**bone holding - 46-47/1**

- **gS 46.2180 3 1/2”**
  Termite Forceps
  curved pointed tips

- **gS 46.2190 4 3/4”**
  Stagbeetle Forceps
  curved pointed tips

- For positioning mini plates.

  Max opening with ratchet engaged: 16mm.

- **gS 46.2390 5”**
  Plate and Bone Holding Forceps
  one pointed tip, one footplate

  Max opening with ratchet engaged: 16mm.

- **gS 46.2395 5 1/2”**
  Plate Holding Forceps
  curved

  Max opening with ratchet engaged: 13mm.
Bone Reduction Forceps

- **gS 46.4000 5”**
  - Curved, pointed tips
  - Max opening with ratchet engaged: 16mm.

- **gS 46.2330 5”**
  - Curved, pointed tips
  - 10mm serrations
  - Max opening with ratchet engaged: 16mm.

- **gS 46.2350 5”**
  - Curved, pointed tips
  - 15mm serrations
  - Max opening with ratchet engaged: 16mm.

- **gS 46.2370 5”**
  - Curved, one pointed tip
  - One step-pointed tip
  - Max opening with ratchet engaged: 13mm.

One tip has a stepped point for better hold on bone.
Bone Reduction Forceps
6"

Curved serrated jaws

Max opening with ratchet engaged: 15mm.

gS 46.2280

Bone Reduction Forceps
6"

Curved narrow serrated jaws

Max opening with ratchet engaged: 30mm.

gS 46.2282

For positioning k-wires.

0.9mm
1.2mm
1.6mm

Max opening with ratchet engaged: 12mm.

gS 46.4009 0.9mm [.035”]
gS 46.4012 1.2mm [.047”]
gS 46.4016 1.6mm [.062”]

Bone Reduction Forceps
5 1/2"
curved with guide
46-47/4 - bone holding

For positioning k-wires with diameter up to 1.6mm [.062”].
Max opening with ratchet engaged: 13mm.

**gS 46.4040**  5 1/4”
Bone Reduction Forceps
curved with 1.6mm [.062”] guide

For positioning k-wires with diameter up to 1.1mm [.045”].
Max opening with ratchet engaged: 18mm.

**gS 46.4060**  6 3/4”
Bone Reduction Forceps
curved with 1.1mm [.045”] guide

**gS 46.4116**  6 1/2”
Glenoid Perforating Forceps
strong angle

**gS 46.4117**  6 1/2”
Glenoid Perforating Forceps
slight angle
Bone holding - 46-47/5

2mm-10mm calibrations on ratchet help with determining bone diameter when using compression screws.

Max opening with ratchet engaged: 10mm.

**gS 46.2375 5”**

Phalangeal Percutaneous Bone Reduction Forceps

**gS 46.2320 7”**

Bone Reduction Forceps (Reill) curved jaw

Max opening with ratchet engaged: 15mm.

**gS 46.8870 6”**

Locke Phalangeal Forceps serrated jaws with 1x2 teeth

Useful for sesamoid removal.

**gS 46.2335 7”**

Bone Reduction Forceps (Reill) curved jaw

One step-pointed tip.

**gS 46.2335 7”**

Bone Reduction Forceps double ratchet opening: 4mm to 45mm
Bone Reduction Forceps

gS 46.2332  6”
gForceps, Bone Reduction
double ratchet
opening: 2mm to 35mm

Heavy tips are shorter for strength.

gS 46.2333  6”
gForceps, Bone Reduction
double ratchet, heavy tips
opening: 2mm to 35mm

Bone Reduction Forceps

gS 46.2340  8”
Bone Reduction Forceps
double ratchet
opening: 9mm to 100mm

Bone Reduction Forceps

gS 46.2348  12”
Bone Reduction Forceps
double ratchet
opening: 5mm to 45mm
**Lewin Bone Holding Forceps**

- **gS 46.2300**  7”
- Slightly curved overlapping serrated jaws

**Ikuta Bone Clamp**

- 5mm
- 8mm
- 10mm

Jaws with 8 pointed teeth help to provide stabilization and guidance for small bone fixation.

**Ikuta Bone Clamp**

- 5mm 8mm 10mm

Space between prongs allows for placement of k-wires or screws.

**Ikuta Bone Clamp**

- Straight
- Angled

**Forceps, Lewin Bone Holding**

- **gS 46.2305**  6 3/4”
- 30° angled handle overlapping serrated jaws

**Ikuta Bone Clamp**

- **gS 46.3005**  5 1/2” 5mm
- **gS 46.3008**  5 1/2” 8mm
- **gS 46.3010**  6 1/4” 10mm

**Ikuta Bone Clamp**

- **gS 46.3015**  5 1/2” 5mm
- **gS 46.3018**  5 1/2” 8mm
- **gS 46.3020**  6 1/4” 10mm
46-47/8 - bone holding

**Bone Reduction Forceps**
- **gS 46.2342**  8”
- With speedlock
- Max opening: 70mm

**Malleolar Forceps**
- **gS 46.8520**  8 1/2”
- With ratchet
- Max opening: 60mm

**Sesamoidectomy Clamp**
- **gS 46.8910**  7 1/2”
- Delicate serrated jaws for small bone fragments.
- Angular serrated jaws
- 2x2 sharp teeth

**Dingman Forceps**
- **gS 46.8872**  6 1/2”
- Curved jaw

**Sesamoidectomy Clamp**
- **gS 46.8872**  6 1/2”
- Curved jaw

1x1 sharp points
**Fibula Forceps**
- 8 1/2"
- Max opening with ratchet engaged: 28mm.

**Verbrugge Forceps**
- 6 1/2"
- Reversed jaw with long ratchet
- Max opening with ratchet engaged: 9mm.

**Verbrugge Forceps**
- 7"
- With short ratchet
**46-47/10 - bone holding**

Max opening with ratchet engaged
- gS 46.2220 10” 52mm
- gS 46.2240 10 1/2” 48mm
- gS 46.2260 11” 48mm

**Verbrugge Forceps**
with long ratchet
Verbrugge Forceps
self-centering with speedlock
46-47/12 - bone holding

**Patella Forceps**
speedlock, 2x2 sharp teeth
max opening: 48mm

- gS 46.2310  7”

**Bone Holding Forceps**
with speedlock
curved serrated jaws

- gS 46.2407  7” max: 28mm
- gS 46.2409  9” max: 45mm

**Plate Holding Forceps**
with swivel foot

- gS 46.2380  8”

For positioning 2.7mm and 3.5mm plates.
Helps in patellar realignment or treatments for patellar fractures and dislocations. The guide is useful for setting the amount of resection needed. The patella is cut by inserting the saw blade through the saw guides on either side of the jaw.

**gS 46.2312** 9 1/2”

**Patella Osteotomy Forceps**
for 1.10mm saw blades
with speedlock
Helps in patellar realignment or treatments for patellar fractures and dislocations. The guide is useful for setting the amount of resection needed. The patella is cut by inserting the saw blade through the saw guides on either side of the jaw.

**gS 46.2315 11”**

*Patella Osteotomy Forceps*
for 1.20mm saw blades
with speedlock
gs 46.2430  7 1/2”
Semb Bone Forceps
angled on side
deep teeth

gs 46.2432  7 1/2”
Semb Bone Forceps
angled on side
deep teeth, with ratchet

gs 46.2470  8 1/2”
Van Buren Bone Forceps
angled on side
serrated jaws
gS 46.2440  8”
Fergusson Bone Forceps
deep 2x2 teeth

Langenbeck Bone Forceps
partially serrated
2x2 teeth

Kern Bone Forceps
serrated jaws
2x2 teeth

gS 46.1620  5 1/2” with ratchet
gS 46.1630  6 1/2” with ratchet
gS 46.1640  9 1/2” with ratchet

gS 46.1645  5 1/2” without ratchet
gS 46.1650  6 1/2” without ratchet
gS 46.1655  9 1/2” without ratchet

shown with ratchet
Lane Bone Forceps
without ratchet
2x2 teeth, serrated jaws

<table>
<thead>
<tr>
<th>Model</th>
<th>Length</th>
<th>Max Opening</th>
</tr>
</thead>
<tbody>
<tr>
<td>gS 46.1850</td>
<td>13&quot; light</td>
<td>30mm</td>
</tr>
<tr>
<td>gS 46.1855</td>
<td>13&quot; standard</td>
<td>34mm</td>
</tr>
<tr>
<td>gS 46.1860</td>
<td>18&quot; heavy</td>
<td>48mm</td>
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</tbody>
</table>

Lane Bone Forceps
with ratchet
2x2 teeth, serrated jaws

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<tr>
<td>gS 46.1832</td>
<td>18&quot; heavy</td>
<td>48mm</td>
</tr>
</tbody>
</table>
46-47/18 - bone holding

Max cap opening

Lowman Bone Clamp
1x1 jaws

- gS 46.2650 5” 1”
- gS 46.2655 7” 2”
- gS 46.2660 8 1/2” 2 1/2”

Lowman Bone Clamp
1x2 jaws

- gS 46.2520 5” 1”
- gS 46.2540 7 1/4” 2”
- gS 46.2560 8” 2 1/2”
Lambert-Lowman Bone Clamp
2x2 jaws

Max cap opening

<table>
<thead>
<tr>
<th>Code</th>
<th>Size</th>
<th>Opening</th>
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</thead>
<tbody>
<tr>
<td>gS 46.4680</td>
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<tr>
<td>gS 46.4685</td>
<td>8&quot;</td>
<td>2 1/2&quot;</td>
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</table>

Ulrich Bone Holding Forceps
straight
with speedlock

<table>
<thead>
<tr>
<th>Code</th>
<th>Size</th>
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</thead>
<tbody>
<tr>
<td>gS 46.2116</td>
<td>7 1/4&quot;</td>
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<tr>
<td>gS 46.2118</td>
<td>9&quot;</td>
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<tr>
<td>gS 46.2120</td>
<td>9 1/2&quot;</td>
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<tr>
<td>gS 46.2122</td>
<td>11&quot;</td>
</tr>
</tbody>
</table>
46-47/20 - bone holding

**Farabeuf Lambotte Forceps**
- Adjustable jaw with ratchet

- **gS 47.0919**: 7 1/2"
- **gS 47.1020**: 10"

**Lambotte Bone Forceps**
- Adjustable jaw with swivel head with ratchet

- **gS 47.1130**: 8 1/2"
- **gS 47.1140**: 10 1/2"
- **gS 47.1150**: 11 1/2"
Pointed-ball tips help to prevent penetration of bone.

Speedlock allows for quick tightening and release of clamp on bone and helps to provide a secure hold.

Curved pattern helps with positioning on bone.

<table>
<thead>
<tr>
<th>OD</th>
<th>Ball Tips</th>
</tr>
</thead>
<tbody>
<tr>
<td>gS 47.6020</td>
<td>5 1/2&quot; 2mm</td>
</tr>
<tr>
<td>gS 47.6030</td>
<td>6 1/2&quot; 3mm</td>
</tr>
<tr>
<td>gS 47.6040</td>
<td>8&quot; 4mm</td>
</tr>
</tbody>
</table>

**gClamp, Bone Fragment**
ball tips, curved
speedlock
Pelvic Reduction Forceps
angled short pointed ball tips
with speedlock

Pelvic Reduction Forceps
angled long pointed ball tips
with speedlock

Pelvic Reduction Forceps
straight long pointed ball tips
with speedlock
Periarticular Reduction Forceps
15° straight, pointed ball tips
with speedlock

gS 47.6300  medium  14mm-128mm opening

Periarticular Reduction Forceps
15° straight, pointed ball tips
with speedlock

gS 47.6301  large  39mm-181mm opening
Pelvic Reduction Forceps
straight long pointed ball tips
with speedlock
gS 47.6208  16"

Pelvic Reduction Forceps
long 1x2 pointed ball tips
with speedlock
Pelvic Reduction Forceps
adjustable jaw for screws
with speedlock
gS 47.1064  12 1/2"

Bishop Bone Forceps
adjustable jaw
with ratchet
gS 47.6204  16"

Pelvic Reduction Forceps
asymmetric pointed ball tips
with speedlock