Orthodontic Acrylics ................................................................. Page 320
Accessories .................................................................................. Page 325
Orthodontic Acrylics

Brings more color to life
The extraordinary Orthodontic Acrylic System

Vibrant colors – Fascinating Varieties

Orthocryl®

especially suitable for the “Salt and Pepper” technique

Minimal Material Use

It is the excellent stability which makes Orthocryl® especially suitable for the salt and pepper technique. The special sprinkle and spray nozzles make processing easy for the user.

Orthocryl EQ

Orthocryl EQ - especially suitable for the “Doughing” technique

Excellent sculpting

It is the excellent flowing characteristics and long processing times which make Orthocryl® EQ especially suitable for the doughing technique.
Long processing times

**Stress free**

The processing times of Orthocryl® have been set so that the technician can work comfortably without feeling rushed and under time pressure. Better and more effective working results can be achieved quickly through this advantage in every day laboratory life.

Excellent shrinkage characteristics

**Best possible fit**

It was possible to reduce the shrinkage of the Orthocryl® 2-component cold cured acrylic (powder = polymer, liquid = monomer) to an absolute minimum. Therefore, Orthocryl® guarantees an unbeatably accurate fit.

Many different colors and effects

**Endless creativity**

The Orthocryl® Acrylic colors range from classic shades to modern, funky neon colors. There are various glitter effects which can be used and attractive, novel picture designs. You can let your creativity run wild and provide your patients with a unique and individualized orthodontic appliance they will enjoy.

Scientifically tested

**Safety for user and patient**

Orthocryl® cold cured acrylic resins have been extensively tested, both in a polymerized form as used by the patient and the grinding particles generated during processing. Impressive results proved that this orthodontic acrylic is biologically safe. Orthocryl® cold cured acrylic resins are non-toxic, do not cause irritation of the mucous membrane and do not contain any mutagenic properties. They have excellent biocompatible qualities.

Consistant top quality

**Reliable results**

The many years of manufacturing experience and the very careful, unconditional selection of raw materials are fact enough to reassure the technician he can always depend on the top quality certificate *Made in Germany.*
Orthocryl® Assortment
Consisting of:
- 1 kg Orthocryl®-Powder (polymer), clear REF 160-112-00
- 500 ml Orthocryl®-Liquid (monomer), transparent pink REF 161-300-00
- 1000 ml Separating Medium REF 162-800-00
- 2 x Spray Bottle REF 162-100-00
- 1 x Measuring Cup REF 162-200-00
- 1 x Funnel REF 162-600-00
- 1 x Spray Nozzle for Powder (polymer) REF 162-751-00
- 1 x Spray Nozzle for Liquid (monomer) REF 097-003-50 (10 pieces)

Orthocryl®
Small pack powder (polymer) and liquid (monomer)
Color: transparent pink

Orthocryl® Assortment
"The multicolored palette"
Consisting of:
1 kg Orthocryl®-Powder (polymer), clear REF 160-112-00 and 4 x 250 ml differently colored liquids (monomers):
- 1 x REF 161-127-00, red
- 1 x REF 161-128-00, green
- 1 x REF 161-129-00, blue
- 1 x REF 161-130-00, yellow
- 1 x REF 162-600-00 Funnel

Orthodontic Acrylics
Orthocryl® Neon Assortment

Brightly colored orthodontic acrylics

Newly developed Orthocryl®-Powder (polymer) for producing brightly colored orthodontic appliances. Easy processing, using both the doughing and the salt-and-pepper techniques in conjunction with the clear Orthocryl®-Liquid (monomer) REF 161-100-00 / 161-150-00. Disco glitter can also be used to enhance the effect of the colors.

Note:
When using the salt-and-pepper technique, the colors appear to have a marbled effect, especially green and blue. By using the doughing technique, the colors are mixed thoroughly resulting in more even and brighter colors.

Contents of Assortment:
- 1 x neon orange, 200 g REF 160-006-00
- 1 x neon yellow, 200 g REF 160-007-00
- 1 x neon blue, 200 g REF 160-008-00
- 1 x neon hot pink, 200 g REF 160-009-00
- 1 x neon green, 200 g REF 160-010-00
- 1 x Orthocryl®-Liquid (monomer), 500 ml REF 161-100-00
- 6 x Empty Spray Bottles REF 162-100-00

Orthocryl®

Powder (polymer)

Cold cured acrylic resin permits the simple and economical fabrication of orthodontic appliances. Especially suited for the spray-on (salt+pepper) technique. Also, very suitable for the doughing technique.

Color: clear

Orthocryl® EQ

Powder (polymer)

Cold cured acrylic resin permits the simple and economical fabrication of orthodontic appliances. Especially suited for the doughing technique. Also, very suitable for the spray-on (salt+pepper) technique.

Color: clear
Orthocryl® Neon

Brightly colored orthodontic acrylis
Powder (Polymer) - Single Colors

Newly developed Orthocryl®-Powder (polymer) for producing brightly colored orthodontic appliances. Easy processing, using both the doughing and the salt-and-pepper techniques in conjunction with the clear Orthocryl®-Liquid (monomer) REF 161-100-00 / 161-150-00. Disco glitter can also be used to enhance the effect of the colors.

Note:
When using the salt-and-pepper technique, the colors appear to have a marbled effect, especially green and blue. By using the doughing technique, the colors are mixed thoroughly resulting in more even and brighter colors.

Color: neon orange

Color: neon yellow

Color: neon blue

Color: neon hot pink

Color: neon green
Orthodontic Acrylics

Orthocryl®

Liquid (monomer)

Cold cured acrylic resin permits the simple and economical fabrication of orthodontic appliances.

Color: clear

<table>
<thead>
<tr>
<th>Code</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>161-100-00</td>
<td>500 ml</td>
</tr>
<tr>
<td>161-150-00</td>
<td>1000 ml</td>
</tr>
</tbody>
</table>

Color: transparent pink

<table>
<thead>
<tr>
<th>Code</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>161-300-00</td>
<td>500 ml</td>
</tr>
<tr>
<td>161-350-00</td>
<td>1000 ml</td>
</tr>
</tbody>
</table>

Color: red

<table>
<thead>
<tr>
<th>Code</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>161-127-00</td>
<td>250 ml</td>
</tr>
</tbody>
</table>

Color: green

<table>
<thead>
<tr>
<th>Code</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>161-128-00</td>
<td>250 ml</td>
</tr>
</tbody>
</table>

Color: blue

<table>
<thead>
<tr>
<th>Code</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>161-129-00</td>
<td>250 ml</td>
</tr>
</tbody>
</table>

Color: yellow

<table>
<thead>
<tr>
<th>Code</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>161-130-00</td>
<td>150 ml</td>
</tr>
</tbody>
</table>
Orthodontic Acrylics

Orthocryl®

Color Concentrate
For tinting clear Orthocryl® Liquid (monomer) REF 161-100-00 / 161-150-00.
Complete with one dispensing pipette
Mixing ratio
Color Concentrate : Orthocryl® Liquid (monomer) clear
approximately 1:50 to 1:10
Color: red

Color: green

Color: blue

Color: yellow

Note:
A true black color cannot be achieved.
Color: black-eggplant
Orthocryl® Disco Glitter

For coloring the removable appliance. The glitter is simply added as desired to the Orthocryl®-Powder (polymer) to give the appliance an attractive lustre. No change in the processing of Orthocryl® is necessary. The appliances can be finished and polished without difficulty.

Color: iris

| 161-605-00 | 50 g |
| Color: red |
| 161-606-00 | 50 g |
| Color: blue |
| 161-607-00 | 50 g |
| Color: silver |
| 161-608-00 | 50 g |
| Color: gold |
| 161-609-00 | 50 g |
| Color: mother of pearl |
| 161-611-00 | 50 g |
# Novel Designs Assortment

For placing in orthodontic appliances. Life-like and comical designs that are incorporated into the Orthocryl®-acrylic, giving every appliance the personal touch.

**Availability:**
Assortment consists of 20 individual designs = 400 pieces, plus tweezers.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Pieces</th>
</tr>
</thead>
<tbody>
<tr>
<td>160-100-00</td>
<td>1 Assortment</td>
<td></td>
</tr>
</tbody>
</table>

---

# Novel Designs

For placing in orthodontic appliances. Life-like and comical designs that are incorporated into the Orthocryl®-acrylic, giving every appliance the personal touch.

1. **Design: Crocodile**

2. **Design: Frog**

3. **Design: Parrot**

4. **Design: Ladybug**

5. **Design: Dragon**

6. **Design: Fish**

7. **Design: Formula I (Indy Racecar)**

8. **Design: Elephant**
**Novel Designs**
For placing in orthodontic appliances.
Life-like and comical designs that are incorporated into the Orthocryl®-acrylic, giving every appliance the personal touch.

9. Design: Heart

<table>
<thead>
<tr>
<th>Design</th>
<th>Code</th>
<th>Pieces</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heart</td>
<td>160-100-11</td>
<td>20 pieces</td>
</tr>
</tbody>
</table>

10. Design: Duck

<table>
<thead>
<tr>
<th>Design</th>
<th>Code</th>
<th>Pieces</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duck</td>
<td>160-100-12</td>
<td>20 pieces</td>
</tr>
</tbody>
</table>

11. Design: Dinosaur

<table>
<thead>
<tr>
<th>Design</th>
<th>Code</th>
<th>Pieces</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dinosaur</td>
<td>160-100-13</td>
<td>20 pieces</td>
</tr>
</tbody>
</table>

12. Design: Motorcycle

<table>
<thead>
<tr>
<th>Design</th>
<th>Code</th>
<th>Pieces</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motorcycle</td>
<td>160-100-14</td>
<td>20 pieces</td>
</tr>
</tbody>
</table>

13. Design: Snail

<table>
<thead>
<tr>
<th>Design</th>
<th>Code</th>
<th>Pieces</th>
</tr>
</thead>
<tbody>
<tr>
<td>Snail</td>
<td>160-100-15</td>
<td>20 pieces</td>
</tr>
</tbody>
</table>

14. Design: Snail

<table>
<thead>
<tr>
<th>Design</th>
<th>Code</th>
<th>Pieces</th>
</tr>
</thead>
<tbody>
<tr>
<td>Snail</td>
<td>160-100-16</td>
<td>20 pieces</td>
</tr>
</tbody>
</table>

15. Design: Mushrooms

<table>
<thead>
<tr>
<th>Design</th>
<th>Code</th>
<th>Pieces</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mushrooms</td>
<td>160-100-18</td>
<td>20 pieces</td>
</tr>
</tbody>
</table>

16. Design: Car

<table>
<thead>
<tr>
<th>Design</th>
<th>Code</th>
<th>Pieces</th>
</tr>
</thead>
<tbody>
<tr>
<td>Car</td>
<td>160-100-19</td>
<td>20 pieces</td>
</tr>
</tbody>
</table>

17. Design: Raven

<table>
<thead>
<tr>
<th>Design</th>
<th>Code</th>
<th>Pieces</th>
</tr>
</thead>
<tbody>
<tr>
<td>Raven</td>
<td>160-100-27</td>
<td>20 pieces</td>
</tr>
</tbody>
</table>
Orthodontic Acrylics

Accessories

KFO-Einlegemotive
For placing in orthodontic appliances. Life-like and comical designs that are incorporated into the Orthocryl®-acrylic, giving every appliance the personal touch.

18. Design: Devil

19. Design: Soccer Player

20. Design: Mouse

21. Design: Spider

22. Design: Graffiti

23. Design: Beaver

24. Design: Dolphin

25. Design: Horse

26. Design: Football
This design contains two different sizes.

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Design</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>160-100-29</td>
<td>Devil</td>
<td>20 pieces</td>
</tr>
<tr>
<td>160-100-31</td>
<td>Soccer Player</td>
<td>20 pieces</td>
</tr>
<tr>
<td>160-100-32</td>
<td>Mouse</td>
<td>20 pieces</td>
</tr>
<tr>
<td>160-100-28</td>
<td>Spider</td>
<td>20 pieces</td>
</tr>
<tr>
<td>160-100-30</td>
<td>Graffiti</td>
<td>20 pieces</td>
</tr>
<tr>
<td>160-100-33</td>
<td>Beaver</td>
<td>20 pieces</td>
</tr>
<tr>
<td>160-100-34</td>
<td>Dolphin</td>
<td>20 pieces</td>
</tr>
<tr>
<td>160-100-35</td>
<td>Horse</td>
<td>20 pieces</td>
</tr>
<tr>
<td>160-100-36</td>
<td>Football</td>
<td>2 x 10 pieces</td>
</tr>
</tbody>
</table>
### Orthodontic Acrylics

## Accessories

<table>
<thead>
<tr>
<th>Item</th>
<th>Code</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Spray Bottle</strong></td>
<td>162-100-00</td>
<td>1 piece</td>
</tr>
<tr>
<td>For Powder (polymer) and Liquid (monomer)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>100 ml.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Spray Nozzle for Orthocryl®- Liquid (Monomer)</strong></td>
<td>097-003-50</td>
<td>10 pieces</td>
</tr>
<tr>
<td>ø 0.4 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Spray Nozzle for Orthocryl®- Powder (Polymer)</strong></td>
<td>162-751-00</td>
<td>1 piece</td>
</tr>
<tr>
<td><strong>Mixing Bowls made of Silicon</strong></td>
<td>162-501-00</td>
<td>3 pieces</td>
</tr>
<tr>
<td>Flexible, with suction base.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>For all mixing jobs in the office and laboratory. Do not use with silicone materials.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td>25 ml</td>
<td>162-502-00</td>
<td>1 piece</td>
</tr>
<tr>
<td>75 ml</td>
<td>162-503-00</td>
<td>1 piece</td>
</tr>
<tr>
<td><strong>Funnel</strong></td>
<td>162-600-00</td>
<td>1 piece</td>
</tr>
<tr>
<td><strong>Measuring Beaker</strong></td>
<td>162-200-00</td>
<td>1 piece</td>
</tr>
<tr>
<td><strong>Dispensing Pipette</strong></td>
<td>162-101-00</td>
<td>10 pieces</td>
</tr>
<tr>
<td>For Orthocryl® color concentrates.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Accessories

### Separating Medium
- For Plaster Models. Special separating medium for orthodontics.
- **Color:** pink
- **Code:** 162-800-00
- **Volume:** 1,000 ml

### Modeling Wax
- For construction bites, etc. Well adaptable, very easy to model.
- Melting point: 64 °C / 172 °F
- **Size:** 80 x 175 mm
- **Thickness:** 1.5 mm
- **Color:** pink
- **Code:** 119-150-00
- **Weight:** 500 g

### Thermo-wax®
- Heat resistant blocking wax.
- For covering springs used in the Orthocryl®-Technique. Prevents acrylic from becoming milky in appearance.
- Melting Point: 96 °C / 205 °F
- **Color:** pink
- **Code:** 120-170-00
- **Weight:** 50 g

### Sticky Wax
- Melting Point: 72 °C / 162 °F
- **Color:** red
- **Code:** 122-300-00
- **Weight:** 60 g

### Burs for Acrylics, with plain longitudinal cut
- **For orthodontic use.**
- Cutting properties, suitable for acrylics.
- Maximum speed: 15,000 Rpm
- Conical shape, pointed tip.
- **Shaft ø 2.35 mm / 3/32”**
- **Code:** 180-201-00
- **Quantity:** 1 piece

- **Conical shape, round tip.**
- **Shaft ø 2.35 mm / 3/32”**
- **Code:** 180-202-00
- **Quantity:** 1 piece

- **Pear shaped, medium.**
- **Shaft ø 2.35 mm / 3/32”**
- **Code:** 180-304-00
- **Quantity:** 1 piece
Burs for Acrylics, with plain longitudinal cut
For orthodontic use. Cutting properties, suitable for acrylics. Maximum speed: 15,000 Rpm
Pear shaped, large.
Shaft ø 2.35 mm / 3/32"

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>180-305-00</td>
<td>1 piece</td>
</tr>
</tbody>
</table>

Plaster and Acrylic Bur, with cross toothing cut, extra coarse
For orthodontic use. High precision milled. Best cutting properties, suitable for plaster. Maximum speed 30,000 Rpm. Recommended speed 15,000 Rpm. Conical shape, large, round tip.
Shaft ø 2.35 mm / 3/32"

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>180-308-00</td>
<td>1 piece</td>
</tr>
</tbody>
</table>

Super Hard Burs and Trimmers, with cross toothing cut, coarse
For orthodontic use. High precision milled. Best cutting properties, suitable for acrylics. Recommended speed 20,000 - 25,000 Rpm. Cylindrical - long, flat tip.
Shaft ø 2.35 mm / 3/32"

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>123-580-00</td>
<td>1 piece</td>
</tr>
</tbody>
</table>

Cylindrical - long, round tip.
Shaft ø 2.35 mm / 3/32"

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>123-581-00</td>
<td>1 piece</td>
</tr>
</tbody>
</table>

Cylindrical - long, pointed tip.
Shaft ø 2.35 mm / 3/32"

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>123-582-00</td>
<td>1 piece</td>
</tr>
</tbody>
</table>

Round top - ø 2.1 mm.
Shaft ø 2.35 mm / 3/32"

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>123-583-00</td>
<td>1 piece</td>
</tr>
</tbody>
</table>

Pear shaped, large.
Shaft ø 2.35 mm / 3/32"

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>123-584-00</td>
<td>1 piece</td>
</tr>
</tbody>
</table>
Orthodontic Acrylics

Accessories

### Super Hard Burs and Trimmers, with cross toothing cut, coarse

For orthodontic use. High precision milled. Best cutting properties, suitable for acrylics. Recommended speed 20,000 - 25,000 Rpm. Conical shape, pointed, long.

**Shaft ø 2.35 mm / 3/32”**

<table>
<thead>
<tr>
<th>Code</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>123-585-00</td>
<td>1 piece</td>
</tr>
</tbody>
</table>

### Super Hard Burs and Trimmers, with cross toothing cut, extra coarse

For orthodontic use. High precision milled. Best cutting properties, suitable for acrylics and plaster. Recommended speed 20,000 - 25,000 Rpm. Conical shape, reversed, large, round tip.

**Shaft ø 2.35 mm / 3/32”**

<table>
<thead>
<tr>
<th>Code</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>123-594-00</td>
<td>1 piece</td>
</tr>
</tbody>
</table>

### Super Hard Burs and Trimmers, extra coarse, single cut

For orthodontic use. High precision milled. Best cutting properties, suitable for acrylics. Recommended speed 20,000 - 25,000 Rpm. Pear shaped, large.

**Shaft ø 2.35 mm / 3/32”**

<table>
<thead>
<tr>
<th>Code</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>123-597-00</td>
<td>1 piece</td>
</tr>
</tbody>
</table>

### Saw

For orthodontic appliance construction. Small saw with replaceable blades. Saw and 3 replaceable blades.

<table>
<thead>
<tr>
<th>Code</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>180-702-00</td>
<td>1 piece</td>
</tr>
</tbody>
</table>

### Conical shape, large, round tip.

**Shaft ø 2.35 mm / 3/32”**

<table>
<thead>
<tr>
<th>Code</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>123-596-00</td>
<td>1 piece</td>
</tr>
</tbody>
</table>

### Conical shape, long, round tip.

**Shaft ø 2.35 mm / 3/32”**

<table>
<thead>
<tr>
<th>Code</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>123-598-00</td>
<td>1 piece</td>
</tr>
</tbody>
</table>
## Saw Blades
For Saw REF 180-702-00.
Length: 70 mm

<table>
<thead>
<tr>
<th>Code</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>180-703-00</td>
<td>5 pieces</td>
</tr>
</tbody>
</table>

## Polishing Brush
For dental lathe.
ø 50 mm

<table>
<thead>
<tr>
<th>Code</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>141-700-00</td>
<td>1 piece</td>
</tr>
<tr>
<td>141-700-10</td>
<td>10 pieces</td>
</tr>
</tbody>
</table>

## Polishing Brush
Combination Chungkin bristles / linen.
ø 80 mm

<table>
<thead>
<tr>
<th>Code</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>141-710-00</td>
<td>1 piece</td>
</tr>
</tbody>
</table>

## Polishing Brush
Double row, short Chungkin bristles.
ø 60 mm

<table>
<thead>
<tr>
<th>Code</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>141-711-00</td>
<td>10 pieces</td>
</tr>
</tbody>
</table>

## Polishing Brush
Triple row, short Chungkin bristles.
ø 60 mm

<table>
<thead>
<tr>
<th>Code</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>141-712-00</td>
<td>10 pieces</td>
</tr>
</tbody>
</table>

## Palatal Cup Brush
Chungkin bristles.
ø 30 mm

<table>
<thead>
<tr>
<th>Code</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>141-713-10</td>
<td>1 piece</td>
</tr>
<tr>
<td>141-713-00</td>
<td>10 pieces</td>
</tr>
</tbody>
</table>

## Cloth Polishing Brushes
With mandrel for hand piece.
ø 20 mm
Shaft ø 2.35 mm / 3/32"  

<table>
<thead>
<tr>
<th>Code</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>181-100-01</td>
<td>6 pieces</td>
</tr>
</tbody>
</table>

## Cloth Polishing Brushes
For dental lathe.
ø 100 mm

<table>
<thead>
<tr>
<th>Code</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>181-200-00</td>
<td>1 piece</td>
</tr>
</tbody>
</table>

## Chamois Leather Polishing Brush
For high shine polish.
ø 90 mm

<table>
<thead>
<tr>
<th>Code</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>181-201-00</td>
<td>1 piece</td>
</tr>
</tbody>
</table>

## Edelweiss Acrylic Polishing Compound

<table>
<thead>
<tr>
<th>Code</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>190-100-00</td>
<td>80 g</td>
</tr>
</tbody>
</table>
Orthodontic Acrylics

Accessories

Edelweiss Acrylic Polishing Fluid

<table>
<thead>
<tr>
<th>Code</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>190-200-00</td>
<td>1,000 g</td>
</tr>
</tbody>
</table>

Silicon Polisher

Mounted
For polishing acrylic appliances.
Non-damaging to metal parts.
Recommended speed 10,000 Rpm,
maximum speed 15,000 Rpm.
Cylindrical, wide, round tip.
Shaft ø 2.35 mm / 3/32”

<table>
<thead>
<tr>
<th>Code</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>138-620-00</td>
<td>10 pieces</td>
</tr>
</tbody>
</table>

Conical, long, round tip.
Shaft ø 2.35 mm / 3/32”

<table>
<thead>
<tr>
<th>Code</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>138-623-00</td>
<td>10 pieces</td>
</tr>
</tbody>
</table>

Mandrel
For emery cloth.
Shaft ø 2.35 mm / 3/32”

<table>
<thead>
<tr>
<th>Code</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>139-500-00</td>
<td>10 pieces</td>
</tr>
</tbody>
</table>

Emery Cloth
120 grit.
Width: 15 mm

<table>
<thead>
<tr>
<th>Code</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>140-015-00</td>
<td>25 m</td>
</tr>
</tbody>
</table>

Polyclav®
Polymerization pressure vessel for the orthodontic acrylic technique.
Pressure hose not included.
With safety valve.
Capacity: 4 litres

<table>
<thead>
<tr>
<th>Code</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>070-000-00</td>
<td>1 piece</td>
</tr>
</tbody>
</table>

Pressure Hose
For Polyclav® REF 070-000-00.

<table>
<thead>
<tr>
<th>Code</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>070-700-00</td>
<td>1 piece</td>
</tr>
</tbody>
</table>
Heating Plate
For Polyclav® REF 070-000-00.
Water temperature thermostatically controlled at 43 °C / 109.4 °F
230 V~/ 50 Hz / 125 W
Color: RAL 9001 cream white

FKO-Split-Post Fixator
(Gordon)
This split-post fixator is designed for precise model positioning and holding. Special conical arms allow for the removal and replacement of models.

Expansion Kit
For FKO-Split-Post Fixator.
To produce a horizontally split functional appliance, as well as correct positioning of the models parallel to the occlusal plane. The horizontal dividing mirror is made of highly corrosion resistant stainless steel, thus producing a smooth and shiny acrylic surface when applied to the upper and lower jaws. The appliance does not have to be touched up after polymerization.

Orthocryl® Color Chart
For color selection by the patient.
Format: 28 x 20.5 cm
Tips on maintenance of pliers can be found on page 437.
Best Quality
For all applications
Premium-Line Pliers

Premium quality – Premium function

Made in Germany

Premium quality
Highly experienced craftsmanship and state-of-the-art machinery have been used to produce these high quality pliers which remain true to the saying “Made in Germany”. For this reason, Dentsaurum’s Premium-Line Pliers are extra long-lasting.

Cutting inserts made from a special alloy

Extremely durable working ends
A high quality, special alloy is used to produce the cutting inserts and makes them extra hard, extremely tough and resistant to corrosion. This also makes them extraordinarily durable even throughout heavy use.

10 Year Guarantee!
Decades of orthodontic experience

**Easy handling – ergonomically designed**
Dentaurum has decades of experience as the leading company in orthodontic products, and this is reflected in the Premium-Line Pliers. All pliers are optimally suited for orthodontic wires and materials. The edges are ergonomically rounded making the pliers very safe, precise and easy to use.

Sophisticated manufacturing technique

**No loosening of the cutting inserts**
Extensive experience and an ingenious production method have produced an excellent anchorage construction to retain the cutting inserts on the pliers’ body. Thanks to this invention, as long as the pliers are always used in an appropriate manner, it is practically impossible for the cutting inserts to fall out.

Reliable service

**Perfect function for many years**
Depending on the model, Premium-Line Pliers can be sent to the Dentaurum repair service for resharpening or replacement. We guarantee that this maintenance is carried out reliably and professionally and at a fair price. Please contact us for this service.

Easy care*

**Long-lasting**
To clean Dentaurum’s Premium-Line Pliers, any standard disinfecting or sterilizing procedure can be used in accordance with the manufacturer’s instructions. If the pliers are oiled on a regular basis, this easy and uncomplicated treatment will increase their life span and functionality. We recommend Dentaurum’s corrosion protector (REF 055-200-00).

10 Year Guarantee**

**An exceptional value**
Dentaurum Premium-Line Pliers are the only pliers available with a 10 year guarantee. This ensures maximum reliability and minimum risk for orthodontists and patients.

---

* Proper maintenance is an important guarantee factor. Our instructions on maintenance and care of pliers can be found on page 437.

** The 10 year guarantee is on material and workmanship, loosening of cutting inserts, breakage and corrosion of pliers’ body, providing the instruments have been used correctly and properly maintained. The guarantee does not apply if the equipment has been deliberately modified or used/cleaned in an unprofessional manner.
Good pliers at a fair price

**Perfect technical design**

*Good results*

By using special production methods, the EQ-Line of pliers has been manufactured for the normal, everyday use at an attractive price, without compromising good results.

**Ergonomic and economic**

*Modern pliers for the orthodontic practice and laboratory*

The materials and wires found in orthodontic practices and laboratories require the use of specialized instruments. The EQ-Line pliers are especially made for this reason. They are ergonomically designed and comfortable to hold. The fact that they are suitable for all standard cleaning, disinfecting or sterilizing procedures makes their maintenance easy and economical.
Pure stainless steel

Long-lasting
EQ-Line Pliers are made of a well proven, special, stainless steel alloy which makes them extremely resistant to corrosion, gives them stability and enables the mechanics to withstand heavy use. All of these characteristics guarantee trouble-free, reliable use over many years.

No chrome plating, no nickel plating

Safe for both orthodontist and patient
The EQ-Line Pliers were deliberately manufactured without the extra addition of chrome or nickel plating. By leaving this out, flaking of the outside layer from heavily used areas can be avoided, as this can cause unnecessary complications from instruments which are used directly in the patient's mouth.

Wide range

One program to cover all areas
Whether for the fixed or removable appliance techniques, the Dentaurum EQ-Line Pliers' program includes instruments to serve all standard requirements. The user can always rely on consistent quality and reliability.
**Premium-Line Pliers / Fixed Appliance Technique**

### Special Bracket Debonding Pliers, 45°, Angled

<table>
<thead>
<tr>
<th>Code</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>004-350-00</td>
<td>1 piece</td>
</tr>
</tbody>
</table>

Sterilizable

For the removal of brackets and bonding adhesive. 45° angled cutting surface. Hard metal inserts. Sharpening possible by the manufacturer.

Premium-Line · 10 Year Guarantee

### Bracket Removing Pliers

<table>
<thead>
<tr>
<th>Code</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>003-349-00</td>
<td>1 piece</td>
</tr>
</tbody>
</table>

Sterilizable

For removing brackets between bracket base and adhesive. Sharpening possible by the manufacturer.

Replacement plastic insert see Accessories REF 038-356-00.

Premium-Line · 10 Year Guarantee

### Bracket Removing Pliers

<table>
<thead>
<tr>
<th>Code</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>004-349-00</td>
<td>1 piece</td>
</tr>
</tbody>
</table>

Sterilizable

For removing brackets and adhesive residue. Sharpening possible by the manufacturer.

With rubber insert.

Premium-Line · 10 Year Guarantee

### Rubber Inserts

<table>
<thead>
<tr>
<th>Code</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>037-355-00</td>
<td>2 pieces</td>
</tr>
</tbody>
</table>

Sterilizable

For Bracket-Removing Plier REF 004-349-00.

### Oliver-Jones Band Removing Pliers

<table>
<thead>
<tr>
<th>Code</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>026-347-00</td>
<td>1 piece</td>
</tr>
</tbody>
</table>

Sterilizable

With replaceable plastic tip.

With replaceable hard metal tip. Sharpening possible by the manufacturer.

Plastic tip see Accessories REF 039-357-00.

Premium-Line · 10 Year Guarantee

### Johnson Contouring Pliers

<table>
<thead>
<tr>
<th>Code</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>003-114-00</td>
<td>1 piece</td>
</tr>
</tbody>
</table>

Sterilizable

With curvature of the beaks only on one side. For contouring and adapting bands and crowns.

Premium-Line · 10 Year Guarantee
Double Beak Pliers
Sterilizable
With concave beaks. For forming bicuspid and molar bands in the mouth. Can be used on both sides.
Premium-Line · 10 Year Guarantee

Separating Pliers
Sterilizable
For expanding Dentalastics® separating rings before positioning.
Premium-Line · 10 Year Guarantee

How Pliers, Straight
Sterilizable
Universal pliers for the multi-band technique. Due to the slender working tips perfect for placing bands with prewelded brackets, especially in the lower anterior area.
Premium-Line · 10 Year Guarantee

How Pliers, Curved
Sterilizable
These curved pliers are especially suited for the posterior areas. The curved lip-safe tips adapt especially well to the shape of the tooth.
Premium-Line · 10 Year Guarantee

Side Cutter, Maxi
Sterilizable
For wires up to $\phi$ 1.0 mm / 40, hard. Inserts made of hard metal. Sharpening of inserts possible by the manufacturer.
Premium-Line · 10 Year Guarantee

Distal End Cutter, Mini
Sterilizable
This distal end cutter has a cut and hold design. Delicate style. Inserts made of hard metal. Sharpening of inserts possible by the manufacturer. For wires up to $\phi$ 0.56 x 0.70 mm / 22 x 28.
Premium-Line · 10 Year Guarantee
Length: 12 cm / 4 3/4”
Distal End Cutter, Mini
Sterilizable
This small size distal end cutter has longer handles plus a cut and hold design. Inserts made of hard metal. Sharpening of inserts possible by the manufacturer. For wires up to Ø 0.56 x 0.70 mm / 22 x 28. Premium-Line · 10 Year Guarantee Length: 14 cm / 5 1/2”

Distal End Cutter, Maxi
Sterilizable
This sturdy distal end cutter has a cut and hold design. Inserts made of hard metal. Sharpening of inserts possible by the manufacturer. For wires up to Ø 0.56 x 0.70 mm / 22 x 28. Premium-Line · 10 Year Guarantee Length: 12 cm / 4 3/4”

Ligature Cutter, Mini
Sterilizable
Accuracy right to the tip for smooth cutting of soft ligature wires. With hard metal tips replaceable by the manufacturer. Sharpening of inserts possible by the manufacturer. For wires up to Ø 0.4 mm / 16, soft. Premium-Line · 10 Year Guarantee

Ligature Cutter 45°
Sterilizable
45° angled cutting tips for easy cutting of ligatures, especially in the posterior areas. With hard metal tips replaceable by the manufacturer. Sharpening of inserts possible by the manufacturer. For wires up to Ø 0.4 mm / 16, soft. Premium-Line · 10 Year Guarantee

Side Cutters, Medium
Sterilizable
Black anodized hard metal tips replaceable by the manufacturer. Smooth cuts guaranteed by accurate cutting edges. Sharpening of inserts possible by the manufacturer. For wires up to Ø 0.7 mm / 28, hard. Premium-Line · 10 Year Guarantee

Light Wire Pliers
Sterilizable
For especially fine wire bending work in the light wire technique. For wires up to Ø 0.5 mm / 20, spring hard. Premium-Line · 10 Year Guarantee
Begg Light Wire Pliers
Sterilizable
For especially fine wire bending work in the light wire technique. Additional cutting device. Inserts made of hard metal.
For wires up to ø 0.5 mm / 20, spring hard.
Premium-Line · 10 Year Guarantee

Angle/Tweed Ribbon
Arch Pliers
Sterilizable
For applying torque to edgewise wires. Parallel grip prevents crushing of wire. Hard metal inserts. For wires up to ø 0.56 x 0.70 mm / 22 x 28.
Premium-Line · 10 Year Guarantee

Weingart Universal Pliers
Sterilizable
For positioning the arch and bending the arch wire ends. Accurately closing serrated tips. With hard metal inserts replaceable by the manufacturer.
For wires up to ø 0.5 mm / 20, hard.
Premium-Line · 10 Year Guarantee

Weingart Universal Pliers Mini
Sterilizable
Very slender design. For positioning the arch and bending the arch wire ends. Accurately closing serrated tips.
For wires up to ø 0.5 mm / 20, hard.
Premium-Line · 10 Year Guarantee

Nance Loop Bending Pliers
Sterilizable
With four-step beaks for producing loops of different sizes in round and rectangular wires. For wires up to ø 0.7 mm / 28, hard.
Premium-Line · 10 Year Guarantee

Nance Loop Closing Pliers
Sterilizable
For bending of stop loops and as special pliers for Adams clasps. For wires up to ø 0.7 mm / 28, hard.
Premium-Line · 10 Year Guarantee

Jarabak Light Wire Pliers
Sterilizable
For wires up to ø 0.5 mm / 20, spring hard.
Premium-Line · 10 Year Guarantee
### Premium-Line Pliers / Fixed Appliance Technique

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>012-350-00</td>
<td>1 piece</td>
</tr>
</tbody>
</table>

**Tweed Loop Forming Pliers**
- Sterilizable
- For especially fine bending work.
- For wires up to Ø 0.5 mm / 20, hard.
- **Premium-Line · 10 Year Guarantee**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>012-351-00</td>
<td>1 piece</td>
</tr>
</tbody>
</table>

**Tweed Loop Forming Pliers**
- Sterilizable
- For especially fine bending work. With individually replaceable hard metal tip.
- For wires up to Ø 0.5 mm / 20, hard.
- **Premium-Line · 10 Year Guarantee**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>038-357-00</td>
<td>3 pieces</td>
</tr>
</tbody>
</table>

**Hard Metal Tip**
- Sterilizable
- For Tweed Loop Forming Plier REF 012-351-00.

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>004-109-00</td>
<td>1 piece</td>
</tr>
</tbody>
</table>

**De La Rosa Contouring Pliers**
- Sterilizable
- With guiding grooves for forming round and square arches 16, 18, 22.
- **Premium-Line · 10 Year Guarantee**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>003-185-00</td>
<td>1 piece</td>
</tr>
</tbody>
</table>

**Arch Forming Pliers**
- Sterilizable
- For individual construction and activation of lingual/palatal bars. Using these pliers, the bent tips of the wire will fit into all Dentaurum lingual/palatal tubes Ø 2 x 0.9 mm / 36.
- For wires up to Ø 0.9 mm / 36, hard.
- **Premium-Line · 10 Year Guarantee**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>003-139-00</td>
<td>1 piece</td>
</tr>
</tbody>
</table>

**Angle Wire Bending Pliers, Standard**
- Sterilizable
- Sturdy constructed plier with a cone and pyramid shaped beak.
- For wires up to Ø 0.7 mm / 28, hard.
- **Premium-Line · 10 Year Guarantee**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>004-139-00</td>
<td>1 piece</td>
</tr>
</tbody>
</table>

**Angle Wire Bending Pliers**
- Sterilizable
- Sturdy constructed plier with a cone and pyramid shaped beak. Inserts made of hard metal.
- For wires up to Ø 0.7 mm / 28, hard.
- **Premium-Line · 10 Year Guarantee**
## Loop Forming Pliers, Extra Mini
**Sterilizable**
Ideally suited for forming different loops and adjusting preshaped arches for the fixed appliance technique.
For wires up to Ø 0.5 mm / 20, hard.
**Premium-Line · 10 Year Guarantee**

### Specifications
- **Code**: 003-350-00
- **Quantity**: 1 piece

## Loop Forming Pliers, Mini
**Sterilizable**
For loop forming and bending of thin round and edgewise wires.
For wires up to Ø 0.5 mm / 20, hard.
**Premium-Line · 10 Year Guarantee**

### Specifications
- **Code**: 003-351-00
- **Quantity**: 1 piece

## Ligature Forming Pliers
**Sterilizable**
For forming ligatures.
For wires up to Ø 0.3 mm / 12, soft.
**Premium-Line · 10 Year Guarantee**

### Specifications
- **Code**: 015-158-00
- **Quantity**: 1 piece

## Aderer 3-Prong Pliers, Extra Mini
**Sterilizable**
For bending wires / arches for the fixed appliance technique. Specially suited for bending NiTi wires / arches such as rematitan® "LITE" and Tensic®.
For wires up to max. Ø 0.5 mm / 20, hard or Ø 0.48 x 0.64 mm / 19 x 25.
**Premium-Line · 10 Year Guarantee**

### Specifications
- **Code**: 003-205-00
- **Quantity**: 1 piece

## Face Bow Bending / Cutting Pliers, Magnum
**Sterilizable**
Ideal for bending and cutting the outer bows of a face bow.
For wires up to Ø 1.8 mm / 71.
**Premium-Line · 10 Year Guarantee**

### Specifications
- **Code**: 003-180-00
- **Quantity**: 1 piece
### Loop Forming Pliers, Medium
**Sterilizable**
For bending small springs and loops.
For wires up to ø 0.7 mm / 28, hard.
**Premium-Line · 10 Year Guarantee**

<table>
<thead>
<tr>
<th>Code</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>003-053-00</td>
<td>1 piece</td>
</tr>
</tbody>
</table>

### Loop Forming Pliers, Maxi
**Sterilizable**
These sturdy pliers have one round and one concave beak for heavier wires, such as space maintainers, etc.
For wires up to ø 0.8 mm / 32, hard.
**Premium-Line · 10 Year Guarantee**

<table>
<thead>
<tr>
<th>Code</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>003-233-00</td>
<td>1 piece</td>
</tr>
</tbody>
</table>

### Ruhland Loop Forming Pliers, Magnum
**Sterilizable**
To bend coffin springs, labial arches, loops, etc.
For wires up to ø 1.1 mm / 44, hard.
**Premium-Line · 10 Year Guarantee**

<table>
<thead>
<tr>
<th>Code</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>001-650-00</td>
<td>1 piece</td>
</tr>
</tbody>
</table>

### Adams Pliers, Medium
**Sterilizable**
With two smooth, rectangular beaks.
For wires up to ø 0.7 mm / 28, hard.
**Premium-Line · 10 Year Guarantee**
Length: 12 cm / 4 3/4”

<table>
<thead>
<tr>
<th>Code</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>003-515-00</td>
<td>1 piece</td>
</tr>
</tbody>
</table>

### Adams Pliers, Medium
**Sterilizable**
With two smooth, rectangular beaks. Inserts made of hard metal.
For wires up to ø 0.7 mm / 28, spring hard.
**Premium-Line · 10 Year Guarantee**
Length: 12 cm / 4 3/4”

<table>
<thead>
<tr>
<th>Code</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>004-515-00</td>
<td>1 piece</td>
</tr>
</tbody>
</table>

### Adams Pliers, Maxi
**Sterilizable**
With two smooth, rectangular beaks.
For wires up to ø 0.8 mm / 32, hard.
**Premium-Line · 10 Year Guarantee**
Length: 14.5 cm / 5 3/4”

<table>
<thead>
<tr>
<th>Code</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>003-094-00</td>
<td>1 piece</td>
</tr>
</tbody>
</table>

### Adams Pliers, Medium
**Sterilizable**
With one smooth, rectangular and one smooth, rounded beak.
For wires up to ø 0.7 mm / 28, hard.
**Premium-Line · 10 Year Guarantee**
Length: 14 cm / 5 1/2”

<table>
<thead>
<tr>
<th>Code</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>003-516-00</td>
<td>1 piece</td>
</tr>
</tbody>
</table>
Adams Pliers, Maxi
Sterilizable
With one smooth, rectangular and one smooth, rounded beak. Inserts made of hard metal.
For wires up to ø 0.8 mm / 32, hard.
Premium-Line · 10 Year Guarantee
Length: 16 cm / 6 1/4”

Wire Bending Pliers, Wide
Sterilizable
Serrated tips.
Suitable for activating finger springs.
For wires up to ø 0.8 mm / 32, hard.
Premium-Line · 10 Year Guarantee

Wire Bending Pliers, Maxi
Sterilizable
For bending wires up to ø 0.9 mm / 36, hard.
For cutting wires up to ø 0.7 mm / 28, hard.
With hard metal inserts replaceable by manufacturer.
Premium-Line · 10 Year Guarantee

Universal Wire Bending Pliers
Sterilizable
With serrated tips and guiding grooves.
For wires up to ø 0.8 mm / 32, hard.
Premium-Line · 10 Year Guarantee

Pointed Beak Pliers
Sterilizable
Smooth faces with guiding grooves. Inserts made of hard metal.
For wires up to ø 0.7 mm / 28, spring hard.
Premium-Line · 10 Year Guarantee

Pointed Beak Pliers
Sterilizable
Serrated faces with guiding grooves.
Fine pointed beaks.
For wires up to ø 0.7 mm / 28, hard.
Premium-Line · 10 Year Guarantee

Young Loop Bending Pliers
Sterilizable
Universal pliers for different size loops.
Ideal for labial arches.
For wires up to ø 0.7 mm / 28, hard.
Premium-Line · 10 Year Guarantee
### Pliers · Instruments

**Premium-Line Pliers / Removable Appliance Technique**

<table>
<thead>
<tr>
<th>Model</th>
<th>Sterilizable</th>
<th>Description</th>
<th>Length</th>
<th>Code</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Aderer 3-Prong Pliers, Mini</strong></td>
<td></td>
<td>For wires up to ø 0.7 mm / 28, hard.</td>
<td>12.5 cm / 5”</td>
<td>003-201-00</td>
<td>1 piece</td>
</tr>
<tr>
<td><strong>Aderer 3-Prong Pliers, Medium</strong></td>
<td></td>
<td>For wires up to ø 0.9 mm / 36, hard.</td>
<td>13 cm / 5 1/4”</td>
<td>003-200-00</td>
<td>1 piece</td>
</tr>
<tr>
<td><strong>Aderer 3-Prong Pliers, Maxi</strong></td>
<td></td>
<td>For wires up to ø 1.5 mm / 59, hard.</td>
<td>15.5 cm / 6 1/4”</td>
<td>003-202-00</td>
<td>1 piece</td>
</tr>
<tr>
<td><strong>Arrow Clasp Former</strong></td>
<td></td>
<td>For wires up to ø 0.7 mm / 28, hard.</td>
<td></td>
<td>012-520-00</td>
<td>1 piece</td>
</tr>
<tr>
<td><strong>Arrow Clasp Bending Pliers</strong></td>
<td></td>
<td>For wires up to ø 0.7 mm / 28, hard.</td>
<td></td>
<td>012-521-00</td>
<td>1 piece</td>
</tr>
</tbody>
</table>
Bracket Removing Pliers
Sterilizable
For removing brackets. Replaceable plastic inserts, see Accessories REF 038-356-00.

Distal End Cutter
Sterilizable
Cut and hold design. Inserts made of hard metal. For wires up to ø 0.56 x 0.70 mm / 22 x 28.

Side Cutters, Medium
Sterilizable
For cutting wires and arches. Inserts made of hard metal. For wires up to ø 0.7 mm / 28, hard.

Oliver-Jones Band Removing Pliers
Sterilizable
Replaceable plastic tips. Plastic tips see Accessories REF 039-357-00.

How Pliers, Straight
Sterilizable
Universal pliers for the multi-band technique. The special tip design makes these pliers suited for seating individual anterior bands.

Angle/Tweed Ribbon Arch Pliers
Sterilizable
For applying torque to edgewise wires. For wires up to ø 0.56 x 0.70 mm / 22 x 28.

Weingart Universal Pliers
Sterilizable
For positioning the arch and bending the arch wire ends. Accurately closing serrated tips. For wires up to ø 0.5 mm / 20, hard.
Nance Loop Bending Pliers
Sterilizable
With four-step beaks for producing loops of different sizes in round and rectangular wires.
For wires up to ø 0.7 mm / 28, spring hard.

Jarabak Light Wire Pliers
Sterilizable
For wires up to ø 0.5 mm / 20, spring hard.

Tweed Loop Forming Pliers
Sterilizable
For especially fine bending work.
For wires up to ø 0.5 mm / 20, hard.

Angle Wire Bending Pliers
Sterilizable
Sturdy constructed pliers have cone and pyramid shaped beaks.
For wires up to ø 0.7 mm / 28, hard.
Loop Forming Pliers, Medium
Sterilizable
For wires up to Ø 0.7 mm / 28, hard.

Loop Forming Pliers, Maxi
Sterilizable
These sturdy pliers have one round and one concave beak for heavier wires, such as space maintainers, etc. For wires up to Ø 0.8 mm / 32, hard.

Ruhland Loop Forming Pliers, Magnum
Sterilizable
These sturdy pliers have one concave and one round beak for coffin springs, labial arches, etc. For wires up to Ø 1.1 mm / 44, hard.

Adams Pliers, Medium
Sterilizable
With two smooth rectangular beaks. For wires up to Ø 0.7 mm / 28, hard.

Adams Pliers, Maxi
Sterilizable
With two smooth rectangular beaks. For wires up to Ø 0.8 mm / 32, hard.

Adams Pliers, Maxi
Sterilizable
With one smooth, rectangular and one smooth, rounded beak. For wires up to Ø 0.8 mm / 32, hard.

Wire Bending Pliers, Maxi
Sterilizable
For bending wires up to Ø 0.9 mm / 36, hard. For cutting wires up to Ø 0.7 mm / 28, hard.
EQ-Line Pliers / Removable Appliance Technique

Pointed Beak Pliers
Sterilizable
Smooth faces with guiding grooves.
Fine pointed beaks.
For wires up to ø 0.7 mm / 28, hard.

045-018-00 1 piece

Young Loop Bending Pliers
Sterilizable
Universal pliers for different size loops. Ideal for labial arches.
For wires up to ø 0.7 mm / 28, hard.

045-011-00 1 piece

Aderer 3-Prong Pliers, Extra Mini
Sterilizable
For wires up to ø 0.8 mm / 32, hard.

045-020-00 1 piece

Aderer 3-Prong Pliers, Mini
Sterilizable
For wires up to ø 0.7 mm / 28, hard.

045-007-00 1 piece

Aderer 3-Prong Pliers, Medium
Sterilizable
For wires up to ø 0.9 mm / 36, hard.

045-008-00 1 piece
Adams Clasp Bending Pliers
Can be disinfected but not sterilized.
Special pliers for easy forming of Adams Clasps in one step.
For wires up to ø 0.7 mm / 28, hard.

| 012-523-00 | 1 piece |

Side Cutter, Maxi
Can be disinfected but not sterilized.
Made of extra hard vanadium steel, chrome plated. Sharpening of inserts possible by the manufacturer.
For wires up to ø 1.0 mm / 40, hard.

| 037-266-00 | 1 piece |

Heavy Gauge Side Cutter, Magnum
Can be disinfected but not sterilized.
Little force required for cutting through large size wires due to special design.
For wires up to ø 1.3 mm / 51, hard.

| 044-177-00 | 1 piece |
## Instruments

**Lip Retractor, small size**
- Can be disinfected but not sterilized.
- For efficient work without assistance.
- With flexible plastic connector.
  - **075-601-00**
    - 1 piece

**Lip Retractor, standard size**
- Can be disinfected but not sterilized.
- For efficient work without assistance.
- With flexible plastic connector.
  - **075-600-00**
    - 1 piece

**Clamping Tweezers**
- Sterilizable
- For bracket placement. The blade at the end of the tweezers can be used for angulating brackets.
- Delicate design.
  - **025-277-00**
    - 1 piece

**Clamping Tweezers**
- Sterilizable
- With long placement and angulation aid.
- For bracket placement. The blade at the end of the tweezers can be used for angulating brackets.
  - **025-276-00**
    - 1 piece

**Clamping Tweezers**
- For posterior teeth.
- Sterilizable
- Specially suited for placing brackets and buccal tubes in the posterior region.
  - **025-279-00**
    - 1 piece

**Scaler and Band Seater, double ended**
- Sterilizable
- Sharp scaling tip on one end for removing adhesive residue.
- Serrated band seater on the other end.
  - **027-349-00**
    - 1 piece

**Separating Strip Placer**
- Sterilizable
- Holding instrument for separating strips.
- For smoothing protruding edges of fillings and separating. Complete with 6 separating strips.
  - **018-000-00**
    - 1 Set
### Instruments

#### Separating Strips, coated on both sides
- **Sterilizable**
- For Separating Strip Placer REF 018-000-00.
- **Width:** 4 mm
- **018-001-00** 12 pieces

#### Separating Strips, coated on both sides
- **Sterilizable**
- For Separating Strip Placer REF 018-000-00.
- **Width:** 4 mm
- **018-002-00** 12 pieces

#### Scissors, Straight
- **Sterilizable**
- For cutting thin metal bands.
- **007-024-00** 1 piece

#### Scissors, Curved
- **Sterilizable**
- For cutting thin metal bands.
- **008-025-00** 1 piece

#### Eby Band Seater
- **Sterilizable**
- With curved tip for posterior region.
- Stainless Steel.
- Circular snap device.
- Seating pressure range 0.8 - 10 N (approx. 80 - 1,000 g).
- **051-023-00** 1 piece

#### Hard Metal Tip, Curved
- **Sterilizable**
- For Eby Band Seater REF 051-023-00.
- **051-024-00** 1 piece

#### Hard Metal Tip, Straight
- **Sterilizable**
- For Eby Band Seater REF 051-023-00.
- **051-025-00** 1 piece
### Instruments

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>026-355-00</td>
<td>Band Seating Instrument, Nylon</td>
</tr>
<tr>
<td></td>
<td>Sterilizable to a maximum of 180 °C/356 °F</td>
</tr>
<tr>
<td></td>
<td>With hard metal, triangular serrated tip.</td>
</tr>
<tr>
<td>003-006-00</td>
<td>Band Seater</td>
</tr>
<tr>
<td></td>
<td>Sterilizable</td>
</tr>
<tr>
<td></td>
<td>Large surface tin inlay.</td>
</tr>
<tr>
<td>026-354-00</td>
<td>Molar Band Seater</td>
</tr>
<tr>
<td></td>
<td>Sterilizable to a maximum of 180 °C/356 °F</td>
</tr>
<tr>
<td></td>
<td>With replaceable plastic head and hard metal triangular tip.</td>
</tr>
<tr>
<td>026-357-00</td>
<td>Plastic Head with triangular hard metal tip</td>
</tr>
<tr>
<td></td>
<td>Sterilizable</td>
</tr>
<tr>
<td></td>
<td>For Molar Band Seater REF 026-354-00.</td>
</tr>
<tr>
<td>024-300-00</td>
<td>Mershon Band Pusher</td>
</tr>
<tr>
<td></td>
<td>Sterilizable</td>
</tr>
<tr>
<td></td>
<td>With serrated rectangular tip and anatomically formed grip</td>
</tr>
<tr>
<td></td>
<td>for good transfer of force when positioning bands.</td>
</tr>
<tr>
<td>030-390-00</td>
<td>Bracket Positioning Gauge</td>
</tr>
<tr>
<td></td>
<td>Sterilizable</td>
</tr>
<tr>
<td></td>
<td>Simplifies seating the brackets on the teeth with exactly</td>
</tr>
<tr>
<td></td>
<td>the right distance between bracket slot and incisal edge.</td>
</tr>
<tr>
<td></td>
<td>With metal tips.</td>
</tr>
<tr>
<td>030-391-00</td>
<td>Bracket Positioning Gauge</td>
</tr>
<tr>
<td></td>
<td>Can be disinfected but not sterilized.</td>
</tr>
<tr>
<td></td>
<td>Simplifies seating the brackets on the teeth with exactly</td>
</tr>
<tr>
<td></td>
<td>the right distance between bracket slot and incisal edge.</td>
</tr>
<tr>
<td></td>
<td>With pencils.</td>
</tr>
</tbody>
</table>
### Safety Caps
Can be disinfected but not sterilized. For Bracket Positioning Gauge REF 030-391-00. Color: white

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>030-392-00</td>
<td>4 pieces</td>
<td></td>
</tr>
</tbody>
</table>

### "Mathieu" Needle Holder, Medium
Sterilizable
Ideal for ligating. Convenient and practical design with serrated tips.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>000-030-00</td>
<td>1 piece</td>
<td></td>
</tr>
</tbody>
</table>

### "Bachmann" Needle Holder with Finger Ring, Medium
Sterilizable
Eases ligating with the middle finger under constant pressure. Can also be used in ligating jaw fracture splints. Serrated tips.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>000-035-00</td>
<td>1 piece</td>
<td></td>
</tr>
</tbody>
</table>

### Needle Holder, Mini
Sterilizable
With especially fine serrated tips. For Dentalastics® plastic ligatures. Not for wire ligatures.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>000-031-00</td>
<td>1 piece</td>
<td></td>
</tr>
</tbody>
</table>

### Mosquito Forceps, without hook
Sterilizable
For placing Dentalastics® plastic ligatures.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>000-730-00</td>
<td>1 piece</td>
<td></td>
</tr>
</tbody>
</table>

### Mosquito Forceps, with hook
Sterilizable
For placing Dentalastics® plastic ligatures.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>000-731-00</td>
<td>1 piece</td>
<td></td>
</tr>
</tbody>
</table>

### Ligator
Sterilizable
An instrument for fast ligating of the complete arch. Y-shaped tip simplifies the twisting of the ligatures. For ligating ligature wires up to ø 0.3 mm / 12, soft.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>023-280-00</td>
<td>1 piece</td>
<td></td>
</tr>
</tbody>
</table>
## Instruments

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
<th>Quantity</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>023-280-00</td>
<td>Spool</td>
<td>1 piece</td>
<td>Sterilizable for Ligator REF 023-280-00.</td>
</tr>
<tr>
<td>023-282-00</td>
<td>Hard Metal Tip</td>
<td>1 piece</td>
<td>Sterilizable for Ligator REF 023-280-00.</td>
</tr>
<tr>
<td>022-274-00</td>
<td>Ligating Instrument</td>
<td>1 piece</td>
<td>Sterilizable Ligature adjuster and tucker for long preformed ligatures.</td>
</tr>
<tr>
<td>021-273-00</td>
<td>Ligating Instrument, double ended</td>
<td>1 piece</td>
<td>Sterilizable Zum Umbiegen und Adaptieren von Drahtligaturen.</td>
</tr>
<tr>
<td>019-000-00</td>
<td>Distal End Bender (Langer), double ended</td>
<td>1 piece</td>
<td>Sterilizable Sturdy instrument for bending arch wire ends. Handle ø 8 mm</td>
</tr>
</tbody>
</table>
| 004-180-00 | Arch Turret without Torque | 1 piece | Sterilizable For forming flat, plain arches in edgewise wires. For edgewise wires:
- ø 0.41 mm / 16
- ø 0.43 mm / 17
- ø 0.46 mm / 18
- ø 0.51 mm / 20
- ø 0.56 mm / 22
Blue tinted. |
| 004-186-00 | Arch Turret with Torque / 16 | 1 piece | Sterilizable For forming flat or angled (torque) rectangular arches:
- ø 0.41 x 0.41 mm / 16 x 16 in 0°, 7°, 10°, 13° and 16° Torque
Red tinted. |
Arch Turret with Torque / 16 x 16
Sterilizable
For forming flat or angled (torque) rectangular arches:
- 0.41 x 0.41 mm / 16 x 16
in 0°, 10°, 16° and 23° Torque
Specially designed for Ricketts' technique.
Green tinted.

Arch Turret with Torque / 18
Sterilizable
For forming flat or angled (torque) rectangular arches:
- 0.46 x 0.64 mm / 18 x 25
in 0°, 7°, 10°, 13° and 16° Torque
Gold tinted.

Arch Turret with Torque / 22
Sterilizable
For forming flat or angled (torque) rectangular arches:
- 0.56 x 0.70 mm / 22 x 28
in 0°, 7°, 10°, 13° and 16° Torque
Silver tinted.

Tension and Compression Gauge
Can be disinfected but not sterilized.
Handy device for measuring intraoral tensile and compressive forces. Pressure side with guide slot and fork. Tension side with hook. Measuring scales on pressure and tension sides.
Measuring range 28 - 450 g

Measuring Gauge
Can be disinfected but not sterilized.
For measuring tensile and compressive forces.
Measuring range 25 - 250 g

Measuring range 50 - 500 g

Measuring range 100 - 1,000 g
Dental Vernier (Beerendonk)
Sterilizable
With fine, long tips for intraoral measurements.

Dental Vernier (Muenchner Design)
Sterilizable
For intra and extraoral measurements, with extra graceful tips.

Orthodontic Ruler (Bernklau)
Sterilizable
Made of Stainless Steel. Perfect for all diagnostic measurements, both intraoral and on the model.

Arch Gauge
For measuring labial arches, Adams clasps, palatal bars, etc.
White plastic

Ruler (Muenchner Design)
Sterilizable
Stainless Steel, with 1/2 mm and mm increments.
Length: 15 cm / 6”

Measuring Grid (Schmuth)
Can be disinfected but not sterilized.
This screen is printed red with a 1 x 1 cm scale on one side and the other side in black with a 1 cm x 2 mm scale. When the red and black scales are in alignment, the parallax correction has been achieved for precise measurement of distances.

Orthometer Kit (Korkhaus)
Can be disinfected but not sterilized.
Set with orthometer, mm disk, cm disk and bow divider.

Bow Divider
Can be disinfected but not sterilized.
For Korkhaus Orthometer Kit REF 029-360-01.
Three Dimensional Bow Divider
(Korkhaus)
Can be disinfected but not sterilized.
Allows the direction and extent of tooth movement to be checked by a single intraoral measurement.

| 028-353-00 | 1 piece |

Bow Divider
Can be disinfected but not sterilized.
Standard design.
To measure tooth width, bracket distance to the incisal edge, etc.

| 030-395-00 | 1 piece |

Cephalometric Tracing Kit
Contents:
- 4 lead pencils with lead 0.5 mm
- 1 package (= 12 pieces) red refills
- 1 package (= 12 pieces) green refills
- 1 package (= 12 pieces) blue refills
- 1 protractor (ruler)

| 075-400-01 | 1 Set |

Diagnostic Ruler-Protractor
For evaluation of radiographs.
Dimensions: 153 x 38 mm
Plastic transparent, clear

| 004-367-00 | 1 piece |

Tracing-Protractor Template
Transparent template with protractor and tooth symbols. For evaluation of radiographs.
Dimensions: 207 x 132 mm
Plastic transparent, clear

| 004-368-00 | 1 piece |

Transparent Template
Ricketts® method
For analyzing radiographs. With mm scale, protractor and cut out tooth symbols for tracing.
Dimensions: 197 x 74 mm
Plastic transparent, clear

| 004-369-00 | 1 piece |
Diagnostic

Acetate Tracing Foil

For radiograph tracings. One side matte, other side shiny.
Tear-off pad.
Dimensions: 17.5 x 23.5 cm

Acetate Tracing Foil Cover

For tracing and filing of radiographs. One side matte, other side shiny.
Dimensions: 18 x 24 cm

X-Ray Viewer, standard

For viewing orthodontic radiographs.
Delivery includes: 2 film holders, 1 cover.
For table or wall mounting (mounting guide included).
Technical Data:
Voltage: 230 V~/ 50 Hz
Power Rating: 2 x 8 W
Weight: 2.5 kg / 5 lb. 8 oz.
Dimensions: 415 x 270 x 60 mm (W x D x H)
Color: RAL 9001 cream white

X-Ray Viewer, according to DIN 6856

Viewing area according to DIN 6856.
Accessories as X-Ray Viewer, standard.
Additionally, 4 light sources, therefore more even illumination.
Technical Data:
Voltage: 230 V~/ 50 Hz
Power Rating: 4 x 8 W
Weight: 2.5 kg / 5 lb. 8 oz.
Dimensions: 415 x 270 x 60 mm (W x D x H)
Color: RAL 9001 cream white
Corrosion Protection Oil for Pliers and Instruments
For instrument care before sterilization.

<table>
<thead>
<tr>
<th>Code</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>055-200-00</td>
<td>50 ml</td>
</tr>
</tbody>
</table>

Plastic Inserts
Sterilizable
For Bracket-Removing Pliers REF 003-349-00 and 045-005-00.

<table>
<thead>
<tr>
<th>Code</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>038-356-00</td>
<td>4 pieces</td>
</tr>
</tbody>
</table>

Plastic Tips
Sterilizable
For Oliver-Jones Band Removing Pliers REF 026-347-00 and 045-004-00.

<table>
<thead>
<tr>
<th>Code</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>039-357-00</td>
<td>10 pieces</td>
</tr>
</tbody>
</table>

Stand for Wires and Pliers, combination
Made of clear acrylic.
With 6 tubes for straight wires.
Do not use disinfectants containing ethanol, phenol or alcohol.
Height: Approx. 13 cm / 5 1/8"
Width: Approx. 18 cm / 7"

<table>
<thead>
<tr>
<th>Code</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>055-101-01</td>
<td>1 piece</td>
</tr>
</tbody>
</table>

Stand for Pliers
Made of clear acrylic.
Do not use disinfectants containing ethanol, phenol or alcohol.
Length: 13 cm / 5 1/8", for 7 pliers
Length: 25 cm / 9 7/8", for 14 pliers

<table>
<thead>
<tr>
<th>Code</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>055-000-00</td>
<td>1 piece</td>
</tr>
<tr>
<td>055-100-00</td>
<td>1 piece</td>
</tr>
</tbody>
</table>

Stand for Pliers
Made of white acrylic.
For 15 pliers.
Do not use disinfectants containing ethanol, phenol or alcohol.
Width: 30 cm / 12"
Depth: 20 cm / 8"
Height: 6.5 cm / 2 1/2"
## Accessories

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>089-430-00</td>
<td>Bur Stand Magnetic Holder</td>
<td>1 piece</td>
</tr>
<tr>
<td></td>
<td>Partly plastic.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Do not use disinfectants containing</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ethanol, phenol or alcohol.</td>
<td></td>
</tr>
<tr>
<td>089-431-00</td>
<td>Bur Stand</td>
<td>1 piece</td>
</tr>
<tr>
<td></td>
<td>Made of clear acrylic.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Do not use disinfectants containing</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ethanol, phenol or alcohol.</td>
<td></td>
</tr>
<tr>
<td>043-700-00</td>
<td>Marking Pencils</td>
<td>6 pieces</td>
</tr>
<tr>
<td></td>
<td>White Wax Marker</td>
<td></td>
</tr>
<tr>
<td>043-800-00</td>
<td>Marking Pencils</td>
<td>1 piece</td>
</tr>
<tr>
<td></td>
<td>Wipe resistant</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Black Marker</td>
<td></td>
</tr>
<tr>
<td>043-900-00</td>
<td>Marking Pencils</td>
<td>1 piece</td>
</tr>
<tr>
<td></td>
<td>Red Marker</td>
<td></td>
</tr>
</tbody>
</table>
Modern Equipment
For professional workmanship
Innovative Welding Technology for Orthodontics

Super Compact Unit

Light in weight, requiring minimal space

The OrthoPhaser® requires little more space than the classic spot welding unit. It has however, a decisively higher performance level and introduces new fields of application which were previously either difficult or impossible to resolve with spot welding units. This is especially true in cases where it is important that the end result is strong and biocompatible.

Orthodontic Version of the Micro-Impulse Technology

Excellent results on typical orthodontic tasks

The OrthoPhaser® is perfectly suited for precision welding in orthodontics. The parts to be joined are often far more delicate and require considerably less energy output than the classic dental welding duties. The energy must also be precisely adjustable. This was carefully taken into consideration during the development of the OrthoPhaser®.
Micro impulse process

Innovative welding technology – Gentle on material and biocompatible

The OrthoPhaser® is a High Tec variation of the classic WIG-welding process*. The collaboration between state of the art, high performance electronics and proficient and proven precision engineering, has given the WIG-welding process entirely new fields of application. The result is a material-friendly and more importantly bio-compatible welding technology.

* WIG-welding: Wolfram-Inert-Gas-welding. Under a cloud of the noble gas, argon, an arc lights between a tungsten needle and the material itself. This melts the material and simultaneously adds extra material. The so-called impulse means a full bodied welding flow is passed onto the material which lasts only a millisecond. This ensures that the object is welded down to the “root”. Between pulses the next welding point can be chosen, ultimately creating a welding joint, point after point.

Almost all metal materials can be welded

Universal and economical application

The OrthoPhaser® is capable of welding almost all metal materials used in orthodontics. Even titanium, a metal which is becoming more and more popular in orthodontics, is excellent to weld.

Hand piece is either lockable or flexible

Maximum flexibility throughout work

The OrthoPhaser® has a hand piece that can either be locked into place or used free-hand. Giving the user the freedom of choice required for an easy and effective operation.

Either fixed or variable welding parameters available

For quick and flexible procedures

The OrthoPhaser® contains pre-programmed parameter settings. Time saving due to well proven settings that can be used directly. Additionally, the user also has the possibility to individually adjust the performance and duration parameter of the impulses according to the prevailing object to be welded. If necessary this information can be stored in a separate laboratory data base file. This is yet another example of the flexibility provided.
Spot Welding Units

For professional welding and soldering in orthodontics

For practice and laboratory

A suitable unit for everyone

Dentaurum offers three different models of welding units for every type of orthodontic welding or soldering required, according to how often the unit is used. It is possible to find a suitable unit to serve every requirement in an orthodontic practice or laboratory. The function of the unit and selection of accessories available, along with the unit’s ergonomic design are all based upon years of developmental experience and close collaboration with orthodontists and their requirements.

Modern technology

Excellent working results

Due to the modern electronic components used together with high quality mechanical elements, Dentaurum’s welding units achieve excellent welding and soldering results. For example, the electronic welding adjustments or the extra wide hand rests make work easy, comfortable and effective.
Master 3000

First class performance for frequent use
Excellent results can be achieved quickly and comfortably with the Master 3000. Especially designed for frequent use.
This unit’s special features, amongst others, are:
- Continuous power adjustment in all modes
- Printer connection for welding report for perfect patient documentation
- Suitable for welding Beta-titanium wires

Assistent 3000

The comfortable unit for average use
With the Assistent 3000, excellent results can be achieved efficiently with average use.
This unit’s special features, amongst others, are:
- 6 welding settings and 2 soldering settings

Junior 3000

The low cost unit for occasional use
Optimal results can be achieved with occasional use with the Junior 3000. This unit is exceptionally easy to operate and has clear and manageable functions.
Equipment and Accessories

### Desktop Compact

**The affordable Desktop Laser Welding Unit for use in orthodontic laboratories.**

The Desktop Compact Laser is a very reasonable, compact laser-welding unit. The energy and capacity of the Desktop Compact Laser enable all welding tasks to be completed with any type of weldable metal / alloy found in an orthodontic laboratory. The unit has a mechanically adjustable focus and 16 programmable settings.

**Technical data:**
- Average output: 20 W
- Peak pulse output: 3 kW
- Max. pulse energy: 30 Joule
- Pulse duration: 0.5-15 ms
- Welding voltage: 150-350 V
- Max. power consumption/Stand by consumption: 2000 W/120 W
- Focussing range: 0.2-2.0 mm
- Single pulse/permanent pulse: both possible
- Permanent pulse frequency: 0.5-5 Hz
- Focus adjustment: mechanical
- Settings storage: 16
- Argon nozzle: 2 flexible
- Microscope: Leica 16 x
- Lighting: 2 x 20 W
- Dimensions: 550 x 460 x 800 mm (W x H x D)
- Weight: 78 kg
- Mains connection: 200-300 V / 50 / 60 Hz
- Miscellaneous: Integrated extraction (optional), REF 090-591-00
- Argon fitting for is not included.

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<tr>
<th>090-590-00</th>
<th>1 piece</th>
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### OrthoPhaser©

**Micro Impulse Welding Unit for orthodontics**

- Comfortably working under the microscope
- Integrated eye protection
- Bright illuminated work area
- Preset welding parameters
- Individual parameter settings, can be stored
- Easy control via LEDs
- User friendly design and very compact
- Technical data: 230 V / 50 / 60 Hz
- Weight: 6 kg

**Availability:**

OrthoPhaser© complete with connecting cable, 10 special tungsten-electrodes, 1 Diasint, 1 glass brush and 2 connecting clasps (Crocodile clips)

Argon fitting for is not included.

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<tr>
<th>090-400-00</th>
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</table>
Argon fitting for laser/OrthoPhaser®
For connecting the OrthoPhaser® to the argon bottle.

Special Tungsten Electrodes
For OrthoPhaser®.
Special electrodes for orthodontic use.

Diasint Disc
For grinding and preparing the special tungsten electrodes. Fully sintered diamond disc, ridged, fine grain. Mounted. Suggested rotations: 10,000 Rpm.
Thickness 0.4 mm, Ø 22 mm
Shaft Ø 2.35 mm

Glass Brush
For OrthoPhaser®.
For cleaning the welding spot.

Connecting Clip
“Crocodile Clips”
For OrthoPhaser®.
With 100 cm cable.

rematitan® Straight Wire, round
According to DIN 17850
For laser welding.
Recommended as additional material for laser welding, such as removable appliances (Titan-Hyrax® Maxi - 12).

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<thead>
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<th>ø</th>
<th>Length</th>
<th>REF</th>
<th>Quantity</th>
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</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>
Equipment and Accessories

rematitan® Wire, round
According to DIN 17850
For laser welding. Recommended as additional material for laser welding, such as removable appliances (Titanium Hyrax® Maxi - 12).

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<th>Length</th>
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<th>Quantity</th>
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<tbody>
<tr>
<td>0,40 mm / 16</td>
<td>2 m</td>
<td>528-039-50</td>
<td>1 piece</td>
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</table>

CoCr Welding Wire
Perfect dimensions for use when laser welding all CoCr alloys. Delustered surface for enhanced energy absorption.

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<th>Length</th>
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<th>Quantity</th>
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<tbody>
<tr>
<td>0,35 mm / 14</td>
<td>2 m</td>
<td>528-210-00</td>
<td>1 piece</td>
</tr>
<tr>
<td>0,50 mm / 20</td>
<td>2 m</td>
<td>528-200-50</td>
<td>1 piece</td>
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</table>

NiCr Welding Wire
For laser welding NiCr based alloys.

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<th>Length</th>
<th>REF</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>0,50 mm / 20</td>
<td>2 m</td>
<td>528-220-00</td>
<td>1 piece</td>
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</tbody>
</table>

Spot Welding Unit – Junior 3000
- Pulse current up to 1200 amps
- Two welding settings
- One soldering setting
- No continuous soldering
- Rocker switch for operating mode
- Connection for hand electrode
- Connection for foot switch
- Model: 230 V / 50 / 60 Hz

Hand electrodes, holder for hand electrodes and foot switch are not included.

| 077-000-00 | 1 piece |

Spot Welding Unit – Assistent 3000
- Pulse current up to 2000 amps
- Six welding settings
- Two soldering settings
- Button for continuous soldering
- LED display
- Automatic voltage detection
- Current limitation if electrode is incorrect
- Power saving device (stand-by mode if not used for 10 minutes)
- Fault signals for:
  - overheating
  - check electrodes
  - connection for handpiece
  - connection for foot switch
- Model: 110-240 V / 50 / 60 Hz

Hand electrodes, holder for hand electrodes and foot switch are not included.

| 078-000-00 | 1 piece |
Spot Welding Unit – Master 3000

- Pulse current up to 2200 amps
- Continuous power adjustment in all modes
- Button for continuous soldering
- LCD-display with 5 language settings
  (German, English, French, Italian, Spanish) for selection by the customer
- Automatic voltage detection (110-240 V)
- Current limitation if electrode is incorrect
- Power saving device (stand-by mode if not used for 10 minutes)
- Fault signals for:
  - overheating
  - check electrodes
  - system problems
- Printer connection e.g. for welding report as patient documentation, REF 090-581-00
- Connection for hand electrode
- Connection for foot switch
- Model: 110-240 V / 50 / 60 Hz
Hand electrodes, holder for hand electrodes and foot switch are not included.

Foot Switch
Can be used for the Spot Welding Units Junior 3000, Assistent 3000 and Master 3000.

Hand Electrode, single
Suitable for all Dentaurum Spot Welding Units.

Holder for Hand Electrode
For right and left side of the Spot Welding Units Junior 3000, Assistent 3000 and Master 3000.

Holder for Hand Electrode
For right side of the Spot Welding Units Junior 3000, Assistent 3000 and Master 3000.
Equipment and Accessories

**Holder for Hand Electrode**
For left side of the Spot Welding Units Junior 3000, Assistent 3000 and Master 3000.

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<th>Code</th>
<th>Quantity</th>
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<tr>
<td>081-206-00</td>
<td>1 piece</td>
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</table>

**Soldering Carbon for Hand Electrode**
With copper casing.
Suitable for all Dentaurum Spot Welding Units.

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<th>Code</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>081-601-00</td>
<td>1 piece</td>
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</table>

**Electrode, notched**
For soft-annealing, tempering and welding.
Suitable for all Dentaurum Spot Welding Units.

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<thead>
<tr>
<th>Code</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>081-501-00</td>
<td>2 pieces</td>
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</table>

**Clamping Electrode**
For soft-annealing, tempering and welding.
Suitable for all Dentaurum Spot Welding Units.

<table>
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<tr>
<th>Code</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>081-701-00</td>
<td>1 piece</td>
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</table>

**Upper Welding Electrode**
- copper
- round, fine
Suitable for all Dentaurum Spot Welding Units.

<table>
<thead>
<tr>
<th>Code</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>085-000-00</td>
<td>1 piece</td>
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</table>

**Upper Welding Electrode**
- copper
- wide, flat
Suitable for all Dentaurum Spot Welding Units.

<table>
<thead>
<tr>
<th>Code</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>085-100-00</td>
<td>1 piece</td>
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</tbody>
</table>

**Upper Welding Electrode**
- copper
- round, thick
Suitable for all Dentaurum Spot Welding Units.

<table>
<thead>
<tr>
<th>Code</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>085-200-00</td>
<td>1 piece</td>
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</tbody>
</table>

**Lower Welding Electrode**
- copper
- round, fine
Suitable for all Dentaurum Spot Welding Units.

<table>
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<tr>
<th>Code</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>086-000-00</td>
<td>1 piece</td>
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</table>

**Lower Welding Electrode**
- copper
- wide, notched
Suitable for all Dentaurum Spot Welding Units.

<table>
<thead>
<tr>
<th>Code</th>
<th>Quantity</th>
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</thead>
<tbody>
<tr>
<td>086-100-00</td>
<td>1 piece</td>
</tr>
</tbody>
</table>
Lower Welding Electrode
- copper
- round, thick
Suitable for all Dentaurum Spot Welding Units.

Lower Welding Electrode
- copper
- wide, flat
Suitable for all Dentaurum Spot Welding Units.

Soldering Electrode
Carbon with holder, suitable for all Dentaurum Spot Welding Units.

Carbon Insert
For Soldering Electrode REF 085-300-00.

Screws
For tightening electrodes on Dentaurum Spot Welding Units.

Fuse, 2 Amp
Slow acting - 220 V.

Fuse, 3.15 Amp
Slow acting - 220 V.

Screw Driver
For replacing electrodes on all Dentaurum Spot Welding Units.

Files
For sanding copper and carbon electrodes on Spot Welding Units.
Equipment and Accessories

Heat Screen
Protects metals, plastics and ceramic parts against heat damage during soldering.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>380-070-00</td>
<td>100 g Heat Screen</td>
<td></td>
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</tbody>
</table>

Dentaflux®
Universal flux for flame and electro soldering.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>681-100-00</td>
<td>50 g Dentaflux®</td>
<td></td>
</tr>
</tbody>
</table>

Universal Solder Pellets
oval
Cadmium free.
Ready fluxed.
Working temperature: 700 °C / 1292 °F

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Quantity</th>
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</thead>
<tbody>
<tr>
<td>381-001-00</td>
<td>25 pieces Universal Solder Pellets oval</td>
<td></td>
</tr>
</tbody>
</table>

Universal Silver Solder Paste
in syringe, each 7.5 g
Cadmium free.
Ready fluxed.
Working temperature: 630 °C / 1166 °F

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>380-804-50</td>
<td>1 piece Universal Silver Solder Paste</td>
<td></td>
</tr>
</tbody>
</table>

Universal Silver Solder
In rods, ready fluxed.
Cadmium free.
Working temperature: 700 °C / 1292 °F

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>380-604-50</td>
<td>1.2 g Universal Silver Solder</td>
<td></td>
</tr>
<tr>
<td>380-604-60</td>
<td>10 x 1.2 g Universal Silver Solder</td>
<td></td>
</tr>
</tbody>
</table>

Universal Silver Solder
In rolls, without flux.
Cadmium free.
Working temperature: 700 °C / 1292 °F

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>380-704-50</td>
<td>10 g Universal Silver Solder</td>
<td></td>
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</tbody>
</table>

White Gold Solder
In rods, ready fluxed.
Cadmium free.
Working temperature: 950 °C / 1742 °F

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<tr>
<th>Code</th>
<th>Description</th>
<th>Quantity</th>
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</thead>
<tbody>
<tr>
<td>380-600-50</td>
<td>1.8 g White Gold Solder</td>
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</tbody>
</table>
Suction unit with charcoal filter
For protection from vapour during processing of plastics in the laboratory. Easy-change filter, device controlled by a light barrier, switches on and off automatically, includes hour meter.

Technical data:
Voltage: 230 V~/ 50 Hz / 100 W
Weight: 6 kg

Dimensions:
220 x 260 x 260 mm / 9 x 10 x 10” (W x H x D)

---

Dual Wheel Model Trimmer
For plaster models. Coarse and fine corundum grinding wheels. Can be used on either side. Separately controlled motor switches with 450 Watt output. Individually controlled water supply by way of magnetic water valve. Work area with squaring and angulation devices.

Technical data:
Voltage: 230 V~/ 50 / 60 Hz
Power Rating: 2 x 450 W
Weight: 39 kg

Dimensions:
510 x 390 x 400 mm/ 20 x 15 x 16” (W x H x D)

Color: Front/grey - Back/blue

---

Corundum Disk, coarse 46
For Dentaurum Dual Wheel Model Trimmer.

---

Corundum Disk, fine 120
For Dentaurum Dual Wheel Model Trimmer.

---

Diamond Wheel
For Dentaurum Dual Wheel Model Trimmer REF 091-100-00. Long life span. High grinding performance. Less force required.

---

Mini-Torch
Ignition and flame adjustment is easy and uncomplicated. Automatic, with a flick of your finger. To fill is easy as filling a lighter. Universal use: Soldering and flaming wax. Adjustable nozzle. GS approved.

Technical Data:
Weight: 180 g
Full capacity of the butane tank: 64 ml
Maximum temperature: 1300 °C / 2372 °F
Dimensions: 142 x 105 mm/ 5 1/2 x 4 1/4” (H x W)
Equipment

Equipment and Accessories

**Thermomat**
Electric wax knife with transformer. 1 wax knife REF 089-602-00 is included.

**Technical Data:**
Voltage: 230 V~ / 50 Hz
Max. Temperature 280 °C / 536 °F adjustable.
Length of cable: 95 cm / 37”

**Wax Knife, small**
For Thermomat REF 089-620-00.

**Model Tip, fine**
For Thermomat REF 089-620-00.

**Model Tip, medium**
For Thermomat REF 089-620-00.

**Wax Knife, large**
For Thermomat REF 089-620-00.

**Modeling Spoon**
For Thermomat REF 089-620-00.

**Hand Piece with Cable**
For Thermomat REF 089-620-00.
A new dimension in orthodontic training
The world of orthodontics becomes more transparent!
A new dimension in orthodontic training

The world of orthodontics becomes more transparent!
Dynamics of Orthodontics

Innovative, competent, international

This joint project of Quintessenz Verlag and Dentaurum is unique in its style and scope. It is unique with regard to the range and depth of facts presented, but also unique in the way the discipline of orthodontics is presented.

The high international reputation and expertise of the authors and also consistent international orientation have produced a work that meets the highest standards of quality, practicality and user-friendliness. The result is that a new standard has been set in conveying the science of orthodontics.

Important aspects at a glance

Modular design

Different aspects of orthodontics are each dealt with in a separate volume. This allows an individualized collection of single volumes to be built up according to interest.

International orientation

In preparing the different topics the main focus was on an internationally orientated presentation. This is the only way to create an excellent basis for international collaboration within the orthodontic community and simplify communication.

The series is available in 6 languages:

Multimedia concept

Conventional print media and modern digital media, such as CD-ROM or DVD, were both used in an effort to improve communication and above all ensure maximum user-friendliness and efficiency.

| Vol. 1: Glossary of Orthodontic Terms | Book | CD | DVD |
| Vol. 1a: Multilingual Glossary of Orthodontic Terms | ✔ | ✔ | |
| Vol. 2a: Facial Growth | ✔ | ✔ | |
| Vol. 2b: Facial Orthopedics | ✔ | ✔ | |
| Vol. 3a: Normal Development of the Dentition | ✔ | ✔ | |
| Vol. 3b: Malocclusions and Interventions | ✔ | ✔ | |
| Vol. 4: Orofacial Functions | ✔ | ✔ | |
| Vol. 5: Facial Growth, Dentition, and Function | ✔ | ✔ | |

Excellent presentation

Particularly with very complex topics, it is essential that facts are well presented to ensure that they can be understood quickly and properly. The use of animated REM images or other computer-generated simulations using state-of-the-art techniques makes viewing familiar facts just as exciting as studying unfamiliar facts.
Glossary of Orthodontic Terms
Daskalogiannakis, Miethke, Sergl, Sernetz

Reference guide for orthodontics

With numerous illustrations and graphics

The Glossary of Orthodontic Terms is an indispensable reference guide for orthodontists, training assistants and dental students as well as specialists in related fields, who work in collaboration with orthodontists. It summarizes the most commonly used and clinically relevant terms clearly in a single volume and is the reference guide on current knowledge of orthodontics.

The glossary is endorsed by the World Federation of Orthodontists.

German edition:
Miethke, Sergl and Sernetz (technical and scientific terms)
296 pages, 2800 terms, 350 illustrations, format 17 x 24 cm

With CD-ROM for Windows and Macintosh (up to OSX 10.3)

Multilingual Glossary of Orthodontic terms
Daskalogiannakis, von Arx, Bolender, Miethke, Sergl, Sernetz, Miotti, Faltin Júnior, Marçon Faltin

International orthodontic lexicon

Interactive search function, interpretations in six languages

International understanding that ensures the best possible exchange of information and knowledge is the basis for active participation in future developments. With this multilingual glossary in six languages it is now possible to find the correct translation of terms from one language into another language. The multilingual glossary offers dentists, orthodontists and other dental specialists worldwide the best possible support for perfect translation and understanding.

Very easy to use
Search in the headlines or throughout the whole text, more than 4000 terms, 350 illustrations, comprehensive interactive user guide

CD-ROM in 6 languages, for Windows

The glossary is endorsed by seven orthodontic associations:
Facial Growth
Van der Linden, McNamara, Radlanski

Stages of facial development

**Simulation in advanced 3D technology**
This multimedia presentation explains the basics of face growth impressively in a highly instructive manner. The focus is on topics relevant to clinical orthodontists. The biological basis of different growth patterns is clearly illustrated. Special attention is given to the effect of functional components on skeletal development.

Comprehensive interactive user guide, very easy to use due to the presentation mode, unique videos of embryonic tooth development, 250 high-quality graphics, interactive 3-D animation

**DVD-ROM** in 6 languages, for Windows

<table>
<thead>
<tr>
<th>Language</th>
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<tr>
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103-001-10 1 piece

Facial Orthopedics
Van der Linden, McNamara, Pancherz, Proffit

Facial orthopaedics in pictures and sound

**Methods and results using various case studies**
This DVD-ROM describes the functions of the various facial orthopedic methods, explains them using results from animal experiments and presents them with clinical cases. The long-term results are shown in detail and the significance of physiological dentition is explained by the phases of dentition development.

Comprehensive interactive user guide, very easy to use due to the presentation mode, unique videos of embryonic tooth development, 260 high-quality graphics, interactive 3-D animation

**DVD-ROM** in 6 languages, für Windows

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>German</td>
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System requirements

**CD-ROM** for Windows:
Pentium-III 500 MHz, 128 megabyte RAM, Windows 98/ME/2000/XP, 1024 x 768 pixel resolution (High Color), CD-ROM with 8x drive speed, 50 MB free space on the hard drive

**DVD-ROM** for Windows:
Pentium-III 500 MHz, 256 megabyte RAM, Windows 2000, XP, 1024 x 768 pixel resolution (High Color), DVD-ROM drive, 50 MB free space on the hard drive
Normal Development of the Dentition
Van der Linden, Radlanski, McNamara

The phases of dentition growth

**Unique 3D simulation of the development**

This DVD uses advanced computer technology to show how human dentition really develops. The three-dimensional perspective provides a fascinating insight into this complex process. Emphasis is placed on the influence of the function on the dentition in the growing skull during this development.

This section shows the variable layout of the teeth during the various development phases; this applies to both the eignathic and the dysgnathic dentition. The connections between the development of the dentition, tooth size and the skull are described. This work also explains which anomalous symptoms may occur during this development.

Malocclusions and Interventions
Van der Linden, Radlanski, McNamara

Description of the various types of dysgnathia

**Knowledge for therapy**

This animated video describes the development of dysgnathia in a way that is important for every orthodontist or dentist practising as an orthodontist. The symptomatology and aetiology of the various dysgnathias are described.

This provides the basis for efficient treatment. Particular emphasis is placed on malfunctions that can be inhibited by interceptive actions.

Such interventions often result in spontaneous corrections or favour the conditions required for subsequent orthodontic treatment.

**DVD-Video in 6 languages**

<table>
<thead>
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Van der Linden, Proffit

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