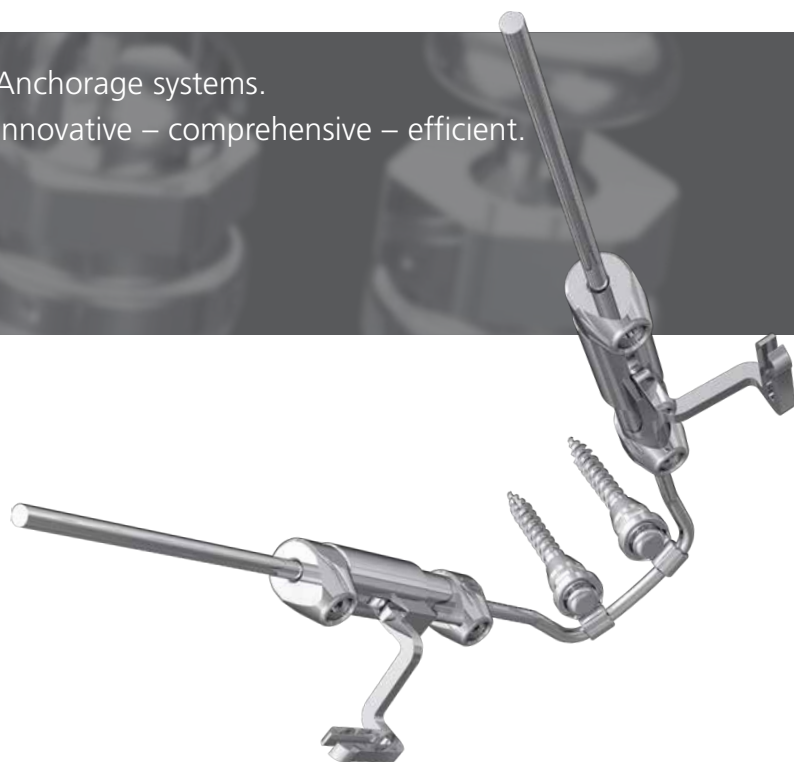




Anchorage systems.
innovative – comprehensive – efficient.



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The complete system for all indications.

The concept.

The tomas® system has been one of the leading skeletal anchorage systems for many years. Users value its easy handling and high reliability. By integrating the new tomas®-pin EP and a selection of abutments for direct and indirect coupling, the system can be used in the buccal and the palatal region. Be it distalization, mesialization, intrusion, palatal expansion or indirect anchorage: tomas® has something to offer both the beginner and the professional in skeletal anchorage systems.



Indications.

The tomas®-pin SD and the tomas®-pin EP are used to provide temporary orthodontic anchorage for the following treatment examples:

- Distalization and mesialization of teeth.
- Uprighting of molars.
- Intrusion of teeth.
- Space closure in class I occlusion.
- Sliding mechanics in class II.
- Preventing the protrusion of incisors.
- Palatal expansion.
- Oligodontia.
- Changing the tooth position as part of preprosthetic treatment.
- Anchoring temporary crowns.

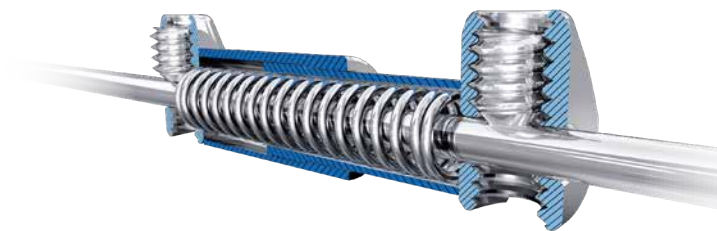
The advantages:

- Quick and easy to fit.
- Coordinated accessories.
- Effective around the clock – day and night.
- No patient compliance required.
- Perfect biomechanics.





advanced
molar
distalization
appliance.



advanced molar distalization appliance.

Together with the tomas® system, amda® offers a safe system for the distalization of upper molars. As a skeletal anchorage device it can be used for the bi- or unilateral distalization or the mesialization of upper molars and for the retraction of the upper anterior teeth depending on how it is fitted.

The appliance serves as a skeletally anchored transpalatal arch during the retention phase. amda® is more than merely a distalization appliance!

The amda® system was designed by Prof. Dr. med. dent. Moschos A. Papadopoulos. Dentaureum developed the system in close cooperation with him. Dr. Papadopoulos is a Professor and Chairman of the Department of Orthodontics at the School of Dentistry, Aristotle University in Thessaloniki, Greece.



Indications:

- Distalization of molars.
- Mesialization of molars.
- Retraction of anterior teeth.
- Combination of distalization and mesialization.
- Retention of molars.

The advantages:

- No patient compliance required.
- In situ – 24 hours.
- Hygienic and comfortable for the patient.
- No contamination of the spring.
- Easy to fit/Easy to remove.



Tool sets



tomas®-tool set XL

The tomas®-tool set XL contains all instruments for manual and mechanical insertion of a tomas®-pin.

REF 302-151-00	1 set
Contents:	
1 x tomas®-drill SD 1.1, short pilot drill	REF 302-103-00
1 x tomas®-guide driver	REF 302-080-00
1 x tomas®-driver	REF 302-004-50
1 x tomas®-applicator	REF 302-004-20
1 x tomas®-wheel, ø 10 mm	REF 302-004-30
1 x tomas®-applicator, long version	REF 302-004-70
1 x tomas®-torque ratchet	REF 302-004-41
1 x tomas®-screwdriver	REF 302-004-10
1 x tomas®-tool tray	REF 302-156-00



tomas®-tool set S

The tomas®-tool set S contains the instruments required to insert a tomas®-pin.

REF 302-251-00	1 set
Contents:	
1 x tomas®-drill SD 1.1, short pilot drill	REF 302-103-00
1 x tomas®-guide driver	REF 302-080-00
1 x tomas®-screwdriver	REF 302-004-10
1 x tomas®-tool tray	REF 302-156-00

tomas®-pin SD
self-drilling
sterile

Titanium grade 5
Thread ø: 1.6 mm
Core ø: 1.2 mm
Head type: cross-slot

Length	Color-coded packaging	REF	Quantity
6 mm	yellow	302-106-00	1 piece
8 mm	blue	302-108-00	1 piece
10 mm	green	302-110-00	1 piece



tomas®-pin EP
self-drilling
sterile

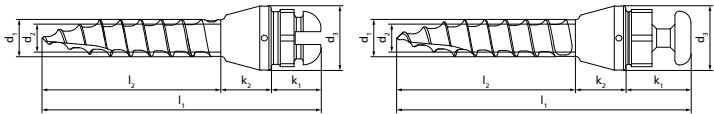
Titanium grade 5
Thread ø: 1.6 mm
Core ø: 1.2 mm
Head type: mushroom-shaped

Length	Color-coded packaging	REF	Quantity
6 mm	white	302-206-00	1 piece
8 mm	grey	302-208-00	1 piece
10 mm	black	302-210-00	1 piece



ISO 19023

	SD / SD N	EP / EP N
d ₁	1.6 mm	1.6 mm
d ₂	1.2 mm	1.2 mm
d ₃	2.8 mm	2.8 mm
k ₁	2.2 mm	2.9 mm
k ₂	2.0 mm	2.0 mm
l ₁	10.2 mm / 12.2 mm / 14.2 mm	10.9 mm / 12.9 mm / 14.9 mm
l ₂	6.0 mm / 8.0 mm / 10.0 mm	6.0 mm / 8.0 mm / 10.0 mm



Pins, non-sterile



tomas®-pin SD N
self-drilling
non-sterile
sterilizable

Titanium grade 5
Thread ø: 1.6 mm
Core ø: 1.2 mm
Head type: cross-slot

Length	REF	Quantity	REF	Quantity
6 mm	302-106-10	1 piece	302-106-30	10 pieces
8 mm	302-108-10	1 piece	302-108-30	10 pieces
10 mm	302-110-10	1 piece	302-110-30	10 pieces



tomas®-pin EP N
self-drilling
non-sterile
sterilizable

Titanium grade 5
Thread ø: 1.6 mm
Core ø: 1.2 mm
Head type: mushroom-shaped

Length	REF	Quantity	REF	Quantity
6 mm	302-206-10	1 piece	302-206-30	10 pieces
8 mm	302-208-10	1 piece	302-208-30	10 pieces
10 mm	302-210-10	1 piece	302-210-30	10 pieces

tomas®-drill SD 1.1, short pilot drill

sterilizable

The drilling must be undertaken at 800 min^{-1} (max. 1500 min^{-1}) with a sterile, physiological saline solution.
For perforating the compact bone ($\geq 2.0 \text{ mm}$) when using tomas®-pin SD and EP.



Length	ø	Color-coded packaging	REF	Quantity
4 mm	1.1 mm	yellow	302-103-00	1 piece

tomas®-applicator

sterilizable

For manual insertion and explantation of tomas®-pin.
Long version especially suitable for palatal insertion.

Length	REF	Quantity
18 mm	302-004-20	1 piece
28 mm	302-004-70	1 piece



tomas®-wheel

sterilizable

(nut)

For manual insertion and explantation of the tomas®-pin in combination with the tomas®-applicator (REF 302-004-20 / 302-004-70).

ø: 10.0 mm

REF 302-004-30	1 piece
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Anchorage systems

Instruments and accessories



tomas®-torque ratchet

For manual insertion and explantation of the tomas®-pin in combination with the tomas®-applicator (REF 302-004-20 / 302-004-70); torque should be limited to 20 Ncm.

REF 302-004-41

1 piece



tomas®-driver sterilizable

(mechanical screwing aid)

For mechanical insertion of the tomas®-pin with the aid of a lockable torque instrument. The setting should be limited to 20 Ncm and 25 min⁻¹.

Length: 22 mm

REF 302-004-50

1 piece



tomas®-guide driver sterilizable

(power-driven insertion aid)

Long version.

Handpiece-held insertion instrument coordinated with tomas®-guide tubes. For the power-driven insertion of the tomas®-pin with the help of a contra-angle handpiece with restricted torque. Torque restriction should be set at 20 Ncm and 25 min⁻¹. Highly suitable for palatal insertion of the tomas®-pin.

Length: 27 mm

REF 302-080-00

1 piece



Manually turned unit mod. acc. to Pauls, with adjustable torque from 0 - 40 Ncm sterilizable

(Manually turned unit)

Manually turned unit with adjustable torque from 0 Ncm - 40 Ncm. Torque should not exceed 20 Ncm.

Can be fitted to a contra-angle handpiece as cost-effective alternative to a surgical tool or electrically-powered equipment.

REF 302-004-81

1 piece



tomas®-screwdriver sterilizable

For manual insertion and explantation of tomas®-pin.

Contains tomas®-screwdriver key 1.3 (hex key REF 302-004-16) and tomas®-screwdriver key 3.0 (REF 302-004-14).

REF 302-004-10

1 piece



tomas®-tool tray sterilizable

For storage of tomas®-components.

REF 302-156-00

1 piece

tomas®-abutment kit

(set of coupling elements)

The tomas®-abutment kit contains abutments for the tomas®-pin SD and the tomas®-pin EP.

For skeletal anchorage of appliances for mesialization, distalization and intrusion of teeth and for maxillary expansion. Appliances can be made in the dental practice or in a laboratory.

REF 302-050-00	1 set
Contents:	
6 x tomas®-abutment universal	REF 302-025-00
6 x tomas®-abutment tube 1.1	REF 302-025-11
2 x tomas®-abutment tube 1.5	REF 302-025-15
2 x tomas®-abutment tube square 22	REF 302-025-22
2 x tomas®-abutment wire 6	REF 302-025-06
4 x tomas®-abutment wire 12	REF 302-025-12
2 x tomas®-abutment plain	REF 302-026-00
2 x tomas®-abutment EP	REF 302-027-00
50 x tomas®-transfer cap	REF 302-028-01
10 x tomas®-laboratory pin EP	REF 302-029-01
10 x tomas®-laboratory pin SD	REF 302-030-01
1 x tomas®-box	REF 302-023-10



tomas®-abutment universal

(coupling element)

Indirect coupling between tomas®-pin and conventional multi-bracket systems over one or more teeth. Direct coupling to skeletally-anchored appliances. Temporary fixation of wires with 1.1 mm ø by means of snap effect (only in connection with tomas®-pin SD!).

REF 302-025-00	2 pieces
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tomas®-abutment tube 1.1

(coupling element with tube)

Abutment with rotatable tube for direct coupling between tomas®-pin and various appliances, e.g. for bi- or unilateral mesialization, distalization, intrusion etc.

The tomas®-abutment wire 6 (REF 302-025-06) and tomas®-abutment wire 12 (REF 302-025-12) can be used in addition.

Inner ø tube	Width tube	REF	Quantity
1.15 mm / 45	3.0 mm	302-025-11	1 piece



tomas®-abutment tube 1.5

(coupling element with tube)

Abutment with rotatable tube for direct coupling between the tomas®-pin and all hyrax® RPE screws.

Can be used for hybrid RPE appliance or skeletal RPE appliance using Pin-First® approach.

Inner ø tube	Width tube	REF	Quantity
1.55 mm / 61	3.0 mm	302-025-15	1 piece



tomas®-RPE eyelet

(coupling element for RPE screws)

Eyelet for direct coupling between tomas®-pin with all hyrax® RPE screws with two supports for easier placement on working model.

Can be used for hybrid RPE appliance or skeletal RPE appliance using Pin-Last® approach.

Outer ø eyelet	Inner ø eyelet	Thickness eyelet	REF	Quantity
5.0 mm	top 3.0 mm bottom 2.3 mm	1.5 mm	302-602-00	12 pieces + 2 holders



Instruments and accessories



tomas®-abutment tube square 22

(coupling element with tube)

Abutment with rotatable square tube for direct coupling between the tomas®-pin and various appliances, e.g. for intrusion etc.

Inner $\square$ tube	Width tube	REF	Quantity
0.56 mm x 0.70 mm / 22 x 28	4.0 mm	302-025-22	1 piece



tomas®-abutment double tube 1.5

Concept by Dr. Sohani

(coupling element with 2 tubes)

Abutment with rotatable double tube for direct coupling between tomas®-pin and various appliances, e.g. for bi- or unilateral mesialization, distalization, intrusion etc. The tomas®-abutment U-wire (REF 302-025-21) can be used in addition.

Inner ϕ tube	Width tube	REF	Quantity
1.55 mm / 61	2 x 3.0 mm	302-025-30	1 piece



tomas®-abutment U-wire

(coupling element with wire)

Abutment with rotatable bilateral wire for direct coupling between the tomas®-pin and various appliances, e.g. for bi- or unilateral mesialization, distalization etc. The tomas®-abutment double tube 1.5 (REF 302-025-30) can be used in addition.

Wire ϕ	Wire length	REF	Quantity
1.10 mm / 43	2 x 80 mm	302-025-21	1 piece



tomas®-abutments median

Combination of tomas®-abutment U-wire (REF 302-025-21) and tomas®-abutment double tube 1.5 (REF 302-025-30). Combination is intended for two tomas®-pins which are placed sagittally to the mid-palatal suture. The distance between the tomas®-pins must be at least 6 mm.

Inner ϕ tube	Width tube	Wire ϕ	Wire length	REF	Quantity
1.55 mm / 61	2 x 3.0 mm	1.10 mm / 43	2 x 80 mm	302-025-51	1 piece



tomas®-abutment wire 6

(coupling element with wire)

Abutment with rotatable unilateral wire for direct coupling between the tomas®-pin and various appliances, e.g. for bi- or unilateral mesialization, distalization etc. The tomas®-abutment tube 1.1 (REF 302-025-11) can be used in addition.

Wire ϕ	Wire length	REF	Quantity
1.10 mm / 43	60 mm	302-025-06	1 piece

tomas®-abutment wire 12

(coupling element with wire)

Abutment with rotatable unilateral wire for direct coupling between the tomas®-pin and various appliances, e.g. for bi- or unilateral mesialization, distalization etc. The tomas®-abutment tube 1.1 (REF 302-025-11) can be used in addition.

Wire ø	Wire length	REF	Quantity
1.10 mm / 43	120 mm	302-025-12	1 piece



tomas®-abutment plain

(coupling element)

For welding individual elements and for anchoring temporary crowns.

REF 302-026-00	1 piece
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tomas®-abutment EP

(coupling element)

Direct coupling between the tomas®-pin EP and distalization appliances.

Inner ø tube	Width tube	Inner ø eyelet	Thickness eyelet	REF	Quantity
1.05 mm / 41	2.0 mm	2.4 mm / 94	0.8 mm	302-027-00	2 pieces



tomas®-transfer cap

Transfer of oral status to a dental cast.

REF 302-028-01	2 pieces
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tomas®-laboratory pin EP

Laboratory analog for the tomas®-pin EP for manufacture of orthodontic appliances with skeletal anchorage in a laboratory.

REF 302-029-01	1 piece
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tomas®-laboratory pin SD

Laboratory analog for the tomas®-pin SD for manufacture of orthodontic appliances with skeletal anchorage in a laboratory.

REF 302-030-01	1 piece
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Instruments and accessories



tomas®-auxiliary kit

(set of accessories)

The tomas®-auxiliary kit contains accessories for mesializing, distalizing and uprighting of teeth in connection with the tomas®-pin.

REF 302-001-20

1 set

Contents:

10 x tomas®-coil spring, light (8 mm)	REF 302-012-00
10 x tomas®-coil spring, medium (8 mm)	REF 302-012-10
10 x tomas®-coil spring, heavy (8 mm)	REF 302-012-20
10 x tomas®-uprighting spring	REF 302-009-00
3 x rematitan® LITE compression spring	REF 758-361-00
10 x tomas®-stop screw	REF 302-013-01
1 x hexagon socket key 0.9	REF 607-129-00
10 x tomas®-T-wire	REF 302-024-00
10 x tomas®-power arm, square	REF 302-015-00
10 x tomas®-power arm, round	REF 302-019-00
10 x tomas®-crimp hook, Upper left/Lower right	REF 302-020-00
10 x tomas®-crimp hook, Upper right/Lower left	REF 302-020-10
10 x tomas®-aligner hook, Upper left/Lower right	REF 302-021-00
10 x tomas®-aligner hook, Upper right/Lower left	REF 302-021-10
1 x tomas®-box	REF 302-023-10



tomas®-coil spring

Nickel titanium tension springs with eyelets for linking to the tomas®-pin and hooks.

Length: 8 mm (measured from the center of the two eyelets)

Inner ø: 0.90 mm / 36

Strength category: super elastic

Traction force	Wire strength ø	Color coded packaging	REF	Quantity
light 1.38 N (140 g)	0.21 mm / 8	blue	302-012-00	10 pieces
medium 2.01 N (200 g)	0.23 mm / 9	yellow	302-012-10	10 pieces
heavy 2.74 N (270 g)	0.23 mm / 9	red	302-012-20	10 pieces



SUPER Elasto-Force plastic chains

Consistent traction force over a long period of time. High elasticity with excellent elastic recovery.

Color	Inner ø	Length	REF	Quantity
transparent	1.3 mm	4.6 m	774-221-01	1 roll



tomas®-uprighting spring

For uprighting and simultaneous intrusion or extrusion of molars.

REF 302-009-00

10 pieces

rematitan® LITE compression spring

Advantages:

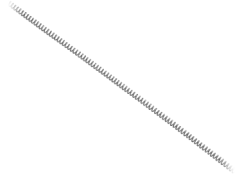
- high elasticity with virtually constant restoring force
- fatigue-free, low, uniform transfer of forces

May be individually shortened.

Material: nickel titanium

Strength category: super elastic

Inner ø	Length	Wire strength ø	Force	REF	Quantity
0.76 mm / 30	18 cm	0.30 mm / 12	medium	758-361-00	3 pieces



tomas®-stop screw

Without hexagon socket key.

REF 302-013-01	10 pieces
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Hexagon socket key 0.9 sterilizable

Key width: 0.9 mm

REF 607-129-00	1 piece
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tomas®-slotted stop

Suitable as stop for tension springs.

☑	REF	Quantity
0.46 mm x 0.64 mm / 18 x 25	302-022-18	100 pieces
0.56 mm x 0.70 mm / 22 x 28	302-022-22	100 pieces



tomas®-hook

For fixing elastic elements (plastic chains, springs) to the tomas®-pin SD head.

REF 302-009-10	10 pieces
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tomas®-T-wire

Made of remanium® for direct and indirect connection with the tomas®-pin SD.

Material: stainless steel

Strength category: spring hard · 1800 N/mm² - 2000 N/mm²

☑	REF	Quantity
0.55 mm x 0.70 mm / 21.5 x 28	302-024-00	10 pieces



Instruments and accessories



tomas®-cross tube 18

Transverse connection between two small rectangular tubes for joining two wires without welding. Ideal for the connection between tomas®-pin SD and arch.

Horizontal tube:

Overall length: 4.0 mm

Inner $\varnothing$: 0.46 mm x 0.64 mm / 18 x 25

Vertical tube:

Overall length: 2.0 mm

Inner $\varnothing$: 0.56 mm x 0.70 mm / 22 x 28

REF 302-014-18

10 pieces



tomas®-cross tube 22

Transverse connection between two small rectangular tubes for joining two wires without welding. Ideal for the connection between tomas®-pin SD and arch.

Horizontal tube:

Overall length: 4.0 mm

Inner $\varnothing$: 0.56 mm x 0.70 mm / 22 x 28

Vertical tube:

Overall length: 2.0 mm

Inner $\varnothing$: 0.56 mm x 0.70 mm / 22 x 28

REF 302-014-22

10 pieces



tomas®-power arm, square

Strength category: spring hard · 1800 N/mm² - 2000 N/mm²

Crimping tube slotted, with spring hard wire, square

($\varnothing$ 0.55 mm x 0.70 mm / 21.5 x 28). Can be placed directly on the arch wire, without loss of ligation of the archwire.

Universal application for the slot 18/22 technique. Ideal for coupling with the tomas®-pin SD and for bending individual hooks.

Dimensions:

Tube length: 2.0 mm

Wire length: 25.0 mm

REF 302-015-00

10 pieces



tomas®-power arm, round

Strength category: spring hard · 1800 N/mm² - 2000 N/mm²

Crimping tube slotted, with spring hard wire, round

($\varnothing$ 0.7 mm / 28). Can be placed directly on the arch wire, without loss of ligation of the archwire. Universal application for the slot 18/22 technique. For bending individual hooks.

Dimensions:

Tube length: 2.0 mm

Wire length: 25.0 mm

REF 302-019-00

10 pieces

Crimping pliers

sterilizable

Tip with V-shaped notch for holding and crimping sliding/clamping and stop tubes.

Premium-Line · 10 year guarantee

REF 003-711-00

1 piece



tomas®-crimp hook

Crimping hook slotted, with 4 hooks to engage springs and plastic chains.

Universal application for the slot 18/22 technique.

Strength category: spring hard · 1800 N/mm² - 2000 N/mm²



Quadrant	REF	Quantity
upper left / lower right	302-020-00	10 pieces
upper right / lower left	302-020-10	10 pieces

tomas®-aligner hook

(bonding hook)

Hook for bonding on teeth or aligner for direct coupling with tomas®-pin.

Special adhesive (Bond Aligner™ from Reliance) is required to bond onto plastic of aligner.

Strength category: spring hard · 1800 N/mm² - 2000 N/mm²



Quadrant	REF	Quantity
upper left / lower right	302-021-00	10 pieces
upper right / lower left	302-021-10	10 pieces

tomas®-box

Plastic box with 2 inserts.

REF 302-023-10

1 piece



amda® / Starter set



amda® starter set (assembled)

Skeletally anchored appliance for the distalization of molars with the tomas®-pin EP.



REF 607-180-00	1 set
Contents:	
1 x amda® telescope (2 pieces)	REF 607-181-02
1 x amda® connector, pair 7 mm	REF 607-184-07
1 x amda® connector, pair 10 mm	REF 607-184-10
1 x amda® connector, pair 13 mm	REF 607-184-13
1 x amda® palatal arch	REF 607-185-01
1 x hexagon socket key 0.9	REF 607-129-00

amda® telescope

Encapsulated stainless steel spring with two stop screws
(REF 302-013-01).

Spring force: max. 4.7 N

Spring travel: max. 4.0 mm

REF 607-181-02	2 pieces
REF 607-181-10	10 pieces



amda® connector, left

Elements to connect the amda® appliance and the palatal sheath on the molars.

Height	REF	Quantity
7 mm	607-182-07	10 pieces
10 mm	607-182-10	10 pieces
13 mm	607-182-13	10 pieces



amda® connector, right

Elements to connect the amda® appliance and the palatal sheath on the molars.

Height	REF	Quantity
7 mm	607-183-07	10 pieces
10 mm	607-183-10	10 pieces
13 mm	607-183-13	10 pieces



amda® connector, pair

Elements to connect the amda® appliance and the palatal sheath on the molars.

Height	REF	Quantity
7 mm	607-184-07	1 pair
10 mm	607-184-10	1 pair
13 mm	607-184-13	1 pair



amda® / Appliance and accessories



amda® palatal arch

(incl. 2 x tomas®-abutments EP, REF 302-027-00).

Palatal arch for amda® for fixing the amda® telescopes.

REF 607-185-01	1 piece
REF 607-185-10	10 pieces



Hexagon socket key 0.9

sterilizable

Key width: 0.9 mm

REF 607-129-00	1 piece
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tomas®-demonstration pin SD 08 self-drilling

For patient demonstration.

Scale 5 : 1

REF 302-007-20

1 piece



tomas®-demonstration pin EP 08 self-drilling

For patient demonstration.

Scale 5 : 1

REF 302-007-30

1 piece



Orthodontic demonstration model

tomas® / amda®

Fitted with:

- tomas®-pin EP
- amda®
- lingual / palatal sheaths easy in,
welded to standard molar bands

Maxilla made of plastic.

REF 892-000-26

1 piece

