Ear

- Tympanoplasty
- Otoplasty
- Myringotomy
PANOVIEW Endoscope

1.9 mm

<table>
<thead>
<tr>
<th>Angle of view</th>
<th>Outer ø</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>30°</td>
<td>1.9 mm</td>
<td>8860.443</td>
</tr>
</tbody>
</table>

PANOVIEW PLUS Endoscope

2.4 mm

<table>
<thead>
<tr>
<th>Angle of view</th>
<th>Outer ø</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>30°</td>
<td>2.4 mm</td>
<td>8871.412</td>
</tr>
</tbody>
</table>
## PANOVIEW PLUS Endoscope

### 2.7 mm

<table>
<thead>
<tr>
<th>Angle of view</th>
<th>Outer ø</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>25°</td>
<td></td>
<td>8476.433</td>
</tr>
<tr>
<td>70°</td>
<td>2.7 mm</td>
<td>8476.435</td>
</tr>
</tbody>
</table>

### Endoscope

#### 4.0 mm

<table>
<thead>
<tr>
<th>Angle of view</th>
<th>Outer ø</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>25°</td>
<td>4.0 mm</td>
<td>8484.42</td>
</tr>
</tbody>
</table>

---

**Ear endoscope**

EarNoseOropharynx, Tonsil, PharynxLarynx
Ear Speculum for adults
by Hartmann

<table>
<thead>
<tr>
<th>Ø</th>
<th>Type</th>
<th>Ear Speculum by Hartmann, for adults</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.0 mm</td>
<td>82120.0203</td>
<td></td>
</tr>
<tr>
<td>4.0 mm</td>
<td>82120.0204</td>
<td></td>
</tr>
<tr>
<td>5.0 mm</td>
<td>82120.0205</td>
<td></td>
</tr>
<tr>
<td>6.0 mm</td>
<td>82120.0206</td>
<td></td>
</tr>
<tr>
<td>7.5 mm</td>
<td>82120.0207</td>
<td></td>
</tr>
</tbody>
</table>
### Retractors

<table>
<thead>
<tr>
<th>Type</th>
<th>Length</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Retractor by Plester, 2 prongs blunt right, solid blade left</td>
<td></td>
<td>82120.0413</td>
</tr>
<tr>
<td>Retractor by Plester, 2 prongs blunt left, solid blade right</td>
<td>130 mm</td>
<td>82120.0513</td>
</tr>
<tr>
<td>Retractor by Plester, 2/2 prongs, blunt</td>
<td></td>
<td>82120.0613</td>
</tr>
<tr>
<td>Retractor by Wullstein, 3/3 prongs, sharp</td>
<td>130 mm</td>
<td>82120.1213</td>
</tr>
<tr>
<td>Retractor by Weitlaner, 3/4 prongs</td>
<td>130 mm</td>
<td>82120.1413</td>
</tr>
<tr>
<td>Retractor by Weitlaner, 3/4 prongs</td>
<td>160 mm</td>
<td>82120.1416</td>
</tr>
</tbody>
</table>
## Retractor, Hand Retractor

![Hand Retractor Image](image)

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Retractor by Fisch, 3/3 prongs, blunt, with adjustable arms</td>
<td></td>
<td>82120.1017</td>
</tr>
<tr>
<td>Hand retractor, 3 prongs</td>
<td></td>
<td>82120.1603</td>
</tr>
</tbody>
</table>

- **Retractor by Fisch, 3/3 prongs, blunt, with adjustable arms**
  - Length: 170 mm

- **Hand retractor, 3 prongs**
  - Length: 130 mm
# Gelfoam Press

<table>
<thead>
<tr>
<th>Blade</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gelfoam press</td>
<td>23 x 31 mm</td>
</tr>
</tbody>
</table>

200 mm
Wire Bending Forceps
by McGee

<table>
<thead>
<tr>
<th>Jaw</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wire bending forceps by McGee, curved downwards</td>
<td>5 mm</td>
</tr>
</tbody>
</table>
## Ear Forceps

<table>
<thead>
<tr>
<th>Jaw</th>
<th>WL</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ear forceps by Fisch,</td>
<td>80 mm</td>
<td>82130.0000</td>
</tr>
<tr>
<td>serrated, straight</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ear forceps by Fisch,</td>
<td>80 mm</td>
<td>82130.0010</td>
</tr>
<tr>
<td>flat, straight</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ear forceps by Hartmann,</td>
<td>80 mm</td>
<td>82130.0200</td>
</tr>
<tr>
<td>serrated, straight</td>
<td>105 mm</td>
<td>82130.0300</td>
</tr>
<tr>
<td>Ear forceps by Hartmann,</td>
<td>80 mm</td>
<td>82130.0400</td>
</tr>
<tr>
<td>serrated, straight</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ear forceps,</td>
<td>80 mm</td>
<td>82130.0201</td>
</tr>
<tr>
<td>serrated, curved right</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ear forceps,</td>
<td>80 mm</td>
<td>82130.0202</td>
</tr>
<tr>
<td>serrated, curved left</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ear forceps</td>
<td>80 mm</td>
<td>82130.0203</td>
</tr>
<tr>
<td>serrated, curved upwards</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Ear Forceps
by Heermann

<table>
<thead>
<tr>
<th>Jaw</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ear forceps by Heermann, serrated, straight</td>
<td>3.5 x 0.8 mm</td>
</tr>
<tr>
<td>Ear forceps by Heermann, serrated, straight</td>
<td>5.0 x 1.0 mm</td>
</tr>
</tbody>
</table>
# Ear Forceps

![Ear Forceps Image](image)

<table>
<thead>
<tr>
<th>Jaws</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ear forceps by Wullstein, straight</strong></td>
<td>0.5 x 0.6 mm oval</td>
</tr>
<tr>
<td><strong>Ear forceps by Wullstein, straight</strong></td>
<td>1.0 x 0.9 mm oval</td>
</tr>
<tr>
<td><strong>Ear forceps by Wullstein, curved right</strong></td>
<td>1.0 mm ø round</td>
</tr>
<tr>
<td><strong>Ear forceps by Wullstein, curved left</strong></td>
<td>2.0 mm ø round</td>
</tr>
<tr>
<td><strong>Ear forceps by Wullstein, curved upwards</strong></td>
<td>2.5 mm ø round</td>
</tr>
<tr>
<td><strong>Ear forceps by Wullstein, straight</strong></td>
<td>3.0 mm ø round</td>
</tr>
<tr>
<td><strong>Ear forceps by Wullstein, curved right</strong></td>
<td>3.5 mm ø round</td>
</tr>
<tr>
<td><strong>Ear forceps by Wullstein, curved left</strong></td>
<td>4.0 mm ø round</td>
</tr>
<tr>
<td><strong>Ear forceps by Wullstein, curved upwards</strong></td>
<td>4.5 mm ø round</td>
</tr>
</tbody>
</table>

**Ear forceps by Hartmann, straight**

**Ear forceps by Hartmann, straight**
Ear Forceps
by Hartmann

<table>
<thead>
<tr>
<th>Ear forceps by Hartmann, cutting, straight</th>
<th>82130.1600</th>
</tr>
</thead>
</table>

Type

Ear
Larynx
Oropharynx, Tonsil, Pharynx
Nose
Larynx
# Malleus Nippers

by House-Dieter

![Malleus Nippers Image](image)

<table>
<thead>
<tr>
<th>Type</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Malleus nipper by House-Dieter, upwards cutting</td>
<td>82140.0203</td>
</tr>
<tr>
<td>Malleus nipper by House-Dieter, downwards cutting</td>
<td>82140.0204</td>
</tr>
</tbody>
</table>
## Micro Scissors
by Bellucci

![Micro Scissors Diagram]

<table>
<thead>
<tr>
<th>Micro scissors by Bellucci, extra delicate, straight</th>
<th>Blade</th>
<th>WL</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Micro scissors by Bellucci, extra delicate, straight</td>
<td>3.5 mm</td>
<td>80 mm</td>
<td>82140.1001</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Micro scissors by Bellucci, delicate, straight</th>
<th>Blade</th>
<th>WL</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Micro scissors by Bellucci, delicate, straight</td>
<td>4.5 mm</td>
<td>80 mm</td>
<td>82140.1200</td>
</tr>
<tr>
<td>Micro scissors by Bellucci, delicate, straight</td>
<td>4.5 mm</td>
<td>125 mm</td>
<td>82140.1300</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Micro scissors by Bellucci, straight</th>
<th>Blade</th>
<th>WL</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Micro scissors by Bellucci, straight</td>
<td>8.0 mm</td>
<td>80 mm</td>
<td>82140.1400</td>
</tr>
</tbody>
</table>
### Scissors

<table>
<thead>
<tr>
<th>Type</th>
<th>Size</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wire cutter by Guilford-Wright, with teeth</td>
<td></td>
<td>82140.1600</td>
</tr>
<tr>
<td>Scissors, curved, sharp / blunt</td>
<td>2</td>
<td>82140.1812</td>
</tr>
</tbody>
</table>
## Rongeurs

<table>
<thead>
<tr>
<th>Type</th>
<th>Length</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rongeur by Jansen, s-shaped</td>
<td>170 mm</td>
<td>82140.0400</td>
</tr>
<tr>
<td>Rongeur by Luer, curved</td>
<td>175 mm</td>
<td>82140.0600</td>
</tr>
<tr>
<td>Rongeur by Ruskin, double joint, curved</td>
<td>190 mm</td>
<td>82140.0800</td>
</tr>
</tbody>
</table>
Bone Punches
by Citelli

<table>
<thead>
<tr>
<th>Size</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>82140.0001</td>
</tr>
<tr>
<td>2</td>
<td>82140.0002</td>
</tr>
<tr>
<td>3</td>
<td>82140.0003</td>
</tr>
</tbody>
</table>

Bone punch by Citelli
### Raspatories

<table>
<thead>
<tr>
<th>Type</th>
<th>Width</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Raspatory by Lempert, straight</td>
<td>3 mm</td>
<td>82150.0403</td>
</tr>
<tr>
<td>Raspatory by Lempert, straight</td>
<td>7 mm</td>
<td>82150.0407</td>
</tr>
<tr>
<td>Raspatory by Wullstein, straight</td>
<td></td>
<td>82150.0603</td>
</tr>
<tr>
<td>Raspatory by Plester, slightly curved</td>
<td>8 mm</td>
<td>82150.0808</td>
</tr>
</tbody>
</table>
## Cotton Applicators, Wire Guide and Applicator, Probe, Ear Hook

### Cotton Applicator by Farrel, Serrated End

<table>
<thead>
<tr>
<th>ø</th>
<th>Length</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.9 mm</td>
<td>120 mm</td>
<td>82150.0012</td>
</tr>
<tr>
<td>0.9 mm</td>
<td>140 mm</td>
<td>82150.0014</td>
</tr>
<tr>
<td>1.1 mm</td>
<td>160 mm</td>
<td>82150.0016</td>
</tr>
</tbody>
</table>

### Wire Guide and Applicator for Prosthesis by Plester

<table>
<thead>
<tr>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>82150.1200</td>
</tr>
</tbody>
</table>

### Probe by Wagener, Curved

<table>
<thead>
<tr>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>82150.1403</td>
</tr>
</tbody>
</table>

### Ear Hook by Day

<table>
<thead>
<tr>
<th>Size</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>82150.1001</td>
</tr>
<tr>
<td>2</td>
<td>82150.1002</td>
</tr>
</tbody>
</table>
### Hooks by Shambaugh

<table>
<thead>
<tr>
<th>Hook Type</th>
<th>Size</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hook by Shambaugh, 45° angled</td>
<td>0.4 mm</td>
<td>82160.1604</td>
</tr>
<tr>
<td></td>
<td>0.6 mm</td>
<td>82160.1606</td>
</tr>
<tr>
<td></td>
<td>0.8 mm</td>
<td>82160.1608</td>
</tr>
<tr>
<td></td>
<td>1.0 mm</td>
<td>82160.1610</td>
</tr>
<tr>
<td></td>
<td>1.5 mm</td>
<td>82160.1615</td>
</tr>
<tr>
<td></td>
<td>2.0 mm</td>
<td>82160.1620</td>
</tr>
<tr>
<td></td>
<td>2.5 mm</td>
<td>82160.1625</td>
</tr>
<tr>
<td>Hook by Shambaugh, 90° angled</td>
<td>0.4 mm</td>
<td>82160.1804</td>
</tr>
<tr>
<td></td>
<td>0.6 mm</td>
<td>82160.1806</td>
</tr>
<tr>
<td></td>
<td>0.8 mm</td>
<td>82160.1808</td>
</tr>
<tr>
<td></td>
<td>1.0 mm</td>
<td>82160.1810</td>
</tr>
<tr>
<td></td>
<td>1.2 mm</td>
<td>82160.1812</td>
</tr>
<tr>
<td></td>
<td>1.5 mm</td>
<td>82160.1815</td>
</tr>
<tr>
<td></td>
<td>2.0 mm</td>
<td>82160.1820</td>
</tr>
<tr>
<td></td>
<td>2.5 mm</td>
<td>82160.1825</td>
</tr>
<tr>
<td></td>
<td>3.0 mm</td>
<td>82160.1830</td>
</tr>
<tr>
<td></td>
<td>4.0 mm</td>
<td>82160.1840</td>
</tr>
<tr>
<td></td>
<td>5.0 mm</td>
<td>82160.1850</td>
</tr>
<tr>
<td>Hook by Shambaugh, retrograde curved</td>
<td>1.0 mm</td>
<td>82160.2010</td>
</tr>
</tbody>
</table>
# Hooks

<table>
<thead>
<tr>
<th>Length Type</th>
<th>Tip</th>
<th>Length</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Footplate hook by Plester</td>
<td>0.6 mm</td>
<td>155 mm</td>
<td>82160.1206</td>
</tr>
</tbody>
</table>

| Hook by Heermann, retrograde | 0.8 mm | 150 mm | 82160.1005 |

| Hook by Piester, retrograde | 2.0 mm |        | 82160.1420 |
### Needles, Perforators, Tympanum Perforator

<table>
<thead>
<tr>
<th>Tip Type</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>straight</td>
<td>82160.2400</td>
</tr>
<tr>
<td>slightly curved</td>
<td>82160.2401</td>
</tr>
<tr>
<td>strongly curved</td>
<td>82160.2402</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tip Type</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.3 mm Ø</td>
<td>82160.3003</td>
</tr>
<tr>
<td>0.4 mm Ø</td>
<td>82160.3004</td>
</tr>
<tr>
<td>0.5 mm Ø</td>
<td>82160.3005</td>
</tr>
<tr>
<td>0.6 mm Ø</td>
<td>82160.3006</td>
</tr>
</tbody>
</table>

### Tympanum Perforator

<table>
<thead>
<tr>
<th>Tip Type</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tympanum perforator by Politzer, delicate, knee angled</td>
<td>82160.2600</td>
</tr>
</tbody>
</table>
Round Cutting Knives
by Rosen

<table>
<thead>
<tr>
<th>Ø</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0 mm</td>
<td>82160.3610</td>
</tr>
<tr>
<td>1.5 mm</td>
<td>82160.3615</td>
</tr>
<tr>
<td>2.0 mm</td>
<td>82160.3620</td>
</tr>
<tr>
<td>2.3 mm</td>
<td>82160.3623</td>
</tr>
<tr>
<td>2.5 mm</td>
<td>82160.3625</td>
</tr>
<tr>
<td>3.0 mm</td>
<td>82160.3630</td>
</tr>
</tbody>
</table>

Round cutting knife by Rosen, straight

<table>
<thead>
<tr>
<th>Ø</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0 mm</td>
<td>82160.3810</td>
</tr>
<tr>
<td>1.5 mm</td>
<td>82160.3815</td>
</tr>
<tr>
<td>2.0 mm</td>
<td>82160.3820</td>
</tr>
<tr>
<td>2.3 mm</td>
<td>82160.3823</td>
</tr>
<tr>
<td>2.5 mm</td>
<td>82160.3825</td>
</tr>
<tr>
<td>3.0 mm</td>
<td>82160.3830</td>
</tr>
<tr>
<td>3.5 mm</td>
<td>82160.3835</td>
</tr>
</tbody>
</table>

Round cutting knife by Rosen, 45° angled

<table>
<thead>
<tr>
<th>Ø</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0 mm</td>
<td>82160.4010</td>
</tr>
<tr>
<td>1.5 mm</td>
<td>82160.4015</td>
</tr>
<tr>
<td>2.0 mm</td>
<td>82160.4020</td>
</tr>
<tr>
<td>2.3 mm</td>
<td>82160.4023</td>
</tr>
<tr>
<td>2.5 mm</td>
<td>82160.4025</td>
</tr>
</tbody>
</table>
## Knives

<table>
<thead>
<tr>
<th>Tip Type</th>
<th>Tip</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>straight</td>
<td>Discussion knife for footplate</td>
<td>82160.2800</td>
</tr>
<tr>
<td>2.4 x 3.0 mm</td>
<td>Flap knife by Plester, round cutting</td>
<td>82160.3201</td>
</tr>
<tr>
<td>2.4 x 3.5 mm</td>
<td></td>
<td>82160.3202</td>
</tr>
<tr>
<td>slightly curved</td>
<td>Sickle knife by Plester, double-edged</td>
<td>82160.3401</td>
</tr>
<tr>
<td>middle curved</td>
<td></td>
<td>82160.3402</td>
</tr>
<tr>
<td>strongly curved</td>
<td></td>
<td>82160.3403</td>
</tr>
</tbody>
</table>
# Ear Curettes

by Buck

<table>
<thead>
<tr>
<th>Size</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>00</td>
<td>82160.0020</td>
</tr>
<tr>
<td>0</td>
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<tr>
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<td>82160.0002</td>
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<tr>
<td>3</td>
<td>82160.0003</td>
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**Ear curette by Buck, blunt, curved**

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>00</td>
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<tr>
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<td>1</td>
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<td>3</td>
<td>82160.0203</td>
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</table>

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**Ear curette by Buck, sharp, curved**

---

[Diagram of ear curettes]

---

Ear: 145 mm
## Spoons

<table>
<thead>
<tr>
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<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spoon by House, double ended, oval cups, small</td>
<td>145 mm</td>
<td>82160.0601</td>
</tr>
<tr>
<td>Spoon by House, double ended, oval cups, big</td>
<td>170 mm</td>
<td>82160.0602</td>
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</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Size</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spoon by Spratt</td>
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<td>82160.0440</td>
</tr>
<tr>
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<td>000</td>
<td>82160.0430</td>
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</tr>
<tr>
<td></td>
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### Hemostatic Chisel by Passow

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<tr>
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<td>120 mm</td>
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<tr>
<td>3.5 x 3.5 mm</td>
<td>130 mm</td>
<td>82160.2235</td>
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Adaptors, Suction Cannulas

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>100 mm</td>
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</tr>
<tr>
<td>55 mm</td>
<td>82170.0400</td>
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</table>

### Suction Cannula, straight, malleable, Luer-lock

<table>
<thead>
<tr>
<th>Pieces</th>
<th>ø</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>0.5 mm</td>
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</tr>
<tr>
<td>0.7 mm</td>
<td>82170.0607</td>
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</tr>
<tr>
<td>1.3 mm</td>
<td>82170.0613</td>
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</tr>
<tr>
<td>1.5 mm</td>
<td>82170.0615</td>
<td></td>
</tr>
<tr>
<td>2.0 mm</td>
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<td></td>
</tr>
<tr>
<td>2.5 mm</td>
<td>82170.0625</td>
<td></td>
</tr>
<tr>
<td>3.0 mm</td>
<td>82170.0630</td>
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</tbody>
</table>

### Suction Cannula, knee angled, Luer-lock

<table>
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<th>ø</th>
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<tbody>
<tr>
<td>5</td>
<td>0.5 mm</td>
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<tr>
<td>0.7 mm</td>
<td>82170.0807</td>
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<tr>
<td>0.8 mm</td>
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</tr>
<tr>
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</tr>
<tr>
<td>1.3 mm</td>
<td>82170.0813</td>
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</tr>
<tr>
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<td>82170.0815</td>
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</tr>
<tr>
<td>2.0 mm</td>
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</table>
### Suction Tubes

#### Suction tube by Plester, with cut-off hole and stylet, Luer-cone

<table>
<thead>
<tr>
<th>ø</th>
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</tr>
</thead>
<tbody>
<tr>
<td>1.5 mm</td>
<td>82170.1005</td>
</tr>
<tr>
<td>2.3 mm</td>
<td>82170.1007</td>
</tr>
<tr>
<td>2.6 mm</td>
<td>82170.1008</td>
</tr>
<tr>
<td>3.0 mm</td>
<td>82170.1009</td>
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</table>

#### Suction tube by Ferguson with cut-off hole and stylet, Luer-cone

<table>
<thead>
<tr>
<th>ø</th>
<th>Type</th>
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<tbody>
<tr>
<td>2.0 mm</td>
<td>82170.1206</td>
</tr>
<tr>
<td>2.6 mm</td>
<td>82170.1208</td>
</tr>
<tr>
<td>3.0 mm</td>
<td>82170.1209</td>
</tr>
<tr>
<td>3.3 mm</td>
<td>82170.1210</td>
</tr>
<tr>
<td>4.0 mm</td>
<td>82170.1212</td>
</tr>
<tr>
<td>5.0 mm</td>
<td>82170.1215</td>
</tr>
</tbody>
</table>

#### Suction tube, conical, straight, malleable, Luer

<table>
<thead>
<tr>
<th>ø</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.0 mm</td>
<td>82170.0030</td>
</tr>
</tbody>
</table>
Nose • Paranasal Sinuses • Transnasal Surgery of the Pituitary Gland
<table>
<thead>
<tr>
<th>Item</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic Sets</td>
<td>1-2</td>
</tr>
<tr>
<td>Panoview Plus Endoscopes</td>
<td>3-5</td>
</tr>
<tr>
<td>Suction-Irrigation Handle</td>
<td>6-7</td>
</tr>
<tr>
<td>Sheaths</td>
<td>8</td>
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<tr>
<td>Handles</td>
<td>9</td>
</tr>
<tr>
<td>Laser Sheath</td>
<td>10</td>
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<tr>
<td>Sinuscope-Trocars</td>
<td>11</td>
</tr>
<tr>
<td>Flexible Naso-Pharyngo-Laryngoscopes</td>
<td>12</td>
</tr>
<tr>
<td>Nasal Speculums</td>
<td>13</td>
</tr>
<tr>
<td>Forceps</td>
<td>14-28, 42-43</td>
</tr>
<tr>
<td>Punches</td>
<td>29-32</td>
</tr>
<tr>
<td>Scissors</td>
<td>33-39</td>
</tr>
<tr>
<td>Nasal Polyp Snares</td>
<td>40</td>
</tr>
<tr>
<td>Retractors</td>
<td>43</td>
</tr>
<tr>
<td>Elevators</td>
<td>44-46</td>
</tr>
<tr>
<td>Probes</td>
<td>47</td>
</tr>
<tr>
<td>Frontal Sinus Bougies</td>
<td>48</td>
</tr>
<tr>
<td>Chisels</td>
<td>49</td>
</tr>
<tr>
<td>Saws, Rasps</td>
<td>50</td>
</tr>
<tr>
<td>Knives</td>
<td>51-52</td>
</tr>
<tr>
<td>Hooks, Retractors</td>
<td>53</td>
</tr>
<tr>
<td>Spoons</td>
<td>54-55</td>
</tr>
<tr>
<td>Curettes</td>
<td>56</td>
</tr>
<tr>
<td>Cannulas</td>
<td>57-59</td>
</tr>
<tr>
<td>Suction and Irrigation Tubes</td>
<td>60</td>
</tr>
<tr>
<td>Septum Cannulas</td>
<td>61</td>
</tr>
<tr>
<td>Mallets</td>
<td>62</td>
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</table>
Frontal Sinus Set
by Schaefer*

<table>
<thead>
<tr>
<th>Article</th>
<th>Types</th>
<th>pcs.</th>
<th>Order</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ostium probe</td>
<td>8211.931</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Suction tube, 3 mm ø</td>
<td>8211.031</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Rasp, 4 mm ø</td>
<td>8211.881</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Rasp, 3 mm ø</td>
<td>8211.882</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Rasp, 3 mm ø, fine</td>
<td>8211.831</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Curette, 75° curve</td>
<td>8211.862</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Curette, 105° curve</td>
<td>8211.861</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Double-spoon forceps, 2.5 mm ø</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>45° curve</td>
<td>8211.185</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>80° curve</td>
<td>8211.188</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>110° curve</td>
<td>8211.189</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>70°, opening horizontally</td>
<td>8211.19</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>70°, opening vertically</td>
<td>8211.39</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

* Steven D. Schaefer, M.D. Professor and Chairman,
  Dept. of Otolaryngology, New York Eye and Ear Infirmary,
  Second Ave. at 14th Street, New York, NY 10003
<table>
<thead>
<tr>
<th>Article</th>
<th>Types</th>
<th>pcs.</th>
<th>Order</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ergoline nasal scissors by Wolf, shaft curved right, jaws straight</td>
<td>8211.241</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Ergoline nasal scissors by Wolf, shaft curved right, jaws curved upwards</td>
<td>8211.242</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Ergoline nasal forceps by Wolf, cutting, straight jaws, shaft curved right</td>
<td>8211.243</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Ergoline nasal forceps by Wolf, cutting, jaws curved upwards, shaft curved right</td>
<td>8211.244</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Ergoline nasal scissors by Wolf, jaws straight, shaft curved right</td>
<td>8211.245</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Ergoline punch by Wolf, swiveling, right cutting action, shaft curved right</td>
<td>8211.246</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Ergoline punch by Wolf, swiveling, left cutting action, shaft curved right</td>
<td>8211.247</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Ergoline scissor blade punch by Wolf, right cutting action</td>
<td>8211.248</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Ergoline scissor blade punch by Wolf, left cutting action</td>
<td>8211.249</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Ergoline nasal scissors Metzenbaum, straight blades, shaft curved right</td>
<td>8211.251</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Ergoline nasal scissors Metzenbaum, blades curved right, shaft straight</td>
<td>8211.253</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Ergoline nasal scissors Metzenbaum, blades curved right, shaft straight</td>
<td>8211.254</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Ergoline antrum suction cannula, short curved 2.5 mm ø</td>
<td>8150.161</td>
<td>1</td>
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</tr>
<tr>
<td>Ergoline antrum suction cannula, short curved 3.1 mm ø</td>
<td>8150.171</td>
<td>1</td>
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<tr>
<td>Ergoline antrum suction cannula, short curved 4.0 mm ø</td>
<td>8150.181</td>
<td>1</td>
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<tr>
<td>Ergoline nasal suction tube, curved right</td>
<td>8150.191</td>
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</table>
## PANOVIEW PLUS Endoscopes

### 1.9 mm

<table>
<thead>
<tr>
<th>Angle of View</th>
<th>Outer Ø</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>5°</td>
<td></td>
<td>8860.431</td>
</tr>
<tr>
<td>25°</td>
<td>1.9 mm</td>
<td>8860.433</td>
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### 2.7 mm

<table>
<thead>
<tr>
<th>Angle of View</th>
<th>Outer Ø</th>
<th>WL</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>0°</td>
<td></td>
<td>180 mm</td>
<td>8672.421</td>
</tr>
<tr>
<td>25°</td>
<td>2.7 mm</td>
<td>180 mm</td>
<td>8672.422</td>
</tr>
<tr>
<td></td>
<td></td>
<td>100 mm</td>
<td>8476.433</td>
</tr>
<tr>
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<td></td>
<td>180 mm</td>
<td>8672.425</td>
</tr>
<tr>
<td></td>
<td></td>
<td>115 mm</td>
<td>8476.435</td>
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## PANOVIEPLUS Endoscopes

### 4.0 mm

<table>
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<tr>
<th>Angle of view</th>
<th>Outer ø</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>0°</td>
<td></td>
<td>8880.541</td>
</tr>
<tr>
<td>30°</td>
<td></td>
<td>8880.543</td>
</tr>
<tr>
<td>45°</td>
<td>4.0 mm</td>
<td>8880.544</td>
</tr>
<tr>
<td>70°</td>
<td></td>
<td>8880.545</td>
</tr>
<tr>
<td>90°</td>
<td></td>
<td>8880.437</td>
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</table>
## PANOVIEW 3 Wide Angle Endoscopes

4.0 mm

<table>
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<th>Angle of view</th>
<th>Outer ø</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>0°</td>
<td></td>
<td>8880.541</td>
</tr>
<tr>
<td>30°</td>
<td>4.0 mm</td>
<td>8885.443</td>
</tr>
<tr>
<td>70°</td>
<td></td>
<td>8885.445</td>
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</tbody>
</table>
Suction-Irrigation Handle
for sinus surgery

- simple operation, no awkward, tiring movements
- adequate irrigation and suction
- self-cleaning suction channel
- use of modern materials
- universal application with suction-irrigation sheaths

Suction-irrigation handle for sinus surgery . . . . . . . . . . . 8475.26
For endonasal surgery of the paranasal sinuses and the base of the skull, an unobstructed view of the deep cavities is as important as the precise technique of the surgeon.

The suction-irrigation handle by Wigand is used to support exchangeable sheaths and endoscopes with 70°, 25° or 30° angles of view.

The ability to turn the endoscope through 360° makes it possible to “look around the corner”.

Irrigation and aspiration at the objective lens guarantees a constantly clear view.

Suction-irrigation handle by Wigand . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . ..
**Sheaths**

<table>
<thead>
<tr>
<th>Endoscope ø</th>
<th>For endoscope</th>
<th>Angle of view</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.0 mm</td>
<td>8880.541</td>
<td>0°</td>
<td>8475.031</td>
</tr>
<tr>
<td></td>
<td>8880.543</td>
<td>30°</td>
<td>8475.041</td>
</tr>
<tr>
<td></td>
<td>8880.544</td>
<td>45°</td>
<td>8475.071</td>
</tr>
<tr>
<td></td>
<td>8880.545</td>
<td>70°</td>
<td>8475.133</td>
</tr>
<tr>
<td>2.7 mm</td>
<td>8672.421</td>
<td>0°</td>
<td>8475.031</td>
</tr>
<tr>
<td></td>
<td>8672.422</td>
<td>30°</td>
<td>8475.041</td>
</tr>
<tr>
<td></td>
<td>8672.425</td>
<td>70°</td>
<td>8475.071</td>
</tr>
</tbody>
</table>

*Exchangeable sheath for use with the suction-irrigation handle 8475.26 or 8475.25*

**Endoscope guide tube by Klossek**

<table>
<thead>
<tr>
<th>Endoscope ø</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.0 mm</td>
<td>8475.161</td>
</tr>
</tbody>
</table>

*for guiding the endoscope in the suction-irrigation handle without using the suction-irrigation function*
## Handles

for 4.0 mm Endoscopes

<table>
<thead>
<tr>
<th>Type</th>
<th>8475.271</th>
<th>8880.451</th>
</tr>
</thead>
<tbody>
<tr>
<td>Handle, hexagonal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Handle, round</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Laser Sheath
by Scherer
for use with 2.7 mm endoscopes

For laser fibers up to a maximum of 1 mm diameter

<table>
<thead>
<tr>
<th>Laser sheath, working channel 1.2 mm, irrigation channel 1.2 mm</th>
<th>For endoscope</th>
<th>Angle of view</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laser sheath, working channel 1.2 mm, irrigation channel 1.2 mm</td>
<td>8672.411</td>
<td>0°</td>
<td>8473.011</td>
</tr>
<tr>
<td></td>
<td>8672.422</td>
<td>30°</td>
<td></td>
</tr>
<tr>
<td></td>
<td>8672.425</td>
<td>70°</td>
<td></td>
</tr>
</tbody>
</table>

Sinuscope-Trocars

<table>
<thead>
<tr>
<th>Sinuscope Trocar sleeve with pyramidal trocar</th>
<th>Sleeve</th>
<th>Trocar</th>
<th>Ø</th>
<th>WL</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>8471.235</td>
<td>8471.237</td>
<td>4.0 mm</td>
<td>95 mm</td>
<td>8471.231</td>
</tr>
<tr>
<td></td>
<td>8474.235</td>
<td>8474.237</td>
<td>2.7 mm</td>
<td></td>
<td>8474.231</td>
</tr>
</tbody>
</table>
Flexible Naso-Pharyngo-Laryngoscopes

3.5 mm

<table>
<thead>
<tr>
<th>Angle of view</th>
<th>Outer Ø</th>
<th>WL</th>
<th>Instrument channel Ø</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flexible Naso-Pharyngo-Laryngoscope including: water tightness tester (163.903) and gas sterilization valve (163.904)</td>
<td>0°</td>
<td>3.5 mm</td>
<td>300 mm</td>
<td>1.1 mm</td>
</tr>
</tbody>
</table>

also:
- Flexible biopsy forceps, 1mm Ø ........................................... 829.601
- Flexible grasping forceps, 1mm Ø ...................................... 828.651
- HF button electrode, 1mm Ø ............................................. 7223.911
- Irrigation- and suction instrument port ................................ 7223.75
## Technical Data

Naso-Pharyngo-Laryngoscopes

<table>
<thead>
<tr>
<th>Specification</th>
<th>Specification Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working length</td>
<td>300 mm</td>
</tr>
<tr>
<td>Viewing direction</td>
<td>0°</td>
</tr>
<tr>
<td>Diameter at distal end</td>
<td>3.5 mm</td>
</tr>
<tr>
<td>Instrument channel</td>
<td>1.1 mm (7223.001 only)</td>
</tr>
<tr>
<td>Deflection</td>
<td>up 130°, down 130°</td>
</tr>
<tr>
<td>Angle of view</td>
<td>95°</td>
</tr>
<tr>
<td>Depth of focus</td>
<td>3 - 50 mm</td>
</tr>
<tr>
<td>Light cable</td>
<td>fixed</td>
</tr>
<tr>
<td>Eyepiece</td>
<td>ISO Standard</td>
</tr>
</tbody>
</table>
## Nasal Speculums

<table>
<thead>
<tr>
<th>Type</th>
<th>Blade</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nasal speculum “BWK Amberg”</td>
<td>left 45 mm, right 75 mm</td>
<td>8211.27</td>
</tr>
<tr>
<td></td>
<td>left 75 mm, right 45 mm</td>
<td>8211.28</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Blade</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nasal speculum by Hartmann with set-screw</td>
<td>30 x 7 mm</td>
<td>8211.34</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Length</th>
<th>Blade</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nasal speculum by Coffie, with aseptic joint and set-screw</td>
<td>145 mm</td>
<td>35 x 7 mm</td>
<td>82220.0235</td>
</tr>
<tr>
<td></td>
<td></td>
<td>55 x 7 mm</td>
<td>82220.0255</td>
</tr>
<tr>
<td></td>
<td></td>
<td>75 x 7 mm</td>
<td>82220.0275</td>
</tr>
</tbody>
</table>
# Forceps

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lower lateral forceps by Cottle, bayonet-shaped, with set-screw</td>
<td>82230.2814</td>
<td></td>
</tr>
<tr>
<td>Nasal dressing forceps by Jansen, bayonet-shaped</td>
<td>82230.3216</td>
<td></td>
</tr>
</tbody>
</table>

## Columella Clamp

by Cottle

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>Columella clamp by Cottle, with fixation bearings and set-screw</td>
<td>82230.3011</td>
<td></td>
</tr>
</tbody>
</table>
## Needle Holders

<table>
<thead>
<tr>
<th>1:1</th>
<th>Length</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Image" /> Needle holder by Masing, tungsten carbide</td>
<td>130 mm</td>
<td>82230.1813</td>
</tr>
<tr>
<td><img src="image2.png" alt="Image" /> Needle holder by Crile-Wood</td>
<td>150 mm</td>
<td>82230.2615</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1:1</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image3.png" alt="Image" /> Needle Holder by Masing, ear forceps shaped, jaws inside flat</td>
<td>82230.2010</td>
</tr>
</tbody>
</table>
Nasal Dressing Forceps
by Lubet-Baron

<table>
<thead>
<tr>
<th>1:1</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image.png" alt="Diagram" /></td>
<td>Nasal dressing forceps by Lubet-Baron, serrated</td>
</tr>
<tr>
<td><img src="image.png" alt="Diagram" /></td>
<td>Nasal dressing forceps by Lubet-Baron, flat</td>
</tr>
</tbody>
</table>
Nasal Forceps
by Weil-Blakesley

<table>
<thead>
<tr>
<th>Type</th>
<th>Size</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nasal Forceps by Weil-Blakesley, straight</td>
<td>0</td>
<td>82230.0010</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>8211.101</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>8211.111</td>
</tr>
<tr>
<td>Nasal Forceps by Weil-Blakesley, 45° curved upwards</td>
<td>0</td>
<td>82230.0210</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>8211.134</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>8211.131</td>
</tr>
</tbody>
</table>

- Larynx
- Oropharynx
- Tonsil
- Pharynx
- Nose
- Ear
- Larynx
- Oropharynx
- Tonsil
- Pharynx
- Nose
### Nasal Forceps

#### Nasal Forceps by Weil-Blakesley, 90° curved upwards

<table>
<thead>
<tr>
<th>Size</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>8211.144</td>
</tr>
<tr>
<td>3</td>
<td>8211.14</td>
</tr>
</tbody>
</table>

#### Ergoline Nasal Forceps by Wolf, shaft curved right, jaws straight

<table>
<thead>
<tr>
<th>Size</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>8211.241</td>
</tr>
</tbody>
</table>

#### Ergoline Nasal Forceps by Wolf, shaft curved right, jaws angled upwards

<table>
<thead>
<tr>
<th>Size</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>8211.242</td>
</tr>
</tbody>
</table>
## Nasal Forceps

<table>
<thead>
<tr>
<th>1:1</th>
<th>WL</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Mini nasal forceps by Weil-Blakesley, straight, size 00" /></td>
<td></td>
<td>8211.091</td>
</tr>
<tr>
<td><img src="image2" alt="Mini nasal forceps by Weil-Blakesley, 45° curved upwards, size 00" /></td>
<td>100 mm</td>
<td>8211.092</td>
</tr>
<tr>
<td><img src="image3" alt="Mini nasal forceps by Weil-Blakesley, 90° curved upwards, size 00" /></td>
<td></td>
<td>8211.093</td>
</tr>
<tr>
<td><img src="image4" alt="Nasal forceps by Wigand, curved upwards, size 2" /></td>
<td>110 mm</td>
<td>8211.16</td>
</tr>
<tr>
<td><img src="image5" alt="Forceps by Strümpel, fenestrated, oval cup jaws, straight" /></td>
<td>80 mm</td>
<td>82230.1400</td>
</tr>
</tbody>
</table>

---

*WL*: 100 mm

*Type*: 8211.091, 8211.092, 8211.093, 8211.16, 82230.1400

---

*Images and descriptions of the forceps are not provided in the text.*
### Nasal Forceps

**Image 1:**
- **Type:** Nasal forceps by Takahashi-Toffel, straight, 3 x 10 mm
- **Length:** 105 mm
- **Type:** 8211.15

**Image 2:**
- **Type:** Ethmoidal Forceps by Watson-Williams, serrated jaws
- **Length:** 110 mm
- **Type:** 82230.1200
Nasal Forceps
by Weil-Blakesley
with suction channel

<table>
<thead>
<tr>
<th>Type</th>
<th>Size</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forceps by Weil-Blakesley, straight, with suction channel, black</td>
<td>110 mm</td>
<td>8211.102</td>
</tr>
<tr>
<td>Forceps by Weil-Blakesley, curved upwards, with suction channel, black</td>
<td>100 mm</td>
<td>8211.103</td>
</tr>
</tbody>
</table>

Mini nasal forceps
by Weil-Blakesley with suction channel

<table>
<thead>
<tr>
<th>Type</th>
<th>Size</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mini nasal forceps by Weil-Blakesley with suction channel, straight, black, size 00</td>
<td>100 mm</td>
<td>8211.095</td>
</tr>
<tr>
<td>Mini nasal forceps by Weil-Blakesley with suction channel, 45° curved upwards, black, size 00</td>
<td>100 mm</td>
<td>8211.096</td>
</tr>
</tbody>
</table>
Nasal Forceps
by Klossek
with suction channel

<table>
<thead>
<tr>
<th>1:1</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Nasal forceps" /> by Klossek, straight, with suction channel 5.5 / 3.2 mm ø, size 1</td>
<td>8211.104</td>
</tr>
<tr>
<td><img src="image" alt="Nasal forceps" /> by Klossek, curved upwards, with suction channel 5.5 / 3.2 mm ø, size 1</td>
<td>8211.105</td>
</tr>
</tbody>
</table>
## Double Spoon Forceps

<table>
<thead>
<tr>
<th>1:1</th>
<th>WL</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Double spoon forceps by Binner with pear-shaped jaws, 5° curved" /></td>
<td></td>
<td>8211.18</td>
</tr>
<tr>
<td><img src="image" alt="Double spoon forceps by Binner with pear-shaped jaws, 45° curved" /></td>
<td>105 mm</td>
<td>8211.185</td>
</tr>
<tr>
<td><img src="image" alt="Double spoon forceps by Binner with pear-shaped jaws, 80° curved" /></td>
<td></td>
<td>8211.188</td>
</tr>
<tr>
<td><img src="image" alt="Double spoon forceps by Kaluskar-Binner, angled, retrograde curved" /></td>
<td>75 mm</td>
<td>8211.186</td>
</tr>
</tbody>
</table>

- **WL Type**
  - 8211.18
  - 8211.185
  - 8211.188
  - 8211.186
## Double Spoon Forceps

<table>
<thead>
<tr>
<th>Type</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Double spoon forceps, small jaw section, jaws open horizontally, 70° curved upwards</td>
<td>8211.19</td>
</tr>
<tr>
<td>Double spoon forceps, small jaw section, jaws open vertically, 70° curved upwards</td>
<td>8211.39</td>
</tr>
<tr>
<td>Double spoon forceps, small jaw section, jaws open horizontally, 100° curved upwards</td>
<td>8211.195</td>
</tr>
<tr>
<td>Double spoon forceps by Binner, small jaw section, jaws open horizontally, 110° curved upwards</td>
<td>8211.189</td>
</tr>
</tbody>
</table>

![Double Spoon Forceps Image]
### Biopsy Forceps, Biopsy Punch

<table>
<thead>
<tr>
<th>1:1</th>
<th>ø</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2.7 mm</td>
<td>8150.00</td>
</tr>
</tbody>
</table>

**Biopsy forceps**

- Length: 145 mm
- Type: 8150.00

<table>
<thead>
<tr>
<th>1:1</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>8211.49</td>
</tr>
</tbody>
</table>

**Biopsy punch, 70° curved upwards**

- Length: 95 mm
- Type: 8211.49
### Nasal Forceps

#### Type 8211.551

- **Ergoline nasal forceps** by Wolf, cutting, jaws straight, shaft curved right

#### Type 8211.552

- **Ergoline nasal forceps** by Wolf, cutting, jaws angled upwards, shaft curved right

#### Type 8211.243

- **Ergoline nasal forceps** by Wolf, cutting, jaws straight, shaft curved right

#### Type 8211.244

- **Ergoline nasal forceps** by Wolf, cutting, jaws angled upwards, shaft curved right
### Nasal Forceps

**cutting**

<table>
<thead>
<tr>
<th>1:1</th>
<th>Size</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Nasal forceps, cutting, straight" /></td>
<td></td>
<td>8211.125</td>
</tr>
<tr>
<td><img src="image" alt="Nasal forceps, cutting, straight" /></td>
<td>9.5 x 3.7 mm</td>
<td>8211.531</td>
</tr>
<tr>
<td><img src="image" alt="Nasal forceps, cutting, 45° curved upwards" /></td>
<td></td>
<td>8211.532</td>
</tr>
</tbody>
</table>

- **Nasal forceps, cutting, straight**
- **Nasal forceps, cutting, straight**
- **Nasal forceps, cutting, 45° curved upwards**

### Larynx

<table>
<thead>
<tr>
<th>1:1</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Antrum forceps, jaws curved down, cutting, swivelling" /></td>
<td>8211.05</td>
</tr>
</tbody>
</table>

- **Antrum forceps, jaws curved down, cutting, swivelling**
### Punches

<table>
<thead>
<tr>
<th>1:1</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Image" /></td>
<td><strong>Rotatable punch</strong> by Ostrom-Wolf, retrograde, complete comprising handle (8211.601) and exchangeable forceps attachment (8211.621)</td>
</tr>
<tr>
<td><img src="image2.png" alt="Image" /></td>
<td><strong>Rotatable &quot;mini&quot; punch</strong> by Ostrom-Wolf, retrograde, complete comprising handle (8211.601) and exchangeable forceps attachment (8211.661) 1.5 mm bite</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1:1</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image3.png" alt="Image" /></td>
<td><strong>Ergoline punch</strong> by Wolf, swiveling, jaws cutting right, shaft curved right consisting of: handle (8211.601) and forceps attachment (15293.061)</td>
</tr>
<tr>
<td><img src="image4.png" alt="Image" /></td>
<td><strong>Ergoline punch</strong> by Wolf, swiveling, jaws cutting left, shaft curved right consisting of: handle (8211.601) and forceps attachment (15293.062)</td>
</tr>
</tbody>
</table>
Punch, Forceps

<table>
<thead>
<tr>
<th>1:1</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Image of Punch" /></td>
<td>Punch by Ostrom-Wolf, retrograde</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1:1</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image2.png" alt="Image of Forceps" /></td>
<td>Forceps by Struyken</td>
</tr>
</tbody>
</table>
**Side Biters, Punch Scissors**

<table>
<thead>
<tr>
<th>1:1</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Side biter, 90° curved right" /></td>
<td>Side biter, 90° curved right</td>
</tr>
<tr>
<td><img src="image2" alt="Side biter, 90° curved left" /></td>
<td>Side biter, 90° curved left</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1:1</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image3" alt="Ergoline punch scissors by Wolf, jaws cutting right" /></td>
<td>Ergoline punch scissors by Wolf, jaws cutting right</td>
</tr>
<tr>
<td><img src="image4" alt="Ergoline punch scissors by Wolf, jaws cutting left" /></td>
<td>Ergoline punch scissors by Wolf, jaws cutting left</td>
</tr>
</tbody>
</table>
Conchotomes, Punch Forceps for the Maxillary Sinus

| Punch forceps for the maxillary sinus (special design), 60° curved upwards |
| 8211.011 |
| Punch forceps for the maxillary sinus (special design), 90° curved upwards |
| 8211.021 |
| Punch forceps for the maxillary sinus (special design), retrograde, curved downwards |
| 8211.031 |
| Punch forceps for the maxillary sinus (special design), straight, through-cutting |
| 8211.04 |

- **Conchotome by Hartmann, round**
  - ø 5 mm: 82240.0405
  - ø 7 mm: 82240.0407
  - ø 9 mm: 82240.0409
  - ø 11 mm: 82240.0411
### Nasal Scissors

![Image of nasal scissors](image)

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:1</td>
<td>Nasal scissors, straight</td>
<td>8211.22</td>
</tr>
<tr>
<td>1:1</td>
<td>Nasal scissors, curved left</td>
<td>8211.221</td>
</tr>
<tr>
<td>1:1</td>
<td>Nasal scissors, curved right</td>
<td>8211.222</td>
</tr>
</tbody>
</table>

![Image of ergoline nasal scissors](image)

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:1</td>
<td>Ergoline nasal scissors by Wolf, jaws straight, shaft curved right</td>
<td>8211.245</td>
</tr>
</tbody>
</table>
### Mini Scissors, Wedge Dissection Scissors

<table>
<thead>
<tr>
<th>1:1</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Mini scissors, straight" /></td>
<td>8211.071</td>
</tr>
</tbody>
</table>

- **Mini scissors, straight**

<table>
<thead>
<tr>
<th>1:1</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Wedge dissection scissors by Kaluskar" /></td>
<td>8211.262</td>
</tr>
<tr>
<td><img src="image" alt="Wedge dissection scissors by Kaluskar" /></td>
<td>8211.263</td>
</tr>
</tbody>
</table>

- **Wedge dissection scissors by Kaluskar, curved downwards, blade horizontal opening**
- **Wedge dissection scissors by Kaluskar, curved upwards, blade horizontal opening**
Nasal Scissors

<table>
<thead>
<tr>
<th>1:1</th>
<th>( \varnothing )</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Ergoline nasal scissors Metzenbaum, scissor blade straight, shaft curved right" /></td>
<td>5 mm</td>
<td>8211.251</td>
</tr>
<tr>
<td><img src="image2.png" alt="Ergoline nasal scissors Metzenbaum, scissor blade curved right, shaft straight" /></td>
<td>5 mm</td>
<td>8211.253</td>
</tr>
<tr>
<td><img src="image3.png" alt="Ergoline nasal scissors Metzenbaum, scissor blade curved left, shaft straight" /></td>
<td>5 mm</td>
<td>8211.254</td>
</tr>
</tbody>
</table>
# Nasal Scissors

<table>
<thead>
<tr>
<th>Type</th>
<th>WL</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nasal scissors by Heymann, small</td>
<td>85 mm</td>
<td>82240.1601</td>
</tr>
<tr>
<td>Nasal scissors by Heymann, medium</td>
<td>95 mm</td>
<td>82240.1602</td>
</tr>
<tr>
<td>Nasal scissors by Heymann, medium, serrated blades</td>
<td>95 mm</td>
<td>82240.1802</td>
</tr>
<tr>
<td>Nasal scissors by Heymann, large</td>
<td>115 mm</td>
<td>8211.21</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nasal scissors, small, angled</td>
<td>8211.23</td>
</tr>
</tbody>
</table>
### Scissors
by Fomon

<table>
<thead>
<tr>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scissors by Fomon, delicate, curved</td>
</tr>
<tr>
<td>82240.3200</td>
</tr>
</tbody>
</table>

![Image of scissors with a length of 65 mm]
### Scissors

<table>
<thead>
<tr>
<th>Type</th>
<th>Length</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scissors, delicate blades, straight, sharp / sharp</td>
<td>105 mm</td>
<td>82240.2010</td>
</tr>
<tr>
<td>Scissors, delicate blades, curved, sharp / sharp</td>
<td>145 mm</td>
<td>82240.2110</td>
</tr>
<tr>
<td>Scissors by Joseph, straight, sharp / sharp</td>
<td></td>
<td>82240.2214</td>
</tr>
<tr>
<td>Scissors by Joseph, curved, sharp / sharp</td>
<td></td>
<td>82240.2314</td>
</tr>
<tr>
<td>Scissors by Metzenbaum, extra delicate pattern, curved</td>
<td>150 mm</td>
<td>82240.2515</td>
</tr>
</tbody>
</table>
## Scissors

<table>
<thead>
<tr>
<th>Type</th>
<th>Length</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scissors by Metzenbaum, curved</td>
<td>200 mm</td>
<td>82240.2620</td>
</tr>
<tr>
<td>Scissors, angled, blunt / blunt</td>
<td></td>
<td>82240.2810</td>
</tr>
<tr>
<td>Scissors, straight, sharp / sharp</td>
<td>120 mm</td>
<td>82240.3012</td>
</tr>
<tr>
<td>Scissors, curved, blunt / blunt</td>
<td>115 mm</td>
<td>82240.3111</td>
</tr>
</tbody>
</table>

---

**Nose**

---

**Oropharynx, Tonsil, Pharynx**

---

**Ear**

---

**Larynx**

---

---
Nasal Polyp Snares

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nasal polyp snare by Krause, knee bend</td>
<td></td>
<td>82240.3400</td>
</tr>
<tr>
<td></td>
<td>ø</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0.3 mm</td>
<td>82240.3603</td>
</tr>
<tr>
<td></td>
<td>0.4 mm</td>
<td>82240.3604</td>
</tr>
<tr>
<td>Monopolar nasal polyp snare by Stiegler</td>
<td></td>
<td>8286.01</td>
</tr>
<tr>
<td>Spare snares (pack of 5)</td>
<td></td>
<td>8286.95</td>
</tr>
</tbody>
</table>
# Septum Forceps

![Septum Forceps Image](image-url)

<table>
<thead>
<tr>
<th>Size</th>
<th>Type</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>110 mm</td>
<td>82240.0601</td>
<td>82240.0602</td>
</tr>
</tbody>
</table>

**Septum Forceps by Bruenings**

<table>
<thead>
<tr>
<th>Size</th>
<th>Type</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>85 mm</td>
<td>82240.0800</td>
<td></td>
</tr>
</tbody>
</table>

**Septum Forceps by Craig, with cutting edges, straight**

<table>
<thead>
<tr>
<th>Type</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>82240.0800</td>
<td></td>
</tr>
</tbody>
</table>
Bone Forceps

<table>
<thead>
<tr>
<th>Type</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Bone Forceps by Jansen, biting, angled</td>
<td>82240.1000</td>
</tr>
<tr>
<td>Bone Forceps by Jansen-Middleton, cutting, angled</td>
<td>82240.1200</td>
</tr>
<tr>
<td>Bone cutting forceps by Kazanjian</td>
<td>82240.1400</td>
</tr>
</tbody>
</table>
## Retractors

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Alar-Retractor by Cottle, 10 x 12 mm</td>
<td>82250.0000</td>
</tr>
<tr>
<td></td>
<td>Nasal retractor by Cottle, one side with 2 blunt prongs, other side with flat blunt prong</td>
<td>82250.0200</td>
</tr>
<tr>
<td></td>
<td>Nasal Retractor by Neivert</td>
<td>82250.0400</td>
</tr>
<tr>
<td></td>
<td>Nasal Retractor by Aufricht</td>
<td>82250.0600</td>
</tr>
</tbody>
</table>
# Elevators

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elevator by Freer, double-ended, semi sharp / blunt</td>
<td>82250.0800</td>
<td></td>
</tr>
<tr>
<td>Elevator by Freer-Joseph, double-ended, delicate, semi sharp / sharp</td>
<td>82250.1200</td>
<td></td>
</tr>
<tr>
<td>Elevator by Cottle, double-ended</td>
<td>8211.29</td>
<td></td>
</tr>
<tr>
<td>Elevator by Masing, double-ended, graduated, sharp / blunt</td>
<td>82250.2000</td>
<td></td>
</tr>
</tbody>
</table>
### Raspatories, Elevator

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>Raspatory by Joseph, slightly curved</td>
<td></td>
<td>165 mm</td>
</tr>
<tr>
<td>Raspatory by Joseph-Masing, slightly curved</td>
<td></td>
<td>205 mm</td>
</tr>
<tr>
<td>Raspatory by Cottle, slightly curved</td>
<td>Width</td>
<td>8 mm</td>
</tr>
<tr>
<td>Elevator for elevating nasal fractures</td>
<td></td>
<td>170 mm</td>
</tr>
</tbody>
</table>
## Raspatories, Elevator, Sponger

<table>
<thead>
<tr>
<th>Type</th>
<th>Width</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Raspatory by Freer, slightly curved</td>
<td>4 mm</td>
<td>82250.1004</td>
</tr>
<tr>
<td>Elevator by Halle</td>
<td>4 mm</td>
<td>82250.1404</td>
</tr>
<tr>
<td>Raspatory by McKenty, curved</td>
<td>3 mm</td>
<td>82250.2203</td>
</tr>
<tr>
<td></td>
<td>4 mm</td>
<td>82250.2204</td>
</tr>
<tr>
<td></td>
<td>5 mm</td>
<td>82250.2205</td>
</tr>
<tr>
<td>Sponger</td>
<td></td>
<td>8150.20</td>
</tr>
</tbody>
</table>
Ostium Probes

<table>
<thead>
<tr>
<th>Type</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ostium probe - Maxillary Ostium Seeker</td>
<td>8211.921</td>
</tr>
<tr>
<td>Ostium probe - Frontal Ostium Seeker</td>
<td>8211.931</td>
</tr>
</tbody>
</table>

Frontal Sinus Bougies
by Ritter

<table>
<thead>
<tr>
<th>Ø</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5 mm</td>
<td>82250.3025</td>
</tr>
<tr>
<td>3.0 mm</td>
<td>82250.3030</td>
</tr>
<tr>
<td>4.0 mm</td>
<td>82250.3040</td>
</tr>
<tr>
<td>5.0 mm</td>
<td>82250.3050</td>
</tr>
</tbody>
</table>
Chisels

<table>
<thead>
<tr>
<th>Width</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 mm</td>
<td>82260.0004</td>
</tr>
<tr>
<td>7 mm</td>
<td>82260.0007</td>
</tr>
<tr>
<td>9 mm</td>
<td>82260.0009</td>
</tr>
<tr>
<td>12 mm</td>
<td>82260.0012</td>
</tr>
</tbody>
</table>

Chisel by Cottle, with depth markings, graduated, straight

<table>
<thead>
<tr>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chisel by Masing, with guard, slightly curved downwards, straight</td>
</tr>
<tr>
<td>Chisel by Masing, with guard, slightly curved downwards, left</td>
</tr>
</tbody>
</table>
### Saws, Rasp

<table>
<thead>
<tr>
<th>Type</th>
<th>82260.0801</th>
<th>82260.0802</th>
</tr>
</thead>
<tbody>
<tr>
<td>Saw by Joseph, bayonet shaped, curved right</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Saw by Joseph, bayonet shaped, curved left</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>82260.1001</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rasp, double-ended, coarse teeth, 6.5 / 7.5 mm</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>8211.831</th>
<th>8211.882</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rasp, curved, fine, prograde cutting action</td>
<td>3 mm</td>
<td></td>
</tr>
<tr>
<td>Rasp, curved, prograde cutting action</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>8211.881</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rasp, prograde cutting action, with suction channel</td>
<td>4 mm</td>
</tr>
</tbody>
</table>
### Knives

<table>
<thead>
<tr>
<th>Type</th>
<th>82260.1200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Septum Knife by Cottle, blade with rounded edge</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>82260.1400</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cartilage slitting knife, straight blade</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>82260.1401</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cartilage slitting knife, curved blade</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>82260.1601</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cartilage slitting knife by Masing, curved blade</td>
<td></td>
</tr>
</tbody>
</table>
### Sickle Knife, Dissectors

<table>
<thead>
<tr>
<th>Type</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sickle knife, pointed</td>
<td>8211.90</td>
</tr>
<tr>
<td>Sickle knife, round</td>
<td>8211.91</td>
</tr>
<tr>
<td>Dissector, sharp, curved right</td>
<td>82260.3001</td>
</tr>
<tr>
<td>Dissector, sharp, curved left</td>
<td>82260.3002</td>
</tr>
</tbody>
</table>
### Hooks, Retractors

<table>
<thead>
<tr>
<th>Type</th>
<th>Width</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hook, 1 prong, 90° angled</td>
<td>-</td>
<td>82260.1804</td>
</tr>
<tr>
<td>Hook, 1 prong, 180° retrograde curved</td>
<td>-</td>
<td>82260.1805</td>
</tr>
<tr>
<td>Retractor by Cottle, 2 prongs, sharp prong on left, blunt prong on right</td>
<td>10 mm</td>
<td>82260.2402</td>
</tr>
</tbody>
</table>
Spoons

<table>
<thead>
<tr>
<th>Type</th>
<th>Size</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spoon by Halile, flexible</td>
<td>1</td>
<td>82260.2601</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>82260.2603</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spoon, 105° curved (retrograde)</td>
<td>8211.861</td>
</tr>
<tr>
<td>Spoon, 75° curved</td>
<td>8211.862</td>
</tr>
</tbody>
</table>
## Spoons

<table>
<thead>
<tr>
<th>Type</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spoon, large</td>
<td>8211.96</td>
</tr>
<tr>
<td>Spoon, small</td>
<td>8211.961</td>
</tr>
<tr>
<td>Mini spoon</td>
<td>8211.922</td>
</tr>
<tr>
<td>Spoon by Klossek</td>
<td>8211.851</td>
</tr>
</tbody>
</table>
## Antrum Curettes

<table>
<thead>
<tr>
<th>Type</th>
<th>8211.94</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antrum curette</td>
<td>175 mm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>82260.2800</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antrum curette by Faulkner, double-ended</td>
<td>220 mm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ø</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 / 10 mm</td>
<td>82260.2800</td>
</tr>
</tbody>
</table>
Antrum Suction Cannulas

### Antrum suction cannula by V. Eicken, long curved, Luer-lock

<table>
<thead>
<tr>
<th>ø</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5 mm</td>
<td>82270.0025</td>
</tr>
<tr>
<td>3.0 mm</td>
<td>82270.0030</td>
</tr>
<tr>
<td>4.0 mm</td>
<td>82270.0040</td>
</tr>
</tbody>
</table>

### Antrum suction cannula by V. Eicken, short curved, Luer-lock

<table>
<thead>
<tr>
<th>ø</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5 mm</td>
<td>82270.0225</td>
</tr>
<tr>
<td>3.0 mm</td>
<td>82270.0230</td>
</tr>
<tr>
<td>4.0 mm</td>
<td>82270.0240</td>
</tr>
</tbody>
</table>

### Antrum suction cannula, curved

<table>
<thead>
<tr>
<th>ø</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5 mm</td>
<td>8150.16</td>
</tr>
<tr>
<td>3.1 mm</td>
<td>8150.17</td>
</tr>
<tr>
<td>4.0 mm</td>
<td>8150.18</td>
</tr>
</tbody>
</table>
Suction Cannulas

<table>
<thead>
<tr>
<th>ø</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5 mm</td>
<td>8150.161</td>
</tr>
<tr>
<td>3.1 mm</td>
<td>8150.171</td>
</tr>
<tr>
<td>4.0 mm</td>
<td>8150.181</td>
</tr>
</tbody>
</table>

**Ergoline antrum suction cannula, short curved, with holes**

<table>
<thead>
<tr>
<th>ø</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.0 mm</td>
<td>8150.031</td>
</tr>
</tbody>
</table>

**Suction cannula for controlled aspiration by Schaefer, short curved**

<table>
<thead>
<tr>
<th>ø</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.0 mm</td>
<td>8150.13</td>
</tr>
</tbody>
</table>

**Antrum suction cannula (transnasal, postoperative)**
## Nasal Suction Cannulas

<table>
<thead>
<tr>
<th>Type</th>
<th>ø</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nasal suction tube, straight (special design)</td>
<td>4.0 mm</td>
<td>8150.19</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>ø</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ergoline nasal suction tube, curved right</td>
<td>4.0 mm</td>
<td>8150.191</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>ø</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nasal suction tube for children</td>
<td>2.0 mm</td>
<td>8150.162</td>
</tr>
<tr>
<td>Nasal suction tube by Klossak</td>
<td>3.0 mm</td>
<td>8150.172</td>
</tr>
</tbody>
</table>
Suction Tubes, Suction and Irrigation Tubes

<table>
<thead>
<tr>
<th>Type</th>
<th>Φ</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suction and irrigation tube, double lumen, for controlled aspiration</td>
<td>2.4 mm</td>
<td>8150.11</td>
</tr>
<tr>
<td>Suction tube, curved</td>
<td>5.0 mm</td>
<td>82270.0450</td>
</tr>
</tbody>
</table>
Septum Cannulas

<table>
<thead>
<tr>
<th></th>
<th>Pieces</th>
<th>ø</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Septum cannula, bayonet-shape, Luer-lock</td>
<td>5</td>
<td>0.8 mm</td>
<td>82270.0600</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Pieces</th>
<th>ø</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Septum cannula, knee-angled, Luer-lock</td>
<td>1</td>
<td>0.8 mm</td>
<td>8211.82</td>
</tr>
</tbody>
</table>
**Mallets**

by Cottle

<table>
<thead>
<tr>
<th>Type</th>
<th>Weight</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mallet by Cottle, 1 plain face, 1 convex face</td>
<td>approx. 240 g</td>
<td>82200.0000</td>
</tr>
<tr>
<td>Mallet by Cottle, with interchangeable inserts</td>
<td>approx. 140 g</td>
<td>82200.0200</td>
</tr>
</tbody>
</table>

**Nose**

**Ear**

**Oropharynx, Tonsil, Pharynx**

**Larynx**
Oropharynx • Tonsil • Pharynx
Oropharynx, Tonsil, Pharynx

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magnifying Laryngo-Pharyngoscope</td>
<td>1</td>
</tr>
<tr>
<td>Mouth Gags and Chest Support</td>
<td>2-4</td>
</tr>
<tr>
<td>Forceps</td>
<td>5-7</td>
</tr>
<tr>
<td>Tonsil Scissors and Snares</td>
<td>8</td>
</tr>
<tr>
<td>Tonsillotomes</td>
<td>9</td>
</tr>
<tr>
<td>Retractors</td>
<td>10</td>
</tr>
<tr>
<td>Curettes</td>
<td>11</td>
</tr>
<tr>
<td>Tonsil Knives and Dissectors</td>
<td>12</td>
</tr>
<tr>
<td>Needles and Cannulas</td>
<td>13</td>
</tr>
</tbody>
</table>
**Magnifying Laryngo-Pharyngoscope**

by v. Stuckrad

<table>
<thead>
<tr>
<th>Angle of view</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>90°</td>
<td>Magnifying laryngo-pharyngoscope with high-performance illumination system, two degrees of magnification, focus between 20 mm and ∞, including integrated air channel, for use with detachable light cable</td>
</tr>
<tr>
<td>70°</td>
<td>Magnifying laryngo-pharyngoscope with high-performance illumination system, two degrees of magnification, focus between 20 mm and ∞, including integrated air channel, for use with detachable light cable</td>
</tr>
<tr>
<td>90°</td>
<td>Magnifying laryngo-pharyngoscope with high-performance illumination system, two degrees of magnification, focus between 20 mm and ∞, including integrated air channel, for use with detachable light cable</td>
</tr>
</tbody>
</table>
### Mouth Gag

<table>
<thead>
<tr>
<th>Type</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Mouth Gag by Davis-Meyer, with adjustable hooks</td>
<td>82320.0100</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Mouth Gag by McIvor, holder removable</td>
<td>82320.0200</td>
</tr>
</tbody>
</table>
Tongue Blade
by Russel-Davis

<table>
<thead>
<tr>
<th>Size</th>
<th>Width x Length</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>29 x 67 mm</td>
<td>82320.0001</td>
</tr>
<tr>
<td>2</td>
<td>33 x 75 mm</td>
<td>82320.0002</td>
</tr>
<tr>
<td>3</td>
<td>38 x 85 mm</td>
<td>82320.0003</td>
</tr>
<tr>
<td>4</td>
<td>40 x 92 mm</td>
<td>82320.0004</td>
</tr>
<tr>
<td>5</td>
<td>46 x 100 mm</td>
<td>82320.0005</td>
</tr>
</tbody>
</table>
**Chest Support**
by Negus

<table>
<thead>
<tr>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chest support by Negus, for use with tongue blades and mouth gags, for children</td>
</tr>
<tr>
<td>Chest support by Negus, for use with tongue blades and mouth gags, for adults</td>
</tr>
</tbody>
</table>
Double Spoon Forceps
"Erlanger Set"

<table>
<thead>
<tr>
<th>Type</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Double spoon forceps (long oval) for Nasopharynx</td>
<td></td>
</tr>
<tr>
<td>Double spoon forceps (long oval) for larynx</td>
<td></td>
</tr>
</tbody>
</table>

*Erlanger set* for treatment of the conscious patient under magnified endoscopic vision
### Forceps

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Adenoid forceps by Juracz, sharp</td>
<td>82330.0019</td>
</tr>
<tr>
<td></td>
<td>Sponge forceps by Duplay, curved, with ratchet</td>
<td>82330.0220</td>
</tr>
</tbody>
</table>
## Tonsil Forceps, Forceps

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tonsil forceps by Colver, curved</td>
<td></td>
<td>82330.0419</td>
</tr>
<tr>
<td>Tonsil forceps by Blohmke</td>
<td></td>
<td>82330.0620</td>
</tr>
<tr>
<td>Forceps by Heiss, straight</td>
<td></td>
<td>82330.1220</td>
</tr>
<tr>
<td>Forceps by Heiss, curved</td>
<td></td>
<td>82330.1320</td>
</tr>
</tbody>
</table>
## Tonsil Scissors, Tonsil Snares

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tonsil scissors</td>
<td></td>
<td>82340.0019</td>
</tr>
<tr>
<td>Tonsil snare by Bruenings</td>
<td></td>
<td>82340.0200*</td>
</tr>
<tr>
<td>Tonsil snare by Roeder, model E</td>
<td></td>
<td>82340.0400</td>
</tr>
</tbody>
</table>

* also:

**Wire Loops,**

diameter 0.4 mm, package 100  . . . . . . . . . . 82340.0604
## Tonsillotomes

**by La Force**

![Tonsillotome Image]

**Dimensions:**
- 240 mm

### Tonsillotome by La Force

<table>
<thead>
<tr>
<th>Size</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>82340.0801</td>
</tr>
<tr>
<td>2</td>
<td>82340.0802</td>
</tr>
<tr>
<td>3</td>
<td>82340.0803</td>
</tr>
</tbody>
</table>

### Tonsillotome Blade

<table>
<thead>
<tr>
<th>Size</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>82340.1001</td>
</tr>
<tr>
<td>2</td>
<td>82340.1002</td>
</tr>
<tr>
<td>3</td>
<td>82340.1003</td>
</tr>
</tbody>
</table>
## Pillar Retractor, Tongue Depressors, Uvula Retractor

<table>
<thead>
<tr>
<th>Type</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Pillar retractor by Nager</td>
<td>82350.0000</td>
</tr>
<tr>
<td>Tongue depressor by Hartmann, with fenestrated handle</td>
<td>82350.0200</td>
</tr>
<tr>
<td>Uvula retractor by Schönborn</td>
<td>82350.0400</td>
</tr>
<tr>
<td>Tongue depressor by Bruenings</td>
<td>82350.0600</td>
</tr>
</tbody>
</table>
Adenoid Curettes
by Beckmann

<table>
<thead>
<tr>
<th>Size</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>82360.0001</td>
</tr>
<tr>
<td>2</td>
<td>82360.0002</td>
</tr>
<tr>
<td>3</td>
<td>82360.0003</td>
</tr>
<tr>
<td>4</td>
<td>82360.0004</td>
</tr>
<tr>
<td>5</td>
<td>82360.0005</td>
</tr>
<tr>
<td>6</td>
<td>82360.0006</td>
</tr>
</tbody>
</table>
# Tonsil Knife, Tonsil Dissectors

<table>
<thead>
<tr>
<th>Type</th>
<th>Width</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tonsil knife by Fisher</td>
<td>12 mm</td>
<td>82360.0200</td>
</tr>
<tr>
<td>Tonsil dissector and pillar retractor by Henke</td>
<td>12 mm</td>
<td>82360.0412</td>
</tr>
<tr>
<td></td>
<td>15 mm</td>
<td>82360.0415</td>
</tr>
</tbody>
</table>
### Needles

<table>
<thead>
<tr>
<th>Type</th>
<th>Pieces</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tonsil-needle, straight, long, Luer-lock</td>
<td>5</td>
<td>82370.0200</td>
</tr>
<tr>
<td>Tonsil-needle, 90° curved, Luer-lock</td>
<td>5</td>
<td>82370.0201</td>
</tr>
<tr>
<td>Septum cannula, knee-angled, Luer-lock</td>
<td>1</td>
<td>8211.82</td>
</tr>
</tbody>
</table>

- **115 mm**
- **110 mm**
- **150 mm**
Larynx
## Larynx

<table>
<thead>
<tr>
<th>Item</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic Sets</td>
<td>1-2</td>
</tr>
<tr>
<td>Laryngeal Mirror</td>
<td>3</td>
</tr>
<tr>
<td>Magnifying Laryngo-Pharyngoscope</td>
<td>4</td>
</tr>
<tr>
<td>Endoscopes for Laryngoscopy</td>
<td>6</td>
</tr>
<tr>
<td>Flexible Naso-Pharyngo Laryngoscopes</td>
<td>7</td>
</tr>
<tr>
<td>Laryngoscopes</td>
<td>8-13</td>
</tr>
<tr>
<td>Chest Support</td>
<td>14</td>
</tr>
<tr>
<td>Forceps</td>
<td>5, 15-18, 20-25</td>
</tr>
<tr>
<td>Laser Protector</td>
<td>19</td>
</tr>
<tr>
<td>Scissors</td>
<td>26-29</td>
</tr>
<tr>
<td>Probe, Hooks, Knot Tightener</td>
<td>31</td>
</tr>
<tr>
<td>Knives</td>
<td>32</td>
</tr>
<tr>
<td>Needles</td>
<td>33, 37</td>
</tr>
<tr>
<td>Coagulation Suction Tubes</td>
<td>34</td>
</tr>
<tr>
<td>Aspiration Tubes, Raspatory</td>
<td>35-36</td>
</tr>
<tr>
<td>Lichtenberger Needle Holder</td>
<td>37</td>
</tr>
<tr>
<td>Stroboview Generator</td>
<td>38</td>
</tr>
</tbody>
</table>
**Göttinger Instrument Set**
for Laser Applications and Microsurgery

<table>
<thead>
<tr>
<th>Article</th>
<th>Types</th>
<th>Pcs.</th>
<th>Order</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adjustable Laryngoscope by Steiner</td>
<td>8456.01</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Microlaryngoscope tubes,</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wl. 105 mm</td>
<td>8449.32</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Wl. 155 mm</td>
<td>8449.22</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>for above:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spare light rod</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wl. 105 mm</td>
<td>8449.31</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Wl. 155 mm</td>
<td>8449.11</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Subglottoscope</td>
<td>8456.101</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Laser Laryngoscope by Steiner</td>
<td>8446.22</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Chest support &quot;Wolf&quot;</td>
<td>8449.911</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Support bridge &quot;Göttingen&quot;</td>
<td>8529.50</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Laser protector,</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>large</td>
<td>8268.01</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>medium</td>
<td>8268.02</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>small</td>
<td>8268.03</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Tumor grasping forceps,</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>small</td>
<td>8283.51</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>medium</td>
<td>8283.52</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>large</td>
<td>8283.53</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Grasping microforceps</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>curved left</td>
<td>8254.601</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>right</td>
<td>8254.602</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>HF larynx suction tube,</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.8 mm ø</td>
<td>8291.101</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>4.0 mm ø</td>
<td>8291.102</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Suction tube with suction control,</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>black</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.0 mm ø</td>
<td>8291.22</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>2.5 mm ø</td>
<td>8291.23</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>3.0 mm ø</td>
<td>8291.24</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Bipolar coagulation and suction tube, Ø 3 mm</td>
<td>8289.24</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Operating laryngoscope</td>
<td>8458.011</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>for above:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spare light rod</td>
<td>8456.90</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Spare suction tube</td>
<td>8456.95</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>
Basic Set
for ETP* by Lichtenberger

<table>
<thead>
<tr>
<th>Article</th>
<th>Types</th>
<th>Pcs.</th>
<th>Order</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cone-trocar set</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>incl. 5x cone-trocar, 10x tightener,</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>25x sling</td>
<td>8267.601</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Endo-extralaryngeal needle carrier by Lichtenberger</td>
<td>8267.50</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Adjustable laryngoscope by Steiner</td>
<td>8456.01</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Chest support</td>
<td>8449.911</td>
<td>1</td>
<td></td>
</tr>
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</table>

* Esophago-Tracheal-Puncture-Set
Laryngeal Mirror
with fixed handle

<table>
<thead>
<tr>
<th>ø</th>
<th>Size</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 mm</td>
<td>00</td>
<td>82450.0020</td>
</tr>
<tr>
<td>12 mm</td>
<td>1</td>
<td>82450.0001</td>
</tr>
<tr>
<td>16 mm</td>
<td>3</td>
<td>82450.0003</td>
</tr>
<tr>
<td>20 mm</td>
<td>5</td>
<td>82450.0005</td>
</tr>
<tr>
<td>24 mm</td>
<td>7</td>
<td>82450.0007</td>
</tr>
<tr>
<td>28 mm</td>
<td>9</td>
<td>82450.0009</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ø</th>
<th>Size</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 mm</td>
<td>0</td>
<td>82450.0000</td>
</tr>
<tr>
<td>14 mm</td>
<td>2</td>
<td>82450.0002</td>
</tr>
<tr>
<td>18 mm</td>
<td>4</td>
<td>82450.0004</td>
</tr>
<tr>
<td>22 mm</td>
<td>6</td>
<td>82450.0006</td>
</tr>
<tr>
<td>26 mm</td>
<td>8</td>
<td>82450.0008</td>
</tr>
<tr>
<td>30 mm</td>
<td>10</td>
<td>82450.0010</td>
</tr>
</tbody>
</table>
## Magnifying Laryngo-Pharyngoscope

by v. Stuckrad

### Angle of view | Type
--- | ---
![Magnifying laryngo-pharyngoscope with high-performance illumination system, two degrees of magnification, focus between 20 mm and ∞, including integrated air channel, for use with detachable light cable](image1) | 4450.47

### Angle of view | Type
--- | ---
![Magnifying laryngo-pharyngoscope with high-performance illumination system, two degrees of magnification, focus between 20 mm and ∞, including integrated air channel and fixed light cable](image2) | 4450.501

### Angle of view | Type
--- | ---
![Magnifying laryngo-pharyngoscope with high-performance illumination system, two degrees of magnification, focus between 20 mm and ∞, including integrated air channel and fixed light cable](image3) | 4450.57
**Double Spoon Forceps**

*Erlanger Set*

<table>
<thead>
<tr>
<th>Type</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Double spoon forceps (long oval) for larynx</td>
<td>8283.81</td>
</tr>
<tr>
<td>Double spoon forceps (long oval) for Nasopharynx</td>
<td>8283.91</td>
</tr>
</tbody>
</table>

*Erlanger set*

for treatment of the conscious patient under magnified endoscopic vision
PANOVIEW PLUS Endoscopes

4.0 mm
for pediatric laryngoscopy

<table>
<thead>
<tr>
<th>Angle of view</th>
<th>Outer ø</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>90°</td>
<td>4.0 mm</td>
<td>8880.437</td>
</tr>
<tr>
<td>70°</td>
<td>4.0 mm</td>
<td>8880.545</td>
</tr>
</tbody>
</table>

PANOVIEW PLUS endoscope, 180 mm WL
PANOVIEW PLUS endoscope, 170 mm WL
### Flexible Naso-Pharyngo-Laryngoscopes

**3.5 mm**

<table>
<thead>
<tr>
<th>Angle of view</th>
<th>Outer Ø</th>
<th>WL</th>
<th>Instrument channel Ø</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flexible Naso-Pharyngo-Laryngoscope including: water tightness tester (163.903) and gas sterilization valve (163.904)</td>
<td>0°</td>
<td>3.5 mm</td>
<td>300 mm</td>
<td>1.1 mm</td>
</tr>
<tr>
<td>Flexible Naso-Pharyngo-Laryngoscope including: water tightness tester (163.903) and gas sterilization valve (163.904)</td>
<td>0°</td>
<td>3.5 mm</td>
<td>300 mm</td>
<td>-</td>
</tr>
</tbody>
</table>

Also:
- Flexible biopsy forceps, 1mm Ø ......................... 829.601
- Flexible grasping forceps, 1mm Ø .......................... 828.651
- HF button electrode, 1mm Ø .............................. 7223.911
- Irrigation- and suction instrument port .................. 7223.75
Microlaryngoscope Tubes
for endo-laryngeal microsurgery

<table>
<thead>
<tr>
<th>Size</th>
<th>a x b</th>
<th>WL</th>
<th>Spare light rod</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>14 x 13 mm</td>
<td>105 mm</td>
<td>8449.31</td>
<td>8449.321</td>
</tr>
<tr>
<td>B</td>
<td>15 x 14 mm</td>
<td>155 mm</td>
<td>8449.11</td>
<td>8449.221</td>
</tr>
<tr>
<td>C</td>
<td>20 x 18 mm</td>
<td>155 mm</td>
<td>8449.11</td>
<td>8449.121</td>
</tr>
</tbody>
</table>

Microlaryngoscope tube with removable light rod, for use both left and right, autoclavable

also:
Chest support ........................................... 8449.911

Larynx
Operating Laryngoscope
for anterior commissure

<table>
<thead>
<tr>
<th></th>
<th>a x b</th>
<th>WL</th>
<th>Spare light rod</th>
<th>Spare insuf. and suction tube</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adults</td>
<td>18 x 23 mm</td>
<td>180 mm</td>
<td>8456.90</td>
<td>8456.95</td>
<td>8458.0111</td>
</tr>
<tr>
<td>Children</td>
<td>15.5 x 22 mm</td>
<td>140 mm</td>
<td>8458.92</td>
<td>8458.97</td>
<td>8458.031</td>
</tr>
</tbody>
</table>

also:
Chest support ............................................. 8449.911
Subglottoscope / Pediatric Laryngoscope by Steiner

Type 8456.1011

Subglottoscope / pediatric laryngoscope by Steiner, small-caliber, with integrated smoke aspiration and universal handle for all supports and support systems includes: light carrier 8456.90 and suction aspiration tube 8456.95, autoclavable

also:

Chest support 8449.911
Laser Laryngoscope

by Steiner

Specially for laser interventions:
Laser laryngoscope by Steiner with integrated smoke aspiration, including light rod and insufflation and suction tube, autoclavable

<table>
<thead>
<tr>
<th>Spare light rod</th>
<th>Spare insuf. and suction tube</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>8456.90</td>
<td>8456.95</td>
<td>8446.221</td>
</tr>
</tbody>
</table>

Light cable and insufflation and suction tube can be attached either right or left.

also:

Chest support .................................................. 8449.911
Adjustable Laryngo-Pharyngoscope
by Steiner

<table>
<thead>
<tr>
<th>Spare light rod</th>
<th>Spare insuf. and suction tube</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>8456.90</td>
<td>8456.95</td>
<td>8456.011</td>
</tr>
</tbody>
</table>

Adjustable laryngo-pharyngoscope
by Steiner with integrated aspiration,
including light rod and insufflation tube, autoclavable

also:

Chest support ........................................ 8449.911
Dilating Laryngoscope
by Pototschnig

Dilating laryngoscope by Pototschnig, can be adjusted in several positions, including light rod, insufflation and suction tube, autoclavable

<table>
<thead>
<tr>
<th></th>
<th>Spare light rod</th>
<th>Spare insuf. and suction tube</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dilating laryngoscope by Pototschnig, can be adjusted in several positions, including light rod, insufflation and suction tube, autoclavable</td>
<td>8456.90</td>
<td>8456.95</td>
<td>8457.0111</td>
</tr>
</tbody>
</table>

also:
Chest support ........................................ 8449.911
Dilating Laryngoscope
by Pototschnig-Remacle

Dilating laryngoscope for the interior commisure by Pototschnig-Remacle, can be adjusted in several positions, with integrated smoke aspiration and universal handle for all supports and supports systems, tip curved upwards 5°, including light rod, insufflation and suction tube.

<table>
<thead>
<tr>
<th></th>
<th>Spare light rod</th>
<th>Spare insufflation and suction tube</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dilating laryngoscope for the interior commisure by Pototschnig-Remacle</td>
<td>8456.90</td>
<td>8456.95</td>
<td>82420.0000</td>
</tr>
</tbody>
</table>

Light rod as well as insufflation and suction tube can be attached either right or left.

also:
Chest support "WOLF" .................................................8449.911
Chest Support, Support Bridge


Chest support, autoclavable ........................................ 8449.911

The range of movement of the arm and the adjustable pressure plate provide the versatility to cope with the most difficult conditions. The bridge is equally suited for microsurgical operations and large endolaryngeal tumor surgery.

Support bridge "Göttingen" ........................................... 8529.50
# Miniature Forceps

<table>
<thead>
<tr>
<th>Type</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Miniature forceps by Kleinsasser, serrated, straight</td>
<td>82430.0000</td>
</tr>
<tr>
<td>Miniature forceps by Kleinsasser, serrated, curved right</td>
<td>82430.0001</td>
</tr>
<tr>
<td>Miniature forceps by Kleinsasser, serrated, curved left</td>
<td>82430.0002</td>
</tr>
<tr>
<td>Miniature forceps by Kleinsasser, serrated, curved upward</td>
<td>82430.0003</td>
</tr>
</tbody>
</table>

![Miniature Forceps Diagram](image)
### Grasping Forceps

<table>
<thead>
<tr>
<th>1:1</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Grasping Forceps, straight" /></td>
<td>Grasping forceps, straight 8283.11</td>
</tr>
<tr>
<td><img src="image2" alt="Grasping Forceps, curved right" /></td>
<td>Grasping forceps, curved right 8283.12</td>
</tr>
<tr>
<td><img src="image3" alt="Grasping Forceps, curved left" /></td>
<td>Grasping forceps, curved left 8283.13</td>
</tr>
</tbody>
</table>

**Dimensions:**
- 240 mm

### Forceps by Kleinsasser, serrated

<table>
<thead>
<tr>
<th>1:1</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image4" alt="Forceps by Kleinsasser, serrated, straight" /></td>
<td>Forceps by Kleinsasser, serrated, straight 82430.0600</td>
</tr>
<tr>
<td><img src="image5" alt="Forceps by Kleinsasser, serrated, curved right" /></td>
<td>Forceps by Kleinsasser, serrated, curved right 82430.0601</td>
</tr>
<tr>
<td><img src="image6" alt="Forceps by Kleinsasser, serrated, curved left" /></td>
<td>Forceps by Kleinsasser, serrated, curved left 82430.0602</td>
</tr>
<tr>
<td><img src="image7" alt="Forceps by Kleinsasser, serrated, curved upward" /></td>
<td>Forceps by Kleinsasser, serrated, curved upward 82430.0603</td>
</tr>
</tbody>
</table>

**Dimensions:**
- 230 mm
# Forceps, Artery Forceps

<table>
<thead>
<tr>
<th>1:1</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forceps by Kleinsasser, serrated, straight</td>
<td>82430.0700</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1:1</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Artery forceps by Kleinsasser, serrated, straight, with ratchet</td>
<td>82430.0400</td>
</tr>
</tbody>
</table>
# Tumor Grasping Forceps

for Tumor Surgery

<table>
<thead>
<tr>
<th>1:1</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Tumor grasping forceps, small, satin finished, brushed surface suitable for laser use" /></td>
<td>Tumor grasping forceps, small, satin finished, brushed surface suitable for laser use</td>
</tr>
<tr>
<td><img src="image2.png" alt="Tumor grasping forceps, medium, satin finished, brushed surface suitable for laser use" /></td>
<td>Tumor grasping forceps, medium, satin finished, brushed surface suitable for laser use</td>
</tr>
<tr>
<td><img src="image3.png" alt="Tumor grasping forceps, large, satin finished, brushed surface suitable for laser use" /></td>
<td>Tumor grasping forceps, large, satin finished, brushed surface suitable for laser use</td>
</tr>
</tbody>
</table>

**MONOPOLAR**

![Monopolar connecting cable](image4.png)

Monopolar connecting cable see page 10-18

<table>
<thead>
<tr>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image5.png" alt="Grasping microforceps, curved left" /></td>
</tr>
<tr>
<td><img src="image6.png" alt="Grasping microforceps, curved right" /></td>
</tr>
</tbody>
</table>
Laser Protector
for Tumor Surgery

![Laser Protector Diagram](Image)

<table>
<thead>
<tr>
<th>1:1</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laser protector, large</td>
<td>8268.01</td>
</tr>
<tr>
<td>Laser protector, medium</td>
<td>8268.02</td>
</tr>
<tr>
<td>Laser protector, small</td>
<td>8268.03</td>
</tr>
</tbody>
</table>

230 mm
## Miniature Forceps

<table>
<thead>
<tr>
<th>Type</th>
<th>Type Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Miniature forceps by Kleinsasser, cup diameter 1 mm, straight</td>
<td>82430.0200</td>
</tr>
<tr>
<td>Miniature forceps by Kleinsasser, cup diameter 1 mm, curved right</td>
<td>82430.0201</td>
</tr>
<tr>
<td>Miniature forceps by Kleinsasser, cup diameter 1 mm, curved left</td>
<td>82430.0202</td>
</tr>
<tr>
<td>Miniature forceps by Kleinsasser, cup diameter 1 mm, curved upwards</td>
<td>82430.0203</td>
</tr>
<tr>
<td>Miniature forceps by Kleinsasser, cup diameter 1 mm, curved right upwards</td>
<td>82430.0211</td>
</tr>
<tr>
<td>Miniature forceps by Kleinsasser, cup diameter 1 mm, curved left upwards</td>
<td>82430.0212</td>
</tr>
</tbody>
</table>
### Forceps

#### 230 mm

<table>
<thead>
<tr>
<th>1:1</th>
<th></th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Forceps" /></td>
<td>Forceps by Kleinsasser, cup diameter 2 mm, curved right</td>
<td>82430.1001</td>
</tr>
<tr>
<td><img src="image" alt="Forceps" /></td>
<td>Forceps by Kleinsasser, cup diameter 2 mm, curved left</td>
<td>82430.1002</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1:1</th>
<th></th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Forceps" /></td>
<td>Forceps by Kleinsasser, cup diameter 2 mm, curved right upwards</td>
<td>82430.1011</td>
</tr>
<tr>
<td><img src="image" alt="Forceps" /></td>
<td>Forceps by Kleinsasser, cup diameter 2 mm, curved left upwards</td>
<td>82430.1012</td>
</tr>
</tbody>
</table>
# Spoon Forceps

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:1</td>
<td>Forceps by Kleinsasser, cup 2 mm ø, straight, distal end 10° curved upward</td>
<td>82430.1200</td>
</tr>
<tr>
<td>1:1</td>
<td>Forceps by Kleinsasser, cup 2 mm ø, curved right, distal end 10° curved upward</td>
<td>82430.1201</td>
</tr>
<tr>
<td>1:1</td>
<td>Forceps by Kleinsasser, cup 2 mm ø, curved left, distal end 10° curved upward</td>
<td>82430.1202</td>
</tr>
<tr>
<td>1:1</td>
<td>Forceps by Kleinsasser, cup 2 mm ø, curved upwards, distal end 10° curved upwards</td>
<td>82430.1203</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:1</td>
<td>Forceps, cup 2 mm ø, straight</td>
<td>8283.01</td>
</tr>
<tr>
<td>1:1</td>
<td>Forceps, cup 2 mm ø, curved right</td>
<td>8283.02</td>
</tr>
<tr>
<td>1:1</td>
<td>Forceps, cup 2 mm ø, curved left</td>
<td>8283.03</td>
</tr>
<tr>
<td>1:1</td>
<td>Forceps, cup 2 mm ø, curved upwards</td>
<td>8283.04</td>
</tr>
</tbody>
</table>
# Needle Holders

<table>
<thead>
<tr>
<th>1:1</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Image of Needle Holder, with ratchet, 90° right angled, jaws 3 x 5.8 mm, 4 mm ø" /></td>
<td>82430.1401</td>
</tr>
<tr>
<td><img src="image2.png" alt="Image of Needle Holder, with ratchet, 90° left angled, jaws 3 x 5.8 mm, 4 mm ø" /></td>
<td>82430.1402</td>
</tr>
</tbody>
</table>

- **Needle Holder, with ratchet, 90° right angled, jaws 3 x 5.8 mm, 4 mm ø**
- **Needle Holder, with ratchet, 90° left angled, jaws 3 x 5.8 mm, 4 mm ø**

---

**230 mm**
## Instrument Set for Phonosurgery

<table>
<thead>
<tr>
<th>1:1</th>
<th>Ø</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forceps, serrated, curved right upwards</td>
<td></td>
<td>82430.0811</td>
</tr>
<tr>
<td>Forceps, serrated, curved left upwards</td>
<td></td>
<td>82430.0812</td>
</tr>
<tr>
<td>Grasping forceps, atraumatic, angled 45° left</td>
<td></td>
<td>8482.611</td>
</tr>
<tr>
<td>Grasping forceps, atraumatic, angled 45° right</td>
<td></td>
<td>8482.612</td>
</tr>
<tr>
<td>Grasping forceps, atraumatic, angled 90° left</td>
<td>2 mm</td>
<td>8482.621</td>
</tr>
<tr>
<td>Grasping forceps, atraumatic, angled 90° right</td>
<td></td>
<td>8482.622</td>
</tr>
<tr>
<td>Dilating forceps</td>
<td></td>
<td>8482.651</td>
</tr>
<tr>
<td>Double-spoon forceps, angled left</td>
<td></td>
<td>8482.642</td>
</tr>
<tr>
<td>Double-spoon forceps, angled right</td>
<td></td>
<td>8482.641</td>
</tr>
</tbody>
</table>
## Miniature-Scissors

<table>
<thead>
<tr>
<th>1:1</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Image" /></td>
<td><strong>Miniature-Scissors by Kleinsasser, straight</strong></td>
</tr>
<tr>
<td><img src="image2.png" alt="Image" /></td>
<td><strong>Miniature-Scissors by Kleinsasser, curved right</strong></td>
</tr>
<tr>
<td><img src="image3.png" alt="Image" /></td>
<td><strong>Miniature-Scissors by Kleinsasser, curved left</strong></td>
</tr>
<tr>
<td><img src="image4.png" alt="Image" /></td>
<td><strong>Miniature-Scissors by Kleinsasser, 45° curved upwards</strong></td>
</tr>
<tr>
<td><img src="image5.png" alt="Image" /></td>
<td><strong>230 mm</strong></td>
</tr>
</tbody>
</table>

**Type:**
- 82440.0200
- 82440.0201
- 82440.0202
- 82440.0203
### Scissors

<table>
<thead>
<tr>
<th>1:1</th>
<th>WL</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Scissors by Kleinsasser, curved upward 15°" /></td>
<td>230 mm</td>
<td>82440.0404</td>
</tr>
<tr>
<td><img src="image2" alt="Scissors by Kleinsasser, curved upward 45°" /></td>
<td>230 mm</td>
<td>82440.0403</td>
</tr>
<tr>
<td><img src="image3" alt="Scissors by Kleinsasser, horizontal cutting" /></td>
<td>230 mm</td>
<td>82440.0405</td>
</tr>
<tr>
<td><img src="image4" alt="Scissors by Kleinsasser, straight" /></td>
<td>230 mm</td>
<td>82440.0400</td>
</tr>
<tr>
<td><img src="image5" alt="Scissors by Kleinsasser, curved right" /></td>
<td>230 mm</td>
<td>82440.0401</td>
</tr>
<tr>
<td><img src="image6" alt="Scissors by Kleinsasser, curved left" /></td>
<td>230 mm</td>
<td>82440.0402</td>
</tr>
<tr>
<td><img src="image7" alt="Scissors by Kleinsasser, straight, distal end curved upwards 10°" /></td>
<td>230 mm</td>
<td>82440.0600</td>
</tr>
<tr>
<td><img src="image8" alt="Scissors by Kleinsasser, curved right, distal end curved upwards 10°" /></td>
<td>230 mm</td>
<td>82440.0601</td>
</tr>
<tr>
<td><img src="image9" alt="Scissors by Kleinsasser, curved left, distal end curved upwards 10°" /></td>
<td>230 mm</td>
<td>82440.0602</td>
</tr>
<tr>
<td><img src="image10" alt="Scissors by Kleinsasser, 45° curved upward, distal end curved upwards 10°" /></td>
<td>230 mm</td>
<td>82440.0603</td>
</tr>
</tbody>
</table>
**Scissors Forceps**

![Diagram of scissors forceps]

<table>
<thead>
<tr>
<th>1:1</th>
<th>Type</th>
<th>8283.21</th>
<th>8283.22</th>
<th>8283.23</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Scissors forceps, straight" /></td>
<td>Scissors forceps, straight</td>
<td><img src="image" alt="Scissors forceps, curved right" /></td>
<td>Scissors forceps, curved right</td>
<td><img src="image" alt="Scissors forceps, curved left" /></td>
</tr>
</tbody>
</table>

Dimensions: 235 mm
Laryngectomy Scissors
by Killian

Laryngectomy scissors by Killian, double action

<table>
<thead>
<tr>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laryngectomy scissors by Killian, double action 82440.0000</td>
</tr>
</tbody>
</table>
Cotton Applicator
by Killian

<table>
<thead>
<tr>
<th>Type</th>
<th>82450.0224</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cotton applicator by Killian</td>
<td>240 mm</td>
</tr>
</tbody>
</table>

Larynx, Oropharynx, Tonsil, Pharynx, Nose, Ear
## Probe, Hooks, Knot Tightener

<table>
<thead>
<tr>
<th>Type</th>
<th>WL</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Probe with blunt tip, angled</td>
<td>270 mm</td>
<td>8267.21</td>
</tr>
<tr>
<td>Hook by Kleinsasser, blunt, 90° angled</td>
<td>200 mm</td>
<td>82460.0701</td>
</tr>
<tr>
<td>Hook by Kleinsasser, blunt, retrograde angled</td>
<td>200 mm</td>
<td>82460.0702</td>
</tr>
<tr>
<td>Knot Pusher by Kleinsasser</td>
<td>200 mm</td>
<td>82460.1000</td>
</tr>
<tr>
<td><strong>Handle</strong></td>
<td></td>
<td><strong>82460.0000</strong></td>
</tr>
</tbody>
</table>
## Knives

<table>
<thead>
<tr>
<th>Type</th>
<th>WL</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laryngeal knife, oval, straight</td>
<td>230 mm</td>
<td>8267.14</td>
</tr>
<tr>
<td>Laryngeal knife, oval, 45° angled</td>
<td>230 mm</td>
<td>8267.15</td>
</tr>
<tr>
<td>Laryngeal knife by Kleinsasser, round, curved</td>
<td>200 mm</td>
<td>82460.0100</td>
</tr>
<tr>
<td>Laryngeal knife, round, vertical cutting</td>
<td>230 mm</td>
<td>8267.12</td>
</tr>
<tr>
<td>Laryngeal knife, straight cutting</td>
<td>200 mm</td>
<td>82460.0300</td>
</tr>
<tr>
<td>Laryngeal knife, sickle shaped, curved</td>
<td>230 mm</td>
<td>8267.10</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Handle</td>
<td>82460.0000</td>
</tr>
</tbody>
</table>
## Hook, Needles

<table>
<thead>
<tr>
<th>Type</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hook by Kleinsasser, sharp</td>
<td>82460.0601</td>
</tr>
<tr>
<td>Needle by Kleinsasser, curved right</td>
<td>82460.0801</td>
</tr>
<tr>
<td>Needle by Kleinsasser, curved left</td>
<td>82460.0802</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Handle</td>
<td>82460.0000</td>
</tr>
</tbody>
</table>
# Coagulation Suction Tubes

## BIPOLAR

| Bipolar coagulation suction tube | 3.0 mm | 8289.24 |

## MONOPOLAR

| HF coagulating aspirator       | 2.8 mm | 8291.101 |
|                               | 4.0 mm | 8291.102 |
## Aspiration Tubes, Raspatory

<table>
<thead>
<tr>
<th>Type</th>
<th>Ø</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aspiration tube with suction control, black</td>
<td>2.0 mm</td>
<td>8291.22</td>
</tr>
<tr>
<td></td>
<td>2.5 mm</td>
<td>8291.23</td>
</tr>
<tr>
<td></td>
<td>3.0 mm</td>
<td>8291.24</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Ø</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Raspatory by Kleinsasser, with suction channel</td>
<td>3.0 mm</td>
<td>82460.1200</td>
</tr>
</tbody>
</table>
Anesthesia Cannula

Anesthesia cannula, angled

<table>
<thead>
<tr>
<th>Pieces</th>
<th>Ø</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>0.8 mm</td>
<td>8261.30</td>
</tr>
</tbody>
</table>

250 mm
Needle-carrier Instrument, Cone-Trocar Set
by Lichtenberger

This needle-carrier instrument was developed to simplify laterofixation in operations to expand the glottis.
The instrument’s design makes it safe and easy to use.

Needle-carrier instrument by Lichtenberger
including 20 needles ........................................ 8267.50

Spare needles, pack of 100 ............................. 8267.951
The shutter technology achieves the highest image quality and is particularly user friendly.

The STROBOVIEW 5570 can be used universally just like a "normal" endocamera. This technical concept has several extremely beneficial aspects for the customer.

The STROBOVIEW 5570 can be used in 3 modes. The changeover between modes is simple and convenient at the touch of a footswitch:

- Stroboscope mode with "slow motion"
- Stroboscope mode with "still image"
- "Normal" camera mode

STROBOVIEW 5570
Includes: controller and camera head, footswitch, air tube, power cable, BNC cable, S-video cable, 50/60 Hz, 100-240 V a.c.
Strobview Kit ........................................... 5570.651

TECHNICAL DATA:
CONTROLLER
Noise Level: max. 50 db(A)
Weight: 4.6kg
Dimensions (WxHxD): 330 mm x 100 mm x 360 mm
Signal-to-Noise Ratio: >50dB
Color Control: Button for automatic white balance
Brightness Control: Automatic shutter control
Measuring Range of Voice Frequency: 50 - 888 Hz
Beat Time (slow motion): 0.5 s to 2 s
Phase Displacement: 0°-720° (with footswitch)

PORTS
Air: 3 mm Luer, male
Microphone: Flange socket 5-pin (270°)
Footswitch: Flange socket 7-pin (270°)

CAMERA HEADS
Weight with Camera Cable: 0.235 kg
Dimensions camera head Ø x L: Cable outlet 0°: 29 x 60 mm
Length of Camera Cable: approx. 2.5 m
Lens Thread: C-mount

OUTPUTS
Video (BNC) composite, S-video (mini-DIN 4-pin), audio (Chinch socket), external trigger output (BNC)

INPUTS
External trigger input (BNC)
Trachea • Bronchoscopy
Trachea - Bronchoscopy

<table>
<thead>
<tr>
<th>Item</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flexible Bronchoscope Adult</td>
<td>1</td>
</tr>
<tr>
<td>Flexible Bronchoscope Children</td>
<td>2</td>
</tr>
<tr>
<td>Bronchoscope Endoscopes</td>
<td>3-5</td>
</tr>
<tr>
<td>Bronchoscope Tubes and Accessories “Hemer” Model</td>
<td>6, 9</td>
</tr>
<tr>
<td>Bronchoscope Tubes and Accessories “Wolf” Model</td>
<td>7, 11</td>
</tr>
<tr>
<td>Bronchoscopes Tubes and Accessories for Children</td>
<td>8, 10</td>
</tr>
<tr>
<td>Optical Forceps</td>
<td>12-13</td>
</tr>
<tr>
<td>Forceps</td>
<td>14</td>
</tr>
<tr>
<td>Optical Steering Device</td>
<td>15</td>
</tr>
<tr>
<td>Aspiration and Irrigation</td>
<td>16-17</td>
</tr>
<tr>
<td>Other Instrumentation</td>
<td>18</td>
</tr>
<tr>
<td>Trachea Forceps</td>
<td>19</td>
</tr>
<tr>
<td>Intubation Tubes</td>
<td>20</td>
</tr>
<tr>
<td>Tracheal Retractors</td>
<td>21</td>
</tr>
</tbody>
</table>
TEXAS RIB

Rigid Integrated Bronchoscope
By Dr. Garrett Walsh, Professor of Surgery,
Department of Thoracic and Cardiovascular Surgery
University of Texas MD Anderson Cancer Center, Houston, TX

Bronchoscope Optical Element
12° direction of view, includes jet ventilation
connector with luer lock (8238.502) and
protective sleeve (15208.289).........................82510.1400

Bronchoscope Tubes

<table>
<thead>
<tr>
<th>OUTER DIAMETER</th>
<th>INNER DIAMETER</th>
<th>WORKING LENGTH</th>
<th>PRODUCT CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 mm</td>
<td>6 mm</td>
<td>415 mm</td>
<td>82520.0641</td>
</tr>
<tr>
<td>12 mm</td>
<td>8 mm</td>
<td>415 mm</td>
<td>82520.0841</td>
</tr>
<tr>
<td>12 mm</td>
<td>8 mm</td>
<td>415 mm</td>
<td>82520.0842</td>
</tr>
<tr>
<td>14 mm</td>
<td>10 mm</td>
<td>420 mm</td>
<td>82520.1041</td>
</tr>
<tr>
<td>16 mm</td>
<td>12 mm</td>
<td>420 mm</td>
<td>82520.1241</td>
</tr>
<tr>
<td>18 mm</td>
<td>14 mm</td>
<td>425 mm</td>
<td>82520.1441</td>
</tr>
</tbody>
</table>

The Texas Rigid Integrated Bronchoscope was designed for both diagnostic and therapeutic bronchoscopy applications such as biopsy, tumor resection, foreign body removal, stent placement and removal. The integrated endoscope adds another layer of protection, with separate channels for optic and instruments.
**Flexible Bronchoscope**

- **Working length**: 600 mm
- **Total length**: 850 mm
- **Diameter, distal tip**: 5 mm
- **Working channel**: 2.5 mm
- **Deflecting**: up 180°, down 130°
- **Angle of view**: 115°
- **Depth of focus**: 3 - 50 mm
- **Light transmitting cable**: 1800 mm
- **Eyepiece**: ISO Standard

---

**Flexible Bronchoscope,**
5mm ø .................................................................7265.001

including:
Instrument port (7265.751), flexible biopsy forceps (7264.611),
leakage tester (163.903), EO-steri-compensator (163.904), cleaning
brush (7264.691) and carrying case

**Grasping forceps,**

- oval 2.2 mm ø ..............................................................7264.601
- 3 bite rings ....................................................................8199.00

---

**Technical data:**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working length</td>
<td>600 mm</td>
</tr>
<tr>
<td>Total length</td>
<td>850 mm</td>
</tr>
<tr>
<td>Diameter, distal tip</td>
<td>5 mm</td>
</tr>
<tr>
<td>Working channel</td>
<td>2.5 mm</td>
</tr>
<tr>
<td>Deflecting</td>
<td>up 180°, down 130°</td>
</tr>
<tr>
<td>Angle of view</td>
<td>115°</td>
</tr>
<tr>
<td>Depth of focus</td>
<td>3 - 50 mm</td>
</tr>
<tr>
<td>Light transmitting cable</td>
<td>1800 mm</td>
</tr>
<tr>
<td>Eyepiece</td>
<td>ISO Standard</td>
</tr>
</tbody>
</table>
Flexible Naso-Pharyngo-Laryngoscopes
Suitable for Bronchoscopy in Children

Flexible Naso-Pharyngo-Laryngoscope,
with instrument channel 1.1 mm ø ..................................7223.001
including:
water tightness tester (163.903) and gas sterilization valve (163.904)

also available:
Flexible biopsy forceps, 1mm ø ........................................829.601
Flexible grasping forceps, 1mm ø .......................................828.651
HF button electrode, 1mm ø .............................................7223.911
Including- and suction instrument port .............................7223.75

Technical data:

<table>
<thead>
<tr>
<th>Specification</th>
<th>7223.001</th>
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</thead>
<tbody>
<tr>
<td>Working length</td>
<td>300 mm</td>
</tr>
<tr>
<td>Viewing direction</td>
<td>0°</td>
</tr>
<tr>
<td>Diameter at distal end</td>
<td>3.5 mm</td>
</tr>
<tr>
<td>Instrument channel</td>
<td>1.1 mm</td>
</tr>
<tr>
<td>Deflection</td>
<td>up 130°</td>
</tr>
<tr>
<td></td>
<td>down 130°</td>
</tr>
<tr>
<td>Angle of view</td>
<td>95°</td>
</tr>
<tr>
<td>Depth of focus</td>
<td>3 - 50 mm</td>
</tr>
<tr>
<td>Lightcable</td>
<td>fixed</td>
</tr>
<tr>
<td>Eyepiece</td>
<td>ISO Standard</td>
</tr>
</tbody>
</table>
### Bronchoscope Endoscopes

**2.7 mm**

<table>
<thead>
<tr>
<th>Angle of view</th>
<th>Outer ø</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>90°</td>
<td>2.7 mm</td>
<td>8462.37</td>
</tr>
</tbody>
</table>

#### Bronchoscope

**Mini Fiber Endoscope**

**2.05 mm**

<table>
<thead>
<tr>
<th>Angle of view</th>
<th>Outer ø</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>0°</td>
<td>2.05 mm</td>
<td>82512.431</td>
</tr>
</tbody>
</table>

- Ultra thin “semi-flexible” mini fiber endoscope
- Outstanding resolution
- Excellent for visualizing and passing through stenoses
- Ideal for difficult extractions of foreign bodies.
# Bronchoscope Endoscopes

2.7 mm

<table>
<thead>
<tr>
<th>Viewing direction</th>
<th>Outer ø</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>0°</td>
<td></td>
<td>8672.421</td>
</tr>
<tr>
<td>30°</td>
<td>2.7 mm</td>
<td>8672.422</td>
</tr>
<tr>
<td>70°</td>
<td></td>
<td>8672.425</td>
</tr>
</tbody>
</table>
## Bronchoscope Endoscopes

### 3.4 mm

<table>
<thead>
<tr>
<th>Angle of view</th>
<th>Outer Ø</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>0°</td>
<td>8464.30</td>
<td></td>
</tr>
<tr>
<td>60°</td>
<td>8464.34</td>
<td></td>
</tr>
<tr>
<td>90°</td>
<td>8464.37</td>
<td></td>
</tr>
</tbody>
</table>
### Bronchoscope Endoscopes

4.0 mm

<table>
<thead>
<tr>
<th>Viewing direction</th>
<th>Outer ø</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>0°</td>
<td>Bronchoscope endoscope</td>
<td>8650.414</td>
</tr>
<tr>
<td>30°</td>
<td>Bronchoscope endoscope</td>
<td>4.0 mm</td>
</tr>
<tr>
<td>70°</td>
<td>Bronchoscope endoscope</td>
<td>8650.415</td>
</tr>
</tbody>
</table>

[Image of bronchoscope endoscope]

300 mm

- General Instrumentation: Oral-Maxillofacial, Plastic Surgery, Esophagus, Trachea, Lung, Bronchoscopy

- Lung

- Oral-Maxillofacial, Plastic Surgery

- Esophagus

- General Instrumentation
## Bronchoscope Endoscopes

4.0 mm

<table>
<thead>
<tr>
<th>Viewing direction</th>
<th>Outer Ø</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>0°</td>
<td>4.0 mm</td>
<td>82514.431</td>
</tr>
<tr>
<td>30°</td>
<td>4.0 mm</td>
<td>82514.433</td>
</tr>
</tbody>
</table>

Lung
Bronchoscope Endoscopes

5.5 mm

<table>
<thead>
<tr>
<th>Angle of view</th>
<th>Outer Ø</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>0°</td>
<td></td>
<td>8465.30</td>
</tr>
<tr>
<td>30°</td>
<td></td>
<td>8465.32</td>
</tr>
<tr>
<td>60°</td>
<td>5.5 mm</td>
<td>8465.34</td>
</tr>
<tr>
<td>90°</td>
<td></td>
<td>8465.37</td>
</tr>
<tr>
<td>110°</td>
<td></td>
<td>8465.39</td>
</tr>
</tbody>
</table>
Bronchoscope by Hemer

with outside channel for simultaneous respiratory pressure and gas measurement

Bronchoscope tube, round profile

<table>
<thead>
<tr>
<th>Inner ø</th>
<th>WL</th>
<th>Length</th>
<th>Suitable endoscopes ø</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.5 mm</td>
<td>360 mm</td>
<td>400 mm</td>
<td>5.5 mm</td>
<td>8214.064</td>
</tr>
<tr>
<td>7.5 mm</td>
<td>360 mm</td>
<td>400 mm</td>
<td>5.5 mm</td>
<td>8214.074</td>
</tr>
<tr>
<td>8.5 mm</td>
<td>385 mm</td>
<td>430 mm</td>
<td>5.5 mm</td>
<td>8214.084</td>
</tr>
<tr>
<td>9.5 mm</td>
<td>385 mm</td>
<td>430 mm</td>
<td>5.5 mm</td>
<td>8214.094</td>
</tr>
<tr>
<td>10.5 mm</td>
<td>385 mm</td>
<td>430 mm</td>
<td>5.5 mm</td>
<td>8214.104</td>
</tr>
<tr>
<td>12.5 mm</td>
<td>305 mm</td>
<td>350 mm</td>
<td>5.5 mm</td>
<td>8214.124</td>
</tr>
</tbody>
</table>

Each tube is supplied with one illumination adapter cap (8256.99), a cap for the sampling channel (887.00) and a cap for the lateral respiration adapter (8205.13)
Bronchoscopes by Wolf

<table>
<thead>
<tr>
<th>ø</th>
<th>WL</th>
<th>Length</th>
<th>Suitable Endoscope ø</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.5 mm</td>
<td>360 mm</td>
<td>400 mm</td>
<td>5.5 mm</td>
<td>8214.072</td>
</tr>
<tr>
<td>8.5 mm</td>
<td>360 mm</td>
<td>400 mm</td>
<td>5.5 mm</td>
<td>8214.082</td>
</tr>
<tr>
<td>9.5 mm</td>
<td>360 mm</td>
<td>400 mm</td>
<td>5.5 mm</td>
<td>8214.092</td>
</tr>
<tr>
<td>10.5 mm</td>
<td>385 mm</td>
<td>430 mm</td>
<td>5.5 mm</td>
<td>8214.102</td>
</tr>
</tbody>
</table>

*Bronchoscope tubes* with integrated, intensive cold-light illumination, round profile

Each tube is supplied with one cap for lateral respiration adapter (8205.13)
Bronchoscopes for Children
by Mantel

Special bronchoscopes designed for various age groups. The use of proximal cold light illumination and prisms results in a large inner tube diameter with a minimal outer diameter. Can be connected to any respiration and anesthesia system. Various accessories also available for bronchography by Thal-Mantel

<table>
<thead>
<tr>
<th>ø</th>
<th>WL</th>
<th>Length</th>
<th>Suitable Endoscope-ø</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.2 mm</td>
<td>125 mm</td>
<td>160 mm</td>
<td>2.7 mm</td>
<td>8217.305</td>
</tr>
<tr>
<td>3.7 mm</td>
<td>165 mm</td>
<td>200 mm</td>
<td>2.7 mm</td>
<td>8217.355</td>
</tr>
<tr>
<td>5.2 mm</td>
<td>245 mm</td>
<td>280 mm</td>
<td>3.4 mm</td>
<td>8217.505</td>
</tr>
<tr>
<td>5.7 mm</td>
<td>265 mm</td>
<td>300 mm</td>
<td>3.4 mm 5.5 mm</td>
<td>8217.555</td>
</tr>
<tr>
<td>6.4 mm</td>
<td>315 mm</td>
<td>350 mm</td>
<td>3.4 mm 5.5 mm</td>
<td>8217.655</td>
</tr>
</tbody>
</table>

Each tube is supplied with 1 standard 15 mm connector (8205.18) and 1 cap (8205.13) for the lateral respiration nozzle.

Cold Light Illumination insert: 8217.12

Proximal Illumination insert ............................................8217.12
Hemer Bronchoscope Accessories Overview

Nozzle for Jet Ventilation
(only for Bronchoscopes 8214.xxx)
incl.: Luer connector (15401.071) ..8238.502

Cap with endoscope sealing cap
for endoscopes 5.5 mm ø .............8020.18
4 mm, 3.4 mm and 2.7 mm ø ....8021.18

Adjustable magnifier ..............4205.20
for above:
Cap with window
(with male taper, blue) ..........8205.12

Universal cap by Leinhardt
including 2 endoscope sealing caps
(89.01, 89.03) .........................8020.15

Spare endoscope sealing caps
(pack of 10)
for endoscopes
5.5 mm ø ..........................89.03 GY
4 mm ø ..........................89.02 BL
3.4 mm and 2.7 mm ø ..............89.01 RE

Illumination insert .................8217.12

Sealing plug .........................8256.99

Cap for the lateral
respiration nozzle ...............8205.13

Luer sealing cap ....................887.00

Light cord connectors
WOLF ..................................8095.00
ACM ..................................8087.00
Storz .................................8088.00

Endoscopy Bridges

<table>
<thead>
<tr>
<th>Suitable Tubes</th>
<th>Matching Endoscopes</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>8214.084</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8214.094</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8214.104</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8214.064</td>
<td>8465.30</td>
<td></td>
</tr>
<tr>
<td>8214.074</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8214.124</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

General Instrumentation
Oral-Maxillofacial, Plastic Surgery
Tubing
Esophagus
Oral-Maxillofacial, Plastic Surgery
Tubing
**Accessories**
for Bronchoscopes for Children by Mantel

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>8250.01</td>
<td><strong>Magnetic extractor</strong> for the removal of magnetized foreign bodies</td>
<td></td>
</tr>
<tr>
<td>8250.10</td>
<td><strong>Corkscrew extractor</strong> for the removal of soft, difficult to grasp foreign bodies</td>
<td></td>
</tr>
<tr>
<td>8282.33</td>
<td><strong>Biopsy forceps</strong></td>
<td></td>
</tr>
<tr>
<td>8282.37</td>
<td><strong>Foreign body forceps</strong></td>
<td></td>
</tr>
<tr>
<td>8298.02</td>
<td><strong>Biopsy cannula, 0.8 mm ø (21G), pack of 3</strong></td>
<td></td>
</tr>
<tr>
<td>8254.02</td>
<td><strong>Coagulation electrode</strong></td>
<td></td>
</tr>
</tbody>
</table>
Accessories For “Wolf” Bronchoscopes

Nozzle for Jet Ventilation
(only for Bronchoscopes 8214.xxx)
incl.: Luer connector (15401.071) .....8238.502

Cap with endoscope sealing cap:
for endoscopes 5.5 mm ø ..........8020.18
4 mm, 3.4 mm and 2.7 mm ø .....8021.18

Adjustable magnifier ..........4205.20
for above:
Cap with window
(with male taper, blue) ..........8205.12

Universal cap by Lehnhardt
including 2 endoscope sealing caps
(89.01, 89.03) .................8205.15

Endoscope Bridges

<table>
<thead>
<tr>
<th>Suitable Tubes</th>
<th>Matching Endoscopes</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>8214.102</td>
<td>8465.30</td>
<td>8215.714</td>
</tr>
<tr>
<td>8214.072</td>
<td></td>
<td>8215.715</td>
</tr>
<tr>
<td>8214.092</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8214.082</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Spare endoscope sealing caps
(pack of 10)
for endoscopes
5.5 mm ø ..................................89.03GY
4 mm ø .....................................89.02BL
3.4 mm and 2.7 mm ø ................89.01RE

Luer sealing cap ...............887.00

Light cord connectors
WOLF ........................................8095.00
ACM .........................................8087.00
Storz ......................................8088.00
## Optical Forceps
for Bronchoscope Tubes

<table>
<thead>
<tr>
<th>Grasping forceps for soft foreign bodies</th>
<th>to fit:</th>
<th>≥ 4</th>
<th>≤ 280</th>
<th>≥ 5</th>
<th>≤ 330</th>
<th>&gt; 7</th>
<th>≤ 450</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biopsy forceps, double-spoon</td>
<td>–</td>
<td></td>
<td></td>
<td>8464.63</td>
<td></td>
<td>8465.63</td>
<td></td>
</tr>
<tr>
<td>Biopsy forceps, retrograde spoon</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Foreign body forceps, alligator jaws</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
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<td>–</td>
</tr>
</tbody>
</table>

General Instrumentation
Oral-Maxillofacial, Plastic Surgery
Esophagus
Lung

Trochea, Lung, Bronchoscopy

Grasping forceps for soft foreign bodies

| 8462.64 | 8465.30 | – | – | – | – | – |

| 8465.61 |
| 8465.64 |
| 8465.63 |
| 8465.30 |
Excavator Optical Forceps, by Reichle

<table>
<thead>
<tr>
<th></th>
<th>WL</th>
<th>ø</th>
<th>Suitable tubes</th>
<th>Required endoscope</th>
<th>Item #</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Excavator XL</strong> by Reichle</td>
<td>474 mm</td>
<td>9.0 mm</td>
<td>8214.094, 8214.104, 8214.124, 8214.092, 8214.102</td>
<td>8465.30</td>
<td>8466.651</td>
</tr>
<tr>
<td><strong>Excavator XXL</strong> by Reichle</td>
<td>483 mm</td>
<td>9.0 mm</td>
<td>8214.092, 8214.094, 8214.102, 8214.104, 8214.124</td>
<td>8465.30</td>
<td>8466.652</td>
</tr>
<tr>
<td><strong>Forceps for Stenting</strong></td>
<td>Used for stent placement and removal</td>
<td></td>
<td></td>
<td></td>
<td>8466.653</td>
</tr>
</tbody>
</table>
### Bronchoscope Forceps

For use in tubes with inner diameters of:

<table>
<thead>
<tr>
<th>WL in mm:</th>
<th>≥ 6 mm</th>
<th>≤ 4 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>450</td>
<td>600</td>
<td>330</td>
</tr>
</tbody>
</table>

- **Foreign body forceps, alligator jaws**
  - 8280.41

- **Universal forceps**
  - 8280.42

- **Biopsy forceps, spoon-shaped**
  - 8280.43

- **Retrograde biopsy forceps, spoon-shaped, opens laterally**
  - 8280.44

- **Small tumor forceps, cutting**
  - 8280.45

- **Rotation forceps for hard foreign bodies**
  - 8280.46

- **Grasping forceps for soft foreign bodies**
  - 8280.47

- 8280.62

- 8280.63

- 8280.64

- 8280.65

- 8280.66

- 8280.67

- 8282.33

- 8282.34

- 8282.35

- 8282.36

- 8282.37
Optical Steering Device
for Bronchoscopes
"Wolf" Model (9x400, 8x400)

Steering device
for 5.5 mm endoscopes..................................................8465.801

also:
Flexible biopsy forceps..................................................8278.01

Cytology brush (disposable),
pack of 5........................................................................8278.30
Instruments for Aspiration and Irrigation

<table>
<thead>
<tr>
<th>Suction tubes</th>
<th>Instruments for adults</th>
<th>Instruments for children</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Ø</td>
<td>WL</td>
</tr>
<tr>
<td>with central and lateral openings, rigid</td>
<td>4 mm</td>
<td>500 mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>with rubber tip, central opening</td>
<td>4 mm</td>
<td>500 mm</td>
</tr>
<tr>
<td></td>
<td>4 mm</td>
<td>600 mm</td>
</tr>
<tr>
<td>HF-bipolar</td>
<td>5 mm</td>
<td>450 mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HF-bipolar</td>
<td>–</td>
<td>–</td>
</tr>
</tbody>
</table>
# Instruments for Aspiration and Irrigation

<table>
<thead>
<tr>
<th>Description</th>
<th>Type</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Double hand bulb with Luer connector</strong> 886.00</td>
<td></td>
<td>127.00</td>
</tr>
<tr>
<td><strong>Secretion trap with Luer connector,</strong> including graduated glass, 10 ccm</td>
<td></td>
<td>8294.01</td>
</tr>
<tr>
<td><strong>Spare glass</strong></td>
<td></td>
<td>8292.91</td>
</tr>
</tbody>
</table>

Alternatively:
- **Disposable tubes**, pack of 100 8294.60
- **Adapters**
- **Sealing plugs**, pack of 100 294.61

<table>
<thead>
<tr>
<th>Description</th>
<th>Type</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Irrigation and suction device with Luer connector,</strong> including graduated glass, 10 ccm</td>
<td></td>
<td>8294.02</td>
</tr>
<tr>
<td><strong>Spare glass</strong></td>
<td></td>
<td>8294.92</td>
</tr>
</tbody>
</table>

Alternatively:
- **Disposable tubes**, pack of 100 8294.60
- **Adapters**
- **Sealing plugs**, pack of 100 294.61
Other Auxiliary Instruments

Sponge, 350 mm long ....................................................8295.35
500 mm long ....................................................8295.50

Cotton applicator, 500 mm long .........................8296.51

Biopsy cannula, 0.8 mm Ø (21 G),
350 mm long, straight, pack of 3 .............8298.02

Biopsy cannula, 1.4 mm Ø (17 G),
490 mm long, straight, pack of 3 .............8298.01

For anesthesia of the mucosa:

Bronchial atomizer
for adults ........................................................8292.01

Atomizer for larynx and epipharynx.........................8292.11

also:

Double bellows with
Luer connector 886.00 (not illustrated) ....................127.00

Spare glass for atomizers, graduated, 10 cc ......................8292.91
Forceps
for introducing tracheal tubes
by Magill

<table>
<thead>
<tr>
<th>Description</th>
<th>Length</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forceps by Magill, for introducing tracheal tubes</td>
<td>200 mm</td>
<td>82530.0020</td>
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</table>

Lung
# Intubation Tubes

by Bruenings

<table>
<thead>
<tr>
<th>Ø</th>
<th>Type</th>
</tr>
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<tbody>
<tr>
<td>5 mm</td>
<td>82570.0005</td>
</tr>
<tr>
<td>7 mm</td>
<td>82570.0007</td>
</tr>
<tr>
<td>9 mm</td>
<td>82570.0009</td>
</tr>
</tbody>
</table>

**Intubation tube** by Bruenings  

[Diagram of an intubation tube with dimensions 200 mm]
## Tracheal Retractors

<table>
<thead>
<tr>
<th>Type</th>
<th>1-prong</th>
<th>2-prongs</th>
<th>3-prongs</th>
<th>4-prongs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tracheal retractor, sharp</td>
<td>82560.0001</td>
<td>82560.0002</td>
<td>82560.0003</td>
<td>82560.0004</td>
</tr>
<tr>
<td>Tracheal retractor, blunt</td>
<td>82560.0101</td>
<td>82560.0102</td>
<td>82560.0103</td>
<td>82560.0104</td>
</tr>
</tbody>
</table>
Esophagus
**Esophagus**

<table>
<thead>
<tr>
<th>Section</th>
<th>Pages</th>
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</thead>
<tbody>
<tr>
<td>Esophagus Endoscopes</td>
<td>1-4</td>
</tr>
<tr>
<td>Esophagoscope Tubes</td>
<td>5</td>
</tr>
<tr>
<td>Accessories</td>
<td>6</td>
</tr>
<tr>
<td>Esophagoscope Tubes for Children</td>
<td>7</td>
</tr>
<tr>
<td>Accessories for Children</td>
<td>8</td>
</tr>
<tr>
<td>Optical Forceps</td>
<td>9</td>
</tr>
<tr>
<td>Forceps</td>
<td>10</td>
</tr>
<tr>
<td>Aspiration and Irrigation</td>
<td>11-12</td>
</tr>
<tr>
<td>Auxiliary Instruments</td>
<td>13</td>
</tr>
</tbody>
</table>
Esophagoscope Endoscopes
2.7 mm

<table>
<thead>
<tr>
<th>Angle of view</th>
<th>Outer ø</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Esophagoscope endoscope</td>
<td>2.7 mm</td>
<td>8462.37</td>
</tr>
</tbody>
</table>

![Esophagoscope diagram](image)

Dimensions:
- Length: 310 mm
- Diameter: 2.7 mm

Note: The image shows a diagram of an esophagoscope endoscope with a 90° angle of view.
## Esophagoscope Endoscopes

### 3.4 mm

![Esophagoscope Endoscope Image](image)

<table>
<thead>
<tr>
<th>Angle of view</th>
<th>Outer ø</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>0°</td>
<td>Esophagoscope endoscope</td>
<td>8464.30</td>
</tr>
<tr>
<td>60°</td>
<td>Esophagoscope endoscope</td>
<td>3.4 mm, 8464.34</td>
</tr>
<tr>
<td>90°</td>
<td>Esophagoscope endoscope</td>
<td>8464.37</td>
</tr>
</tbody>
</table>
# PANOVIEW PLUS Endoscopes

**4.0 mm**

## Angle of View

<table>
<thead>
<tr>
<th>Angle of View</th>
<th>Outer ø</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>0°</td>
<td>4.0 mm</td>
<td>8650.414</td>
</tr>
<tr>
<td>25°</td>
<td>4.0 mm</td>
<td>8654.422</td>
</tr>
<tr>
<td>70°</td>
<td>4.0 mm</td>
<td>8650.415</td>
</tr>
</tbody>
</table>

**Esophagoscope PANOVIEW PLUS endoscope**

**Type:** 8654.422
## Esophagoscope Endoscopes

5.5 mm

<table>
<thead>
<tr>
<th>Angle of view</th>
<th>Outer ø</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>0°</td>
<td>Esophagoscope endoscope</td>
<td>8465.30</td>
</tr>
<tr>
<td>30°</td>
<td>Esophagoscope endoscope</td>
<td>8465.32</td>
</tr>
<tr>
<td>60°</td>
<td>Esophagoscope endoscope</td>
<td>8465.34</td>
</tr>
<tr>
<td>90°</td>
<td>Esophagoscope endoscope</td>
<td>8465.37</td>
</tr>
<tr>
<td>110°</td>
<td>Esophagoscope endoscope</td>
<td>8465.39</td>
</tr>
</tbody>
</table>
Esophagoscopes
"Wolf" Model

These universal esophagoscopes are based on the Roberts-Jesberg model.

These instruments combine the advantages of standard and pneumatic-optical esophagoscopes, and intensive distal and proximal illumination via an integrated light system. There is an air connection and the device can be sealed proximally by a cap with a window.

<table>
<thead>
<tr>
<th>1:1</th>
<th>Size</th>
<th>WL</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>250 mm</td>
<td>8256.48</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>350 mm</td>
<td>8256.49</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>250 mm</td>
<td>8256.38</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>450 mm</td>
<td>8256.39</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>300 mm</td>
<td>8256.29</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>400 mm</td>
<td>8256.30</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>500 mm</td>
<td>8256.31</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>300 mm</td>
<td>8256.09</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>500 mm</td>
<td>8256.10</td>
</tr>
</tbody>
</table>

Each tube supplied with 1 plug 8256.99 and 1 Luer connector 887.00.
Accessories
for Esophagoscopes "Wolf" Model

Proximal illumination insert ........................................8217.12
Cap with window ..........................................................8838.60
Magnifier .................................................................4256.20
Universal cap with endoscope sealing cap (89.03) ...............8020.15

Spare endoscope sealing caps
(pack of 10)
for endoscopes 5.5 mm ø ........................................89.03 GY
4 mm ø ...................................................................89.02 BL
3.4 mm and 2.7 mm ø ............................................89.01 RE

on request (not illustrated)
Straight handle ............................................................8241.99
Double bellows with Luer connector 886.00 ....................127.00
Esophagoscopes for Children

Proximal illumination insert available. The esophagus can be dilated pneumatically by using the double bellows with the tube closed.

<table>
<thead>
<tr>
<th>ø</th>
<th>WL</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 mm</td>
<td>220 mm</td>
<td>8270.50</td>
</tr>
<tr>
<td>6.5 mm</td>
<td>320 mm</td>
<td>8270.65</td>
</tr>
</tbody>
</table>

Esophagoscope tubes for children
Accessories
for Esophagoscopes for Children

**Illumination insert** ........................................... 8217.12

**Cap** with endoscope sealing cap
for endoscopes
Ø 4 mm, 3.4 mm and 2.7 mm ......................... 8021.18

**Magnifier** ......................................................... 4205.20
for above:
**Cap** with window
(with male taper, blue) ........................................ 8205.12

**Universal cap** by Lehnhardt
including 2 endoscope sealing caps
(89.01, 89.03) ................................................ 8020.15

**Double bellows** with Luer connector 886.00 ............... 127.00
### Optical Forceps
#### for Esophagoscopes

<table>
<thead>
<tr>
<th>Forceps Type</th>
<th>8462.30</th>
<th>8464.30</th>
<th>8465.30</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biopsy forceps, double-spoon</td>
<td>–</td>
<td>8464.63</td>
<td>8465.63</td>
</tr>
<tr>
<td>Biopsy forceps, retrograde spoon</td>
<td>–</td>
<td>–</td>
<td>8465.64</td>
</tr>
<tr>
<td>Foreign body forceps, alligator jaws</td>
<td>–</td>
<td>–</td>
<td>8465.61</td>
</tr>
<tr>
<td>Grasping forceps for soft foreign bodies</td>
<td>8462.64</td>
<td>–</td>
<td></td>
</tr>
</tbody>
</table>
| Universal forceps                         | 8462.62 | –       | \( \geq \) greater than or equal to \( \leq \) smaller than or equal to \( \)
## Esophagoscope Forceps

**Diagram:**

- WL in mm: 350 450 600 350 330

<table>
<thead>
<tr>
<th>For use in tubes with diameters of:</th>
<th>≥ 6 mm</th>
<th>≤ 4 mm</th>
<th>≤ 4 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>WL in mm:</td>
<td>350</td>
<td>450</td>
<td>600</td>
</tr>
<tr>
<td><strong>Foreign body forceps</strong>, alligator jaws</td>
<td>–</td>
<td>8280.41</td>
<td>–</td>
</tr>
<tr>
<td><strong>Universal forceps</strong></td>
<td>–</td>
<td>8280.42</td>
<td>8280.62</td>
</tr>
<tr>
<td><strong>Biopsy forceps</strong>, spoon-shaped</td>
<td>–</td>
<td>8280.43</td>
<td>–</td>
</tr>
<tr>
<td><strong>Retrograde biopsy forceps</strong>, spoon-shaped, opens laterally</td>
<td>–</td>
<td>8280.44</td>
<td>–</td>
</tr>
<tr>
<td><strong>Small tumor forceps</strong>, cutting</td>
<td>–</td>
<td>8280.45</td>
<td>–</td>
</tr>
<tr>
<td><strong>Rotation forceps</strong> for hard foreign bodies</td>
<td>–</td>
<td>8280.46</td>
<td>–</td>
</tr>
<tr>
<td><strong>Grasping forceps</strong> for soft foreign bodies</td>
<td>–</td>
<td>8280.47</td>
<td>8280.67</td>
</tr>
</tbody>
</table>
Instruments for Aspiration and Irrigation

<table>
<thead>
<tr>
<th>Suction tubes</th>
<th>Instruments for adults</th>
<th>Instruments for children</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Ø WL Cat. No.</td>
<td>Ø WL Cat. No.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>with central and lateral openings, rigid</td>
<td>4 mm 500 mm 8291.45</td>
<td>2 mm 250 mm 8291.22</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2.5 mm 250 mm 8291.23</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 mm 250 mm 8291.24</td>
</tr>
<tr>
<td>with rubber tip, central opening</td>
<td>4 mm 500 mm 8291.85</td>
<td>2.5 mm 350 mm 8291.83</td>
</tr>
<tr>
<td>HF-bipolar</td>
<td>5 mm 450 mm 8384.29</td>
<td>5 mm 450 mm 8384.29</td>
</tr>
<tr>
<td>HF-bipolar</td>
<td>– – –</td>
<td>3 mm 330 mm 8289.24</td>
</tr>
</tbody>
</table>
# Instruments

for Aspiration and Irrigation

<table>
<thead>
<tr>
<th>Double hand bulb with Luer connector 886.00</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Secretion trap with Luer connector, including graduated glass, 10 ccm</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spare glass</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Alternatively:
- Disposable tubes, pack of 100
- Adapters
- Sealing plugs, pack of 100

<table>
<thead>
<tr>
<th>Irrigation and suction device with Luer connector, including graduated glass, 10 ccm</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spare glass</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Alternatively:
- Disposable tubes, pack of 100
- Adapters
- Sealing plugs, pack of 100
Other Auxiliary Instruments

Sponge, 350 mm long .................................................... 8295.35
500 mm long .................................................... 8295.50

Cotton applicator, 500 mm long ........................................ 8296.51

Biopsy cannula, 0.8 mm ø (21 G),
350 mm long, straight, pack of 3 .............. 8298.02

Biopsy cannula, 1.4 mm ø (17 G),
490 mm long, straight, pack of 3 .............. 8298.01

For anesthesia of the mucosa:

Bronchial atomizer
for adults .................................................... 8292.01

Atomizer for larynx and epipharynx .................. 8292.11
also:
Double bellows with
Luer connector 886.00 (not illustrated) ................. 127.00
Spare glass for atomizers, graduated, 10 cc .......... 8292.91
Oral • Maxillo • Facial
Plastic Surgery
### Endoscopic Plastic Surgery

#### Forehead Lift, Blepharoplasty

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Endoscopes</td>
<td>1</td>
</tr>
<tr>
<td>Sheaths</td>
<td>2-3</td>
</tr>
<tr>
<td>Dissectors</td>
<td>4-6</td>
</tr>
<tr>
<td>Nerve Hooks</td>
<td>7</td>
</tr>
<tr>
<td>Scissors</td>
<td>8</td>
</tr>
<tr>
<td>Forceps</td>
<td>9</td>
</tr>
<tr>
<td>Suction Instruments</td>
<td>10</td>
</tr>
<tr>
<td>Coagulation-Suction Instruments</td>
<td>11-12</td>
</tr>
</tbody>
</table>

#### Breast Reconstruction, Abdominoplasty

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Endoscopes</td>
<td>13-14</td>
</tr>
<tr>
<td>Retractors</td>
<td>15-16</td>
</tr>
<tr>
<td>Dissectors</td>
<td>17</td>
</tr>
<tr>
<td>Forceps</td>
<td>18-20</td>
</tr>
<tr>
<td>Scissors</td>
<td>21</td>
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<tr>
<td>Needle Holders</td>
<td>21</td>
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<tr>
<td>Suction Instruments</td>
<td>22-23</td>
</tr>
<tr>
<td>Coagulation-Suction Instruments</td>
<td>24</td>
</tr>
<tr>
<td>Electrodes</td>
<td>25</td>
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</tbody>
</table>

#### Endoscopic Rhinoplasty

*See the Nose Section*

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Quantity</th>
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</thead>
<tbody>
<tr>
<td>Coagulation Instrument</td>
<td>11</td>
</tr>
</tbody>
</table>
Endoscopes 4 mm

Forehead Lift, Blepharoplasty

PANOVIEW PLUS endoscope, 4 mm ø, 30°..8880.543
## Retraction Sheaths for 4 mm Endoscope

### Forehead Lift

<table>
<thead>
<tr>
<th>Retraction Sheath</th>
<th>Ø 5 mm</th>
<th>WL 135 mm</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Retraction sheath with straight elevator and rotatable tap</td>
<td>●</td>
<td>●</td>
<td>8801.061</td>
</tr>
<tr>
<td>Retraction sheath with angled elevator and rotatable tap</td>
<td>●</td>
<td>●</td>
<td>8801.051</td>
</tr>
</tbody>
</table>
Suction-Irrigation Sheath
for 4 mm Endoscope

<table>
<thead>
<tr>
<th>Size (mm)</th>
<th>WL (mm)</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>oval 6.8 x 5.2</td>
<td>140</td>
<td>8475.031</td>
</tr>
</tbody>
</table>

Suction irrigation sheath, oval

also required:

Suction-irrigation handle 8475.26
### Glabella / Temporalis Dissectors, flexible

**Forehead Lift, Blepharoplasty**

<table>
<thead>
<tr>
<th>GLABELLA / TEMPORALIS DISSECTOR, curved, mm, round</th>
<th>WL 150 mm</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glabella / temporalis dissector, curved, 20 x 4.5 mm, round</td>
<td></td>
<td>8801.782</td>
</tr>
<tr>
<td>Glabella / temporalis dissector, curved, 25 x 5.5 mm, round</td>
<td></td>
<td>8801.783</td>
</tr>
<tr>
<td>Glabella / temporalis dissector, curved, 25 x 5.5 mm</td>
<td></td>
<td>8801.784</td>
</tr>
<tr>
<td>Glabella / temporalis dissector, curved, 25 x 10 mm</td>
<td></td>
<td>8801.781</td>
</tr>
</tbody>
</table>
Temporalis Dissector
Forehead Lift, Blepharoplasty

<table>
<thead>
<tr>
<th>Temporalis dissector, 12 mm</th>
<th>WL 120 mm</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gold-plated handle</td>
<td></td>
<td>8801.791</td>
</tr>
</tbody>
</table>

Dissector, blunt
Forehead Lift, Blepharoplasty

<table>
<thead>
<tr>
<th>Dissector, blunt, 10 mm</th>
<th>WL 130 mm</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gold-plated handle</td>
<td></td>
<td>8801.751</td>
</tr>
</tbody>
</table>
## Dissector by Wood

**Forehead Lift, Blepharoplasty**

<table>
<thead>
<tr>
<th>Size mm</th>
<th>WL mm</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>270</td>
<td>8801.771</td>
</tr>
<tr>
<td>7/8</td>
<td>300</td>
<td>8801.772</td>
</tr>
</tbody>
</table>

**Dissector by Wood**

**Dissector by Wood, large**
### Nerve Hooks

**Forehead Lift**

<table>
<thead>
<tr>
<th>WL 130 mm</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>8801.901</td>
</tr>
<tr>
<td><strong>Nerve hook, curved upwards</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>8801.902</td>
</tr>
<tr>
<td><strong>Nerve hook, curved left</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>8801.903</td>
</tr>
<tr>
<td><strong>Nerve hook, curved right</strong></td>
<td></td>
</tr>
</tbody>
</table>

Gold-plated handle
### Micro Grasping Forceps

**Forehead Lift**

<table>
<thead>
<tr>
<th>Micro grasping forceps, curved right</th>
<th>ø 2 mm</th>
<th>WL 240 mm</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>⬤</td>
<td>⬤</td>
<td>8283.12</td>
</tr>
<tr>
<td>Micro grasping forceps, curved left</td>
<td>⬤</td>
<td>⬤</td>
<td>8283.13</td>
</tr>
</tbody>
</table>

**General Instrumentation**

**Micro Grasping Forceps**

- ø 2 mm
- WL 240 mm
- Type

**Trachea, Lung, Bronchoscopy**

**Esophagus**

**Oral-Maxillofacial, Plastic Surgery**

**RICHARD WOLF**
## Suction Tube

### Forehead Lift

<table>
<thead>
<tr>
<th>Suction tube, curved</th>
<th>( \phi ) mm</th>
<th>WL mm</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>4</td>
<td>130</td>
<td>8801.861</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Suction elevator</th>
<th>Size mm</th>
<th>WL mm</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>oval 6.5 x 4.5</td>
<td>130</td>
<td>8801.851</td>
</tr>
</tbody>
</table>
Coagulation Instrument
with suction channel
Forehead Lift, Blepharoplasty, Rhinoplasty

BIPOLAR

<table>
<thead>
<tr>
<th>ø mm</th>
<th>WL mm</th>
<th>Suction applicator</th>
<th>WL mm</th>
<th>Bipolar connector</th>
<th>Complete instrument</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>110</td>
<td>8801.553</td>
<td>150</td>
<td>8801.554</td>
<td>8801.551</td>
</tr>
<tr>
<td>3</td>
<td>240</td>
<td>8801.453</td>
<td>280</td>
<td>8801.554</td>
<td>8801.451</td>
</tr>
</tbody>
</table>

Coagulation instrument, bipolar,
including: suction applicator,
1 button electrode, bipolar connector

Spare parts:

Bipolar button electrode (pack of 5)
WL 150 mm ................................................................. 8801.552
WL 280 mm ................................................................. 8801.452

Bipolar connecting cable B108 series see page 10-19
### BIPOLAR

<table>
<thead>
<tr>
<th>Ø 3 mm</th>
<th>WL 330 mm</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>8289.24</td>
</tr>
</tbody>
</table>

Bipolar coagulation-suction tube

Bipolar connecting cable 8108 series see page 10-19

### MONOPOLAR

<table>
<thead>
<tr>
<th>Ø 3 mm</th>
<th>WL 210 mm</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>8291.102</td>
</tr>
</tbody>
</table>

HF coagulation-suction tube

HF connecting cable 8106 series see page 10-18
Endoscopes 4 mm
Breast Reconstruction, Abdominoplasty

PANOVIEW PLUS endoscope, 4 mm Ø,
30° ................................................................. 8880.543

Endoscopes 10 mm
Breast Reconstruction, Abdominoplasty

PANOVIEW PLUS endoscope, 10 mm Ø,
30° ................................................................. 8934.432
## Optical Retractor

**Breast Reconstruction, Abdominoplasty**

### Table: Optical Retractor Specifications

<table>
<thead>
<tr>
<th>Blade width mm</th>
<th>WL mm</th>
<th>Type</th>
<th>4 mm*</th>
<th>7 mm</th>
<th>10 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>14</td>
<td>125</td>
<td>8801.241</td>
<td>8801.295</td>
<td>8801.292</td>
<td>8801.293</td>
</tr>
<tr>
<td>28</td>
<td>145</td>
<td>8801.251</td>
<td>8801.291</td>
<td>8801.292</td>
<td>8801.293</td>
</tr>
</tbody>
</table>

* Only 4 mm endoscopes from WOLF can be locked in position.

### Diagram: Optical Retractor

![Optical Retractor Diagram](image)

### Also:

**Endoscope holder**

- Optional: 4 mm endoscopes from WOLF can be locked in position.
Multiple-adjustment retractor
including light rod,
insufflation and aspiration tube ........................................8456.011
## Dissectors, blunt

### Breast Reconstruction

#### Gold-plated handle

<table>
<thead>
<tr>
<th>Dissector, blunt, 10 mm</th>
<th>WL 130 mm</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>8801.751</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dissector, blunt</th>
<th>ø 7 mm</th>
<th>WL 130 mm</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>8801.761</td>
</tr>
</tbody>
</table>
## Micro Grasping Forceps

### Breast Reconstruction

<table>
<thead>
<tr>
<th>Micro grasping forceps</th>
<th>ø 2 mm</th>
<th>WL 220 mm</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Micro grasping forceps, curved right</td>
<td>•</td>
<td>•</td>
<td>8283.12</td>
</tr>
<tr>
<td>Micro grasping forceps, curved left</td>
<td>•</td>
<td>•</td>
<td>8283.13</td>
</tr>
</tbody>
</table>
Tissue Grasping Forceps
Breast Reconstruction, Abdominoplasty

<table>
<thead>
<tr>
<th>Φ 3 mm</th>
<th>WL 245 mm</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>8283.53</td>
</tr>
</tbody>
</table>

*Tissue grasping forceps, large*
Modular Needle Holder
with Axially aligned handle
Breast Reconstruction, Abdominoplasty

<table>
<thead>
<tr>
<th>Inner section with sheath tube and rinsing connector</th>
<th>Axially aligned handle</th>
<th>Complete instrument</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Image" /></td>
<td><img src="image2.png" alt="Image" /></td>
<td><img src="image3.png" alt="Image" /></td>
</tr>
</tbody>
</table>

- one handle fixed
- notched locking mechanism (can be disengaged)

<table>
<thead>
<tr>
<th>ø</th>
<th>WL</th>
<th>8393.941</th>
</tr>
</thead>
<tbody>
<tr>
<td>8393.505</td>
<td>5</td>
<td>340</td>
</tr>
</tbody>
</table>

Modular needle holder, straight
with carbide insert

| 8393.505 | 5   | 340    | 8393.502 |

General Instrumentation
Suction-Irrigation System
Breast Reconstruction, Abdominoplasty

<table>
<thead>
<tr>
<th></th>
<th>ø 5 mm</th>
<th>WL 310 mm</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suction-irrigation tube</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>●</td>
<td>●</td>
<td>8383.911</td>
</tr>
</tbody>
</table>

*also required:*

<table>
<thead>
<tr>
<th>Suction-irrigation handle</th>
<th>8385.901</th>
</tr>
</thead>
<tbody>
<tr>
<td>also required:</td>
<td></td>
</tr>
<tr>
<td>Sealing cap</td>
<td>8385.902</td>
</tr>
</tbody>
</table>

| Suction-irrigation tube set, with piercing spike, autoclavable | 8170.952 |

8385.901 8385.902
## Suction Tube

**Breast Reconstruction, Abdominoplasty**

<table>
<thead>
<tr>
<th>Suction tube, curved</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Ø mm</th>
<th>WL mm</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>130</td>
<td>8801.861</td>
</tr>
</tbody>
</table>

| Suction elevator |

<table>
<thead>
<tr>
<th>size</th>
<th>WL mm</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>oval 6.5 x 4.25</td>
<td>130</td>
<td>8801.851</td>
</tr>
</tbody>
</table>
## Coagulation-Suction Tube

**Breast Reconstruction, Abdominoplasty**

### BIPOLAR

<table>
<thead>
<tr>
<th>Diameter (mm)</th>
<th>Length (mm)</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>240</td>
<td>8289.24</td>
</tr>
</tbody>
</table>

Bipolar coagulation-suction tube

Bipolar connecting cable 8108 series, see page 10-19

### MONOPOLAR

<table>
<thead>
<tr>
<th>Diameter (mm)</th>
<th>Length (mm)</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>210</td>
<td>8291.102</td>
</tr>
</tbody>
</table>

HF coagulation-suction tube

HF connecting cable 8106 series, see page 10-18
General Instruments for ENT
General Instruments for ENT

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Retractors</td>
<td>1-2</td>
</tr>
<tr>
<td>Towel Forceps</td>
<td>3</td>
</tr>
<tr>
<td>Artery Forceps</td>
<td>4-6</td>
</tr>
<tr>
<td>Dressing Forceps</td>
<td>7-11</td>
</tr>
<tr>
<td>Needle Holders</td>
<td>12</td>
</tr>
<tr>
<td>Scissors</td>
<td>13</td>
</tr>
<tr>
<td>Syringe (Glass)</td>
<td>14</td>
</tr>
<tr>
<td>Metal Dishes</td>
<td>15</td>
</tr>
<tr>
<td>Head Lamps</td>
<td>16</td>
</tr>
</tbody>
</table>
Wound Retractors
by Langenbeck

<table>
<thead>
<tr>
<th>Length x Width</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>28 x 10 mm</td>
<td>82820.0001</td>
</tr>
<tr>
<td>28 x 14 mm</td>
<td>82820.0002</td>
</tr>
<tr>
<td>28 x 16 mm</td>
<td>82820.0003</td>
</tr>
<tr>
<td>33 x 14 mm</td>
<td>82820.0004</td>
</tr>
<tr>
<td>40 x 10 mm</td>
<td>82820.0005</td>
</tr>
<tr>
<td>40 x 13 mm</td>
<td>82820.0006</td>
</tr>
</tbody>
</table>

Wound retractor by Langenbeck
## Wound Retractors
by Volkmann

<table>
<thead>
<tr>
<th>Type</th>
<th>Wound retractor by Volkmann, 1 prong, blunt</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>82820.0201</td>
</tr>
<tr>
<td></td>
<td>Wound retractor by Volkmann, 2 prongs, blunt</td>
</tr>
<tr>
<td></td>
<td>82820.0202</td>
</tr>
<tr>
<td></td>
<td>Wound retractor by Volkmann, 3 prongs, blunt</td>
</tr>
<tr>
<td></td>
<td>82820.0203</td>
</tr>
<tr>
<td></td>
<td>Wound retractor by Volkmann, 4 prongs, blunt</td>
</tr>
<tr>
<td></td>
<td>82820.0204</td>
</tr>
<tr>
<td></td>
<td>Wound retractor by Volkmann, 6 prongs, blunt</td>
</tr>
<tr>
<td></td>
<td>82820.0206</td>
</tr>
<tr>
<td></td>
<td>Wound retractor by Volkmann, 1 prong, sharp</td>
</tr>
<tr>
<td></td>
<td>82820.0301</td>
</tr>
<tr>
<td></td>
<td>Wound retractor by Volkmann, 2 prongs, sharp</td>
</tr>
<tr>
<td></td>
<td>82820.0302</td>
</tr>
<tr>
<td></td>
<td>Wound retractor by Volkmann, 3 prongs, sharp</td>
</tr>
<tr>
<td></td>
<td>82820.0303</td>
</tr>
<tr>
<td></td>
<td>Wound retractor by Volkmann, 4 prongs, sharp</td>
</tr>
<tr>
<td></td>
<td>82820.0304</td>
</tr>
<tr>
<td></td>
<td>Wound retractor by Volkmann, 6 prongs, sharp</td>
</tr>
<tr>
<td></td>
<td>82820.0306</td>
</tr>
</tbody>
</table>
Towel Forceps
by Backhaus

<table>
<thead>
<tr>
<th>Length</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>80 mm</td>
<td>82830.0008</td>
</tr>
<tr>
<td>110 mm</td>
<td>82830.0011</td>
</tr>
<tr>
<td>130 mm</td>
<td>82830.0013</td>
</tr>
</tbody>
</table>
# Delicate Artery Forceps

*by Halstead-Mosquito*

<table>
<thead>
<tr>
<th>Delicate artery forceps by Halstead-Mosquito, delicate, straight</th>
<th>Length</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Delicate artery forceps by Halstead-Mosquito, delicate, curved</td>
<td>120 mm</td>
<td>82830.0212</td>
</tr>
<tr>
<td>Delicate artery forceps by Halstead-Mosquito, straight</td>
<td>125 mm</td>
<td>82830.0412</td>
</tr>
<tr>
<td>Delicate artery forceps by Halstead-Mosquito, curved</td>
<td>125 mm</td>
<td>82830.0512</td>
</tr>
<tr>
<td>Delicate artery forceps by Halstead-Mosquito, 1/2 prongs, straight</td>
<td>125 mm</td>
<td>82830.0612</td>
</tr>
<tr>
<td>Delicate artery forceps by Halstead-Mosquito, 1/2 prongs, curved</td>
<td>125 mm</td>
<td>82830.0712</td>
</tr>
</tbody>
</table>
Artery Forceps
by Ochsner-Kocher

Artery forceps by Ochsner-Kocher, straight, 1/2 teeth

<table>
<thead>
<tr>
<th>Length</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>140 mm</td>
<td>82830.0814</td>
</tr>
<tr>
<td>160 mm</td>
<td>82830.0816</td>
</tr>
<tr>
<td>180 mm</td>
<td>82830.0818</td>
</tr>
<tr>
<td>200 mm</td>
<td>82830.0820</td>
</tr>
</tbody>
</table>

Artery forceps by Ochsner-Kocher, curved, 1/2 teeth

<table>
<thead>
<tr>
<th>Length</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>140 mm</td>
<td>82830.0914</td>
</tr>
<tr>
<td>160 mm</td>
<td>82830.0916</td>
</tr>
<tr>
<td>180 mm</td>
<td>82830.0918</td>
</tr>
<tr>
<td>200 mm</td>
<td>82830.0920</td>
</tr>
</tbody>
</table>
## Artery Forceps

**by Pean**

### Artery forceps by Pean, straight

<table>
<thead>
<tr>
<th>Length</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>140 mm</td>
<td>82830.1214</td>
</tr>
<tr>
<td>160 mm</td>
<td>82830.1216</td>
</tr>
<tr>
<td>180 mm</td>
<td>82830.1218</td>
</tr>
<tr>
<td>200 mm</td>
<td>82830.1220</td>
</tr>
</tbody>
</table>

### Artery forceps by Pean, curved

<table>
<thead>
<tr>
<th>Length</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>140 mm</td>
<td>82830.1314</td>
</tr>
<tr>
<td>160 mm</td>
<td>82830.1316</td>
</tr>
<tr>
<td>180 mm</td>
<td>82830.1318</td>
</tr>
<tr>
<td>200 mm</td>
<td>82830.1320</td>
</tr>
</tbody>
</table>
## Dressing Forceps

<table>
<thead>
<tr>
<th>Type</th>
<th>Length</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dressing forceps by Adson, very delicate, serrated</td>
<td>120 mm</td>
<td>82830.1412</td>
</tr>
<tr>
<td>Dressing forceps by Adson, delicate, serrated</td>
<td>120 mm</td>
<td>82830.1512</td>
</tr>
<tr>
<td>Tissue forceps by Adson, very delicate, 1/2 teeth</td>
<td>120 mm</td>
<td>82830.1612</td>
</tr>
<tr>
<td>Tissue forceps by Adson, delicate, 1/2 teeth</td>
<td>120 mm</td>
<td>82830.1812</td>
</tr>
<tr>
<td>Tissue forceps by Adson, with 2 sharp teeth-lines</td>
<td>125 mm</td>
<td>82830.2012</td>
</tr>
<tr>
<td>Dressing forceps by de Bakey, atraumatic, width 1.5 mm</td>
<td>155 mm</td>
<td>82830.2215</td>
</tr>
<tr>
<td>Tissue forceps, 7/8 fine teeth</td>
<td>110 mm</td>
<td>82830.4011</td>
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</table>
## Dressing Forceps

### Dressing Forceps, delicate, straight

<table>
<thead>
<tr>
<th>Type</th>
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</thead>
<tbody>
<tr>
<td>82830.2410</td>
<td>130 mm</td>
</tr>
</tbody>
</table>

### Dressing Forceps, serrated, small

<table>
<thead>
<tr>
<th>Type</th>
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</thead>
<tbody>
<tr>
<td>82830.2613</td>
<td>130 mm</td>
</tr>
<tr>
<td>82830.2614</td>
<td>145 mm</td>
</tr>
<tr>
<td>82830.2616</td>
<td>160 mm</td>
</tr>
</tbody>
</table>

### Dressing Forceps, serrated, medium

<table>
<thead>
<tr>
<th>Type</th>
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</thead>
<tbody>
<tr>
<td>82830.2813</td>
<td>130 mm</td>
</tr>
<tr>
<td>82830.2814</td>
<td>145 mm</td>
</tr>
<tr>
<td>82830.2816</td>
<td>160 mm</td>
</tr>
</tbody>
</table>
### Dressing Forceps

<table>
<thead>
<tr>
<th>Length</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>130 mm</td>
<td>82830.3013</td>
</tr>
<tr>
<td>145 mm</td>
<td>82830.3014</td>
</tr>
<tr>
<td>160 mm</td>
<td>82830.3016</td>
</tr>
<tr>
<td>200 mm</td>
<td>82830.3020</td>
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*Dressing forceps, serrated, standard*
## Dressing Forceps

<table>
<thead>
<tr>
<th>Type</th>
<th>Length</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tissue forceps, 1/2 fine teeth, very delicate, straight</td>
<td>130 mm</td>
<td>82830.3210</td>
</tr>
<tr>
<td>Tissue forceps, 1/2 fine teeth, very delicate, curved</td>
<td>130 mm</td>
<td>82830.3310</td>
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</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Length</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tissue forceps, 1/2 teeth, small</td>
<td>130 mm</td>
<td>82830.3413</td>
</tr>
<tr>
<td></td>
<td>145 mm</td>
<td>82830.3414</td>
</tr>
<tr>
<td></td>
<td>160 mm</td>
<td>82830.3416</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Length</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tissue forceps, 1/2 teeth, medium</td>
<td>130 mm</td>
<td>82830.3613</td>
</tr>
<tr>
<td></td>
<td>145 mm</td>
<td>82830.3614</td>
</tr>
<tr>
<td></td>
<td>160 mm</td>
<td>82830.3616</td>
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</tbody>
</table>
## Dressing Forceps

<table>
<thead>
<tr>
<th>Type</th>
<th>Length</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tissue forceps, 1/2 teeth, standard</td>
<td>130 mm</td>
<td>82830.3813</td>
</tr>
<tr>
<td>Dressing forceps, serrated, standard</td>
<td>145 mm</td>
<td>82830.3814</td>
</tr>
<tr>
<td>Tissue forceps, 1/2 teeth, standard</td>
<td>160 mm</td>
<td>82830.3816</td>
</tr>
</tbody>
</table>
## Needle Holder

### Needle holder by Mathieu, delicate, tungsten carbide

<table>
<thead>
<tr>
<th>Length</th>
<th>Type</th>
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</thead>
<tbody>
<tr>
<td>195 mm</td>
<td>82830.4419</td>
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</table>

### Needle holder, tungsten carbide

<table>
<thead>
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<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>130 mm</td>
<td>82830.4613</td>
</tr>
<tr>
<td>150 mm</td>
<td>82830.4615</td>
</tr>
</tbody>
</table>
### Scissors

![Image of scissors](image.png)

<table>
<thead>
<tr>
<th>Length</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>130 mm</td>
<td>82840.0013</td>
</tr>
<tr>
<td>150 mm</td>
<td>82840.0015</td>
</tr>
<tr>
<td>180 mm</td>
<td>82840.0018</td>
</tr>
</tbody>
</table>

**Scissors** by Reynolds, delicate, curved, blunt/blunt

![Image of scissors](image.png)

<table>
<thead>
<tr>
<th>Length</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>145 mm</td>
<td>82840.0214</td>
</tr>
</tbody>
</table>

**Scissors**, curved, sharp/blunt

**Scissors**, curved, sharp/sharp

![Image of scissors](image.png)

<table>
<thead>
<tr>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>82840.0414</td>
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</tbody>
</table>

---

**General Instrumentation**

*ENT*

**Trachea, Lung, Bronchoscopy**

**Esophagus**

**Oral-Maxillofacial, Plastic Surgery**

245
## Syringe

<table>
<thead>
<tr>
<th>Type</th>
<th>Type</th>
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</thead>
<tbody>
<tr>
<td>Syringe, spare barrel changeable, Luer-Lock</td>
<td>5 ml</td>
</tr>
<tr>
<td>Spare barrel</td>
<td>5 ml</td>
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</tbody>
</table>
## Metal Dishes

<table>
<thead>
<tr>
<th>Metal dish</th>
<th>Ø</th>
<th>Height</th>
<th>Type</th>
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<tbody>
<tr>
<td>25 ml</td>
<td>50 mm</td>
<td>22 mm</td>
<td>82800.0002</td>
</tr>
<tr>
<td>50 ml</td>
<td>65 mm</td>
<td>26 mm</td>
<td>82800.0005</td>
</tr>
<tr>
<td>100 ml</td>
<td>95 mm</td>
<td>40 mm</td>
<td>82800.0010</td>
</tr>
<tr>
<td>200 ml</td>
<td>100 mm</td>
<td>55 mm</td>
<td>82800.0020</td>
</tr>
<tr>
<td>400 ml</td>
<td>145 mm</td>
<td>80 mm</td>
<td>82800.0040</td>
</tr>
</tbody>
</table>
Head Lamps

High performance head lamp ............................................. 4526.00
also:
Fiber light cable,
2300 mm long, fiber bundle
diameter 4.5 mm* ........................................................ 8061.853

- light
- comfortable
- high light intensity
- variable beam width (60-120 mm at a distance of 300 mm)
- easily adjustable headband with cross band

* Instead of this cable, normal 8061.45 cables can be used by changing the instrument connection. A suitable connector is supplied with the head lamp.
<table>
<thead>
<tr>
<th>Description</th>
<th>Product #</th>
<th>Page #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adapters, sealing plugs, 100 pcs, for irrigation / aspiration</td>
<td>294.61</td>
<td>179, 200</td>
</tr>
<tr>
<td>Adapters, sealing plugs, 100 pcs, for irrigation / aspiration</td>
<td>294.61</td>
<td>179, 200</td>
</tr>
<tr>
<td>Adaptor, for suction cannulas, by Fisch, Luer cone, 55 mm</td>
<td>82170.0400</td>
<td>29</td>
</tr>
<tr>
<td>Adaptor, for suction cannulas, Luer cone, 100 mm</td>
<td>82170.0200</td>
<td>29</td>
</tr>
<tr>
<td>Aspiration tube, with suction control, 2.0 mm ø</td>
<td>8291.22</td>
<td>151</td>
</tr>
<tr>
<td>Aspiration tube, with suction control, 2.5 mm ø</td>
<td>8291.23</td>
<td>151</td>
</tr>
<tr>
<td>Aspiration tube, with suction control, 3.0 mm ø</td>
<td>8291.24</td>
<td>151</td>
</tr>
<tr>
<td>Aspirator, HF coagulating, 2.8 mm ø</td>
<td>8291.101</td>
<td>150</td>
</tr>
<tr>
<td>Aspirator, HF coagulating, 4.0 mm ø</td>
<td>8291.102</td>
<td>150</td>
</tr>
<tr>
<td>Atomizer, larynx and epipharynx</td>
<td>8292.11</td>
<td>180, 201</td>
</tr>
<tr>
<td>Basic Set for ETP by Lichter</td>
<td>118</td>
<td></td>
</tr>
<tr>
<td>Bipolar connector for 8801.551, 8801.451</td>
<td>8801.554</td>
<td>216</td>
</tr>
<tr>
<td>Bite rings, for 7265.001, pkg. of 3</td>
<td>8199.00</td>
<td>160</td>
</tr>
<tr>
<td>Bone punch, by Citelli, size 1</td>
<td>82140.0001</td>
<td>18</td>
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<tr>
<td>Bone punch, by Citelli, size 2</td>
<td>82140.0002</td>
<td>18</td>
</tr>
<tr>
<td>Bone punch, by Citelli, size 3</td>
<td>82140.0003</td>
<td>18</td>
</tr>
<tr>
<td>Bougie, frontal sinus, by Ritter, 2.5 mm ø</td>
<td>82250.3025</td>
<td>80</td>
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<tr>
<td>Bougie, frontal sinus, by Ritter, 3.0 mm ø</td>
<td>82250.3030</td>
<td>80</td>
</tr>
<tr>
<td>Bougie, frontal sinus, by Ritter, 4.0 mm ø</td>
<td>82250.3040</td>
<td>80</td>
</tr>
<tr>
<td>Bougie, frontal sinus, by Ritter, 5.0 mm ø</td>
<td>82250.3050</td>
<td>80</td>
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<tr>
<td>Bronchial atomizer, adult</td>
<td>8292.01</td>
<td>180, 201</td>
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<tr>
<td>Bronchoscope tube, by Hemer, 10.5 mm inner ø</td>
<td>8214.104</td>
<td>168</td>
</tr>
<tr>
<td>Bronchoscope tube, by Hemer, 12.5 mm inner ø</td>
<td>8214.124</td>
<td>168</td>
</tr>
<tr>
<td>Bronchoscope tube, by Hemer, 6.5 mm inner ø</td>
<td>8214.064</td>
<td>168</td>
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<tr>
<td>Bronchoscope tube, by Hemer, 7.5 mm inner ø</td>
<td>8214.074</td>
<td>168</td>
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<tr>
<td>Bronchoscope tube, by Hemer, 8.5 mm inner ø</td>
<td>8214.084</td>
<td>168</td>
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<tr>
<td>Bronchoscope tube, by Hemer, 9.5 mm inner ø</td>
<td>8214.094</td>
<td>168</td>
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<tr>
<td>Bronchoscope tube, by Wolf, 10.5 mm inner ø</td>
<td>8214.102</td>
<td>169</td>
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<tr>
<td>Bronchoscope tube, by Wolf, 7.5 mm inner ø</td>
<td>8214.072</td>
<td>169</td>
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<tr>
<td>Bronchoscope tube, by Wolf, 8.5 mm inner ø</td>
<td>8214.082</td>
<td>169</td>
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<tr>
<td>Bronchoscope tube, by Wolf, 9.5 mm inner ø</td>
<td>8214.092</td>
<td>169</td>
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<tr>
<td>Bronchoscope tube, for children, 3.2 mm inner ø</td>
<td>8217.305</td>
<td>170</td>
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<td>Bronchoscope tube, for children, 3.7 mm inner ø</td>
<td>8217.355</td>
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<tr>
<td>Bronchoscope tube, for children, 5.2 mm inner ø</td>
<td>8217.505</td>
<td>170</td>
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<tr>
<td>Bronchoscope tube, for children, 5.7 mm inner ø</td>
<td>8217.555</td>
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<tr>
<td>Bronchoscope tube, for children, 6.4 mm inner ø</td>
<td>8217.655</td>
<td>170</td>
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<tr>
<td>Bronchoscope, TEXAS RIB, 10 mm inner ø</td>
<td>82520.1041</td>
<td>159</td>
</tr>
<tr>
<td>Bronchoscope, TEXAS RIB, 12 mm inner ø</td>
<td>82520.1241</td>
<td>159</td>
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<tr>
<td>Bronchoscope, TEXAS RIB, 14 mm inner ø</td>
<td>82520.1441</td>
<td>159</td>
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<tr>
<td>Bronchoscope, TEXAS RIB, 6 mm inner ø</td>
<td>82520.0641</td>
<td>159</td>
</tr>
<tr>
<td>Bronchoscope, TEXAS RIB, 8 mm inner ø</td>
<td>82520.0841</td>
<td>159</td>
</tr>
<tr>
<td>Bronchoscope, TEXAS RIB, 8 mm inner ø (without distal window)</td>
<td>82520.0842</td>
<td>159</td>
</tr>
<tr>
<td>Bulb, double hand, with Luer connector, for irrigation / aspiration</td>
<td>127.00</td>
<td>179, 200</td>
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<tr>
<td>Cannula, antrum suction Ergoline, short curved, with holes, 2.5 mm ø</td>
<td>8150.161</td>
<td>90</td>
</tr>
<tr>
<td>Cannula, antrum suction Ergoline, short curved, with holes, 3.1 mm ø</td>
<td>8150.171</td>
<td>90</td>
</tr>
<tr>
<td>Description</td>
<td>Product #</td>
<td>Page #</td>
</tr>
<tr>
<td>--------------------------------------------------</td>
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<tr>
<td>Cap, with endoscope sealing cap</td>
<td>8021.18</td>
<td>196</td>
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<tr>
<td>Cap, with window</td>
<td>8205.12</td>
<td>171, 173</td>
</tr>
<tr>
<td>Cap, with window, for Wolf esophagoscopes</td>
<td>8838.60</td>
<td>194</td>
</tr>
<tr>
<td>Chest support</td>
<td>8449.911</td>
<td>131</td>
</tr>
<tr>
<td>Chest support, by Negus, adult</td>
<td>82320.0402</td>
<td>102</td>
</tr>
<tr>
<td>Chest support, by Negus, children</td>
<td>82320.0401</td>
<td>102</td>
</tr>
<tr>
<td>Chisel, by Cottle, graduated, straight, 12 mm</td>
<td>82260.0012</td>
<td>81</td>
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<tr>
<td>Chisel, by Cottle, graduated, straight, 4 mm</td>
<td>82260.0004</td>
<td>81</td>
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<tr>
<td>Chisel, by Cottle, graduated, straight, 7 mm</td>
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<tr>
<td>Chisel, by Cottle, graduated, 9 mm</td>
<td>82260.0009</td>
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<tr>
<td>Chisel, by Masing, curved downwards, left</td>
<td>82260.0602</td>
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<tr>
<td>Chisel, by Masing, curved downwards, straight</td>
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<tr>
<td>Chisel, hemostatic, size 2.5 x 2.5 mm, 120 mm</td>
<td>82160.2225</td>
<td>28</td>
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<tr>
<td>Chisel, hemostatic, size 3.5 x 3.5 mm, 130 mm</td>
<td>82160.2235</td>
<td>28</td>
</tr>
<tr>
<td>Clamp, Columea, by Cottle</td>
<td>82230.3011</td>
<td>48</td>
</tr>
<tr>
<td>Coagulation instrument, 3 mm ø</td>
<td>8801.551</td>
<td>216</td>
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<tr>
<td>Coagulation instrument, 3 mm α</td>
<td>8801.451</td>
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</tr>
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<td>Coagulation suction tube, bipolar, 3.0 mm α</td>
<td>8289.24</td>
<td>150</td>
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<td>Coagulation suction tube, bipolar</td>
<td>8289.24</td>
<td>217, 227</td>
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<td>Coagulation-suction tube, HF</td>
<td>8231.102</td>
<td>217, 227</td>
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<tr>
<td>Conchothermy, by Hartmann, round, 11 mm α</td>
<td>82240.0411</td>
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<td>Conchothermy, by Hartmann, round, 5 mm α</td>
<td>82240.0405</td>
<td>65</td>
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<tr>
<td>Conchothermy, by Hartmann, round, 7 mm α</td>
<td>82240.0407</td>
<td>65</td>
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<tr>
<td>Conchothermy, by Hartmann, round, 9 mm α</td>
<td>82240.0409</td>
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<td>Connector, light cord ACM</td>
<td>8087.00</td>
<td>171, 173</td>
</tr>
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<td>Connector, light cord Storz</td>
<td>8088.00</td>
<td>171, 173</td>
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<tr>
<td>Cotton applicator, by Farrell, serrated end, 0.9 mm ø, 120 mm</td>
<td>82150.0012</td>
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<tr>
<td>Cotton applicator, by Farrell, serrated end, 0.9 mm ø, 140 mm</td>
<td>82150.0014</td>
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<td>Cotton applicator, by Farrell, serrated end, 1.1 mm ø, 160 mm</td>
<td>82150.0016</td>
<td>20</td>
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<td>Cotton applicator, by Killian</td>
<td>82450.0224</td>
<td>146</td>
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<td>Cotton applicator, 500 mm</td>
<td>8296.51</td>
<td>180, 201</td>
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<tr>
<td>Curette, adenoid, by Beckmann, straight, size 1</td>
<td>82360.0001</td>
<td>109</td>
</tr>
<tr>
<td>Curette, adenoid, by Beckmann, straight, size 2</td>
<td>82360.0002</td>
<td>109</td>
</tr>
<tr>
<td>Curette, adenoid, by Beckmann, straight, size 3</td>
<td>82360.0003</td>
<td>109</td>
</tr>
<tr>
<td>Curette, adenoid, by Beckmann, straight, size 4</td>
<td>82360.0004</td>
<td>109</td>
</tr>
<tr>
<td>Curette, adenoid, by Beckmann, straight, size 5</td>
<td>82360.0005</td>
<td>109</td>
</tr>
<tr>
<td>Curette, adenoid, by Beckmann, straight, size 6</td>
<td>82360.0006</td>
<td>109</td>
</tr>
<tr>
<td>Curette, antrum</td>
<td>8211.94</td>
<td>88</td>
</tr>
<tr>
<td>Curette, antrum, by Faulkner, double-ended, 7 / 10 mm ø</td>
<td>82260.2800</td>
<td>88</td>
</tr>
<tr>
<td>Curette, ear, by Buck, blunt, curved, size 0</td>
<td>82160.0010</td>
<td>26</td>
</tr>
<tr>
<td>Curette, ear, by Buck, blunt, curved, size 0</td>
<td>82160.0020</td>
<td>26</td>
</tr>
<tr>
<td>Curette, ear, by Buck, blunt, curved, 1</td>
<td>82160.0001</td>
<td>26</td>
</tr>
<tr>
<td>Curette, ear, by Buck, blunt, curved, 2</td>
<td>82160.0002</td>
<td>26</td>
</tr>
<tr>
<td>Curette, ear, by Buck, blunt, curved, 3</td>
<td>82160.0003</td>
<td>26</td>
</tr>
<tr>
<td>Curette, ear, by Buck, sharp, curved, size 0</td>
<td>82160.0210</td>
<td>26</td>
</tr>
<tr>
<td>Curette, ear, by Buck, sharp, curved, size 0</td>
<td>82160.0220</td>
<td>26</td>
</tr>
<tr>
<td>Curette, ear, by Buck, sharp, curved, size 1</td>
<td>82160.0201</td>
<td>26</td>
</tr>
<tr>
<td>Curette, ear, by Buck, sharp, curved, size 2</td>
<td>82160.0202</td>
<td>26</td>
</tr>
<tr>
<td>Curette, ear, by Buck, sharp, curved, size 3</td>
<td>82160.0203</td>
<td>26</td>
</tr>
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