<table>
<thead>
<tr>
<th>Expansion screws</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard expansion screws</td>
<td>312</td>
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<td>Special expansion screws</td>
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<td>333</td>
</tr>
</tbody>
</table>
Expansion screws.

Perfect in form, function and finish.

shop.dentaurum.com
A wide selection 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. The built-in stops prevent the screws from coming apart. Precision thread friction and the built-in screw lock mechanism enable precise opening of the screw without unwanted “turning back”. Strong and stable screw construction due to high precision and excellent quality. 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 elastic system.

hyrax®
Special expansion screw for palatal expansion.

hyrax® click
The RPE screw without unwanted turn back.

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

Variety
The versatile, multi functional special expansion screw.
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 transversal expansion and distalization in the lower jaw or for especially narrow upper jaws

<table>
<thead>
<tr>
<th>Maximum expansion</th>
<th>4 x ⅛ 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 transversal expansion and distalization in the lower jaw or for especially narrow upper jaws

<table>
<thead>
<tr>
<th>Maximum expansion</th>
<th>4 x ⅛ 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>600-320-10</td>
<td>1 piece</td>
</tr>
<tr>
<td>6.5 mm</td>
<td>= 0.7 mm</td>
<td>Plastic, white</td>
<td>600-320-30</td>
<td>10 pieces</td>
</tr>
<tr>
<td>6.5 mm</td>
<td>= 0.7 mm</td>
<td>Plastic, white</td>
<td>600-320-60</td>
<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 transversal expansion and distalization in upper and lower jaw

<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, 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>
<td>7.5 mm</td>
<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 transversal expansion and distalization in upper and lower jaw

<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, neon yellow</td>
<td>600-321-10</td>
<td>1 piece</td>
</tr>
<tr>
<td>7.5 mm</td>
<td>= 0.8 mm</td>
<td>Plastic, neon yellow</td>
<td>600-321-30</td>
<td>10 pieces</td>
</tr>
<tr>
<td>7.5 mm</td>
<td>= 0.8 mm</td>
<td>Plastic, neon yellow</td>
<td>600-321-60</td>
<td>100 pieces</td>
</tr>
</tbody>
</table>

NEW

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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 transversal expansion in the upper jaw**

<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>600-302-10</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 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 transversal expansion in the upper jaw and 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>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 transversal expansion and distalization in upper and lower jaw

<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>

**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 transversal expansion of narrow maxillas and as activation screw for 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>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>
**Expansion screws**

**Special 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 x 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 x 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>
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 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>
<tr>
<td>6.0 mm</td>
<td>= 0.4 mm</td>
<td>Plastic, neon yellow</td>
<td>600-500-30</td>
<td>10 pieces</td>
</tr>
<tr>
<td>6.0 mm</td>
<td>= 0.4 mm</td>
<td>Plastic, neon yellow</td>
<td>600-500-60</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 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>
Expansion screws

Special expansion screws

**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>
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 ¼ 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 transversal 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>602-605-10</td>
<td>1 piece</td>
</tr>
</tbody>
</table>
Expansion screws

Special expansion screws

**Three dimensional screw acc. to Bertoni – two movements (Type B)**

Material: Stainless steel
- strengthened guides
- two independently controlled movements (symmetrical transversal expansion)
- same total expansion per segment

With expansion screw key straight, small – standard.

*Indication: for combined transversal 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>602-606-10</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 transversal expansion)
- same total expansion per segment

With expansion screw key straight, small – standard.

*Indication: for combined transversal 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>602-604-10</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 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>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 transversal expansion of the mandibular front

<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>= 0.8 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>
Expansion screws

Special expansion screws

“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 (distocclusion), for advancement of the mandible

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 mandible.

<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
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 upper and lower jaws

<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>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 ¼ 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>
Expansion screws

Special expansion screws

**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 x 1/4 turn = 0.35 mm

<table>
<thead>
<tr>
<th>Length</th>
<th>4 x 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>

**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 x 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 screws**

For piston spring screws.
To position the piston spring screws 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 screws.
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 screws.
Material: stainless steel

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

Screw driver
For piston spring screws.
To activate the piston spring screws.
Material: stainless steel

<table>
<thead>
<tr>
<th>REF 609-400-00</th>
<th>1 piece</th>
</tr>
</thead>
</table>
Variety expansion screws

Variety Mini – 8
Monoguided special expansion screw. 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. For early palatal expansion as well.
- small dimensions with maximum expansion
- solder free
- break resistant retention legs and stable guidance throughout the entire expansion
- the integrated spindle friction prevents unwanted turning back
- 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: 9.6 mm
Maximum expansion: 8.0 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>602-815-10</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. 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. For early palatal expansion as well.
- 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 turning back
- 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: 9.6 mm
Maximum expansion: 8.0 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>602-819-10</td>
<td>1 piece</td>
<td>602-819-30</td>
<td>10 pieces</td>
</tr>
</tbody>
</table>
Variety Maxi – 12
Monoguided special expansion screw. 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. For early palatal expansion as well.
• small dimensions with maximum expansion
• solder free
• break resistant retention legs and stable guidance throughout the entire expansion
• the integrated spindle friction prevents unwanted turning back
• 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: 9.6 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. 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. For early palatal expansion as well.
• 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 turning back
• 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: 9.6 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>
Expansion screws

RPE screws

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, laser-welded titanium bases (REF 799-210-00) 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 1/4 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>

Titanium direct bond pads

Anatomically contoured.
The titanium bonding bases are laser structured for the direct bonding technique. Specifically for the direct bonding of RPE appliances in conjunction with the Titan hyrax® Maxi – 12.
Dimensions (H x W): 3.8 x 8.3 mm

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>
**hyrax® click Mini – 7**

RPE screw with the “Click” feature to prevent unwanted turning back

*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 $\frac{1}{4}$ turn
- no accidental turning back 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 $\frac{1}{4}$ 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>602-830-10</td>
<td>1 piece</td>
<td>602-830-30</td>
<td>10 pieces</td>
</tr>
<tr>
<td>bent</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 turning back

*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 $\frac{1}{4}$ turn
- no accidental turning back 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 $\frac{1}{4}$ 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>602-832-10</td>
<td>1 piece</td>
<td>602-832-30</td>
<td>10 pieces</td>
</tr>
<tr>
<td>bent</td>
<td>602-833-10</td>
<td>1 piece</td>
<td>602-833-30</td>
<td>10 pieces</td>
</tr>
</tbody>
</table>

---

---
RPE screws

**hyrax® click Maxi – 12**
RPE screw with the “Click” feature to prevent unwanted turning back
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 $\frac{1}{4}$ turn
- no accidental turning back 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 $\frac{1}{4}$ 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>602-834-10</td>
<td>1 piece</td>
<td>602-834-30</td>
<td>10 pieces</td>
</tr>
<tr>
<td>bent</td>
<td>602-835-10</td>
<td>1 piece</td>
<td>602-835-30</td>
<td>10 pieces</td>
</tr>
</tbody>
</table>

---

![Diagram](image)
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 turning back
• 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 ⅛ 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>bent</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 turning back
• 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 ⅛ 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 turning back
- 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 \(\frac{1}{4}\) turn: \(\approx 0.8\) 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>bent</td>
<td>602-812-10</td>
<td>1 piece</td>
<td>602-812-30</td>
<td>10 pieces</td>
</tr>
</tbody>
</table>

---

**CE 0483**

![Diagram](image-url)
Expansion screws

**Accessories**

**Arrows 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 intraoral 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**
Filled with 32 expansion screws that are also available separately, 2 expansion screw keys and 1 universal bending key. 1 set = 35 pieces.