



passion and precision.





Innovative order platform for patient-specific products and services.

2 splint system:

Innovative splint concept for the best treatment results.

)) Effective | Precise | Aesthetic | Competent





Orthodontic aligner therapy from Dentaurum.

Advantages:

- **))** Digital case planning with OnyxCeph³™.
- **))** Aligner covers part of the gingiva for better transfer of forces.
- Transparent aligner material for almost invisible therapy.
- **))** Personal consultation from an experienced support team.

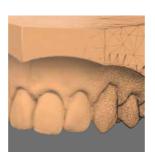


Innovative order platform for patient-specific products and services.



prime4me® model print.

Printed base models and dental arch models for orthodontics are produced with maximum precision, providing an ideal basis for the fabrication of orthodontic appliances. As always, Dentaurum stays true to its own demands on quality: top industry standard for machines and validated processes together with highly qualified personnel.





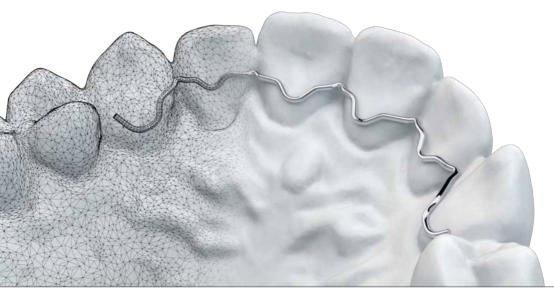




prime4me® RETAIN3R offers numerous benefits.

The retainer is designed according to the customer's wishes using a unique three-dimensional construction design, guaranteeing a perfect fit. The digital design also works for situations where space is limited. The material, titanium grade 5, is biocompatible, making the prime4me® RETAIN3R highly suitable for patients with a nickel allergy.

Once the design has been approved, the retainer is milled one-to-one from a titanium blank. This ensures the patient will find the retainer comfortable to wear as its lingual fit is ideal and the adhesive surfaces are smaller. This, in turn, also helps improve and ease oral hygiene.

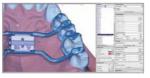






With OnyxCeph^{3TM}, Image Instruments set the benchmark for dental imaging software. The comprehensive solutions for archiving, diagnostics, treatment planning and patient education are used by customers in more than 99 countries around the world – with an impressive list of successes.

Treatment planning and areas of application:



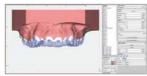
Module Ortho Apps 3D



Module FA_Bonding 3D



Module Kylix 3D



Module Bonding Trays 3D



Module Retainer 3D



Module Aligner 3D

OnyxCeph^{3™} – Program versions and optional modules for the ideal combination with laboratory scanners or TRIOS.

	Program version*		
	3D PRO REF 410-004-00	3D LAB REF 410-005-00	
SQL database			
Network licence (concurrent clients server)	5 1	20 1	
Stand-alone licence (client server)	1 1	1 1	
Imaging Module 2D			
Add image (incl. interfaces to digital X-ray)	•	•	
Adjust image (classify and align image)	•	•	
Clone finding	•	•	
Edit	•	•	
Digitize (cephalometric tracing)	•	•	
Combine		•	
Mirror		•	
CO CR Correction		•	
Treatment Simulation (orthodontics, maxillofacial surgery)	•	•	
Ricketts V.T.O.		•	
Image Comparison	•	•	
Copy Save Send Show Print	•	•	
Imaging Module 3D			
Add image (incl. DICOM extraction)	•	•	
Adjust image (classify and align image)		•	
Clone finding		•	
Digitize (cephalometric tracing)	•	•	
Combine	•	•	
Mirror	•	•	
Treatment Simulation			
Cast Adjust		•	
Segmentation	•	•	
FA_Bonding		•	
V.T.O. 3D (virtual set-up)		•	
Wire_Bonding 3D			
Kylix 3D (indirect transfer)	•	•	
Bonding Trays 3D (indirect transfer)			
Bonding Jigs 3D (indirect transfer)	•	•	
Bracket Erase 3D			
Aligner 3D			
Retainer 3D			
Bite Splint 3D			
Ortho Apps 3D			
Waefer Creation 3D			
TADmatch™			
3D Export (STL,OBJ, ZPR, inter alia)		•	
Presentation (Slide Show, Media)		•	
Letter Writing	•		
Online forms (DHTML)			
Internet browser			
Recycling Bin (Lost & Found)	•		
Web Reports	•		
Container Exchange	•	-	
Image and Result Export	•		
Findings-Lexicon			

* plus annual support fees

☐ optional components against extra charge

Dentaurum Digital



prime4me® Aligner

After checking your data, our team will suggest a suitable aligner package for you.

Designation	REF	Quantity
prime4me® Aligner smart		1 case
prime4me® Aligner advanced	430-141-21	1 case
prime4me® Aligner performance	430-142-21	1 case





prime4me® base model

Printed base models for orthodontics.

REF 430-110-10	1 piece
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prime4me® dental arch model

Printed dental arch models for orthodontics.

REF 430-110-30	1 piece
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Order now: digital.dentaurum.de

Dentaurum Digital

3D separating medium

Forms a separating layer between the acrylic models and Orthocryl® / Orthocryl® LC.
Color: green



prime4me® RETAIN3R maxilla

Unique fit using a three-dimensional construction design and highest biocompatibility: milled retainer in grade 5 titanium. Can be ordered together with prime4me® RETAIN3R optionally: Transfer tray for prime4me® RETAIN3R for placement in the mouth.

REF 430-120-30 1 piece	REF 430-120-30	1 piece
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prime4me® RETAIN3R mandible

Unique fit using a three-dimensional construction design and highest biocompatibility: milled retainer in grade 5 titanium. Can be ordered together with prime4me® RETAIN3R optionally: Transfer tray for prime4me® RETAIN3R for placement in the mouth.





Transfer tray

Transfer tray for prime4me® RETAIN3R for placement in the mouth.

Can only be ordered together with prime4me® RETAIN3R.







Orthodontic demonstration model prime4me® RETAIN3R

For patient demonstration.

Fitted with:

- prime4me® base model
- prime4me® RETAIN3R upper jaw
- transfer tray for prime4me® RETAIN3R

REF 892-000-29	1 piece
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Download data sets for digital orthodontics:



Expansion screws without retention legs, for digital workflow



hvrax® click Mini - 7

RPE screw with click feature to prevent unwanted reversing

For effective and reliable rapid palatal expansion by means of fixed appliances.

- · optimal screw locking during the active treatment phase
- reliable activation / deactivation of the screw with clearly perceptible click after a 1/4 turn
- no accidental reversing when pulling out safety key during activation
- built-in stops prevent the screws from coming apart once maximum expansion has been obtained
- small dimensions with maximum expansion
- · offset body for earliest possible angling of the retention legs
- permanently laser marked arrow on the body of the screw indicates the opening direction and max. expansion Pack (1 piece) with 1 safety key, pack (10 pieces) with 10 safety keys.

Screw body: 9.8 mm

Maximum expansion: 7.0 mm

 $4 \times \frac{1}{4} turn = 0.8 mm$

Material: stainless steel

Retention legs	REF	Quantity	REF	Quantity
without	602-830-12	1 piece	602-830-32	10 pieces









hyrax® click Medium - 10

RPE screw with click feature to prevent unwanted reversing

For effective and reliable rapid palatal expansion by means of fixed appliances.

- optimal screw locking during the active treatment phase
- reliable activation / deactivation of the screw with clearly perceptible click after a 1/4 turn
- no accidental reversing when pulling out safety key during activation
- \bullet built-in stops prevent the screws from coming apart once maximum expansion has been obtained
- small dimensions with maximum expansion
- offset body for earliest possible angling of the retention legs
- permanently laser marked arrow on the body of the screw indicates the opening direction and max. expansion Pack (1 piece) with 1 safety key, pack (10 pieces) with 10 safety keys.

Screw body: 12.8 mm

Maximum expansion: 10.0 mm

4 x ¹/₄ turn = 0.8 mm

Material: stainless steel

Retention legs	REF	Quantity	REF	Quantity
without	602-832-12	1 piece	602-832-32	10 pieces





Expansion screws without retention legs, for digital workflow

hyrax® click Maxi - 12

RPE screw with click feature to prevent unwanted reversing

For effective and reliable rapid palatal expansion by means of fixed appliances.

- · optimal screw locking during the active treatment phase
- reliable activation / deactivation of the screw with clearly perceptible click after a 1/4 turn
- no accidental reversing when pulling out safety key during activation
- built-in stops prevent the screws from coming apart once maximum expansion has been obtained
- small dimensions with maximum expansion
- offset body for earliest possible angling of the retention legs
- permanently laser marked arrow on the body of the screw indicates the opening direction and max. expansion Pack (1 piece) with 1 safety key, pack (10 pieces) with 10 safety keys.

Screw body: 14.8 mm

Maximum expansion: 12.0 mm

 $4 \times \frac{1}{4} turn = 0.8 mm$

Material: stainless steel

Retention legs	REF	Quantity	REF	Quantity
without	602-834-12	1 piece	602-834-32	10 pieces









Expansion screws without retention legs, for digital workflow



hyrax® Mini - 7

RPE screw

For rapid palatal expansion by means of fixed appliances.

- built-in stops prevent the screws from coming apart once maximum expansion has been obtained
- small dimensions with maximum expansion
- offset body for earliest possible angling of the retention legs
- the integrated spindle friction prevents unwanted reversing
- permanently laser marked arrow on the body of the screw indicates the opening direction and max. expansion
- screw can be tied down once desired expansion has been reached

Pack (1 piece) with 1 safety key, pack (10 pieces) with 10 safety keys.

Screw body: 9.4 mm

Maximum expansion: 7.0 mm $4 \times \frac{1}{4} \text{ turn} = 0.8 \text{ mm}$ Material: stainless steel

Retention legs	REF	Quantity	REF	Quantity
without	602-800-12	1 piece	602-800-32	10 pieces









hyrax® Medium - 10

RPE screw

For rapid palatal expansion by means of fixed appliances.

- built-in stops prevent the screws from coming apart once maximum expansion has been obtained
- small dimensions with maximum expansion
- offset body for earliest possible angling of the retention legs
- the integrated spindle friction prevents unwanted reversing
- $\bullet \ permanently \ laser \ marked \ arrow \ on \ the \ body \ of \ the \ screw \ indicates \ the \ opening \ direction \ and \ max. \ expansion$
- \bullet screw can be tied down once desired expansion has been reached

Pack (1 piece) with 1 safety key, pack (10 pieces) with 10 safety keys.

Screw body: 12.4 mm

Maximum expansion: 10.0 mm $4 \times \frac{1}{4}$ turn = 0.8 mm Material: stainless steel

Retention legs	REF	Quantity	REF	Quantity
without	602-808-12	1 piece	602-808-32	10 pieces





Expansion screws without retention legs, for digital workflow

hyrax® Maxi - 12

RPE screw

For rapid palatal expansion by means of fixed appliances.

- built-in stops prevent the screws from coming apart once maximum expansion has been obtained
- small dimensions with maximum expansion
- offset body for earliest possible angling of the retention legs
- the integrated spindle friction prevents unwanted reversing
- permanently laser marked arrow on the body of the screw indicates the opening direction and max. expansion
- screw can be tied down once desired expansion has been reached

Pack (1 piece) with 1 safety key, pack (10 pieces) with 10 safety keys.

Screw body: 14.4 mm

Maximum expansion: 12.0 mm

4 x ¹/₄ turn = 0.8 mm

Material: stainless steel

Retention legs	REF	Quantity	REF	Quantity
without	602-811-12	1 piece	602-811-32	10 pieces





hyrax® neo Mini - 7

RPE screw

For rapid palatal expansion by means of a fixed appliance.

- (no active) expansion stop
- small dimensions with maximum expansion
- TAD-optimized design
- the integrated spindle friction prevents unwanted reversing
- $\bullet \ permanently \ laser \ marked \ arrow \ on \ the \ body \ of \ the \ screw \ indicates \ the \ opening \ direction \ and \ maximum \ expansion$
- screw can be tied down once desired expansion has been reached

Pack (1 piece) with 1 safety key, pack (10 pieces) with 10 safety keys.

Screw body: 11.2 mm

Maximum expansion: 7.0 mm

 $4 \times \frac{1}{4} turn = 0.8 mm$

Material: stainless steel

Retention legs	REF	Quantity	REF	Quantity
without	602-845-12	1 piece	602-845-32	10 pieces











Expansion screws without retention legs, for digital workflow



hyrax® neo Medium - 10

RPE screw

For rapid palatal expansion by means of a fixed appliance.

- (no active) expansion stop
- small dimensions with maximum expansion
- TAD-optimized design
- the integrated spindle friction prevents unwanted reversing
- permanently laser marked arrow on the body of the screw indicates the opening direction and maximum expansion
- screw can be tied down once desired expansion has been reached

Pack (1 piece) with 1 safety key, pack (10 pieces) with 10 safety keys.

Screw body: 12.4 mm

Maximum expansion: 10.0 mm 4 x ${}^{1}V_{4}$ turn = 0.8 mm Material: stainless steel

Retention legs	REF	Quantity	REF	Quantity
without	602-846-12	1 piece	602-846-32	10 pieces







hyrax® neo Maxi - 12

RPE screw

For rapid palatal expansion by means of a fixed appliance.

- (no active) expansion stop
- small dimensions with maximum expansion
- · TAD-optimized design
- the integrated spindle friction prevents unwanted reversing
- $\bullet \ permanently \ laser \ marked \ arrow \ on \ the \ body \ of \ the \ screw \ indicates \ the \ opening \ direction \ and \ maximum \ expansion$
- \bullet screw can be tied down once desired expansion has been reached

Pack (1 piece) with 1 safety key, pack (10 pieces) with 10 safety keys.

Screw body: 14.4 mm

Maximum expansion: 12.0 mm $4 \times \frac{1}{4}$ turn = 0.8 mm

Material: stainless steel

Retention legs	REF	Quantity	REF	Quantity
without	602-847-12	1 piece	602-847-32	10 pieces





Expansion screws without retention legs, for digital workflow

Titan hyrax® Maxi – 12

RPE screw of titanium

For rapid palatal expansion by means of fixed appliances.

The screw is anchored to the teeth using cast titanium and laser-welded cap splints or alternatively using acrylic cap splints fabricated from Orthocryl® acrylic.

Pack (1 piece) with 1 safety key, pack (10 pieces) with 10 safety keys.

Screw body: 14.4 mm

Maximum expansion: 12.0 mm

 $4 \times \frac{1}{4} turn = 0.8 mm$

Material: titanium

Retention legs	REF	Quantity	REF	Quantity
without	602-810-12	1 piece	602-810-32	10 pieces











Expansion screws without retention legs, for digital workflow



Variety click Mini - 8

Monoguided special expansion screw with click feature to prevent unwanted reversing. Primarily for treatment of malocclusions in the mandible using fixed appliances, e.g. for distalization, mesialization or for space closure by moving individual teeth. Also for early palatal expansion.

- optimal screw locking during the active treatment phase
- small dimensions with maximum expansion
- reliable activation / deactivation of the screw with clearly perceptible click after a 1/4 turn
- permanently laser marked arrow on the body of the screw indicates the opening direction and max. expansion Pack (1 piece) with 1 safety key, pack (10 pieces) with 10 safety keys.

Assembly dimension: 12.9 mm

Screw body: 9.6 mm

Maximum expansion: 8.0 mm 4 x ¹/₄ turn = 0.8 mm

materiali stamies steel						
	Retention legs	REF	Quantity	REF	Quantity	
	without	602-836-12	1 piece	602-836-32	10 pieces	



Variety click SP (small palate) Mini - 8

Monoguided special expansion screw with click feature to prevent unwanted reversing. For the fixed appliance technique. Can be widely used in the upper and lower jaw, for distalization, mesialization of posterior teeth, or for space closure by moving individual teeth. Also for early palatal expansion.

- optimal screw locking during the active treatment phase
- especially suitable for very narrow jaws
- retention legs can be bent very close to the screw body
- small dimensions with maximum expansion
- reliable activation / deactivation of the screw with clearly perceptible click after a 1/4 turn
- permanently laser marked arrow on the body of the screw indicates the opening direction and max. expansion Pack (1 piece) with 1 safety key, pack (10 pieces) with 10 safety keys.

Assembly dimension: 12.9 mm

Screw body: 9.6 mm

Maximum expansion: 8.0 mm $4 \times \frac{1}{4} \text{ turn} = 0.8 \text{ mm}$ Material: stainless steel

Retention legs	REF	Quantity	REF	Quantity
without	602-838-12	1 piece	602-838-32	10 pieces

Dimensions Variety click / Variety click SP Mini – 8



Expansion screws without retention legs, for digital workflow

Variety click Maxi - 12

Monoguided special expansion screw with click feature to prevent unwanted reversing. Primarily for treatment of malocclusions in the mandible using fixed appliances, e.g. for distalization, mesialization or for space closure by moving individual teeth. Also for early palatal expansion.

- · optimal screw locking during the active treatment phase
- small dimensions with maximum expansion
- reliable activation / deactivation of the screw with clearly perceptible click after a 1/4 turn
- permanently laser marked arrow on the body of the screw indicates the opening direction and max. expansion Pack (1 piece) with 1 safety key, pack (10 pieces) with 10 safety keys.

Assembly dimension: 17.2 mm

Screw body: 9.6 mm

Maximum expansion: 12.0 mm

 $4 \times \frac{1}{4} turn = 0.8 mm$

Material: stainless steel

Retention legs	REF	Quantity	REF	Quantity
without	602-837-12	1 piece	602-837-32	10 pieces





Variety click SP (small palate) Maxi - 12

Monoguided special expansion screw with click feature to prevent unwanted reversing. Primarily for treatment of malocclusions in the mandible using fixed appliances, e.g. for distalization, mesialization or for space closure by moving individual teeth. Also for early palatal expansion.

- optimal screw locking during the active treatment phase
- · especially suitable for very narrow jaws
- retention legs can be bent very close to the screw body
- small dimensions with maximum expansion
- reliable activation / deactivation of the screw with clearly perceptible click after a 1/4 turn
- permanently laser marked arrow on the body of the screw indicates the opening direction and max. expansion Pack (1 piece) with 1 safety key, pack (10 pieces) with 10 safety keys.

Assembly dimension: 17.2 mm

Screw body: 9.6 mm

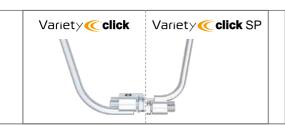
Maximum expansion: 12.0 mm

 $4 \times \frac{1}{4} turn = 0.8 mm$

Material: stainless steel

Retention legs	REF	Quantity	REF	Quantity
without	602-839-12	1 piece	602-839-32	10 pieces





Dimensions Variety click/Variety click SP Maxi - 12





Expansion screws without retention legs, for digital workflow



Variety Mini - 8

Monoguided special expansion screw. Primarily for treatment of malocclusions in the mandible using fixed appliances, e.g. for distalization, mesialization or for space closure by moving individual teeth. Also for early palatal expansion.

- small dimensions with maximum expansion
- the integrated spindle friction prevents unwanted reversing
- permanently laser marked arrow on the body of the screw indicates the opening direction and max. expansion
- screw can be tied down once desired expansion has been reached

Pack (1 piece) with 1 safety key, pack (10 pieces) with 10 safety keys.

Assembly dimension: 12.9 mm Screw body: 9.6 mm

Maximum expansion: 8.0 mm $4 \times {}^{1}V_{4}$ turn = 0.8 mm Material: stainless steel

Retention legs	REF	Quantity	REF	Quantity
without	602-815-12	1 piece	602-815-32	10 pieces



Variety SP (small palate) Mini - 8

Monoguided special expansion screw. Primarily for treatment of malocclusions in the mandible using fixed appliances, e.g. for distalization, mesialization or for space closure by moving individual teeth. Also for early palatal expansion.

- · especially suitable for very narrow jaws
- retention legs can be bent very close to the screw body
- small dimensions with maximum expansion
- the integrated spindle friction prevents unwanted reversing
- permanently laser marked arrow on the body of the screw indicates the opening direction and max. expansion
- screw can be tied down once desired expansion has been reached

Pack (1 piece) with 1 safety key, pack (10 pieces) with 10 safety keys.

Assembly dimension: 12.9 mm

Screw body: 9.6 mm

Maximum expansion: 8.0 mm $4 \times \frac{1}{4} \text{ turn} = 0.8 \text{ mm}$ Material: stainless steel

Retention legs	REF	Quantity	REF	Quantity
without	602-819-12	1 piece	602-819-32	10 pieces

Dimensions Variety / Variety SP Mini – 8



Expansion screws without retention legs, for digital workflow

Variety Maxi - 12

Monoguided special expansion screw. Primarily for treatment of malocclusions in the mandible using fixed appliances, e.g. for distalization, mesialization or for space closure by moving individual teeth. Also for early palatal expansion.

- small dimensions with maximum expansion
- the integrated spindle friction prevents unwanted reversing
- permanently laser marked arrow on the body of the screw indicates the opening direction and max. expansion
- screw can be tied down once desired expansion has been reached

Pack (1 piece) with 1 safety key, pack (10 pieces) with 10 safety keys.

Assembly dimension: 14.9 mm

Screw body: 9.6 mm

Maximum expansion: 12.0 mm 4 x ¹/₄ turn = 0.8 mm Material: stainless steel

Material. Stairness Steel							
	Retention legs	REF	Quantity	REF	Quantity		
	without	602-806-12	1 niece	602-806-32	10 nieces		





Variety SP (small palate) Maxi - 12

Monoguided special expansion screw. Primarily for treatment of malocclusions in the mandible using fixed appliances, e.g. for distalization, mesialization or for space closure by moving individual teeth. Also for early palatal expansion.

- · especially suitable for very narrow jaws
- retention legs can be bent very close to the screw body
- small dimensions with maximum expansion
- the integrated spindle friction prevents unwanted reversing
- $\bullet \ \text{permanently laser marked arrow on the body of the screw indicates the opening direction and max. expansion } \\$
- \bullet screw can be tied down once desired expansion has been reached

Pack (1 piece) with 1 safety key, pack (10 pieces) with 10 safety keys.

Assembly dimension: 14.9 mm

Screw body: 9.6 mm

Maximum expansion: 12.0 mm

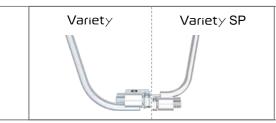
 $4 \times \frac{1}{4} turn = 0.8 mm$

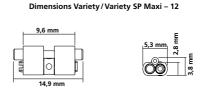
Material: stainless steel

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Retention legs	REF	Quantity	REF	Quantity
without	602-809-12	1 piece	602-809-32	10 pieces







$OnyxCeph^{{\tt 3TM}}$

⊠ OnyxCeph³™	OnyxCeph ^{3TM} Basic (purchase license) Software for archiving and patient consultation incl. 5 network working stations for simultaneous operation.	REF 410-001-00 1 piece
⊘ OnyxCeph ^{3™}	OnyxCeph ³ TM 2D Pro (purchase license) Software for archiving, diagnosis, treatment planning and patient consultation in 2D incl. 5 network working stations for simultaneous operation.	REF 410-002-00 1 piece
⊠ OnyxCeph ^{3™}	OnyxCeph ^{3TM} 3D Pro (purchase license) Software for archiving, diagnosis, treatment planning and patient consultation in 3D incl. 5 network working stations for simultaneous operation.	REF 410-004-00 1 piece
⊘ OnyxCeph ^{3™}	OnyxCeph ^{3TM} 3D Lab (purchase license) Software for archiving, diagnosis, treatment planning and patient consultation in 3D incl. Option Virtual Set-up (V.T.O.3D) and a total of 20 network working places for simultaneous operation.	REF 410-005-00 1 piece
⊘ OnyxCeph³™	Additional server license Second network license (LAN 5/1) / same practice name.	REF 410-000-01 1 piece
⊠ OnyxCeph³™	Additional standalone license Notebook license (1/1) for same practice name.	REF 410-000-02 1 piece
⊠ OnyxCeph³™	Additional site license Additional site license in network.	REF 410-000-03 1 piece
⊠ OnyxCeph³™	User administration program Permission settings depending on user login.	REF 410-000-04 1 piece
⊠ OnyxCeph³™	Statistics program	REF 410-000-05 1 piece

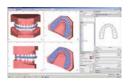
Statistical evaluation of findings.

OnyxCeph^{3TM}

Module Waefer Creation

Creation of surgical splints.

REF 410-000-06	1 piece
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Module V.T.O.3D (Virtual Treatment Objective)

Creation of virtual set ups.



Module Bonding Trays 3D

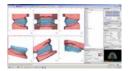
Construction of bracket transfer trays.

REF 410-000-11	1 piece	TE S

OnyxCeph³™ module Bite Splint 3D

Construction of occlusal splints, anti-snoring splints, sports guards and other splints.

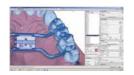
REF 410-000-13	1 piece
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Module Ortho Apps 3D

Construction of RPE appliances, lingual arch appliances, Herbst appliances and others.

RFF 410-000-14	1 niece





OnyxCeph^{3TM}



Module TADmatch™

Module from OnyxCeph³™ for the virtual positioning of tomas®-pin and as a basis for the fabrication of insertion templates.

REF 410-000-15	1 piece
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Module Wire_Bonding

Positioning of wires / brackets on set-up.

REF 410-000-08 1 piece	
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Module Bracket Erase 3D

Erase virtual bracket.

REF 410-000-12 1 piece	
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Module Aligner 3D

Planning of aligners.

REF 410-000-09	1 piece
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Module Retainer 3D

Planning of retainers.

REF 410-000-10	1 piece