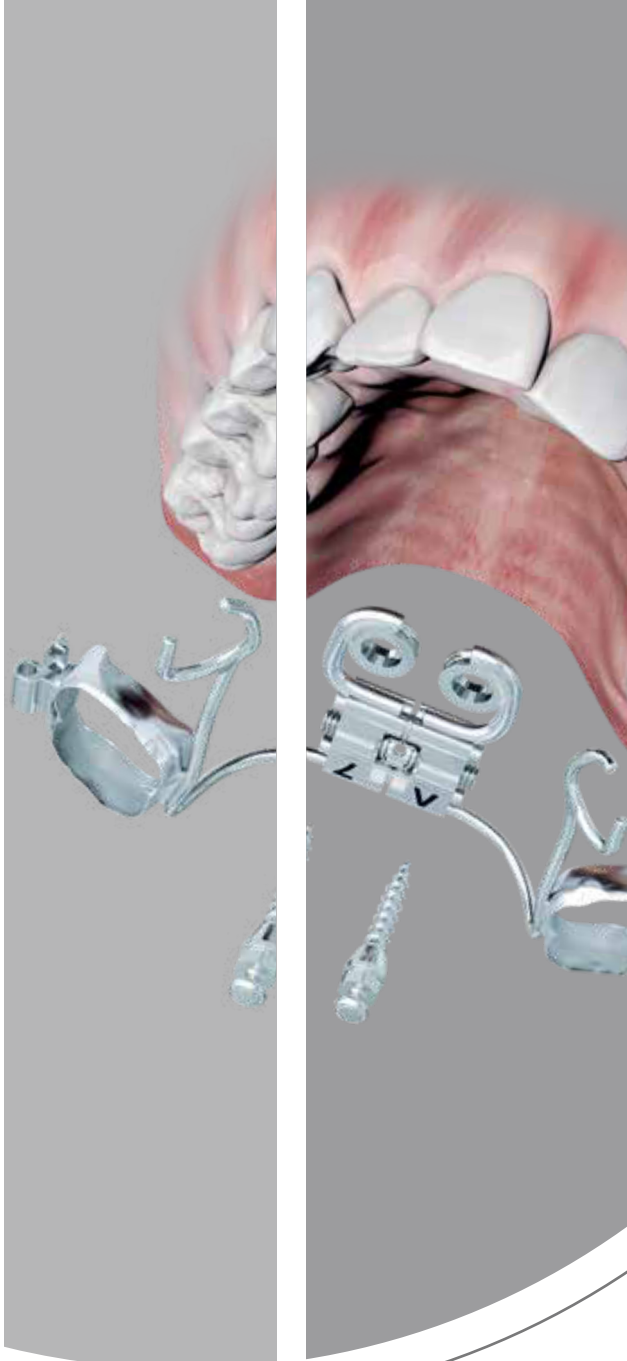




temporary  
orthodontic  
micro  
anchorage  
system

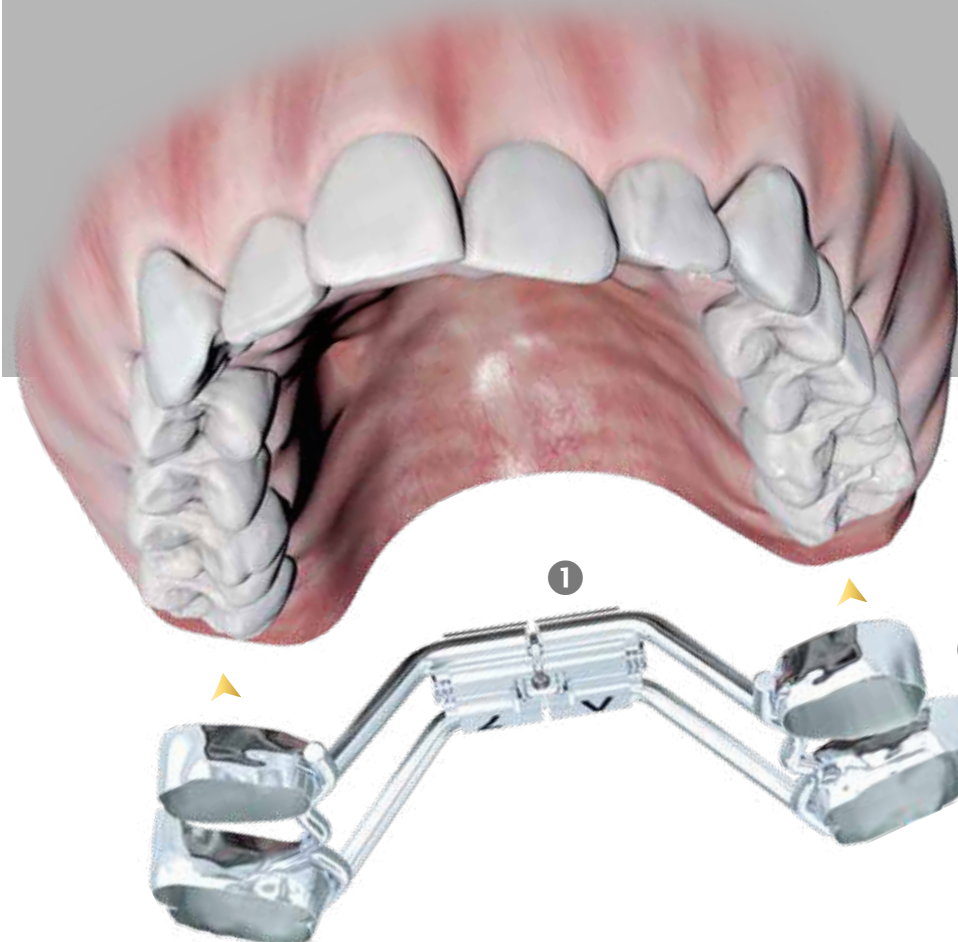


**Palatal expansion.**

Skeletal and dentoalveolar anchorage.

# Dentoalveolar anchorage. hyrax<sup>®</sup> / hyrax<sup>®</sup> click / hyrax<sup>®</sup> neo

RPE concept.



- ① hyrax<sup>®</sup> click
- ② Bands

Examples



Palatal expansion with hyrax<sup>®</sup> click  
(dentoalveolar anchorage).



Palatal expansion with hyrax<sup>®</sup> neo  
(dentoalveolar anchorage).

hyrax®

hyrax® **click**

hyrax® **neo**

## hyrax® – Product overview

|              | Retention legs | Mini – 7   | Medium – 10 | Maxi – 12  |
|--------------|----------------|------------|-------------|------------|
| hyrax® click | without        | 602-830-12 | 602-832-12  | 602-834-12 |
|              | straight       | 602-830-10 | 602-832-10  | 602-834-10 |
|              | angulated      | 602-831-10 | 602-833-10  | 602-835-10 |
| hyrax®       | without        | 602-800-12 | 602-808-12  | 602-811-12 |
|              | straight       | 602-800-10 | 602-808-10  | 602-811-10 |
|              | angulated      | 602-801-10 | 602-840-10  | 602-812-10 |
| hyrax® neo   | without        | 602-845-12 | 602-846-12  | 602-847-12 |
|              | straight       | 602-845-10 | 602-846-10  | 602-847-10 |

More examples and packaging units at [www.dentaurum.com](http://www.dentaurum.com)

## Dentoalveolar anchorage.

hyrax® / hyrax® click / hyrax® neo – special expansion screws for palatal expansion. hyrax® / hyrax® click / hyrax® neo screws (Hygienic Rapid Expansion Screw) are special screws for rapid palatal expansion with a fixed appliance. The appliance is anchored to the first premolars and molars (dentoalveolar anchorage).

The bands can be connected using a remaloy® wire Ø 1.0 mm (REF 528-100-00) as a means of reinforcement. This helps distribute the forces more evenly.

## Characteristics hyrax® / hyrax® click / hyrax® neo.

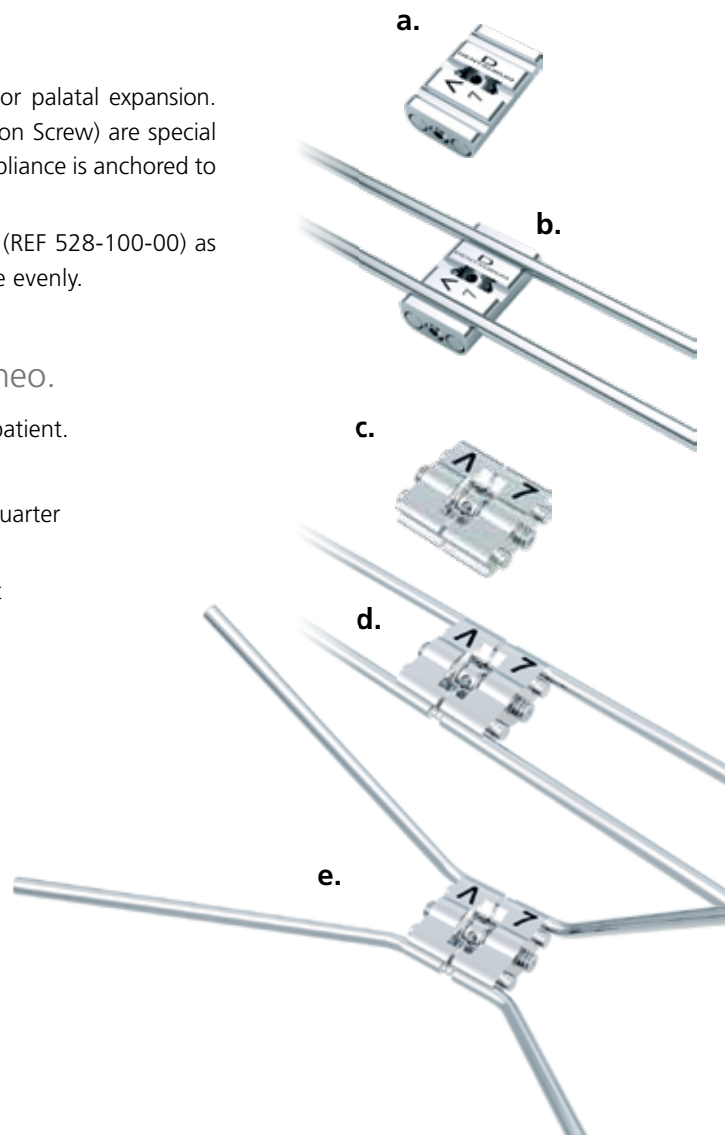
- ④ High degree of security – for both the orthodontist and the patient.
- ④ Stable guidance – optimal design of guide pins.
- ④ Safe activation – clicking into place is perceptible after each quarter turn (hyrax® click).
- ④ Patented feature click – ideal screw locking feature to prevent unwanted reversing (hyrax® click).
- ④ Easy to bend legs due to stepped screw body.

### hyrax® neo

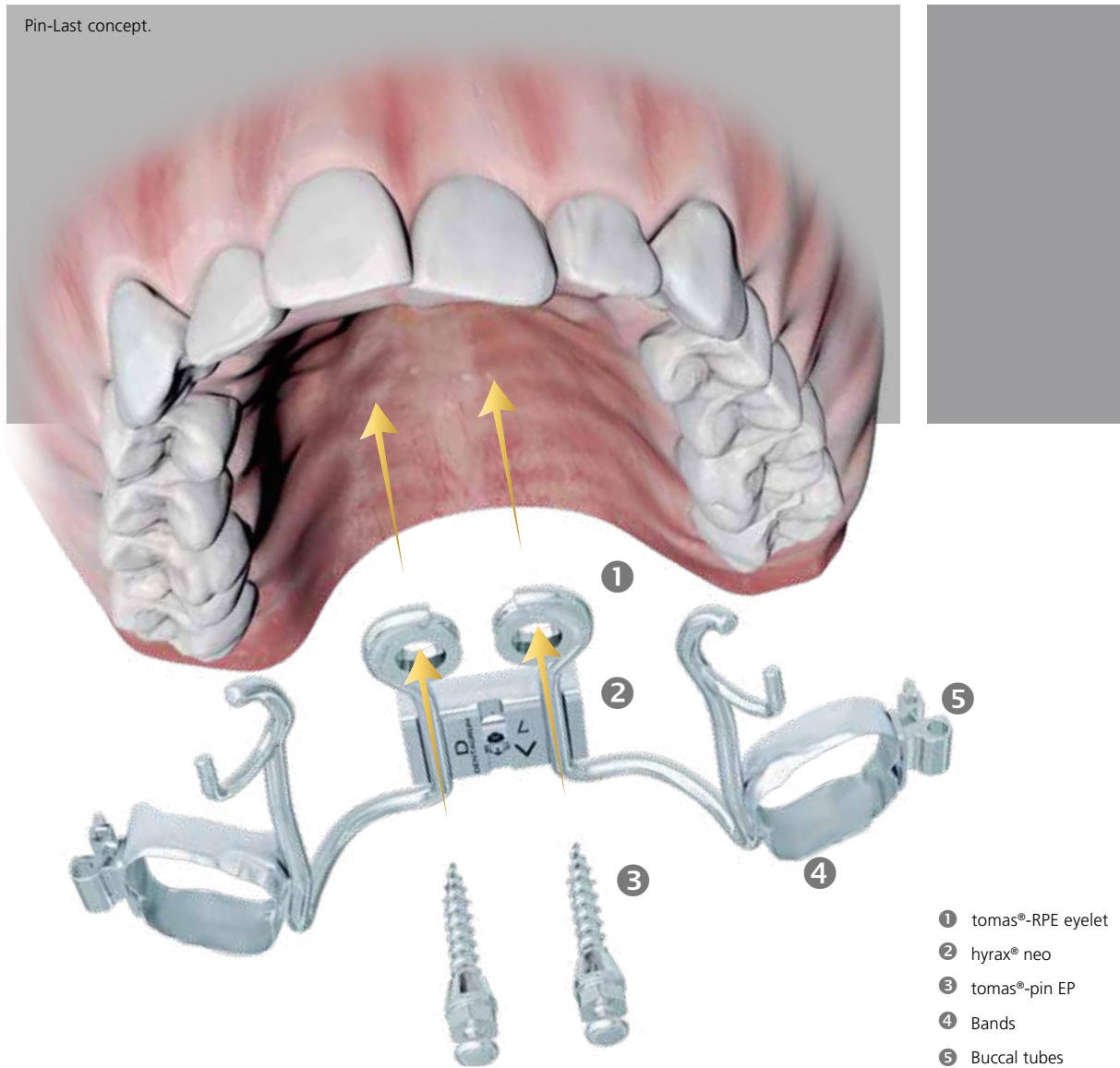
- a. without legs – for the digital workflow.
- b. straight legs – for the conventional method.

### hyrax® / hyrax® click

- c. without legs – for the digital workflow.
- d. straight legs – for the conventional method.
- e. angulated legs – for efficient work.



# Pin-Last concept. tomas®-RPE eyelet



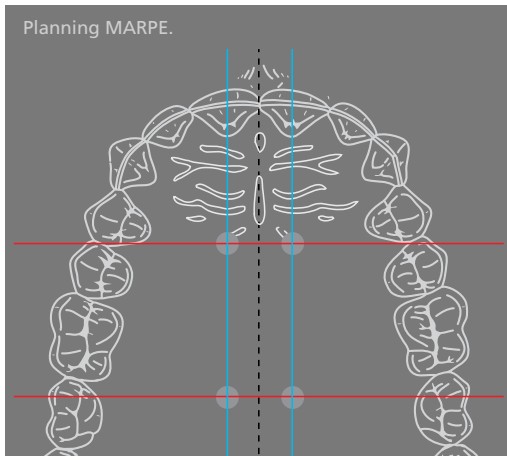
Examples



tomas®-RPE eyelet – applied in MARPE.



tomas®-RPE eyelet – applied in hybrid RPE.



## Product overview

| Illustration                                                                      | Designation                                       | REF                                  |
|-----------------------------------------------------------------------------------|---------------------------------------------------|--------------------------------------|
|  | <b>tomas®-pin EP</b><br>2 x 10.0 mm 2<br>x 8.0 mm | 302-210-00<br>302-208-00 (for MARPE) |
|  | <b>1 x tomas®-RPE eyelet</b>                      | 302-602-00                           |
|  | <b>1 x hyrax® / hyrax® click / hyrax® neo</b>     | see page 3                           |

More examples at [www.dentaurum.com](http://www.dentaurum.com).

## Skeletal anchorage (MARPE / hybrid RPE).

**Pin-Last concept** means : planning the optimal pin position, fabricating and fitting the RPE appliance. Then, guided insertion of tomas®-pin through tomas®-RPE eyelet.

## Characteristics tomas®-RPE eyelet.

- ④ Suitable for all types of skeletal anchorage RPE appliances.
- ④ Applying the Pin-Last concept.
- ④ Fitting the RPE appliance and the tomas®-pin in one appointment.
- ④ tomas®-RPE eyelet is both an insertion template and a connector in one.
- ④ The RPE appliance is fixated to the palate by means of the tomas®-pin via the tomas®-RPE eyelet.
- ④ Secure coupling between tomas®-pin and appliance.
- ④ The ideal addition to the range of indications of Dentaurum RPE screws.
- ④ Another application option for the universal tomas®-pin.

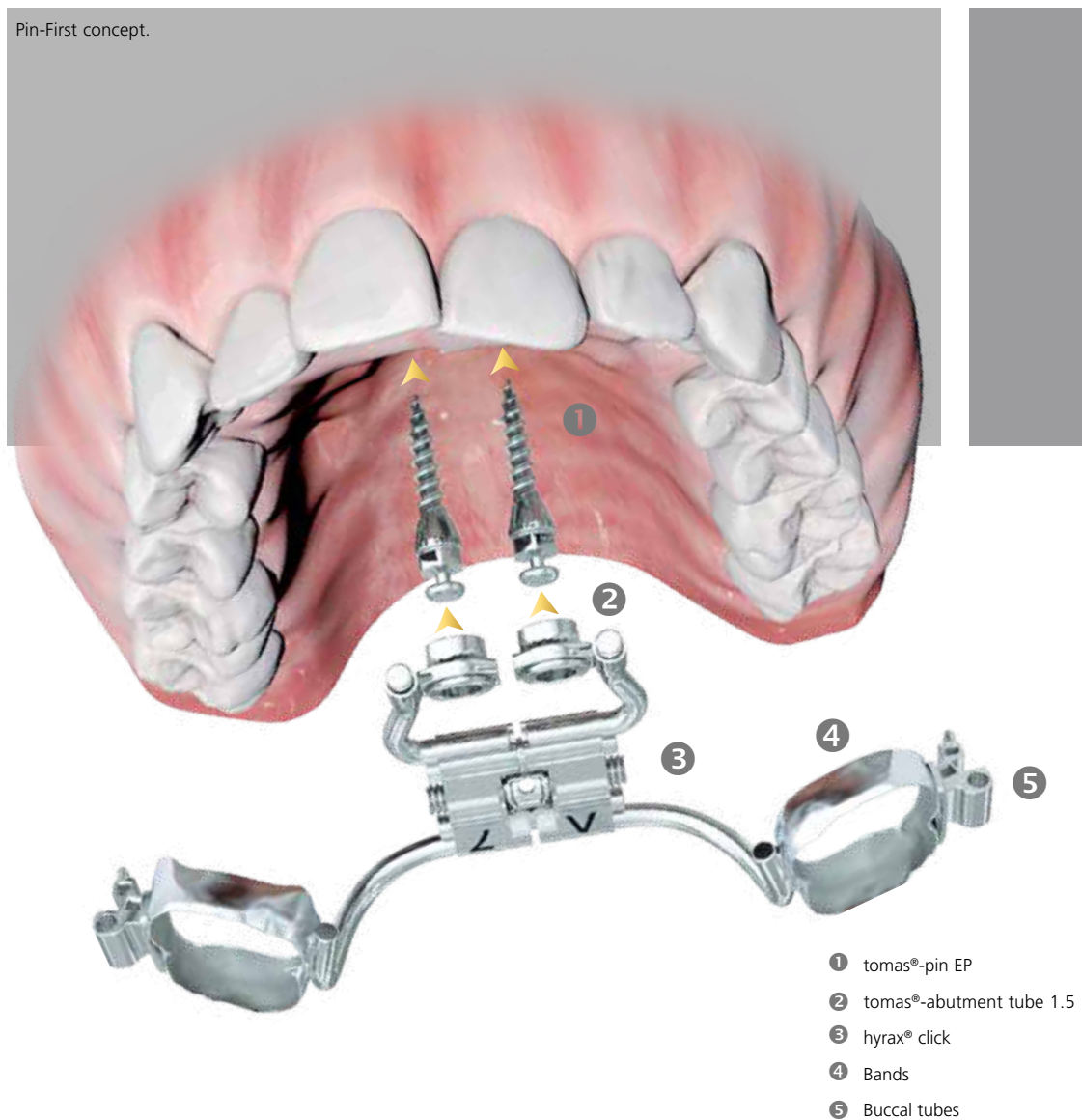


RPE: Rapid Palatal Expansion

MARPE: Mini screw Assisted Rapid Palatal Expansion

tomas®-RPE eyelet (REF 302-602-00).

# Pin-First concept. tomas®-abutment tube 1.5



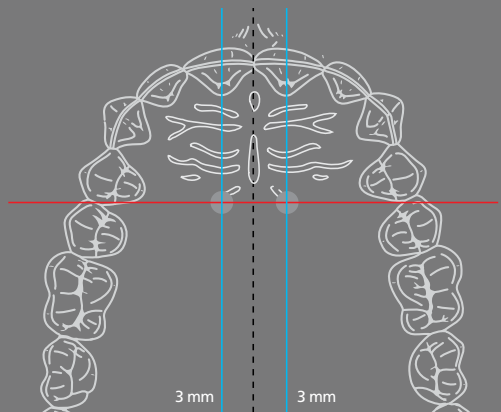
Example



tomas®-abutment tube 1.5 – applied in hybrid RPE.



Planning hybrid RPE.



## Product overview

| Illustration                                                                      | Designation                                                               | REF        |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------|------------|
|  | <b>tomas®-pin EP</b><br>2 x 10.0 mm                                       | 302-210-00 |
|  | <b>2 x tomas®-abutment tube 1.5</b>                                       | 302-025-15 |
|  | <b>1 x tomas®-transfer cap</b><br>(not required for digital process)      | 302-028-01 |
|  | <b>2 x tomas®-laboratory pin EP</b><br>(not required for digital process) | 302-029-01 |
|  | <b>1 x hyrax® / hyrax® click / hyrax® neo</b>                             | see page 3 |

More examples at [www.dentaurum.com](http://www.dentaurum.com)

## Skeletal anchorage (hybrid RPE).

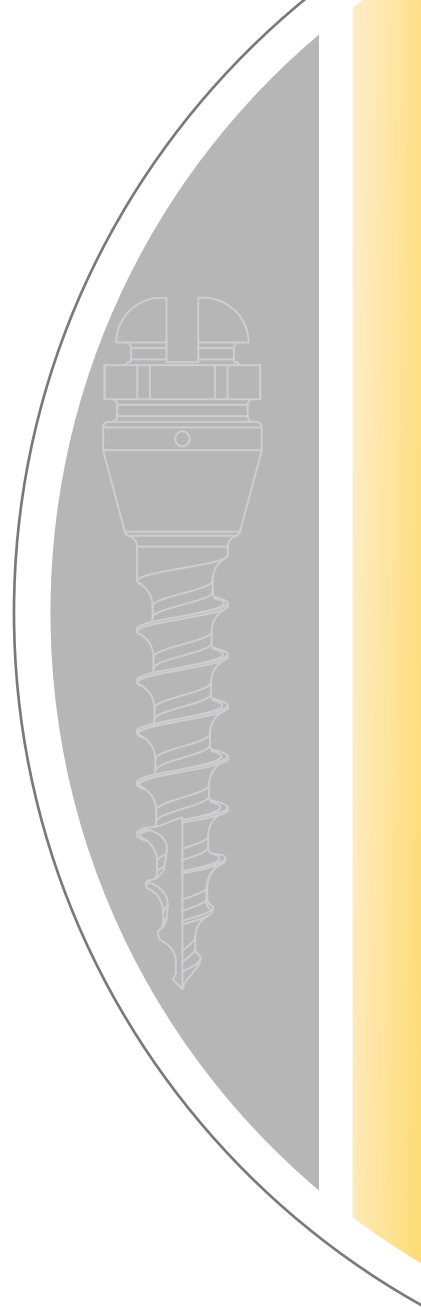
**Pin-First concept** means: planning the optimal pin position and inserting the tomas®-pin parallelly. Then, fabricating and fitting the RPE appliance.

## Characteristics tomas®-abutment tube 1.5.

- ④ Suitable for combined skeletal and dentoalveolar RPE appliances (hybrid RPE).
- ④ Parallel insertion of tomas®-pin EP in anatomically and biomechanically favorable position.
- ④ Insertion of tomas®-pin and fitting of RPE appliance in one appointment (digital workflow).
- ④ Fixation of RPE appliance by means of tomas®-abutment tube 1.5 via snap mechanism.
- ④ No additional screws on the abutment required.
- ④ tomas®-abutment tube 1.5 with integrated divergence compensation.
- ④ Another application option for the universal tomas®-pin.



tomas®-abutment tube 1.5 (REF 302-025-15).



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