Expansion screws.

Perfect in form, function and design.
Expansion screws

Perfect in form, function and design.

A wide range of products.
Dentaurum’s selection of stainless steel expansion screws ranges from standard expansion screws to more complex special expansion screws. Titan hyrax® and rematitan® expansion screws, the biocompatible alternatives in pure titanium, round off this wide selection.

Perfect in every detail.
Dentaurum’s expansion screws achieve wide expansion despite their small size. Built-in stops prevent the screws from coming apart. The screws are guaranteed to open evenly and not reverse inadvertently thanks to the friction on the thread, which has been carefully calculated, and an integrated stop mechanism. High precision manufacture and excellent quality ensure that the screw construction is strong and stable. Additional holes in the body ensure optimal retention in the acrylic.
Dentaurum expansion screws
The right solution for all types of treatment.

Forward thrust double plate system acc. to Schaneng
The flexible system.

hyrax®
Special expansion screw for palatal expansion.

hyrax® click
The RPE screw without unwanted reversing.

Titan hyrax®
The world’s first RPE screw in titanium.

Variety
The versatile, multi-functional expansion screw.

Variety click
The special expansion screw without unwanted reversing.
Expansion screws

Standard expansion screws

**Expansion screw Mini**
Material: Stainless steel
- with **cone-shaped** expansion screw holder
- skeleton design
- holes in body of screws for better retention in acrylic
- built-in stops prevent screws from coming apart
With expansion screw key straight, small – standard.

**Indication: for transverse expansion and distalization in the mandible**
or for especially narrow maxillae

<table>
<thead>
<tr>
<th>Maximum expansion</th>
<th>4 x 1/4 turn</th>
<th>Directional arrow</th>
<th>REF</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.5 mm</td>
<td>= 0.7 mm</td>
<td>Plastic, white</td>
<td>600-300-10</td>
<td>1 piece</td>
</tr>
<tr>
<td>6.5 mm</td>
<td>= 0.7 mm</td>
<td>Plastic, white</td>
<td>600-300-30</td>
<td>10 pieces</td>
</tr>
<tr>
<td>6.5 mm</td>
<td>= 0.7 mm</td>
<td>Plastic, white</td>
<td>600-300-60</td>
<td>100 pieces</td>
</tr>
</tbody>
</table>

---

Expansion screw Mini

Material: Stainless steel
- with **wide** expansion screw holder
- skeleton design
- holes in body of screws for better retention in acrylic
- built-in stops prevent screws from coming apart
With expansion screw key straight, small – standard.

**Indication: for transverse expansion and distalization in the mandible**
or for especially narrow maxillae

<table>
<thead>
<tr>
<th>Maximum expansion</th>
<th>4 x 1/4 turn</th>
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<tbody>
<tr>
<td>6.5 mm</td>
<td>= 0.7 mm</td>
<td>Plastic, white</td>
<td>600-320-10</td>
<td>1 piece</td>
</tr>
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<td>6.5 mm</td>
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<td>100 pieces</td>
</tr>
</tbody>
</table>

---

---
Expansion screws

Standard expansion screws

Expansion screw Medium
Material: Stainless steel
- with cone-shaped expansion screw holder
- skeleton design
- holes in body of screws for better retention in acrylic
- built-in stops prevent screws from coming apart
With expansion screw key straight, small – standard.

Indication: for transverse expansion and distalization in maxilla and mandible

<table>
<thead>
<tr>
<th>Maximum expansion</th>
<th>$4 \times \frac{1}{4}$ turn</th>
<th>Directional arrow</th>
<th>REF</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.5 mm</td>
<td>= 0.8 mm</td>
<td>Plastic, neon yellow</td>
<td>600-301-10</td>
<td>1 piece</td>
</tr>
<tr>
<td>7.5 mm</td>
<td>= 0.8 mm</td>
<td>Plastic, neon yellow</td>
<td>600-301-30</td>
<td>10 pieces</td>
</tr>
<tr>
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<td>= 0.8 mm</td>
<td>Plastic, neon yellow</td>
<td>600-301-60</td>
<td>100 pieces</td>
</tr>
</tbody>
</table>

Expansion screw Medium
Material: Stainless steel
- with wide expansion screw holder
- skeleton design
- holes in body of screws for better retention in acrylic
- built-in stops prevent screws from coming apart
With expansion screw key straight, small – standard.

Indication: for transverse expansion and distalization in maxilla and mandible

<table>
<thead>
<tr>
<th>Maximum expansion</th>
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<td>10 pieces</td>
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<td>600-321-60</td>
<td>100 pieces</td>
</tr>
</tbody>
</table>
Expansion screws

Standard expansion screws

Expansion screw Maxi
Material: Stainless steel
• with cone-shaped expansion screw holder
• skeleton design
• holes in body of screws for better retention in acrylic
• built-in stops prevent screws from coming apart
With expansion screw key straight, small – standard.

Indication: for transverse expansion in the maxilla

<table>
<thead>
<tr>
<th>Maximum expansion</th>
<th>4 x 1/4 turn</th>
<th>Directional arrow</th>
<th>REF</th>
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</tr>
</thead>
<tbody>
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<td>0.8 mm</td>
<td>Plastic, neon yellow</td>
<td>600-302-10</td>
<td>1 piece</td>
</tr>
<tr>
<td>7.5 mm</td>
<td>0.8 mm</td>
<td>Plastic, neon yellow</td>
<td>600-302-30</td>
<td>10 pieces</td>
</tr>
<tr>
<td>7.5 mm</td>
<td>0.8 mm</td>
<td>Plastic, neon yellow</td>
<td>600-302-60</td>
<td>100 pieces</td>
</tr>
</tbody>
</table>

Expansion screw Maxi
Material: Stainless steel
• with wide expansion screw holder
• skeleton design
• holes in body of screws for better retention in acrylic
• built-in stops prevent screws from coming apart
With expansion screw key straight, small – standard.

Indication: for transverse expansion in the maxilla

<table>
<thead>
<tr>
<th>Maximum expansion</th>
<th>4 x 1/4 turn</th>
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<tbody>
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<td>600-322-10</td>
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<td>0.8 mm</td>
<td>Plastic, neon yellow</td>
<td>600-322-60</td>
<td>100 pieces</td>
</tr>
</tbody>
</table>
Expansion screws

Expansion screw Magnum
Material: Stainless steel
• with cone-shaped expansion screw holder
• skeleton design
• version: extra strong, with larger screw body
• holes in body of screws for better retention in acrylic
• built-in stops prevent screws from coming apart
With expansion screw key straight, small – standard.
Indication: for transverse expansion in the maxilla and bimaxillary functional gnatho-orthopedic appliances

<table>
<thead>
<tr>
<th>Maximum expansion</th>
<th>4 x 1/4 turn</th>
<th>Directional arrow</th>
<th>REF</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.0 mm</td>
<td>= 0.8 mm</td>
<td>Plastic, neon yellow</td>
<td>600-303-10</td>
<td>1 piece</td>
</tr>
<tr>
<td>11.0 mm</td>
<td>= 0.8 mm</td>
<td>Plastic, neon yellow</td>
<td>600-303-30</td>
<td>10 pieces</td>
</tr>
<tr>
<td>11.0 mm</td>
<td>= 0.8 mm</td>
<td>Plastic, neon yellow</td>
<td>600-303-60</td>
<td>100 pieces</td>
</tr>
</tbody>
</table>

rematitan® expansion screw Medium
Material: Titanium
• with cone-shaped expansion screw holder
• skeleton design
• holes in body of screws for better retention in acrylic
• built-in stops prevent screws from coming apart
With expansion screw key straight, small – standard.
Indication: for transverse expansion and distalization in maxilla and mandible

<table>
<thead>
<tr>
<th>Maximum expansion</th>
<th>4 x 1/4 turn</th>
<th>Directional arrow</th>
<th>REF</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.5 mm</td>
<td>= 0.8 mm</td>
<td>Plastic, pearl-blue</td>
<td>600-400-10</td>
<td>1 piece</td>
</tr>
<tr>
<td>7.5 mm</td>
<td>= 0.8 mm</td>
<td>Plastic, pearl-blue</td>
<td>600-400-30</td>
<td>10 pieces</td>
</tr>
</tbody>
</table>
Standard expansion screws

**Trapezoidal expansion screw**

- Material: Stainless steel
- with cone-shaped expansion screw holder
- skeleton design
- holes in body of screws for better retention in acrylic
- built-in stops prevent screws from coming apart

With expansion screw key straight, small – standard.

**Indication:** for transverse expansion of narrow maxillae and as activation screw for bimaxillary functional gnatho-orthopedic appliances

<table>
<thead>
<tr>
<th>Maximum expansion</th>
<th>$4 \times \frac{1}{4}$ turn</th>
<th>Directional arrow</th>
<th>REF</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.5 mm</td>
<td>$= 0.8$ mm</td>
<td>Plastic, neon yellow</td>
<td>600-310-30</td>
<td>10 pieces</td>
</tr>
</tbody>
</table>

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320
Expansion screws

Sectional screw Mini
Material: Stainless steel
- with wide expansion screw holder
- skeleton design
- guide pins: U-shaped, straight
With expansion screw key straight, small – standard.
Indication: for movement of individual teeth

<table>
<thead>
<tr>
<th>Maximum expansion</th>
<th>$4 \times \frac{1}{4}$ turn</th>
<th>Directional arrow</th>
<th>REF</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.0 mm</td>
<td>$= 0.35$ mm</td>
<td>printed, blue-yellow</td>
<td>600-502-10</td>
<td>1 piece</td>
</tr>
<tr>
<td>4.0 mm</td>
<td>$= 0.35$ mm</td>
<td>printed, blue-yellow</td>
<td>600-502-30</td>
<td>10 pieces</td>
</tr>
<tr>
<td>4.0 mm</td>
<td>$= 0.35$ mm</td>
<td>printed, blue-yellow</td>
<td>600-502-60</td>
<td>100 pieces</td>
</tr>
</tbody>
</table>

Sectional screw Mini
Material: Stainless steel
- with wide expansion screw holder
- skeleton design
- guide pins: U-shaped, angulated facing down
With expansion screw key straight, small – standard.
Indication: for movement of individual teeth

<table>
<thead>
<tr>
<th>Maximum expansion</th>
<th>$4 \times \frac{1}{4}$ turn</th>
<th>Directional arrow</th>
<th>REF</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.0 mm</td>
<td>$= 0.35$ mm</td>
<td>printed, blue-yellow</td>
<td>600-503-10</td>
<td>1 piece</td>
</tr>
<tr>
<td>4.0 mm</td>
<td>$= 0.35$ mm</td>
<td>printed, blue-yellow</td>
<td>600-503-30</td>
<td>10 pieces</td>
</tr>
<tr>
<td>4.0 mm</td>
<td>$= 0.35$ mm</td>
<td>printed, blue-yellow</td>
<td>600-503-60</td>
<td>100 pieces</td>
</tr>
</tbody>
</table>
Special expansion screws

**Sectional screw Medium**
Material: Stainless steel
- with **cone-shaped** expansion screw holder
- skeleton design
- guide pins: **straight**, with mushroom head retention
- holes in body of screws for better retention in acrylic
- built-in stops prevent screws from coming apart

With expansion screw key straight, small – standard.

**Indication:** for distalization and segmentation of appliances, Y plates

<table>
<thead>
<tr>
<th>Maximum expansion</th>
<th>4 x $\frac{1}{4}$ turn</th>
<th>Directional arrow</th>
<th>REF</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.0 mm</td>
<td>= 0.4 mm</td>
<td>Plastic, neon yellow</td>
<td>600-500-10</td>
<td>1 piece</td>
</tr>
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<td>6.0 mm</td>
<td>= 0.4 mm</td>
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<td>600-500-30</td>
<td>10 pieces</td>
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<td>6.0 mm</td>
<td>= 0.4 mm</td>
<td>Plastic, neon yellow</td>
<td>600-500-60</td>
<td>100 pieces</td>
</tr>
</tbody>
</table>

---

**Sectional screw Medium**
Material: Stainless steel
- with **cone-shaped** expansion screw holder
- skeleton design
- guide pins: U-shaped, **angulated facing down**
- holes in body of screws for better retention in acrylic

With expansion screw key straight, small – standard.

**Indication:** for distalization and segmentation of appliances, protrusion of an anterior segment

<table>
<thead>
<tr>
<th>Maximum expansion</th>
<th>4 x $\frac{1}{4}$ turn</th>
<th>Directional arrow</th>
<th>REF</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.0 mm</td>
<td>= 0.4 mm</td>
<td>Plastic, neon yellow</td>
<td>600-501-10</td>
<td>1 piece</td>
</tr>
<tr>
<td>6.0 mm</td>
<td>= 0.4 mm</td>
<td>Plastic, neon yellow</td>
<td>600-501-30</td>
<td>10 pieces</td>
</tr>
<tr>
<td>6.0 mm</td>
<td>= 0.4 mm</td>
<td>Plastic, neon yellow</td>
<td>600-501-60</td>
<td>100 pieces</td>
</tr>
</tbody>
</table>

---
Retraction screw Extra Mini
Material: Stainless steel
• with cone-shaped expansion screw holder
• screw body: closed
• guide pins: U-shaped, straight
With expansion screw key straight, small – standard.
Indication: for space closing and movement of individual teeth

<table>
<thead>
<tr>
<th>Maximum retraction</th>
<th>4 x 1/4 turn</th>
<th>Directional arrow</th>
<th>REF</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.0 mm</td>
<td>= 0.4 mm</td>
<td>printed, blue-yellow</td>
<td>600-602-30</td>
<td>10 pieces</td>
</tr>
</tbody>
</table>

Retraction screw Mini
Material: Stainless steel
• with cone-shaped expansion screw holder
• screw body: closed
• guide pins: U-shaped, straight
With expansion screw key straight, small – standard.
Indication: for space closing and movement of individual teeth

<table>
<thead>
<tr>
<th>Maximum retraction</th>
<th>4 x 1/4 turn</th>
<th>Directional arrow</th>
<th>REF</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5 mm</td>
<td>= 0.4 mm</td>
<td>printed, blue-yellow</td>
<td>600-601-30</td>
<td>10 pieces</td>
</tr>
</tbody>
</table>
Expansion screws

Special expansion screws

Retraction screw Medium
Material: Stainless steel
• with cone-shaped expansion screw holder
• screw body: closed
• guide pins: U-shaped, straight
With expansion screw key straight, small – standard.
Indication: for space closing and movement of individual teeth

<table>
<thead>
<tr>
<th>Maximum retraction</th>
<th>4 x 1/4 turn</th>
<th>Directional arrow</th>
<th>REF</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.5 mm</td>
<td>= 0.4 mm</td>
<td>printed, blue-yellow</td>
<td>600-600-30</td>
<td>10 pieces</td>
</tr>
</tbody>
</table>

Three dimensional screw acc. to Bertoni – three movements (Type A)
Material: Stainless steel
• strengthened guides
• three independently controlled movements
• same total expansion per segment
With expansion screw key straight, small – standard.
Indication: for combined transverse and protrusion movements with Y plates

<table>
<thead>
<tr>
<th>Maximum expansion</th>
<th>4 x 1/4 turn</th>
<th>Directional arrow</th>
<th>REF</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.0 mm/segment</td>
<td>= 0.35 mm/segment</td>
<td>printed, blue-yellow</td>
<td>602-605-10</td>
<td>1 piece</td>
</tr>
</tbody>
</table>
Three dimensional screw acc. to Bertoni – two movements (Type B)

Material: Stainless steel

- strengthened guides
- two independently controlled movements (symmetrical transverse expansion)
- same total expansion per segment

With expansion screw key straight, small – standard.

**Indication**: for combined transverse and protrusion movements with Y plates

<table>
<thead>
<tr>
<th>Maximum expansion</th>
<th>4 x ¼ turn</th>
<th>Directional arrow</th>
<th>REF</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.0 mm/segment</td>
<td>= 0.35 mm/segment</td>
<td>printed, blue-yellow</td>
<td>602-606-10</td>
<td>1 piece</td>
</tr>
</tbody>
</table>

Three dimensional screw acc. to Steiner

Material: Stainless steel

- strengthened guides
- individually adjustable middle bar for adapting to different palatal vault curvatures
- two independently controlled movements (symmetrical transverse expansion)
- same total expansion per segment

With expansion screw key straight, small – standard.

**Indication**: for combined transverse and protrusion movements with Y plates

<table>
<thead>
<tr>
<th>Maximum expansion</th>
<th>4 x ¼ turn</th>
<th>Directional arrow</th>
<th>REF</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.0 mm/segment</td>
<td>= 0.35 mm/segment</td>
<td>printed, blue-yellow</td>
<td>602-604-10</td>
<td>1 piece</td>
</tr>
</tbody>
</table>
Expansion screws

Special expansion screws

**Fan-type expansion screw**

Material: Stainless steel

- with *wide* expansion screw holder
- plate sections are opened fanwise

With expansion screw key straight, small – standard.

**Indication:** for maxillary anterior or posterior expansion

<table>
<thead>
<tr>
<th>Maximum expansion</th>
<th>4 x ¼ turn</th>
<th>Directional arrow</th>
<th>REF</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.0 mm</td>
<td>= 0.8 mm</td>
<td>printed, blue-yellow</td>
<td>606-600-00</td>
<td>1 piece</td>
</tr>
<tr>
<td>7.0 mm</td>
<td>= 0.8 mm</td>
<td>printed, blue-yellow</td>
<td>606-600-30</td>
<td>10 pieces</td>
</tr>
</tbody>
</table>

**Mandibular bow screw acc. to Müller**

Material: Stainless steel

- with *cone-shaped* expansion screw holder
- minimal fan-type opening of the arch screw, according to the anterior arch

With expansion screw key straight, small – standard.

**Indication:** for transverse expansion of the mandibular front

<table>
<thead>
<tr>
<th>Maximum expansion</th>
<th>4 x ¼ turn</th>
<th>Directional arrow</th>
<th>REF</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.0 mm</td>
<td>= 0.8 mm</td>
<td>Plastic, neon yellow</td>
<td>606-701-00</td>
<td>1 piece</td>
</tr>
<tr>
<td>5.0 mm</td>
<td>= 0.8 mm</td>
<td>Plastic, neon yellow</td>
<td>606-701-30</td>
<td>10 pieces</td>
</tr>
</tbody>
</table>
Flexible forward thrust double plate system acc. to Schaneng
Material: Stainless steel
- flexibility of the intermaxillary element
- screws with guide ridge for forward thrust double plate.
  Double loop, wax coated
With expansion screw key straight, small – standard.
Indication: for treatment of Angle Class II/1 (distoclusion), for advancement of the mandible

<table>
<thead>
<tr>
<th>REF</th>
<th>1 assortment</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Contents:</td>
</tr>
<tr>
<td>3 x</td>
<td>Screw with guide ridge for forward thrust double plate REF 600-001-00</td>
</tr>
<tr>
<td>1 x</td>
<td>Adapter, narrow REF 600-003-00</td>
</tr>
<tr>
<td>1 x</td>
<td>Adapter, wide REF 600-004-00</td>
</tr>
<tr>
<td>1 x</td>
<td>Locating template REF 600-005-00</td>
</tr>
</tbody>
</table>

Guide ridge for flexible forward thrust double plate system acc. to Schaneng
With double loop, wax coated.
Material: stainless steel
Length of guide ridge: 14.0 mm

<table>
<thead>
<tr>
<th>Version</th>
<th>REF</th>
<th>Quantity</th>
<th>REF</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>with palatal expansion screw</td>
<td>600-001-00</td>
<td>1 piece</td>
<td>600-001-30</td>
<td>10 pieces</td>
</tr>
<tr>
<td>without palatal expansion screw</td>
<td>600-002-00</td>
<td>1 piece</td>
<td>600-002-30</td>
<td>10 pieces</td>
</tr>
</tbody>
</table>

Guide ridge adapter for flexible forward thrust double plate system acc. to Schaneng
To produce the diagonal level in the mandibular.

<table>
<thead>
<tr>
<th>Adapter</th>
<th>Width</th>
<th>REF</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>narrow</td>
<td>14.0 mm</td>
<td>600-003-00</td>
<td>10 pieces</td>
</tr>
<tr>
<td>wide</td>
<td>18.0 mm</td>
<td>600-004-00</td>
<td>10 pieces</td>
</tr>
</tbody>
</table>

Locating template acc. to Schaneng
The locating template supplied with the system ensures that the guide ridge slides properly on the lingual plate at a 60° angle.
Material: stainless steel

<table>
<thead>
<tr>
<th>REF</th>
<th>1 piece</th>
</tr>
</thead>
<tbody>
<tr>
<td>600-005-00</td>
<td>1 piece</td>
</tr>
</tbody>
</table>
Expansion screws

Special expansion screws

Expansion screw for split activator
Material: Stainless steel
- with cone-shaped expansion screw holder
- strengthened guides

With expansion screw key straight, small – standard.

Indication: for separate expansion of maxilla and mandible

<table>
<thead>
<tr>
<th>Maximum expansion</th>
<th>4 x 1/4 turn</th>
<th>Directional arrow</th>
<th>REF</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.0 mm</td>
<td>= 0.8 mm</td>
<td>printed, blue-yellow</td>
<td>600-610-00</td>
<td>1 piece</td>
</tr>
<tr>
<td>7.0 mm</td>
<td>= 0.8 mm</td>
<td>printed, blue-yellow</td>
<td>600-610-30</td>
<td>10 pieces</td>
</tr>
</tbody>
</table>

Expansion screw for progenia activator acc. to Weise
Material: Stainless steel
- without expansion screw holder
- for fabricating horizontally split activators, which allow connection and shifting of both split planes
- stable connection of the maxillary plate with the mandibular plate using a strong U-shaped bar

With expansion screw key straight, small – standard.

Indication: for the treatment of Angle Class III (progenia), for distal shifting of the mandible

<table>
<thead>
<tr>
<th>Maximum expansion</th>
<th>4 x 1/4 turn</th>
<th>Directional arrow</th>
<th>REF</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.0 mm</td>
<td>= 0.9 mm</td>
<td>printed, blue-yellow</td>
<td>603-000-00</td>
<td>1 piece</td>
</tr>
</tbody>
</table>
### Piston spring screws assortment

**Material:** Stainless steel  
- delicate design  
- constant, elastic and easily controllable pressure on the tooth to be moved  
- a protrusion of up to 7 mm can be attained according to the progress of treatment using three different lengths of screws (4 / 6 / 8 mm)

**Indication:** for movement of individual teeth  
$4 \times \frac{1}{4}$ turn $= 0.35$ mm

<table>
<thead>
<tr>
<th>Reference</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>REF 609-004-00</td>
<td>Piston spring screw, length 4 mm</td>
<td>10 pieces</td>
</tr>
<tr>
<td>REF 609-006-00</td>
<td>Piston spring screw, length 6 mm</td>
<td>10 pieces</td>
</tr>
<tr>
<td>REF 609-008-00</td>
<td>Piston spring screw, length 8 mm</td>
<td>10 pieces</td>
</tr>
<tr>
<td>REF 609-100-00</td>
<td>Positioning screw</td>
<td>10 pieces</td>
</tr>
<tr>
<td>REF 609-200-30</td>
<td>Serrated housing nut</td>
<td>10 pieces</td>
</tr>
<tr>
<td>REF 609-300-00</td>
<td>Reamer</td>
<td>1</td>
</tr>
<tr>
<td>REF 609-400-00</td>
<td>Screwdriver</td>
<td>1</td>
</tr>
</tbody>
</table>

### Piston spring screw

**Material:** Stainless steel  
- delicate design  
- constant, elastic and easily controllable pressure on the tooth to be moved

**Indication:** for movement of individual teeth

<table>
<thead>
<tr>
<th>Length</th>
<th>$4 \times \frac{1}{4}$ turn</th>
<th>REF</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.0 mm</td>
<td>$= 0.35$ mm</td>
<td>609-004-00</td>
<td>10 pieces</td>
</tr>
<tr>
<td>6.0 mm</td>
<td>$= 0.35$ mm</td>
<td>609-006-00</td>
<td>10 pieces</td>
</tr>
<tr>
<td>8.0 mm</td>
<td>$= 0.35$ mm</td>
<td>609-008-00</td>
<td>10 pieces</td>
</tr>
</tbody>
</table>

### Positioning screw

**For piston spring screw.**  
To position the piston spring screw into the acrylic.  
**Material:** stainless steel

<table>
<thead>
<tr>
<th>Length</th>
<th>REF</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.0 mm</td>
<td>609-100-00</td>
<td>10 pieces</td>
</tr>
</tbody>
</table>

### Serrated housing nut

**For piston spring screw.**  
To position into acrylic or to weld onto wire elements.  
**Material:** stainless steel

<table>
<thead>
<tr>
<th>Length</th>
<th>REF</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.0 mm</td>
<td>609-200-30</td>
<td>10 pieces</td>
</tr>
</tbody>
</table>
Expansion screws

Special expansion screws

**Reamer**
For piston spring screw.
Material: stainless steel

**Screwdriver**
For piston spring screw.
To activate the piston spring screw.
Material: stainless steel

---

<table>
<thead>
<tr>
<th>REF 609-300-00</th>
<th>1 piece</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>REF 609-400-00</th>
<th>1 piece</th>
</tr>
</thead>
</table>
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
- solder-free
- reliable activation/deactivation of the screw with clearly perceptible click after a \( \frac{1}{4} \) turn
- break resistant retention legs and stable guidance throughout the entire expansion
- permanently laser marked arrow on the body of the screw indicates the opening direction and max. expansion
With safety key.
Assembly dimension: 12.9 mm
Screw body: 9.6 mm
Maximum expansion: 8.0 mm
4 x \( \frac{1}{4} \) turn: = 0.8 mm
Material: stainless steel

<table>
<thead>
<tr>
<th>Retention legs</th>
<th>REF</th>
<th>Quantity</th>
<th>REF</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>straight</td>
<td>602-836-10</td>
<td>1 piece</td>
<td>602-836-30</td>
<td>10 pieces</td>
</tr>
</tbody>
</table>

Variety click SP (small palate) Mini – 8
Monoguided special expansion screw with click feature to prevent unwanted reversing. 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
- solder-free
- reliable activation/deactivation of the screw with clearly perceptible click after a \( \frac{1}{4} \) turn
- break resistant retention legs and stable guidance throughout the entire expansion
- permanently laser marked arrow on the body of the screw indicates the opening direction and max. expansion
With safety key.
Assembly dimension: 12.9 mm
Screw body: 9.6 mm
Maximum expansion: 8.0 mm
4 x \( \frac{1}{4} \) turn: = 0.8 mm
Material: stainless steel

<table>
<thead>
<tr>
<th>Retention legs</th>
<th>REF</th>
<th>Quantity</th>
<th>REF</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>straight</td>
<td>602-838-10</td>
<td>1 piece</td>
<td>602-838-30</td>
<td>10 pieces</td>
</tr>
</tbody>
</table>

331
Variety expansion screws

**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
- solder-free
- reliable activation/deactivation of the screw with clearly perceptible click after a $\frac{1}{4}$ turn
- break resistant retention legs and stable guidance throughout the entire expansion
- permanently laser marked arrow on the body of the screw indicates the opening direction and max. expansion

With safety key.
Assembly dimension: 17.2 mm
Screw body: 9.6 mm
Maximum expansion: 12.0 mm
4 x $\frac{1}{4}$ turn: = 0.8 mm
Material: stainless steel

<table>
<thead>
<tr>
<th>Retention legs</th>
<th>REF</th>
<th>Quantity</th>
<th>REF</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>straight</td>
<td>602-837-10</td>
<td>1 piece</td>
<td>602-837-30</td>
<td>10 pieces</td>
</tr>
</tbody>
</table>

**Variety click SP (small palate) Maxi – 12**
Monoguided special expansion screw with click feature to prevent unwanted reversing. 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
- solder-free
- reliable activation/deactivation of the screw with clearly perceptible click after a $\frac{1}{4}$ turn
- break resistant retention legs and stable guidance throughout the entire expansion
- permanently laser marked arrow on the body of the screw indicates the opening direction and max. expansion

With safety key.
Assembly dimension: 17.2 mm
Screw body: 9.6 mm
Maximum expansion: 12.0 mm
4 x $\frac{1}{4}$ turn: = 0.8 mm
Material: stainless steel

<table>
<thead>
<tr>
<th>Retention legs</th>
<th>REF</th>
<th>Quantity</th>
<th>REF</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>straight</td>
<td>602-839-10</td>
<td>1 piece</td>
<td>602-839-30</td>
<td>10 pieces</td>
</tr>
</tbody>
</table>
**Variety 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.

- small dimensions with maximum expansion
- solder-free
- break resistant retention legs and stable guidance throughout the entire 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

With safety key.
Assembly dimension: 12.9 mm
Screw body: 9.6 mm
Maximum expansion: 8.0 mm
4 x ¼ turn: = 0.8 mm
Material: stainless steel

<table>
<thead>
<tr>
<th>Retention legs</th>
<th>REF</th>
<th>Quantity</th>
<th>REF</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>straight</td>
<td>602-815-10</td>
<td>1 piece</td>
<td>602-815-30</td>
<td>10 pieces</td>
</tr>
</tbody>
</table>

**Variety SP (small palate) Mini – 8**
Monoguided special expansion screw with click feature to prevent unwanted reversing. 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
- solder-free
- break resistant retention legs and stable guidance throughout the entire 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

With safety key.
Assembly dimension: 12.9 mm
Screw body: 9.6 mm
Maximum expansion: 8.0 mm
4 x ¼ turn: = 0.8 mm
Material: stainless steel

<table>
<thead>
<tr>
<th>Retention legs</th>
<th>REF</th>
<th>Quantity</th>
<th>REF</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>straight</td>
<td>602-819-10</td>
<td>1 piece</td>
<td>602-819-30</td>
<td>10 pieces</td>
</tr>
</tbody>
</table>
Variety 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.

- small dimensions with maximum expansion
- solder-free
- break resistant retention legs and stable guidance throughout the entire 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

With safety key.
Assembly dimension: 14.9 mm
Screw body: 9.6 mm
Maximum expansion: 12.0 mm
4 x ¼ turn: = 0.8 mm
Material: stainless steel

<table>
<thead>
<tr>
<th>Retention legs</th>
<th>REF</th>
<th>Quantity</th>
<th>REF</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>straight</td>
<td>602-806-10</td>
<td>1 piece</td>
<td>602-806-30</td>
<td>10 pieces</td>
</tr>
</tbody>
</table>

Variety SP (small palate) Maxi – 12
Monoguided special expansion screw with click feature to prevent unwanted reversing. 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
- solder-free
- break resistant retention legs and stable guidance throughout the entire expansion
- the integrated spindle friction prevents unwanted reversing
- permanently laser marked arrow on the body of the screw indicates the opening direction
- screw can be tied down once desired expansion has been reached

With safety key.
Assembly dimension: 14.9 mm
Screw body: 9.6 mm
Maximum expansion: 12.0 mm
4 x ¼ turn: = 0.8 mm
Material: stainless steel

<table>
<thead>
<tr>
<th>Retention legs</th>
<th>REF</th>
<th>Quantity</th>
<th>REF</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>straight</td>
<td>602-809-10</td>
<td>1 piece</td>
<td>602-809-30</td>
<td>10 pieces</td>
</tr>
</tbody>
</table>

**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.

With safety key.

Screw body: 14.4 mm

Maximum expansion: 12.0 mm

4 x ¼ turn: = 0.8 mm

Material: titanium

<table>
<thead>
<tr>
<th>Retention legs</th>
<th>REF</th>
<th>Quantity</th>
<th>REF</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>straight</td>
<td>602-810-10</td>
<td>1 piece</td>
<td>602-810-30</td>
<td>10 pieces</td>
</tr>
</tbody>
</table>

**rematitan® straight wire**

Titanium grade 1

Norm: DIN 17850

For laser welding.

Recommended as reinforcing wire for fixed titanium RPE appliances (Titan hyrax® Maxi – 12).

<table>
<thead>
<tr>
<th>ø</th>
<th>Length</th>
<th>REF</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.00 mm / 39</td>
<td>each 100 mm</td>
<td>528-041-00</td>
<td>10 pieces</td>
</tr>
<tr>
<td>1.20 mm / 47</td>
<td>each 100 mm</td>
<td>528-042-00</td>
<td>10 pieces</td>
</tr>
</tbody>
</table>
Expansion screws

RPE screws

**hyrax® click Mini – 7**
RPE screw with the 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
- built-in stops prevent the screws from coming apart once maximum expansion has been obtained
- solder-free
- 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
- minimal dimensions with maximum expansion range
- permanently laser marked arrow on the body of the screw indicates the opening direction and max. expansion

With safety key.
Screw body: 9.8 mm
Maximum expansion: 7.0 mm
4 x 1/4 turn: = 0.8 mm
Material: stainless steel

<table>
<thead>
<tr>
<th>Retention legs</th>
<th>REF</th>
<th>Quantity</th>
<th>REF</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>straight</td>
<td>602-830-10</td>
<td>1 piece</td>
<td>602-830-30</td>
<td>10 pieces</td>
</tr>
<tr>
<td>angulated</td>
<td>602-831-10</td>
<td>1 piece</td>
<td>602-831-30</td>
<td>10 pieces</td>
</tr>
</tbody>
</table>

**hyrax® click Medium – 10**
RPE screw with the 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
- built-in stops prevent the screws from coming apart once maximum expansion has been obtained
- solder-free
- 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
- minimal dimensions with maximum expansion range
- permanently laser marked arrow on the body of the screw indicates the opening direction and max. expansion

With safety key.
Screw body: 12.8 mm
Maximum expansion: 10.0 mm
4 x 1/4 turn: = 0.8 mm
Material: stainless steel

<table>
<thead>
<tr>
<th>Retention legs</th>
<th>REF</th>
<th>Quantity</th>
<th>REF</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>straight</td>
<td>602-832-10</td>
<td>1 piece</td>
<td>602-832-30</td>
<td>10 pieces</td>
</tr>
<tr>
<td>angulated</td>
<td>602-833-10</td>
<td>1 piece</td>
<td>602-833-30</td>
<td>10 pieces</td>
</tr>
</tbody>
</table>
**hyrax® click Maxi – 12**

RPE screw with the 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
- built-in stops prevent the screws from coming apart once maximum expansion has been obtained
- solder-free
- 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
- minimal dimensions with maximum expansion range
- permanently laser marked arrow on the body of the screw indicates the opening direction and max. expansion

With safety key.

Screw body: 14.8 mm

Maximum expansion: 12.0 mm

4 x 1/4 turn: = 0.8 mm

Material: stainless steel

<table>
<thead>
<tr>
<th>Retention legs</th>
<th>REF</th>
<th>Quantity</th>
<th>REF</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>straight</td>
<td>602-834-10</td>
<td>1 piece</td>
<td>602-834-30</td>
<td>10 pieces</td>
</tr>
<tr>
<td>angulated</td>
<td>602-835-10</td>
<td>1 piece</td>
<td>602-835-30</td>
<td>10 pieces</td>
</tr>
</tbody>
</table>

With safety key.

Screw body: 14.8 mm

Maximum expansion: 12.0 mm

4 x 1/4 turn: = 0.8 mm

Material: stainless steel
Expansion screws

**RPE screws**

**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
• solder-free
• break resistant retention legs, stable guidance throughout complete 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

With safety key.
Screw body: 9.4 mm
Maximum expansion: 7.0 mm
4 x 1/4 turn: = 0.8 mm
Material: stainless steel

<table>
<thead>
<tr>
<th>Retention legs</th>
<th>REF</th>
<th>Quantity</th>
<th>REF</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>straight</td>
<td>602-800-10</td>
<td>1 piece</td>
<td>602-800-30</td>
<td>10 pieces</td>
</tr>
<tr>
<td>angulated</td>
<td>602-801-10</td>
<td>1 piece</td>
<td>602-801-30</td>
<td>10 pieces</td>
</tr>
</tbody>
</table>

**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
• solder-free
• break resistant retention legs, stable guidance throughout complete 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

With safety key.
Screw body: 12.4 mm
Maximum expansion: 10.0 mm
4 x 1/4 turn: = 0.8 mm
Material: stainless steel

<table>
<thead>
<tr>
<th>Retention legs</th>
<th>REF</th>
<th>Quantity</th>
<th>REF</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>straight</td>
<td>602-808-10</td>
<td>1 piece</td>
<td>602-808-30</td>
<td>10 pieces</td>
</tr>
</tbody>
</table>
hyrax® Maxi – 12
RPE screw

For rapid palatal expansion by means of fixed appliances.
• the retention legs can be angled near to the screw body
• built-in stops prevent the screws from coming apart once maximum expansion has been obtained
• solder-free
• break resistant retention legs, stable guidance throughout complete 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

With safety key.
Screw body: 14.4 mm
Maximum expansion: 12.0 mm
4 x ⅘ turn: = 0.8 mm
Material: stainless steel

<table>
<thead>
<tr>
<th>Retention legs</th>
<th>REF</th>
<th>Quantity</th>
<th>REF</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>straight</td>
<td>602-811-10</td>
<td>1 piece</td>
<td>602-811-30</td>
<td>10 pieces</td>
</tr>
<tr>
<td>angulated</td>
<td>602-812-10</td>
<td>1 piece</td>
<td>602-812-30</td>
<td>10 pieces</td>
</tr>
</tbody>
</table>

CE 0483
Expansion screws

Accessories

**Arrow to indicate the opening direction**
For expansion screws.

<table>
<thead>
<tr>
<th>Color</th>
<th>REF</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>yellow</td>
<td>611-130-00</td>
<td>50 pieces</td>
</tr>
<tr>
<td>white</td>
<td>611-131-00</td>
<td>50 pieces</td>
</tr>
<tr>
<td>pearl-blue</td>
<td>611-132-00</td>
<td>50 pieces</td>
</tr>
</tbody>
</table>

**Universal bending key**
Easy bending of the retention legs of all hyrax® and Variety screws without using any additional pliers (leverage principle). Material: stainless steel

<table>
<thead>
<tr>
<th>REF</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>611-122-00</td>
<td>1 piece</td>
</tr>
</tbody>
</table>

**Safety key**
Can be used with all Dentaurum hyrax® and Variety screws. For safe intra-oral activation of the expansion screws in fixed appliances.

<table>
<thead>
<tr>
<th>REF</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>611-120-01</td>
<td>10 pieces</td>
</tr>
</tbody>
</table>

**Expansion screw key**
*straight, small – standard*
Can be used with all Dentaurum expansion screws. To activate all expansion screws in removable appliances (Outside of the mouth). Material: stainless steel

<table>
<thead>
<tr>
<th>REF</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>611-115-00</td>
<td>1 piece</td>
</tr>
<tr>
<td>611-115-30</td>
<td>10 pieces</td>
</tr>
<tr>
<td>611-115-60</td>
<td>100 pieces</td>
</tr>
</tbody>
</table>

**Expansion screw key**
*large – with elongated handle*
Can be used with all Dentaurum expansion screws. To activate all expansion screws in removable appliances (Outside of the mouth). Material: stainless steel

<table>
<thead>
<tr>
<th>REF</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>611-116-00</td>
<td>1 piece</td>
</tr>
</tbody>
</table>

**Expansion screw sample kit**
Includes a selection of expansion screws from Dentaurum’s large range of expansion screws. Filled with 27 expansion screws that are also available separately, 2 expansion screw keys and 1 universal bending key. 1 set = 30 pieces.
Wedge gauge
For checking the gap width on palatal expanders.

| REF 043-720-00 | 1 piece |

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