ORTHOPAEDIC INSTRUMENTS

JJ International Instruments
Designers & Manufacturers of Surgical Instruments
JJ International Instruments is engaged in Designing, Manufacturing and Distribution of 100% pure quality Stainless Steel surgical instruments for all department of surgery in the Sultanate of Oman.

JJ International Instruments is a rare union of highly skilled surgical craftsmen, guaranteed raw material and modern technology that results in high quality surgical instruments.

We take great pride in the extensive range of over 15,000 quality instruments that we offer in a multitude of disciplines.

Our dedicated R&D department has acclaimed many golden feathers in their hat by modifying, designing and manufacturing complex instruments according to surgeon’s requirements.

Even more importantly, we have a very significant policy of effective ‘service after sales’ to the satisfaction of our entire clients.
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### ELEVATORS

#### Adson Periosteal Elevator
- 16cm/6¼" length
- Curved blunt

<table>
<thead>
<tr>
<th>Width</th>
<th>Code</th>
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<tr>
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<tr>
<td>7mm</td>
<td>OR3007-16</td>
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#### Pennybacker Periosteal Elevator
- 16cm/6¼" length
- Curved sharp

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<tr>
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<tr>
<td>8mm</td>
<td>OR3068-16</td>
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#### Bone Raspatory with Tufnol Handle
- 19cm/7½" length

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<tr>
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<td>OR7016-19</td>
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#### Farabeuf Rugine Elevator
- 15cm/6" length

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<tbody>
<tr>
<td>12mm</td>
<td>OR3002-15</td>
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*illustrated

#### Farabeuf Rugine Elevator with Hollow Handle
- 16cm/6¼" length

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<td>12mm</td>
<td>OR3011-16</td>
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<table>
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<tbody>
<tr>
<td>12mm</td>
<td>OR3012-16</td>
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*illustrated
ELEVATORS

Trethowan Bone Elevator
- 22.5cm/8½” length
- OR3030-22

Lanes Bone Elevator
- 26cm/10” length
- OR3031-26

Fagge Bone Elevator
- 27.5cm/10¾” length
- OR3032-27

Bristow Periosteal Elevator
- 23cm/9” length
- Curved sharp
- 10mm width
- OR3003-23

Femoral Dislocation Lever
- 31cm/12½” length
- 26mm width
- OR3026-31

Muller Femoral Retractor
- 35cm/13½” length
- 28mm width
- OR3028-35

For retraction of the femoral neck.
MINI ELEVATORS

Mini Bone Lever
- 14cm/5½”
- 2.8mm width
OR5830-14

Hohmann Style Mini-Bone Lever
- 16cm/6¼”
- 6mm width
OR5831-16

Phalangeal Lever
- 15cm/6”
- 5mm width
OR5832-16

Buck-Gramcko Lever
- 15cm/6”
- 7.5mm width
OR5833-15

Mini-Cobra Bone Lever
- 16cm/6¼”
- 15mm width
OR5834-16

McGlamry Metatarsal Elevator
- 17cm/6½”
- Sharp

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<td>9mm</td>
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<tr>
<td>19mm</td>
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ELEVATORS

Hohmann Bone Elevator
- 22cm/8½" length
- 8mm width
OR3008-22

Hohmann Bone Elevator
- 24cm/9½" length
- 18mm width
OR3018-24

Hohmann Bone Elevator
- 24.5cm/9½" length
- 43mm width
OR3043-24

Hohmann Large Bone Elevator
- 24cm/9½" length
- 70mm width
OR3070-24

Hohmann Bone Elevator
- 28cm/11" length
- 33mm width
OR3033-28

Hohmann Bone Elevator
- 26cm/10" length
- 24mm width
OR3024-26
ELEVATORS

Long Curved Hohmann Inferior Hip Elevator
- 40cm/16" length
- 22mm width

Modified Hohmann Elevator
- 90° angled

<table>
<thead>
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<td>OR7750-25</td>
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<td>OR7750-43</td>
<td>43mm</td>
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<tr>
<td>OR7750-70</td>
<td>70mm</td>
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Modified Cobra Aufrang Elevator
- 33cm/13" long blade
- 30mm x 100mm

Shallow Bone Elevator
- 25cm/9¼" length

Concave Moor Elevator
- 33cm/13" long blade
ELEVATORS

Murphy Bone Skid Elevator
- 28cm/11” length
- For dislocation of the femoral head
- Double ended
OR0589-23

Infero-Posterior Acetabular Capsule Retractor
- 35cm/14” length
Right
OR7772-10
Left
OR7772-20

PCL Retractor
- 25cm/10” length
- To straddle the cruciate ligament
- 4mm wide prongs
- 21mm wide tips
OR7761-10

Wide Prong PCL Retractor
- 25cm/10” length
- To straddle the cruciate ligament
- 5mm wide prongs
- 23mm wide tips
OR7762-10
### Bone Hooks

**Bone Hook Sharp**
- 24.5 cm / 9 ¾” length
- Sharp

![Bone Hook Sharp](image)

OR9050-24

**Blunt Hook**
- 20 cm / 8” length

![Blunt Hook](image)

OR9051-20

**Wroblenski Dislocating Hook**
- 25 cm / 10” length
- For hooking around the neck of the Femur

![Wroblenski Dislocating Hook](image)

OR9055-25

**McMinn Dislocating Hook**
- 25 cm / 10” length
- Blunt hook with Tufnol handle

![McMinn Dislocating Hook](image)

OR9057-25
BONE SPREADERS

Scaphoid Spreader - Fine Pattern
- 14cm/5½” length
- 1 x 2 prongs

6mm

OR5131-14

Scaphoid Spreader - Standard Pattern
- 14cm/5½” length

6mm

OR5134-14

Baby Inge Bone Spreader
- 18cm/7” length

7mm Toothed

OR5134-18

7mm Smooth

OR5134-18S

7mm Cross Serrated

OR5134-18X

Scaglietti Lamina Spreader
- 28cm/11” length
- With speed lock

OR2009-28
Ruskin-Liston Bone Cutters
- 19cm/7½" length
- Double action
- Angled jaws

McIndoe Bone Cutters
- 18cm/7" length
- Double action
- Angled jaws

Bohler Bone Cutters
- 15cm/6" length
- Double action

Stille-Liston Bone Cutters
- 27cm/10¾" length
- Double action

Liston-Key-Horsley Bone Cutters
- 27cm/10¾" length
- Double action
- Angled
BONE NIBBLERS

Kleinert-Kutz Bone Nibbler
- 14cm/4½" length
- Curved
- 2mm Bite
  OR518-50

Lempert Bone Nibbler
- 19cm/7½" length
- Single action
- 3mm Bite
  OR1001-19

Luer Bone Nibbler
- 18cm/7" length
- Single action
- Straight
  8mm Bite
  OR1004-18
- Curved
  8mm Bite
  OR1005-18

Adsons Bone Nibbler
- 20cm/8" length
- Single action
- 7mm Bite
  OR1040-20
BONE NIBBLERS

Bohler Bone Nibbler
- Curved double action
- 15cm/6"

Marquardt Bone Nibbler
- 20cm/8" length
- Curved double action

Beyer Bone Nibbler
- Curved double action
- 18cm/7"

Jansen Bone Nibbler
- Curved double action
- 18cm/7"

- 3mm Bite
  OR5120-50

- 3mm Bite
  OR1002-20

- 4mm Bite
  OR1002-18

- 5mm Bite
  OR1003-18
## Bone Nibblers

### Smith-Peterson Bone Nibbler
- 24cm/9½” length
- Double action

<table>
<thead>
<tr>
<th>Style</th>
<th>Bite Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Straight OR1010-24</td>
<td>3mm</td>
</tr>
<tr>
<td>OR 1011-24</td>
<td>4mm</td>
</tr>
<tr>
<td>OR1012-24</td>
<td>5mm</td>
</tr>
<tr>
<td>OR1013-24</td>
<td>6mm</td>
</tr>
<tr>
<td>OR1014-24</td>
<td>7mm</td>
</tr>
<tr>
<td>OR1015-24</td>
<td>8mm</td>
</tr>
<tr>
<td>OR1016-24</td>
<td>9mm</td>
</tr>
<tr>
<td>OR1017-24</td>
<td>10mm</td>
</tr>
</tbody>
</table>

### Leksell Bone Nibbler
- 24cm/9½” length
- Double action angled

<table>
<thead>
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<th>Bite Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Angled Jaw OR1018-24</td>
<td>3mm</td>
</tr>
<tr>
<td>OR1019-24</td>
<td>5mm</td>
</tr>
<tr>
<td>OR1020-24</td>
<td>8mm</td>
</tr>
</tbody>
</table>

### Stille-Luer Bone Nibbler
- 22cm/8¾” length
- Double action

<table>
<thead>
<tr>
<th>Style</th>
<th>Bite Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Straight 10mm Bite OR1006-22</td>
<td>3mm</td>
</tr>
<tr>
<td>Curved 10mm Bite OR1007-22</td>
<td>5mm</td>
</tr>
</tbody>
</table>

### ‘Mr Blobby’ Stille-Luer Bone Nibbler
- 26cm/10¼” length
- Double action

<table>
<thead>
<tr>
<th>Style</th>
<th>Bite Size</th>
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</thead>
<tbody>
<tr>
<td>Straight 17mm Bite OR1008-26</td>
<td>3mm</td>
</tr>
<tr>
<td>Curved 17mm Bite OR1009-26</td>
<td>5mm</td>
</tr>
</tbody>
</table>
BONE HOLDING FORCEPS

Langenbeck Bone Holding Forceps
- 20cm/8” length
- 5mm
- OR5120-05

Frosch Bone Holding Forceps
- 18cm/7” length
- Toothed/serrated jaws
- OR6141-18

St. Thomas Bone Holding Forceps
- 18cm/7” length
- Screw joint
- OR6170-18

Fergusson Bone Holding Forceps
- 20cm/8” length
- Screw joint
- OR6140-20

Langenbeck Bone Holding Forceps
- 21cm/8¼” length
- OR6144-21
**BONE HOLDING FORCEPS**

**Semb Bone Holding Forceps**
- 19cm/7½" length
- Angled to side

**Hey Groves Bone Holding Forceps**
- Screw joints
- Serrated jaws

<table>
<thead>
<tr>
<th>Length</th>
<th>OR6145-20</th>
<th>20cm/8&quot;</th>
<th>Small</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>OR6145-25</td>
<td>25.5cm/10&quot;</td>
<td>Medium</td>
</tr>
<tr>
<td></td>
<td>OR6145-30</td>
<td>30.5cm/12&quot;</td>
<td>Large</td>
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</tbody>
</table>

**Verbrugge Bone Holding Forceps**

<table>
<thead>
<tr>
<th>Length</th>
<th>OR6150-25</th>
<th>25cm/10&quot;</th>
<th>Small</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>OR6150-26</td>
<td>26cm/10½&quot;</td>
<td>Medium</td>
</tr>
<tr>
<td></td>
<td>OR6150-27</td>
<td>27cm/11&quot;</td>
<td>Large</td>
</tr>
</tbody>
</table>
PELVIC REDUCTION INSTRUMENTS

Pelvic Reduction Forceps
- 19cm/7 1/2” length
- Angled, small
- Pointed ball tips
- Speed lock

OR6151-19

Pelvic Reduction Forceps
- 23cm/9” length
- Angled, large
- Pointed ball tips
- Speed lock

OR6152-23

Pelvic Reduction Forceps
- 25cm/10” length
- Straight, large
- Pointed ball tips
- Speed lock

OR6153-25
Pelvic Reduction Forceps
- 40cm/16" length
- Pointed ball tips
- Speed lock

OR6154-40

Pelvic Reduction Forceps
- 40cm/16" length
- 3 pointed ball tips
- Speed lock

OR6155-40
RETRACTORS

Meyerding Retractor
- 22cm/9” length

<table>
<thead>
<tr>
<th>Blade size</th>
<th>OR5050-22</th>
<th>OR5075-22</th>
<th>OR5090-22</th>
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<tbody>
<tr>
<td>50mm x 16mm</td>
<td></td>
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</tr>
<tr>
<td>70mm x 25mm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>90mm x 50mm</td>
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</table>

Langenbeck Retractor
- 21.5cm/8½” length

<table>
<thead>
<tr>
<th>Blade size</th>
<th>OR5122-21</th>
<th>OR5145-21</th>
<th>OR5165-21</th>
<th>OR5190-21</th>
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</thead>
<tbody>
<tr>
<td>22mm x 6mm</td>
<td></td>
<td>45mm x 13mm</td>
<td>65mm x 25mm</td>
<td>90mm x 20mm</td>
</tr>
<tr>
<td>22mm x 6mm Small</td>
<td></td>
<td>Medium</td>
<td>Large</td>
<td>Extra large</td>
</tr>
</tbody>
</table>

Volkmann Catspaw Retractor
- 21.5cm/8½” length
- Semi sharp teeth

15 x 15mm
3 Prong
OR5015-21

15 x 20mm
4 Prong
OR5020-21

15 x 30mm
6 Prong
OR5030-21
HIP RETRACTORS

Charnley Initial Incision Retractor Set

**OR4006-00 Complete Set - Basic**
Consisting of:
- 1x Frame
- 1x Weight & chain
- 1x Square fitting blade - 50mm depth
- 1x Round fitting blade - 40mm depth

**OR4006-05 Complete Set - Extended**
Consisting of:
- 1x Frame
- 1x Weight & chain
- 3x Square fitting blades:
  - 50mm depth
  - 75mm depth
  - 100mm depth
- 3x Round fitting blades:
  - 40mm depth
  - 75mm depth
  - 100mm depth

To spread the incision in the fascia lata. It is combined with a weight and chain, which tilts the retractor to an angle of 45° to improve exposure of the anterior aspect of the joint.

**OR4006-10 Frame only**

**OR4006-07 Weight & chain**

**Blade with Square Fitting**
- **OR4006-50** Standard depth 50mm
- **OR4006-75** Extra depth 75mm
- **OR4006-10** Extra, extra depth 100mm

**Blade with Round Fitting**
- **OR4007-40** Standard depth 40mm
- **OR4007-75** Extra depth 75mm
- **OR4007-10** Extra, extra depth 100mm
RETRACTORS

Wests S/R Retractor
- 14cm/5½” length
- 3x4 Sharp prongs
OR4003-14

Weitlaner S/R Retractor
- 14cm/5½” length
- 3x4 Blunt prongs
OR4002-14

Travers S/R Retractor
- 20cm/8” length
- 4x5 Blunt prongs
OR4004-20

Norfolk and Norwich S/R Retractor
- 20cm/8” length
- 4x5 Blunt prongs
OR4000-20

Gelpi Laminectomy Retractor
- Sharp prongs

<table>
<thead>
<tr>
<th>Length</th>
<th>Prong depth</th>
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<tbody>
<tr>
<td>OR4030-16</td>
<td>18.5cm/7¼”</td>
</tr>
<tr>
<td>OR4050-16</td>
<td>19.5cm/7¾”</td>
</tr>
<tr>
<td>OR4070-16</td>
<td>20cm/8”</td>
</tr>
<tr>
<td></td>
<td>30mm</td>
</tr>
<tr>
<td></td>
<td>50mm</td>
</tr>
<tr>
<td></td>
<td>70mm</td>
</tr>
</tbody>
</table>
RETRACTORS

Charnley Vertical Retractor
- 24.5cm/9½" length
- 3x4 Sharp prongs
- Blade depth 22mm

Cones Self Retaining Retractor
- 3x4 Prongs
- Jointed arms

<table>
<thead>
<tr>
<th>Blunt Prongs</th>
<th>Length</th>
<th>Depth</th>
<th>Sharp Prongs</th>
<th>Length</th>
<th>Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>OR4064-13</td>
<td>13cm/5&quot;</td>
<td>15mm</td>
<td>SP4063-13</td>
<td>13cm/5&quot;</td>
<td>15mm</td>
</tr>
<tr>
<td>OR4066-16</td>
<td>16cm/6½&quot;</td>
<td>15mm</td>
<td>SP4065-16</td>
<td>16cm/6½&quot;</td>
<td>15mm</td>
</tr>
<tr>
<td>OR4068-20</td>
<td>20cm/8&quot;</td>
<td>20mm</td>
<td>SP4067-20</td>
<td>20cm/8&quot;</td>
<td>20mm</td>
</tr>
<tr>
<td>OR4070-24</td>
<td>24cm/9½&quot;</td>
<td>25mm</td>
<td>SP4069-24</td>
<td>24cm/9½&quot;</td>
<td>25mm</td>
</tr>
</tbody>
</table>

Harvey Jackson Self Retaining Retractor
- 30.5cm/12" length
- Blade depth 45mm
- 3x3 Sharp prongs

OR4010-30
RETRACTORS

Charnley Horizontal Hip Retractor
- 28cm/11" length
- Blade depth 18mm
- Hinged joint
- 7" opening

OR4006-28

To retract the detached trochanter headwards, and the femur towards the feet

Hardinge Horizontal Retractor
- Blade depth 18mm
- Hinged joint

OR4007-28

Charnley Pin Retractor
Complete set with:
- T-handle introducer
- Pair of pins with chains

OR1100-00

OR1101-00 T-handle only

OR1102-00 Pair of pins with chain only

One pin, or sometimes two, is driven into the bone of the superior lip of the acetabulum, to stake back the capsule to give a clear view of the superior lip of the acetabulum. The nerve supply to the tensor fasciae femoris is preserved in this exposure by restricting dissection in the cleft in front of the gluteus medius, but this restricts exposure. By using pins to stake back the abductor muscles, a good exposure of the acetabulum can be obtained, and at the same time the nerve supply to tensor fasciae femoris can be preserved. The short pins do not obstruct the surgeon’s hand in access to the acetabulum. The chain is a safety device to prevent the pins being left in situ.
RETRACTORS

Viper Hinged Scoliosis Retractor
- 30cm/11¾" length
- Sharp

Depth Prongs
OR7248-38H  40mm
OR7248-40H  70mm
OR7248-50H  100mm

Viper Scoliosis Retractor
- 30cm/11¾" length
- Sharp prongs

Depth Prongs
OR7248-38  40mm
OR7248-40  70mm
OR7248-50  100mm
MALLETS

Toffee Mallet
- 19cm/7½” length
- Head size 22mm Ø
- Weight 165g/6oz
OR5808-21

Ultra Fine Mallet
- 17cm/6¼” length
- Head size 20mm Ø
- Weight 145g/5oz
OR5801-17

Heath Mallet
- 19cm/7” length
- Stainless steel head
- Head size 40mm Ø
- Weight 1020g/36oz
OR5809-19

Mallet with Tufnol Handle
- 23cm/9” length
- Small head size 30mm Ø
- Weight 350g/12oz
OR5803-23
- Medium head size 35mm Ø
- Weight 550g/20oz
OR5804-23
- Large head size 40mm Ø
- Weight 700g/25oz
OR5805-23
MALLETS

London Splint Mallet
- 18cm/7” length
- Head size 30mm Ø
- Weight 450g/16.2oz

OR5802-18

Ombredanne Mallet
- 24cm/9½” length
- Head size 40mm Ø
- Weight 550g/20oz

OR5806-24

Mallet with Tufnol Handle
- 24cm/9½” length
- Lead filled head
- Weight 400g/14oz

OR5810-24

Tufnol Mallet
- 25.5cm/10” length
- Head size 42mm Ø
- Weight 250g/10oz

OR5807-25
OSTEOTOMES

Mini-Lambotte Osteotome
- 12.5cm/5" length

<table>
<thead>
<tr>
<th>Width</th>
<th>Set of 5 sizes: 2mm to 8mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>OR5270-02</td>
<td>2mm</td>
</tr>
<tr>
<td>OR5270-03</td>
<td>3mm</td>
</tr>
<tr>
<td>OR5270-04</td>
<td>4mm</td>
</tr>
<tr>
<td>OR5270-06</td>
<td>6mm</td>
</tr>
<tr>
<td>OR5270-08</td>
<td>8mm</td>
</tr>
</tbody>
</table>

Lambotte Osteotome
- 25cm/9¾" length

<table>
<thead>
<tr>
<th>Straight Width</th>
<th>Curved Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>OR7970-04</td>
<td>4mm</td>
</tr>
<tr>
<td>OR7970-06</td>
<td>6mm</td>
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<td>OR7970-08</td>
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<tr>
<td>OR7970-10</td>
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</tr>
<tr>
<td>OR7970-13</td>
<td>13mm</td>
</tr>
<tr>
<td>OR7970-16</td>
<td>16mm</td>
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<tr>
<td>OR7970-18</td>
<td>18mm</td>
</tr>
<tr>
<td>OR7970-20</td>
<td>20mm</td>
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<tr>
<td>OR7970-25</td>
<td>25mm</td>
</tr>
<tr>
<td>OR7970-30</td>
<td>30mm</td>
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</tbody>
</table>

Ultra Fine Osteotome (Titanium Nitrate Coated)
- 16cm/6¼" length

<table>
<thead>
<tr>
<th>Width</th>
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</thead>
<tbody>
<tr>
<td>OR5230-02</td>
</tr>
<tr>
<td>OR5230-04</td>
</tr>
<tr>
<td>OR5230-06</td>
</tr>
<tr>
<td>OR5230-08</td>
</tr>
<tr>
<td>OR5230-10</td>
</tr>
<tr>
<td>OR5230-12</td>
</tr>
</tbody>
</table>

Set of 6 sizes: 2mm to 12mm complete with mallet in sterilising case

OR5230-48
OSTEOTOMES

Mini-Stille Osteotome
- 16cm/6¼" length

<table>
<thead>
<tr>
<th>Straight</th>
<th>Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>OR7704-16</td>
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<tr>
<td>OR7706-16</td>
<td>6mm</td>
</tr>
<tr>
<td>OR7708-16</td>
<td>8mm</td>
</tr>
</tbody>
</table>

Stille (Swedish) Osteotome
- 20cm/8" length

<table>
<thead>
<tr>
<th>Straight</th>
<th>Width</th>
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</thead>
<tbody>
<tr>
<td>OR7706-20</td>
<td>6mm</td>
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<tr>
<td>OR7708-20</td>
<td>8mm</td>
</tr>
<tr>
<td>OR7710-20</td>
<td>10mm</td>
</tr>
<tr>
<td>OR7712-20</td>
<td>12mm</td>
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<tr>
<td>OR7715-20</td>
<td>15mm</td>
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<tr>
<td>OR7720-20</td>
<td>20mm</td>
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<tr>
<td>OR7725-20</td>
<td>25mm</td>
</tr>
<tr>
<td>OR7730-20</td>
<td>30mm</td>
</tr>
</tbody>
</table>

Hibbs Osteotome with thin blade
- 20cm/8" length
- Extra thin blade

<table>
<thead>
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<th>Width</th>
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</thead>
<tbody>
<tr>
<td>OR7804-20</td>
<td>4mm</td>
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<tr>
<td>OR7806-20</td>
<td>6mm</td>
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<td>OR7808-20</td>
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<tr>
<td>OR7810-20</td>
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<td>OR7812-20</td>
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<td>OR7825-20</td>
<td>25mm</td>
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<tr>
<td>OR7830-20</td>
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<table>
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<tbody>
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<td>4mm</td>
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<tr>
<td>OR7906-20</td>
<td>6mm</td>
</tr>
<tr>
<td>OR7908-20</td>
<td>8mm</td>
</tr>
<tr>
<td>OR7910-20</td>
<td>10mm</td>
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<tr>
<td>OR7912-20</td>
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<tr>
<td>OR7915-20</td>
<td>15mm</td>
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<tr>
<td>OR7920-20</td>
<td>20mm</td>
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<tr>
<td>OR7925-20</td>
<td>25mm</td>
</tr>
<tr>
<td>OR7930-20</td>
<td>30mm</td>
</tr>
</tbody>
</table>

Smith Petersen Osteotome
- 20cm/8" length

<table>
<thead>
<tr>
<th>Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>OR7610-20</td>
</tr>
<tr>
<td>OR7615-20</td>
</tr>
<tr>
<td>OR7620-20</td>
</tr>
<tr>
<td>OR7625-20</td>
</tr>
<tr>
<td>OR7630-20</td>
</tr>
</tbody>
</table>
OSTEOTOMES

Mini-Lexer Osteotome
- 18cm/7” length
- Tufnol handle

OR5250-48  Set of 5 sizes: 2mm to 10mm

<table>
<thead>
<tr>
<th>Width</th>
<th>OR5250-02</th>
<th>OR5250-04</th>
<th>OR5250-06</th>
<th>OR5250-08</th>
<th>OR5250-10</th>
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<tbody>
<tr>
<td>2mm</td>
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<td>6mm</td>
<td>7mm</td>
<td>10mm</td>
<td>15mm</td>
<td>20mm</td>
<td>25mm</td>
</tr>
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<td>8mm</td>
<td>7mm</td>
<td>10mm</td>
<td>15mm</td>
<td>20mm</td>
<td>25mm</td>
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<td>7mm</td>
<td>10mm</td>
<td>15mm</td>
<td>20mm</td>
<td>25mm</td>
</tr>
</tbody>
</table>

Lexer Osteotome
- 22cm/8½” length
- Tufnol handle

OR7207-22 7mm
OR7210-22 10mm
OR7215-22 15mm
OR7220-22 20mm
OR7225-22 25mm

Dahmen Osteotome
- 30cm/12” length
- Tufnol handle

OR7105-30 5mm
OR7110-30 10mm
OR7115-30 15mm
OR7120-30 20mm
OR7125-30 25mm
OR7130-30 30mm

OR7305-30 5mm
OR7310-30 10mm
OR7315-30 15mm
OR7320-30 20mm
OR7325-30 25mm
OR7330-30 30mm
OSTEOTOMES & GOUGES

Box Chisel
- 29cm/13½” length
- For preparation of the proximal femur
- 31mm width x 6mm

Pelvic Osteotome
- 30cm/12” length
- Tufnol handle
- Angled shaft

Chisel with Interchangeable Blades
- 20cm/8” length
- Tufnol handle
- Very thin blades

Capener Lamina Gouge
- 23cm/9” length
- Cranked shaft

**Blade Width**

<table>
<thead>
<tr>
<th>Blade Width</th>
<th>Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>OR0792-05</td>
<td>5mm*</td>
</tr>
<tr>
<td>OR0793-08</td>
<td>8mm</td>
</tr>
<tr>
<td>OR0793-10</td>
<td>10mm*</td>
</tr>
<tr>
<td>OR0793-12</td>
<td>12mm</td>
</tr>
<tr>
<td>OR0794-15</td>
<td>15mm*</td>
</tr>
<tr>
<td>OR0795-25</td>
<td>25mm*</td>
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</table>

**Width**

<table>
<thead>
<tr>
<th>Width</th>
<th>6mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>OR6506-23</td>
<td></td>
</tr>
<tr>
<td>OR6508-23</td>
<td>8mm</td>
</tr>
<tr>
<td>OR6511-23</td>
<td>11mm</td>
</tr>
<tr>
<td>OR6516-23</td>
<td>16mm</td>
</tr>
</tbody>
</table>
BONE CURETTES

Volkmann Curette
- 22cm/8¾" length
- Double ended

<table>
<thead>
<tr>
<th>Size</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>OR8401-22</td>
<td>Small</td>
</tr>
<tr>
<td>OR8402-22</td>
<td>Medium</td>
</tr>
<tr>
<td>OR8403-22</td>
<td>Large</td>
</tr>
</tbody>
</table>

Muller Curette with Tufnol Handle
- 27cm/9¾" length
- Tufnol handle

Small cup 9mm Ø
OR8411-27

Medium cup 13mm Ø*
OR8412-27

Large cup 27mm Ø*
OR8413-27

24cm length

Charnley Bone Curette
- 37cm/15" length
- T-handle

Small cup 14mm Ø
OR8421-37

Medium cup 17mm Ø
OR8422-37

Large cup 22mm Ø*
OR8423-37

*illustrated

Charnley Ring Curette
- 37cm/15" length
- Double sided
- Serrated cutting edge
- T-handle

OR8430-37

*illustrated
HIP REVISION INSTRUMENTS

Cup Extraction Chisel
- 32cm/12½" length
- Curved 7mm tip
- Metal strike plate
- Tufnol handle

Bayonet Gouge
- 32cm/12½" length
- Metal strike plate
- Tufnol handle
- 8mm width

Swan Necked Gouge
- 28.5cm/11" length
- 25mm width

Cement Gouge
- 34.5cm/13½" length

Cement Chisel Angled 15°
- 35.5cm/14 length
- 9mm tip
## HIP REVISION INSTRUMENTS

### Cement Osteotome
- 30cm/12” length
- Tufnol handle with strike plate

<table>
<thead>
<tr>
<th>Width</th>
<th>Code</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>5mm</td>
<td>OR6105-30</td>
<td>5mm</td>
</tr>
<tr>
<td>7mm</td>
<td>OR6107-30</td>
<td>7mm</td>
</tr>
<tr>
<td>10mm</td>
<td>OR6110-30</td>
<td>10mm</td>
</tr>
</tbody>
</table>

### Cement Splitting Osteotome
- 30cm/12” length
- Tufnol handle with strike plate
- Guarded blade

<table>
<thead>
<tr>
<th>Width</th>
<th>Code</th>
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<tr>
<td>5mm</td>
<td>OR6205-30</td>
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</tr>
<tr>
<td>10mm</td>
<td>OR6210-30</td>
<td>10mm</td>
</tr>
</tbody>
</table>

### Straight Cement Gouge
- 30cm/12” length
- Tufnol handle with strike plate

<table>
<thead>
<tr>
<th>Width</th>
<th>Code</th>
<th>Size</th>
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</thead>
<tbody>
<tr>
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<td>OR6305-30</td>
<td>5mm</td>
</tr>
<tr>
<td>7mm</td>
<td>OR6307-30</td>
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</tr>
<tr>
<td>10mm</td>
<td>OR6310-30</td>
<td>10mm</td>
</tr>
</tbody>
</table>

### Bayonet Cement Rasp
- 52cm/20½” length
- Tufnol handle

<table>
<thead>
<tr>
<th>Code</th>
<th>Shape</th>
</tr>
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<tbody>
<tr>
<td>OR6100-52</td>
<td>V-shape</td>
</tr>
<tr>
<td>OR6101-52</td>
<td>Strong round shape*</td>
</tr>
<tr>
<td>OR6102-52</td>
<td>Flat round curve</td>
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</tbody>
</table>
**HIP REVISION INSTRUMENTS**

**Bayonet Cement Chisel**
- 40cm/15¾” length
- Tufnol handle with strike plate

```
<table>
<thead>
<tr>
<th>Width</th>
<th>OR6105-40</th>
<th>OR6107-40</th>
<th>OR6110-40</th>
</tr>
</thead>
<tbody>
<tr>
<td>5mm</td>
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<td></td>
<td></td>
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<tr>
<td>7mm</td>
<td></td>
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</tr>
<tr>
<td>10mm</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
```

**Bayonet Cement Splitting Osteotome**
- 40cm/15¾” length
- Tufnol handle with strike plate
- Guarded blade

```
<table>
<thead>
<tr>
<th>Width</th>
<th>OR6205-40</th>
<th>OR6207-40</th>
<th>OR6210-40</th>
</tr>
</thead>
<tbody>
<tr>
<td>5mm</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>7mm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10mm</td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>
```

**Bayonet Cement Gouge**
- 40cm/15¾” length
- Tufnol handle with strike plate

```
<table>
<thead>
<tr>
<th>Width</th>
<th>OR6505-40</th>
<th>OR6507-40</th>
<th>OR6510-40</th>
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</thead>
<tbody>
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<td></td>
<td></td>
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<tr>
<td>7mm</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>10mm</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
```

**Bayonet Cement Gouge**
- 40cm/15¾” length
- Tufnol handle with strike plate

```
<table>
<thead>
<tr>
<th>Width</th>
<th>OR6605-40</th>
<th>OR6607-40</th>
<th>OR6610-40</th>
</tr>
</thead>
<tbody>
<tr>
<td>5mm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7mm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10mm</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
```

For cement removal through fenestration in the femur.
HIP REVISION INSTRUMENTS

Malleable Cement Probe
- 38cm/15” length
- For probing the Femur

Cement Plug Extractor
- 48cm/19” length
- T-handle
- For extraction of cement plug

Thread Dia.
OR6807-48 7mm
OR6809-48 9mm
OR6811-48 11mm

Retrograde Cement Chisel
- 50cm/19¾” length
- Tufnol T-handle
- Striking plate

Width
OR6805-50 5mm
OR6807-50 7mm
OR6810-50 10mm

Slotted Mallet
OR6850-00

Cement Extraction Hook
- 34.5cm/14” length

OR6905-34 3mm tip
HIP REVISION INSTRUMENTS

Cement Twist Drill Long
- 40cm/15 ¾” length

<table>
<thead>
<tr>
<th>Diameter</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>OR1400-06</td>
<td>6mm</td>
</tr>
<tr>
<td>OR1400-08</td>
<td>8mm</td>
</tr>
<tr>
<td>OR1400-10</td>
<td>10mm</td>
</tr>
</tbody>
</table>

Fine Cement Duckbill Grasping Forceps
- 35cm/14” shaft length
- Fine jaws

OR6901-35

Heavy Cement Grasping Forceps
- 26cm/10” shaft length
- Serrated jaws 6mm width

OR6902-26
HIP REVISION INSTRUMENTS

Femoral Head Extractor
- 23cm/9” length
- Tufnol handle

Moore Femoral Head Extractor
- 20.5cm/8” length
- Metal handle

Joint Capsule Clamp
- 21cm/8¼” length
- 25mm jaw length

Joint Capsule Scissors
- 25cm/9¾” length
- Angled blades
HIP JOINT INSTRUMENTS

Femoral Head Impactor
- 20cm/8" length
- Nylon head

McGoey Bone Punch
- Double ended

Hardinge Cement Restrictor
- 33.5cm/13¾" length
- Graduated shaft

Femoral Pusher
- Square ended
PLIERS & WIRE CUTTERS

Universal Fine Pliers and Cutters
- 15cm/6" length

SLIM & SQUARE ENDED WIRE PLIERS
- 19cm/7½" length

PIERS FOR SCREW REMOVAL
- 20cm/8" length

MULLER CLAUS WIRE PULLERS
- 18cm/7" length
- Double action
- Tungsten jaws

2mm Jaws
8-818E18

4mm Jaws
8-820E18

6mm Jaws
8-821E18
Muller Claus Wire Cutters
- 16cm/6” length
- Tungsten carbide edges
- Cuts wire up to 1.6mm Ø

8-810E16

Muller Claus Wire Cutters
- Tungsten carbide edges

8-810E18
- 18cm/7” length*
- Cuts wire up to 2mm Ø

8-800E22
- 22cm/8¾” length*
- Cuts wire up to 3mm Ø

*illustrated

End Wire Cutters
- 18cm/7” length
- Tungsten carbide edges
- Cuts wire up to 1.7mm Ø

8-816E18

Bolt Cutters with dismantable arms
- Max. cap 6.3mm pins

Take apart arms for easier sterilisation

200-500-585
- Must be used in conjunction with a Rod Holder. Ordering Code: 200-675-200
WIRE CUTTERS

Combined Wire Cutters & Pliers
- 18cm/7" length
- Suitable for wires up to 1.6mm Ø
- Parallel closing jaws

Wire Cutters with T/C Jaws
- 24cm/9½" length
- Double action
- Cuts plates & wires up to 2.7mm Ø

'Power Cut' Wire Cutters
- 20cm/8" length
- Cutting inserts are T/C and can be replaced
- Cuts wires up to 3mm Ø
LOCKING PLIERS

Needle Nosed Locking Pliers

- A very useful instrument for orthopaedic surgery allowing the surgeon to securely clamp on to wires and implants.

<table>
<thead>
<tr>
<th>Code</th>
<th>Length</th>
<th>Weight</th>
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</thead>
<tbody>
<tr>
<td>200-514-220</td>
<td>22cm/8¾” Small</td>
<td></td>
</tr>
<tr>
<td>200-515-250</td>
<td>25cm/9¾” Medium</td>
<td></td>
</tr>
<tr>
<td>200-516-300</td>
<td>30cm/11¾” Large</td>
<td></td>
</tr>
</tbody>
</table>

Slap Hammer attachment combined

<table>
<thead>
<tr>
<th>Code</th>
<th>Length</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>210-400-350</td>
<td>35cm/13¾”</td>
<td>400g</td>
</tr>
<tr>
<td>210-700-350</td>
<td>35cm/13¾”</td>
<td>700g</td>
</tr>
</tbody>
</table>

Orthopaedic Locking Pliers

- Hardened jaws

<table>
<thead>
<tr>
<th>Code</th>
<th>Length</th>
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</thead>
<tbody>
<tr>
<td>200-511-180</td>
<td>18cm/7” Small</td>
</tr>
<tr>
<td>200-511-200</td>
<td>20cm/8” Medium</td>
</tr>
<tr>
<td>200-511-240</td>
<td>24cm/9½” Large</td>
</tr>
</tbody>
</table>
PIN INTRODUCERS

Kirschner Wire Introducing T-Handle
- 12cm/4 1/4" length
- 1.5mm Ø wires

Steinmann Pin Introducer T-Handle
- 14cm/5 1/2" length
- 0.5mm - 8mm Ø pins
- With Jacobs chuck & key

Steinmann Pin Introducer T-Handle
- 14cm/5 1/2" length
- 0.7mm - 6mm Ø pins
- Universal chuck
Bone Mill
- Table mounted with crank handle
- With removable cutting drum

OR6001-00

For gridding bone chips used for bone graft procedures.

Wire Passing Guide
- 21cm/8¼" length

Used for passing wire around bones.

Large curve 70mm Ø
OR6105-21

Small curve 45mm Ø
OR6104-21

Bone Awl
- Straight with eye

<table>
<thead>
<tr>
<th>Diameter</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>OR5602-12</td>
<td>2.0mm 125mm</td>
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<tr>
<td>OR5602-13</td>
<td>2.4mm 130mm</td>
</tr>
<tr>
<td>OR5602-14</td>
<td>2.8mm 145mm</td>
</tr>
<tr>
<td>OR5602-15</td>
<td>3.2mm 160mm</td>
</tr>
<tr>
<td>OR5602-16</td>
<td>3.6mm 165mm</td>
</tr>
<tr>
<td>OR5602-17</td>
<td>4.0mm 175mm</td>
</tr>
</tbody>
</table>
SCREWDRIVERS

Slotted Head
- 17cm/6¾" length
- For head screws 2.7mm - 4.0mm

OR7014-17

Long Slotted Head
- 25cm/10” length
- For head screws 2.7mm - 4.0mm

OR7014-25

Phillips Head
- 25cm/10” length
- For small Phillips head screws 6mm

OR7015-25

Cross Slotted Head
- 25cm/10” length
- For cross slot screws 6mm

OR7016-25
**SCREWDRIVERS**

Hexagonal Head
- 25cm/10" length
- For hexagonal head screws 2.7mm - 4.0mm

<table>
<thead>
<tr>
<th>2.5mm Hex</th>
<th>3.5mm Hex</th>
</tr>
</thead>
<tbody>
<tr>
<td>OR7017-25</td>
<td>OR7018-25</td>
</tr>
</tbody>
</table>
For 2.7mm to 3.5mm screws
For 4.5mm to 6.5mm screws

Screwdriver Handle
- To fit shafts with quick lock attachment

OR7020-02

Screwdriver Handle Small
- To fit shafts with quick lock attachment

OR7020-01

Shaft with Quick Lock Fitting
- Hexagonal tip

<table>
<thead>
<tr>
<th>Shaft</th>
<th>Diameter</th>
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<tbody>
<tr>
<td>OR7021-00</td>
<td>2.5mm</td>
</tr>
<tr>
<td>OR7022-00</td>
<td>3.5mm</td>
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</tbody>
</table>
DISSECTORS

Howarth Elevator
- 21.5cm/8½" length

MacDonald Elevator/Dissector

<table>
<thead>
<tr>
<th>Size</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>HA7105-19</td>
<td>19cm/7 ½&quot;</td>
</tr>
<tr>
<td>OR9206-23</td>
<td>23cm/9&quot;</td>
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</table>

Watson Cheyne Dissector

<table>
<thead>
<tr>
<th>Length</th>
<th></th>
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<tbody>
<tr>
<td>HA7203-18</td>
<td>18cm/7&quot;</td>
</tr>
<tr>
<td>OR9203-23</td>
<td>23cm/9&quot;</td>
</tr>
<tr>
<td>OR9203-25</td>
<td>25.5cm/10&quot;</td>
</tr>
</tbody>
</table>

Freers Elevator/Dissector
- 18.5cm/7¼" length

Swedish Dissector
- 18cm/7" length
MEASURING INSTRUMENTS

Stainless Steel Measuring Ruler

<table>
<thead>
<tr>
<th>Code</th>
<th>Length</th>
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<tbody>
<tr>
<td>OR5005-15</td>
<td>15cm/6”</td>
</tr>
<tr>
<td>OR5005-30</td>
<td>30cm/12”</td>
</tr>
</tbody>
</table>

Measuring Caliper
- 25cm/10” length
- Measuring range 0-50mm

<table>
<thead>
<tr>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>OR7334-20</td>
</tr>
</tbody>
</table>

Vernier Caliper
- 22.5cm/9” length
- Measuring range 15cm

<table>
<thead>
<tr>
<th>Code</th>
</tr>
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<tbody>
<tr>
<td>OR7338-00</td>
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</tbody>
</table>

Depth Gauge
- Measuring depth up to 50mm

<table>
<thead>
<tr>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>OR7350-00</td>
</tr>
</tbody>
</table>

Depth Gauge
- Measuring depth up to 70mm

<table>
<thead>
<tr>
<th>Code</th>
</tr>
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<tbody>
<tr>
<td>OR7370-00</td>
</tr>
</tbody>
</table>

Direct Reading Depth Gauge
- 23cm length
- Measuring depth up to 40mm

<table>
<thead>
<tr>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>OR7333-10</td>
</tr>
</tbody>
</table>
BONE TUNNELLING & SUTURE PASSING

Penetrating Bone Gouge
- 22cm/8 3/4" length
- 3mm wide tip
SM0804-22

Percussion Bone Awl
- 22cm/8 3/4" length
- Curved, with metal handle
SM0805-22

Penetrating Bone Awl
- 18cm/7" length
- Tufnol handle
SM0806-18

Crochet Hook Suture Passer
- 18cm/7" length
- Tufnol handle
SM0807-18

Suture Passer
- 18/7"cm length
- Tufnol handle
- With hole in tip
SM0808-18

The Bone Awls and Suture Passers are used to place sutures along the edge of the Glenoid Rim.
Glenoid Perforating Forceps Light Curve
- 17cm/6 1/4" length
- Light curve

SM1858-17

For perforating holes in the Glenoid Rim.

Glenoid Perforating Forceps Strong Curve
- 17cm/6 1/4" length
- Strong curve

SM1859-17

Kolbel Glenoid Elevator
- 30cm/12" length
- 15mm width
- Curved
- Double prong

SM0596-15

Kolbel Glenoid Elevator
- 30cm/12" length
- 20mm width
- Curved
- Double prong

SM0598-20

Posterior Glenoid Elevators
- Curved tip to sit on posterior rim of Glenoid
- For Posterior Retraction of the Humeral Head

SM0575-08 8mm
SM0575-12 12mm
SM0575-20 20mm
HUMERAL HEAD RETRACTORS

Skid Lever
- 28 cm / 11" length
- Double ended
- 20 mm and 30 mm blade widths

Humerus Head Retractor
- 18 cm / 7" length
- Strongly curved
- Double blunt prongs

Bhattman Humerus Head Retractor
- 25 cm / 9 ¼" length
- 30 mm width
- Double prong
ELEVATORS

Fukuda Humerus Head Retractor
- 22.5cm/9” length
- Fenestrated

Darrach Acromial Elevators

<table>
<thead>
<tr>
<th>Size</th>
<th>Width</th>
<th>Length</th>
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</thead>
<tbody>
<tr>
<td>Small</td>
<td>SM0599-09</td>
<td>9mm width, 26cm/10 1/4” length</td>
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<tr>
<td>Medium</td>
<td>SM0599-12</td>
<td>12mm width, 26cm/10 1/4” length</td>
</tr>
<tr>
<td>Large</td>
<td>SM0599-16</td>
<td>16mm width, 26cm/10 1/4” length*</td>
</tr>
<tr>
<td>Extra Large</td>
<td>SM0599-25</td>
<td>25mm width, 36cm/14 1/2” length</td>
</tr>
<tr>
<td></td>
<td>SM0599-00</td>
<td>Set of 4 Elevators</td>
</tr>
</tbody>
</table>
These spreaders are used when access is required to the subacromion area. The spreaders distract the humeral head from the acromion.
SOFT TISSUE & MUSCLE RETRACTORS

Kolbel Tissue & Muscle Spreader
- 18cm/7” length
- Straight single blunt prongs

SM6442-18

Kolbel Tissue & Muscle Spreader
- 18cm/7” length
- Angled single blunt prongs

SM6443-18

Kolbel Tissue & Muscle Spreader
- 18cm/7” length
- Angled double blunt prongs

SM6441-18

Capsule Spreader
- 18cm/7” length
- Single blunt prongs
- 90° Angled

SM6445-18
SOFT TISSUE RETRACTOR

Kolbel Shoulder Retractor
- With 3 pairs of detachable blades
- 23cm/9" length

SM1062-23
Complete set with 3 pairs of blades and retractor frame

SM1062-00
Retractor frame only

SM1063-36
Small blade
36mm

SM1064-53
Medium blade
53mm

SH1065-68
Large blade
68mm

Browne Deltoid Retractor
- 27cm/10 1/2" length
- 60mm x 65mm blade
- Cupped blade

SM0500-27

Suitable for use in the Delto-Pectoral approach allowing efficient retraction of the Deltoid.
Titanium Bladed Shoulder Retractor
Complete set with:
- 1x Frame
- 2x Blade holders
- 2 Sets of Titanium blades
- Sterilizing container

Frame with Articulating Joints
- Quick lock + unlock for blades
- Maximum spread 10cm

Blade Holder

Titanium Retractor Blades
- 30 angled
- Small blade size 22mm x 55mm
- Large blade size 22mm x 65mm
## MISCELLANEOUS

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Specifications</th>
<th>Code</th>
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<tbody>
<tr>
<td>Richardson Retractor</td>
<td>20mm width, 24cm/9 1/2 length</td>
<td>SM2054-20</td>
</tr>
<tr>
<td>Richardson Retractor</td>
<td>28mm width, 24cm/9 1/2 length</td>
<td>SM2053-28</td>
</tr>
<tr>
<td>Kolbel Tenectomy Ronguer</td>
<td>18cm/7” length, Jaws 3mm bite, Strong curved</td>
<td>SM1258-19</td>
</tr>
<tr>
<td>Kolbel Bone Nibblers</td>
<td>18cm/7” length, Jaws 5mm bite, Light curved</td>
<td>SM1256-19</td>
</tr>
<tr>
<td>Mallet</td>
<td>24cm/9 1/2 length, Tufnol handle, 480 grams</td>
<td>SM0900-24</td>
</tr>
<tr>
<td>Chisel with 4 Interchangeable Blades</td>
<td>20cm/8” length, Tufnol handle, Complete with blade sizes: 5mm, 10mm, 15mm, 25mm &amp; key</td>
<td>SM0790-20</td>
</tr>
</tbody>
</table>
JJ International Instruments
Designers & Manufacturers of Surgical Instruments

Corporate Office & Factory
337/N, Amala Antonian Plaza
Kinfra Park P.O.,Thrissur (Dt.)
Kerala State, India - 680 309
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