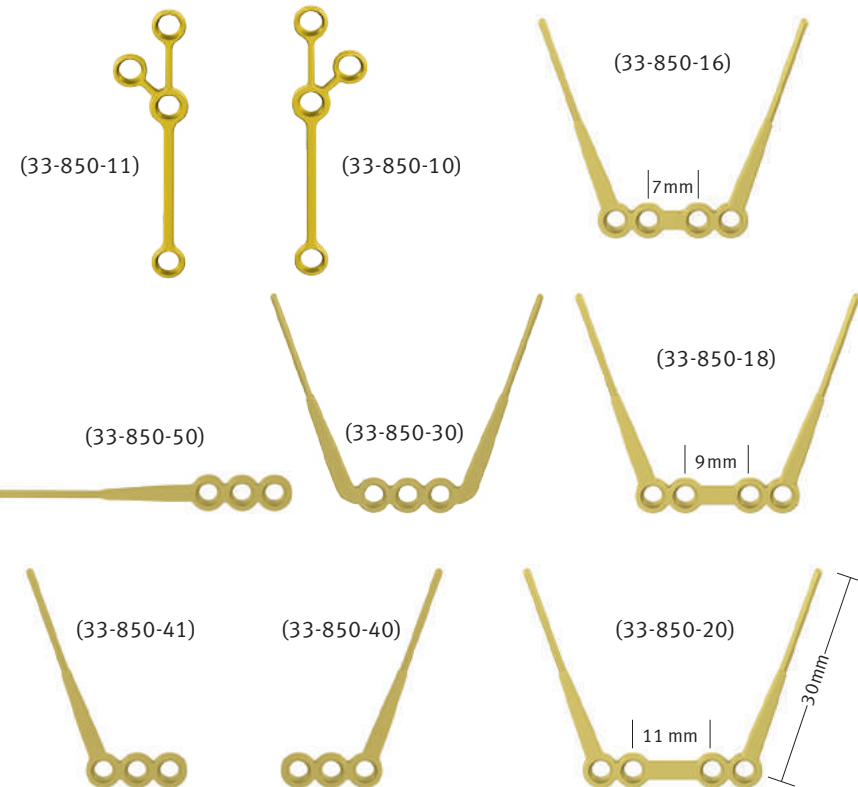
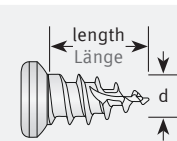
Less mesial migration using a facemask
Keine Molarenaufwanderung bei Verwendung einer Gesichtsmaske

MENTOPLATE | MENTOPLATE

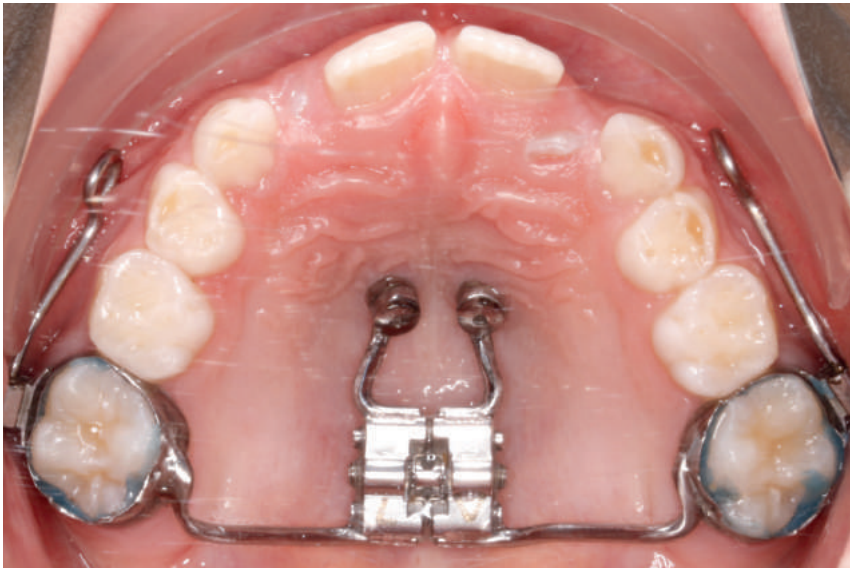


Dimensions (d x length)
Abmessung (d x Länge)

2.0	33-820-04	2,0 x 4 mm
	33-820-05	2,0 x 5 mm
	33-820-07	2,0 x 7 mm
	TX Bone Screw 2.0 mm TX Bone Schraube 2,0 mm	



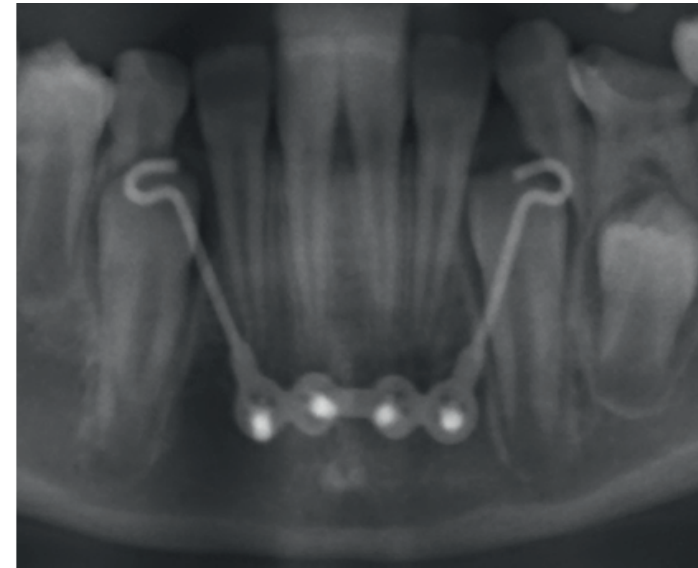
HYBRID HYRAX & MENTOPLATE | HYBRID HYRAX & MENTOPLATE



Facemask no longer necessary

Advantages:

- Because the MentoPlate can be inserted before eruption of the canines. We can start at the age of 8 years
- Loosening of the midface sutures (RPE effect & Alt-RAMEC)
- Low risk of root injury

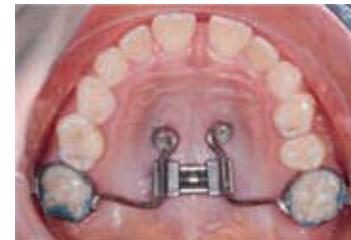


Gesichtsmaske nicht mehr notwendig

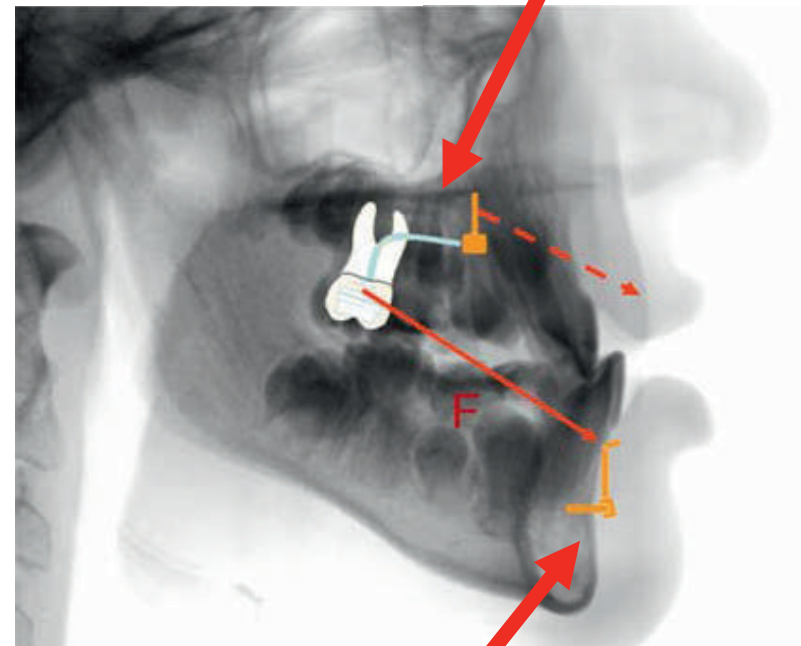
Vorteile:

- die MentoPlate kann bereits vor Durchbruch der Eckzähne ab einem Alter von 8 Jahren eingesetzt werden
- Öffnung der Gaumennaht (RPE Effekt & Alt-RAMEC)
- Geringes Risiko einer Wurzelverletzung

HYBRID HYRAX & MENTOPATE | HYBRID HYRAX & MENTOPATE



Hybrid-Hyrax



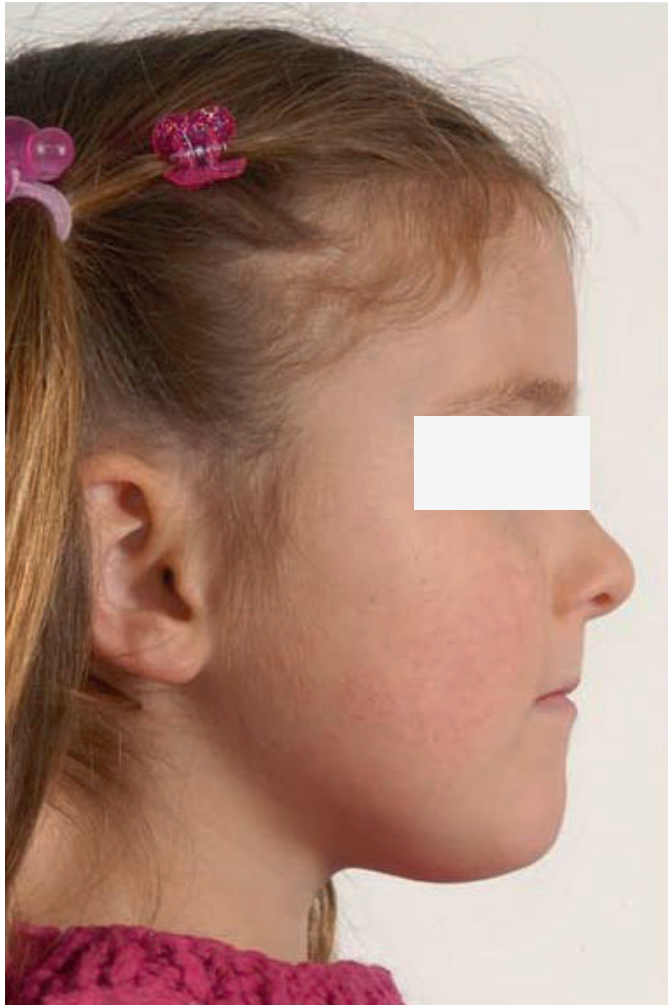
MentoPlate

HYBRID HYRAX & MENTOPLATE | HYBRID HYRAX & MENTOPLATE



5 months later
5 Monate später

HYBRID HYRAX & MENTOPLATE | HYBRID HYRAX & MENTOPLATE



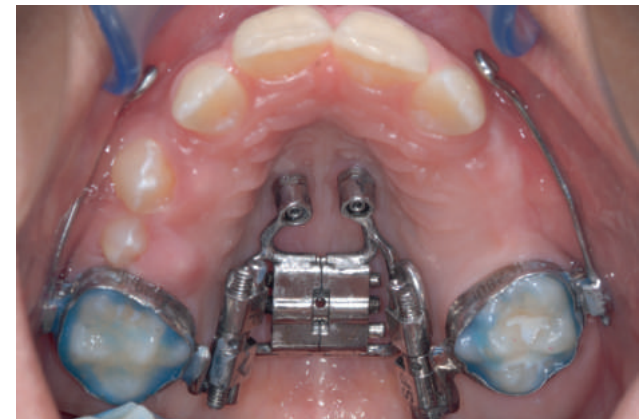
HYBRID HYRAX DISTALIZER | HYBRID HYRAX & DISTALIZER



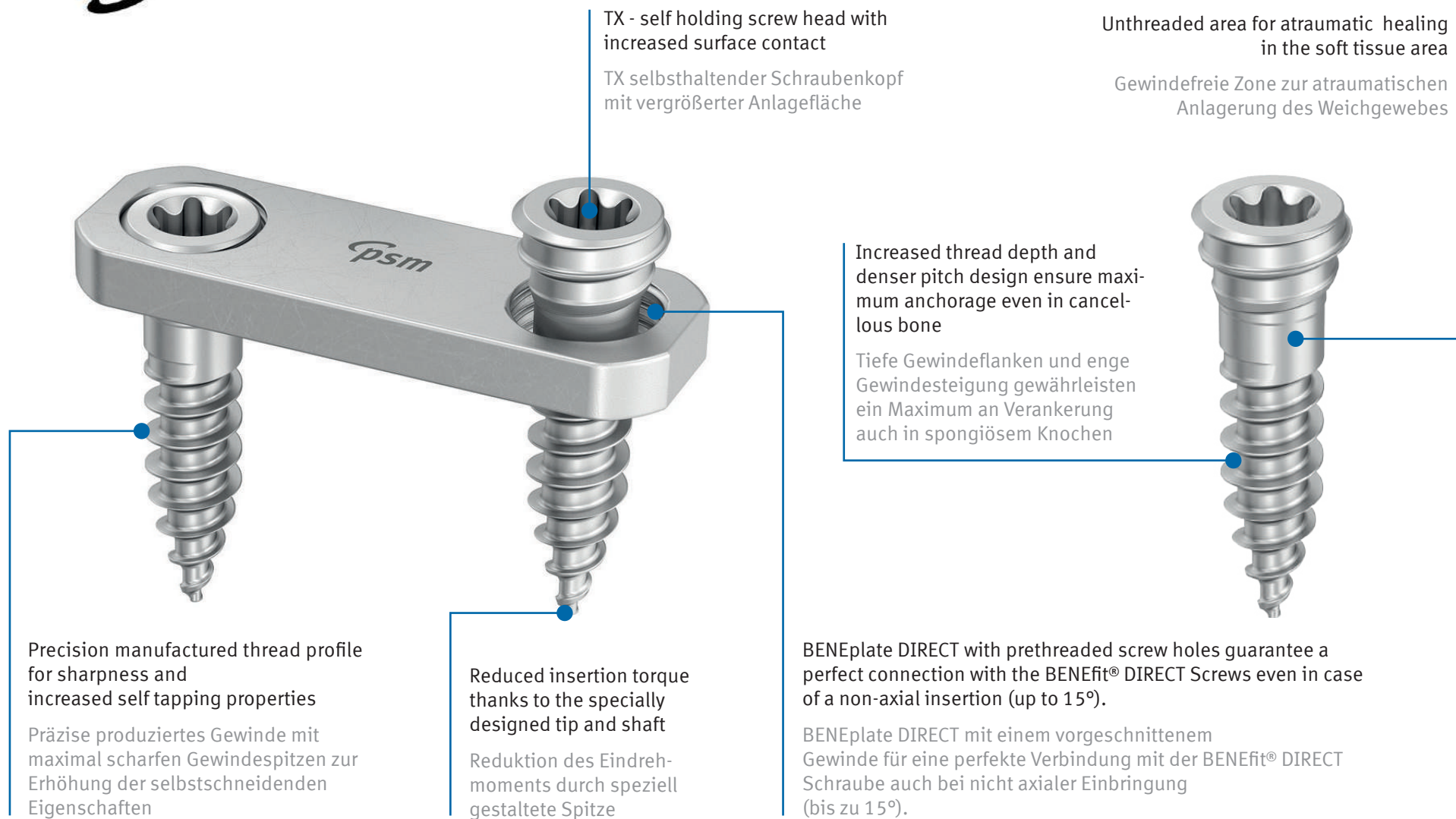
Before | Vorher

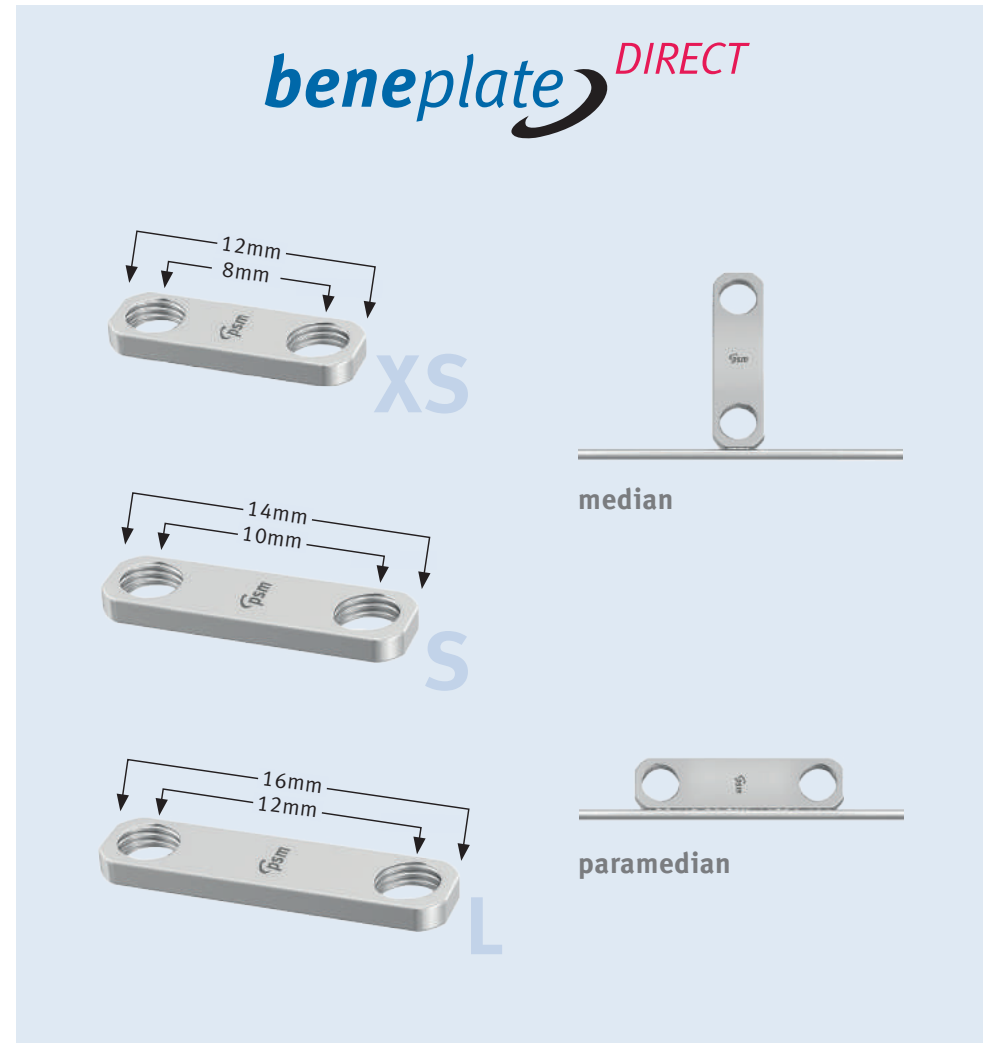


After | Nachher



benefit DIRECT





HYBRID HYRAX DIRECT | HYBRID HYRAX DIRECT



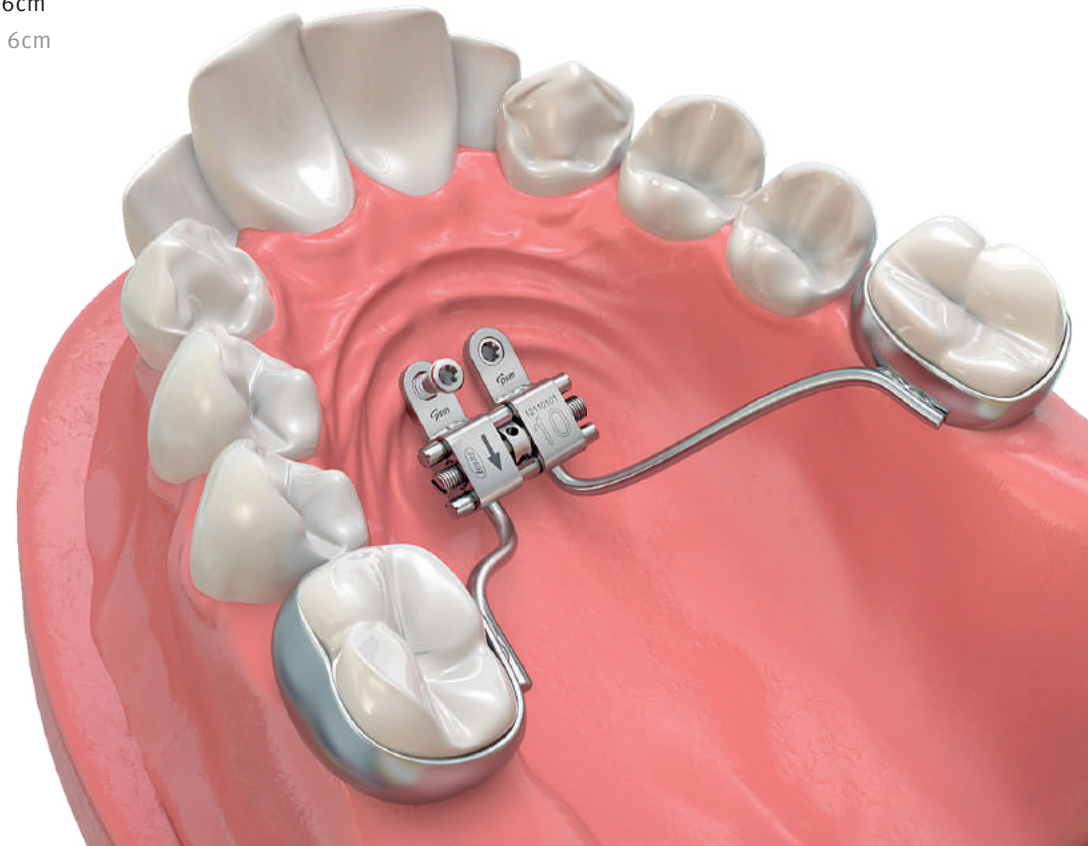
33-64410
Hyrax® Ring DIRECT
Hyrax® Ring DIRECT



33-64414
Hyrax® Ring DIRECT 1-hole with wire 1.1mm, 6cm
Hyrax® Ring DIRECT 1-Loch mit Draht 1,1mm, 6cm



33-64415
Hyrax® Ring DIRECT 1-hole with median wire 1.1mm, 12cm
Hyrax® Ring DIRECT 1-Loch mit med. Draht 1,1mm, 12cm

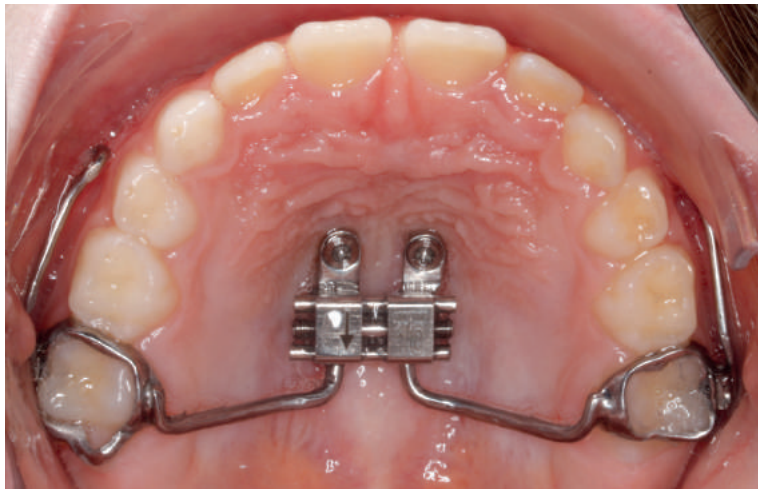




► Video



The Smartlock
BENEFit DIRECT Expander



Before | Vorher



After | Nachher



33-67406 6mm
33-67408 8mm
33-67410 10mm

bmxDIRECT palatal expander 10mm
bmxDIRECT GNE-Apparatur 10mm



33-67426 6mm
33-67428 8mm
33-67430 10mm

bmxDIRECT palatal expander 12mm
bmxDIRECT GNE-Apparatur 12mm

BENEFIT®-System | BENEFIT®-System



BENEFIT® Catalogue
BENEFIT® Prospekt



SMARTLOCK® Catalogue
SMARTLOCK® Prospekt



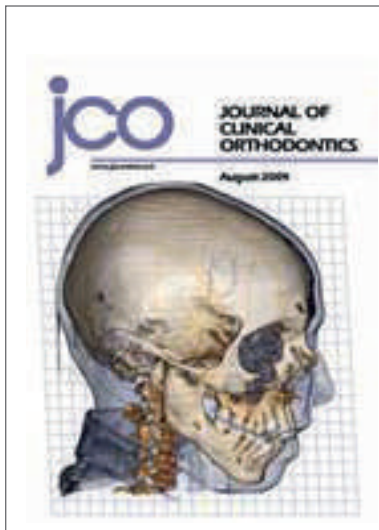
BENEFIT® EASY DRIVER Catalogue
BENEFIT® EASY DRIVER Prospekt

BENEFIT®-System

„A Breakthrough in Miniscrew Stability“

Robert G. Keim, Editor JCO

The Editor's Corner J Clin Orthod 2009.43;485-386



Keim: The Editor's Corner

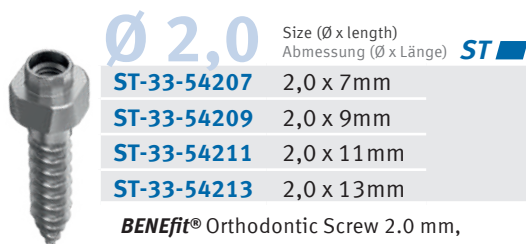
[A Breakthrough in Miniscrew Stability](#)

As with all other practical innovations in orthodontics, temporary anchorage devices (TADs) have involved a significant learning curve. Although Creekmore and Eklund's seminal paper on skeletal anchorage appeared in JCO more than 25 years ago,¹ it remained on the fringes of the profession until around the turn of the century, when the concept took off like a rocket. Since then, paper after paper has illustrated successful treatment of most categories of malocclusion... [\[more\]](#)

Access to the Editor's Corner is free. For more free articles [click here](#)

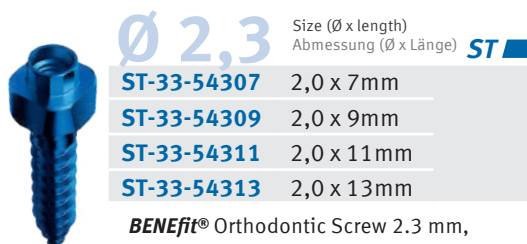
August 2009 corner: This month's cover features a 3D volume rendering of a CT scan using software from Anatomage, Inc, as described in The Cutting Edge.

PRODUCT OVERVIEW | PRODUKTÜBERSICHT



Size (Ø x length) Abmessung (Ø x Länge)	ST
ST-33-54207	2,0 x 7mm
ST-33-54209	2,0 x 9mm
ST-33-54211	2,0 x 11mm
ST-33-54213	2,0 x 13mm

BENEFIT® Orthodontic Screw 2.0 mm,
Material Titanium
BENEFIT® KFO-Schraube 2,0 mm,
Material Titan



Size (Ø x length) Abmessung (Ø x Länge)	ST
ST-33-54307	2,0 x 7mm
ST-33-54309	2,0 x 9mm
ST-33-54311	2,0 x 11mm
ST-33-54313	2,0 x 13mm

BENEFIT® Orthodontic Screw 2.3 mm,
Material Titanium
BENEFIT® KFO-Schraube 2,3 mm,
Material Titan



33-54558
BENEtube extended acc. to Dr. S. Yamaguchi
BENEtube verlängert nach Dr. S. Yamaguchi



33-54536
BENEtube standard
BENEtube standard



33-54549
FlexiTube, long
FlexiTube, lang



33-54550
FlexiTube, short
FlexiTube, kurz



33-54460 1.1 mm stainless steel

Abutment Standard with 1.1 mm wire (12 cm)
Abutment Standard mit 1,1mm Draht (12 cm)



33-54430
BENEFIT® Abutment Standard
BENEFIT® Abutment Standard



33-54524 240gr.
33-54525 500gr.
BENEsliDer NiTi springs
BENEsliDer NiTi Federn



33-54543
Micro Mobilizer for wires from 0.5 to 1.2 mm
Micro Mobilisator für 0,5 – 1,2 mm Draht



33-54445
Abutment with loop acc. to Dr. S. Renger, St. Louis, France
Abutment mit Öse nach Dr. S. Renger, St. Louis, Frankreich



33-54450 Abutment with | mit 1 bracket
33-54452 Abutment with | mit 2 brackets
BENEFIT® Abutment with brackets
BENEFIT® Abutment mit Brackets



33-54540
Micro Mobilizer for wires from 0.5 to 1.2 mm
Micro Mobilisator für 0,5 – 1,2 mm Draht



33-54553
Micro Mobilizer with Hook
Micro Mobilisator mit Haken



33-54544
BENEtube acc. to Dr. Banach, with wire 1.1 mm, 40 mm
BENEtube nach Dr. Banach, mit Draht 1,1 mm, 40 mm



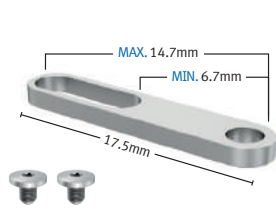
33-54463
BENEFIT® Hyrax® Abutment, 1 ea.
BENEFIT® Hyrax® Abutment, 1 Stk.



33-54410
BENEFIT® impression cap, 1 ea.
BENEFIT® Abdruckkappe, 1 Stk.



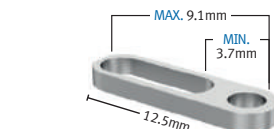
33-54426
BENEFIT® laboratory analog NT, 2 ea.
BENEFIT® Labor-Manipulierimplantat NT, 2 Stk.



L

33-54400 stainless steel

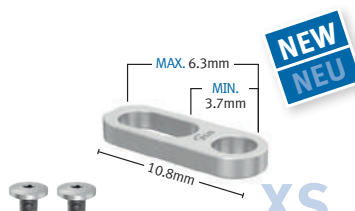
BENEplate, long,
incl. fixation screws
BENEplate, lang,
inkl. Fixierschrauben



S

33-54402 stainless steel

BENEplate, short,
incl. fixation screws
BENEplate, kurz,
inkl. Fixierschrauben



XS

33-54424 stainless steel

BENEplate, XS,
incl. fixation screws
BENEplate, XS,
inkl. Fixierschrauben



L

33-54429

BENEplate, long, with 1.1 mm
wire (12 cm)
BENEplate, lang, mit 1,1 mm
Draht (12 cm)



S

33-54409

BENEplate, short, with 1.1 mm
wire (12 cm)
BENEplate, kurz, mit 1,1 mm
Draht (12 cm)



XS

33-54423

BENEplate, XS, with 1.1 mm
wire (12 cm)
BENEplate, XS, mit 1,1 mm
Draht (12 cm)



L

33-54428

BENEplate, long, with 0.8 mm
wire (12 cm)
BENEplate, lang, mit 0,8 mm
Draht (12 cm)



S

33-54408

BENEplate, short, with 0.8 mm
wire (12 cm)
BENEplate, kurz, mit 0,8 mm
Draht (12 cm)



S

33-54420

BENEplate, short, median,
with 0.8 mm TMA wire (12 cm)
BENEplate, kurz, median,
mit 0,8 mm TMA-Draht (12 cm)



L

33-54472

BENEplate, long, with 1.1 mm
wire (12 cm)
BENEplate, lang, mit 1,1 mm
Draht (12 cm)



S

33-54471

BENEplate, short, with 1.1 mm
wire (12 cm)
BENEplate, kurz, mit 1,1 mm
Draht (12 cm)



XS

33-54422

BENEplate, XS, with 1.1 mm
wire (12 cm)
BENEplate, XS, mit 1,1 mm
Draht (12 cm)

For the complete **BENEFIT®** product range
please consult our **BENEFIT®** product flyer

Das komplette **BENEFIT®**-Sortiment finden
Sie in unserem **BENEFIT®** Produktflyer



Options

BENEslder Set distal/distal	
Instruments	
33-54540 33-54536	BENEplate short with 1.1 mm s/s wire incl. 2 fixation screws Mobilizer for wires from 0.5 – 1.2 mm, 2 ea. BENEslder NiTi Springs, 2 ea. BENEtube long, 2 ea.
	☐ 33-54409 median ☐ 33-54471 paramedian ☐ 33-54524 200g ☐ 33-54524 500g

Optionen

BENEslder Set distal/distal	
Instrumente	
33-54540 33-54536	BENEplate short with 1.1 mm s/s wire incl. 2 fixation screws Mobilizer for wires from 0.5 – 1.2 mm, 2 ea. BENEslder NiTi Springs, 2 ea. BENEtube long, 2 ea.
	☐ 33-54409 median ☐ 33-54471 paramedian ☐ 33-54524 200g ☐ 33-54524 500g

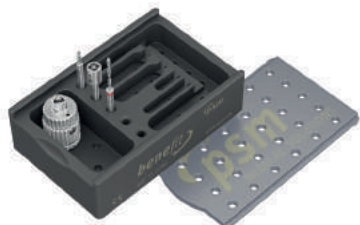


73-31960

QB

quattro® / BENEFIT® large instrument tray, empty
quattro® / BENEFIT® großer Instrumentenbehälter, leer

STARTER KIT – S



33-55000	BENEFIT® Starter Instrument Set <u>without</u> implants consisting of:	S	BENEFIT® Starter Instrumenten Set <u>ohne</u> Implantate bestehend aus:	S
	Storage		Aufbewahrung	
73-31990	BENEFIT® Starter tray, empty		BENEFIT® Starter Behälter, leer	
	Instruments		Instrumente	
33-18236	Thumb screw for Dental mandrel		Handgriff für Klingen mit Dentalansatz	
33-54512	Screwholder for Abutment screw, 20 mm		Eindrehinstr. für Abutment Schraube, 20 mm	
33-18232	Screwholder for implants, 23 mm		Schraubenhalter für Implantate, 23 mm	
10-67513	Drill, 1.4 x 33 mm WL 15 mm, DENTAL, red		Bohrer, 1,4 x 33 mm AT 15 mm, DENTAL, rot	



10-67513 **QB** DENTAL

Drill, 1.4 x 33 mm WL 15 mm, red for 2.0 mm screws
Bohrer, 1,4 x 33 mm AT 15 mm, rot für 2,0 mm Schrauben



10-63025 **QB**

Manually turned unit for contra-angled handpieces
Manueller Drehansatz für Winkelhandstücke



11-18452 **QB** DENTAL

Drill, 1.8 x 33 mm WL 15 mm, grey for 2.3 mm screws
Bohrer, 1,8 x 33 mm AT 15 mm, grau für 2,3 mm Schrauben



33-54704 **QB**

Manually turned unit mod. to Pauls, with adjustable torque from 0 – 40 Ncm
Manueller Drehansatz mod. nach Pauls, mit einstellbarem Drehmoment von 0 – 40 Ncm



with limited torque (10 Ncm)
mit begrenztem Drehmoment (10 Ncm)

33-18266 **QB**

Thumb screw for Dental mandrel
Handgriff für Instrumente mit Dentalansatz



33-54512	20mm	DENTAL
33-54515	30mm	DENTAL
33-54518	50mm	DENTAL

Screwdriver insert e.g. for abutment retaining screws, **BENEplate** fixation screws and Mobilizer activation

Eindrehinstrument z.B. passend zu Abutment Schraube, **BENEplate** Fixierschraube und Mobilisator Schraube



33-54466

BENEFIT® PEEK Abutment, incl. 1 fixation screw
BENEFIT® PEEK Abutment, inkl. 1 Fixationsschraube



33-54462

Hyrax® Ring, incl. 1 fixation screw, 2 ea.
Hyrax® Ring, inkl. 1 Fixationsschraube, 2 Stk.



33-18232	23mm	QB	DENTAL
33-18233	28mm	QB	DENTAL
33-18237	33mm	QB	DENTAL

Screwholder for contra-angled handpiece
Schraubenhalter für Winkelhandstück



33-54469 **NEW NEU**

BENEFIT® PEEK Abutment, 15° angled incl. 1 fixation screw

BENEFIT® PEEK Abutment, 15° abgewinkelt inkl. 1 Fixationsschraube



95-13001

Model **BENEsliider**, mesial, distal
Model **BENEsliider**, mesial, distal



95-13002

Model Anchorage for upper Molars
Modell Molarenverankerung



95-13003

Model Pendulum B
Modell Pendulum B



95-13005

Model Molar uprighting
Modell Molarenaufrichtung



95-13006

Model Hybridhyrax
Modell Hybridhyrax



V-90-994-00

BENEFIT® Model Case for
9 models, empty

BENEFIT® Modellkoffer für
9 Modelle, leer



95-13007

Model Anchorage Anterior Teeth
Modell Frontverankerung



95-13008

Model Tooth extrusion
Modell Zahnretention



95-13009

Model Temporary Implant
Modell Temporäres Implantat



95-13011

Plaster Model with laboratory
implants
Gipsmodell mit Laborimplantaten



95-13012

Model Mouse Trap Intrusion
Modell Mausefalle



95-13013

Model Hybridhyrax Distalizer
Modell Hybridhyrax Distalizer



95-13014

Model T-Mesial/Distalslider
Modell T-Mesial/Distalslider



95-13001-15 naturally/natur

Model **BENEsliider**, mesial, distal median
Model **BENEsliider**, mesial, distal median

V-90-994-02

BENEFIT® Model Case for
18 models, empty

BENEFIT® Modellkoffer für
18 Modelle, leer

95-13017-15 naturally/natur

Model **BENEsliider**, mesial, distal paramedian
Model **BENEsliider**, mesial, distal paramedian

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

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