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

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<tr>
<td>7mm</td>
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**Pennybacker Periosteal Elevator**
- 16cm/6¼" length
- Curved sharp

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**Bone Raspatory with Tufnol Handle**
- 19cm/7½" length

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<td>OR7026-19</td>
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**Farabeuf Rugine Elevator**
- 15cm/6" length

- Straight
  - Width
  - OR3001-15 12mm

- Curved*
  - Width
  - OR3002-15 12mm

*illustrated

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

- Straight
  - Width
  - OR3011-16 12mm

- Curved*
  - Width
  - OR3012-16 12mm

*illustrated
ELEVATORS

**Bristow Periosteal Elevator**
- 23cm/9" length
- Curved sharp
- 10mm width

**Lanes Bone Elevator**
- 26cm/10" length

**Fagge Bone Elevator**
- 27.5cm/10¾" length

**Trethowan Bone Elevator**
- 22.5cm/8½" length

**Femoral Dislocation Lever**
- 31cm/12½" length
- 26mm width

**Muller Femoral Retractor**
- 35cm/13½" length
- 28mm width

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
Width
OR5835-10 9mm
OR5835-12 11mm
OR5835-14 13mm
OR5835-16 15mm
OR5835-19 19mm
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 Bone Elevator
- 26cm/10” length
- 24mm width
OR3024-26

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

Hohmann Bone Elevator
- 28cm/11” length
- 33mm width
OR3033-28
**ELEVATORS**

Long Curved Hohmann Inferior Hip Elevator
- 40cm/16" length
- 22mm width
- OR3022-40

Modified Hohmann Elevator
- 90° angled

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Modified Cobra Aufrang Elevator
- 33cm/13" long blade
- 30mm x 100mm
- OR7742-10

Shallow Bone Elevator
- 25cm/9¾" length
- OR7755-25

Concave Moor Elevator
- 33cm/13" long blade
- OR7742-20
ELEVATORS

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

Infero-Posterior Acetabular Capsule Retractor
- 35cm/14" length

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

Wide Prong PCL Retractor
- 25cm/10" length
- To straddle the cruciate ligament
- 5mm wide prongs
- 23mm wide tips
**BONE HOOKS**

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

**Blunt Hook**
- 20cm/8” length

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

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

**OR9050-24**

**OR9051-20**

**OR9055-25**

**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
BONE CUTTERS

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

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

| OR1028-18 |

Ruskin-Liston Bone Cutters
- 19cm/7½" length
- Double action

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<th>Angled</th>
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Stille-Liston Bone Cutters
- 27cm/10¾" length
- Double action

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

| OR1023-27 |
BONE NIBBLERS

Kleinert-Kutz Bone Nibbler
- 14cm/4½” length
- Curved
  2mm Bite
  OR5118-50

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"
- 3mm Bite
- OR5120-50

Marquardt Bone Nibbler
- 20cm/8" length
- Curved double action
- 3mm Bite
- OR1002-20

Beyer Bone Nibbler
- Curved double action
- 18cm/7"
- 4mm Bite
- OR1002-18

Jansen Bone Nibbler
- Curved double action
- 18cm/7"
- 5mm Bite
- OR1003-18
**BONE NIBBLERS**

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

<table>
<thead>
<tr>
<th>Straight</th>
<th>Light Curve</th>
<th>Bite Size</th>
</tr>
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<tbody>
<tr>
<td>OR1010-24</td>
<td>OR1014-24</td>
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</tr>
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<td>OR 1011-24</td>
<td>OR1015-24</td>
<td>4mm</td>
</tr>
<tr>
<td>OR1012-24</td>
<td>OR1016-24</td>
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</tr>
<tr>
<td>OR1013-24</td>
<td>OR1017-24</td>
<td>6mm</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Angled Jaw</th>
<th>Bite Size</th>
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</thead>
<tbody>
<tr>
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</tr>
<tr>
<td>OR1019-24</td>
<td>5mm</td>
</tr>
<tr>
<td>OR1020-24</td>
<td>8mm</td>
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</tbody>
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Stille-Luer Bone Nibbler
- 22cm/8¾” length
- Double action

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

'Mr Blobby' Stille-Luer Bone Nibbler
- 26cm/10¼” length
- Double action

<table>
<thead>
<tr>
<th>Straight 17mm Bite</th>
<th>Curved 17mm Bite</th>
</tr>
</thead>
<tbody>
<tr>
<td>OR1008-26</td>
<td>OR1009-26</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”</th>
<th>Small</th>
</tr>
</thead>
<tbody>
<tr>
<td>OR6145-25</td>
<td>25.5cm/10”</td>
<td>Medium</td>
<td></td>
</tr>
<tr>
<td>OR6145-30</td>
<td>30.5cm/12”</td>
<td>Large</td>
<td></td>
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</tbody>
</table>

**Verbrugge Bone Holding Forceps**

<table>
<thead>
<tr>
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<th>OR6150-25</th>
<th>25cm/10”</th>
<th>Small</th>
</tr>
</thead>
<tbody>
<tr>
<td>OR6150-26</td>
<td>26cm/10½”</td>
<td>Medium</td>
<td></td>
</tr>
<tr>
<td>OR6150-27</td>
<td>27cm/11”</td>
<td>Large</td>
<td></td>
</tr>
</tbody>
</table>
Pelvic Reduction Forceps
- 19cm/7½” 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>50mm x 16mm</td>
<td>70mm x 25mm</td>
<td>90mm x 50mm</td>
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</tbody>
</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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<tbody>
<tr>
<td>22mm x 6mm</td>
<td>22mm x 6mm</td>
<td>45mm x 13mm</td>
<td>65mm x 25mm</td>
<td>90mm x 20mm</td>
</tr>
<tr>
<td>Small</td>
<td>Medium</td>
<td>Large</td>
<td>Extra large</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Prong size</th>
<th>OR5015-21</th>
<th>OR5020-21</th>
<th>OR5030-21</th>
</tr>
</thead>
<tbody>
<tr>
<td>15 x 15mm 3 Prong</td>
<td>15 x 20mm 4 Prong</td>
<td>15 x 30mm 6 Prong</td>
<td></td>
</tr>
</tbody>
</table>
Charnley Initial Incision Retractor Set

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

**OR4006-05 Complete Set - Extended**
- 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.

- **Weight & chain**
  - OR4006-07

**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>
</tr>
</thead>
<tbody>
<tr>
<td>OR4030-16</td>
<td>18.5cm/7¼&quot;</td>
</tr>
<tr>
<td>OR4050-16</td>
<td>19.5cm/7¾&quot;</td>
</tr>
<tr>
<td>OR4070-16</td>
<td>20cm/8&quot;</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>
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</thead>
<tbody>
<tr>
<td>OR4064-13</td>
<td>13cm/5&quot;</td>
<td>15mm</td>
</tr>
<tr>
<td>OR4066-16</td>
<td>16cm/6 ½&quot;</td>
<td>15mm</td>
</tr>
<tr>
<td>OR4068-20</td>
<td>20cm/8&quot;</td>
<td>20mm</td>
</tr>
<tr>
<td>OR4070-24</td>
<td>24cm/9 ½&quot;</td>
<td>25mm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sharp Prongs</th>
<th>Length</th>
<th>Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP4063-13</td>
<td>13cm/5&quot;</td>
<td>15mm</td>
</tr>
<tr>
<td>SP4065-16</td>
<td>16cm/6 ½&quot;</td>
<td>15mm</td>
</tr>
<tr>
<td>SP4067-20</td>
<td>20cm/8&quot;</td>
<td>20mm</td>
</tr>
<tr>
<td>SP4069-24</td>
<td>24cm/9 ½&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

<table>
<thead>
<tr>
<th>Model</th>
<th>Prong Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>OR7248-38H</td>
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<tr>
<td>OR7248-40H</td>
<td>70mm</td>
</tr>
<tr>
<td>OR7248-50H</td>
<td>100mm</td>
</tr>
</tbody>
</table>

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

Depth Prongs

<table>
<thead>
<tr>
<th>Model</th>
<th>Prong Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>OR7248-38</td>
<td>40mm</td>
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<tr>
<td>OR7248-40</td>
<td>70mm</td>
</tr>
<tr>
<td>OR7248-50</td>
<td>100mm</td>
</tr>
</tbody>
</table>
MALLETS

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

OR5808-21

Ultra Fine Mallet
- 17cm/6¾" 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
- Medium head size 35mm Ø
- Weight 550g/20oz
- Large head size 40mm Ø
- Weight 700g/25oz

OR5803-23

OR5804-23

OR5805-23
MALLETS

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

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

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

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

### Mini-Lambotte Osteotome
- **12.5cm/5” length**

<table>
<thead>
<tr>
<th>Width</th>
<th>OR5270-02</th>
<th>OR5270-03</th>
<th>OR5270-04</th>
<th>OR5270-06</th>
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<tbody>
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<tr>
<td>4mm</td>
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</tr>
<tr>
<td>6mm</td>
<td></td>
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<tr>
<td>8mm</td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

Set of 5 sizes: 2mm to 8mm

### Lambotte Osteotome
- **25cm/9¾” length**

<table>
<thead>
<tr>
<th>Width</th>
<th>OR7970-04</th>
<th>OR7970-06</th>
<th>OR7970-08</th>
<th>OR7970-10</th>
<th>OR7970-13</th>
<th>OR7970-16</th>
<th>OR7970-18</th>
<th>OR7970-20</th>
<th>OR7970-25</th>
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<tbody>
<tr>
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<td>OR7970-08</td>
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<td>OR7970-13</td>
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<td>OR7970-10</td>
<td>OR7970-13</td>
<td>OR7970-16</td>
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<td>OR7970-20</td>
<td>OR7970-25</td>
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<td>OR7970-16</td>
<td>OR7970-18</td>
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<td>OR7970-25</td>
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<td>OR7970-18</td>
<td>OR7970-20</td>
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<td>OR7970-18</td>
<td>OR7970-20</td>
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<td>OR7970-20</td>
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</table>

### Ultra Fine Osteotome (Titanium Nitrate Coated)
- **16cm/6¼” length**

<table>
<thead>
<tr>
<th>Width</th>
<th>OR5230-02</th>
<th>OR5230-04</th>
<th>OR5230-06</th>
<th>OR5230-08</th>
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<td>OR5230-04</td>
<td>OR5230-06</td>
<td>OR5230-08</td>
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<td>OR5230-08</td>
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<tr>
<td>6mm</td>
<td>OR5230-06</td>
<td>OR5230-08</td>
<td>OR5230-10</td>
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<tr>
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<td>OR5230-10</td>
<td>OR5230-12</td>
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<tr>
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<td>OR5230-10</td>
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<td>12mm</td>
<td>OR5230-12</td>
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</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 Width</th>
<th>OR7704-16</th>
<th>OR7706-16</th>
<th>OR7708-16</th>
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</thead>
<tbody>
<tr>
<td>Width</td>
<td>4mm</td>
<td>6mm</td>
<td>8mm</td>
</tr>
</tbody>
</table>

Stille (Swedish) Osteotome

- 20cm/8” length

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

Hibbs Osteotome with thin blade

- 20cm/8” length
- Extra thin blade

<table>
<thead>
<tr>
<th>Straight Width</th>
<th>OR7804-20</th>
<th>OR7806-20</th>
<th>OR7808-20</th>
<th>OR7810-20</th>
<th>OR7812-20</th>
<th>OR7815-20</th>
<th>OR7820-20</th>
<th>OR7825-20</th>
<th>OR7830-20</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>4mm</td>
<td>6mm</td>
<td>8mm</td>
<td>10mm</td>
<td>12mm</td>
<td>15mm</td>
<td>20mm</td>
<td>25mm</td>
<td>30mm</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Curved Width</th>
<th>OR7904-20</th>
<th>OR7906-20</th>
<th>OR7908-20</th>
<th>OR7910-20</th>
<th>OR7912-20</th>
<th>OR7915-20</th>
<th>OR7920-20</th>
<th>OR7925-20</th>
<th>OR7930-20</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>4mm</td>
<td>6mm</td>
<td>8mm</td>
<td>10mm</td>
<td>12mm</td>
<td>15mm</td>
<td>20mm</td>
<td>25mm</td>
<td>30mm</td>
</tr>
</tbody>
</table>

Smith Petersen Osteotome

- 20cm/8” length

<table>
<thead>
<tr>
<th>Width</th>
<th>OR7610-20</th>
<th>OR7615-20</th>
<th>OR7620-20</th>
<th>OR7625-20</th>
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</thead>
<tbody>
<tr>
<td>Width</td>
<td>10mm</td>
<td>15mm</td>
<td>20mm</td>
<td>25mm</td>
<td>30mm</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>
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<tbody>
<tr>
<td>OR5250-02</td>
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<tr>
<td>OR5250-04</td>
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<td>OR5250-08</td>
<td>8mm</td>
</tr>
<tr>
<td>OR5250-10</td>
<td>10mm</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>OR7207-22</td>
<td>7mm</td>
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<tr>
<td>OR7210-22</td>
<td>10mm</td>
</tr>
<tr>
<td>OR7215-22</td>
<td>15mm</td>
</tr>
<tr>
<td>OR7220-22</td>
<td>20mm</td>
</tr>
<tr>
<td>OR7225-22</td>
<td>25mm</td>
</tr>
</tbody>
</table>

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

5mm
10mm
15mm
20mm
25mm
30mm

Straight Width

<table>
<thead>
<tr>
<th>Width</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>OR7105-30</td>
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<td>OR7110-30</td>
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<td>OR7115-30</td>
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<td>OR7120-30</td>
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<td>OR7125-30</td>
<td>25mm</td>
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<tr>
<td>OR7130-30</td>
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Angled Width

<table>
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<tbody>
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<tr>
<td>OR7310-30</td>
<td>10mm</td>
</tr>
<tr>
<td>OR7315-30</td>
<td>15mm</td>
</tr>
<tr>
<td>OR7320-30</td>
<td>20mm</td>
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<tr>
<td>OR7325-30</td>
<td>25mm</td>
</tr>
<tr>
<td>OR7330-30</td>
<td>30mm</td>
</tr>
</tbody>
</table>
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
- 15mm width
- 20mm width

Chisel with Interchangeable Blades
- 20cm/8" length
- Tufnol handle
- Very thin blades
- Complete set with 4 blades* & key

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

Blade Width
- OR0792-05  5mm*
- OR0793-08  8mm
- OR0793-10  10mm*
- OR0793-12  12mm
- OR0794-15  15mm*
- OR0795-25  25mm*

Width
- OR6506-23  6mm
- OR6508-23  8mm
- OR6511-23  11mm
- OR6516-23  16mm
Bone Curettes

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

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

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

<table>
<thead>
<tr>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small cup 9mm Ø</td>
<td>OR8411-27</td>
</tr>
<tr>
<td>Medium cup 13mm Ø*</td>
<td>OR8412-27</td>
</tr>
<tr>
<td>Large cup 27mm Ø</td>
<td>OR8413-27</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Size</th>
<th>Code</th>
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<tbody>
<tr>
<td>Small cup 14mm Ø</td>
<td>OR8421-37</td>
</tr>
<tr>
<td>Medium cup 17mm Ø</td>
<td>OR8422-37</td>
</tr>
<tr>
<td>Large cup 22mm Ø*</td>
<td>OR8423-37</td>
</tr>
</tbody>
</table>

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

OR8430-37
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

OR6508-32
OR6525-28
SP6509-34
SP6511-34
OR6109-35
HIP REVISION INSTRUMENTS

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

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

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

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

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

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

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

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

*illustrated
HIP REVISION INSTRUMENTS

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

<table>
<thead>
<tr>
<th>Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>OR6105-40</td>
</tr>
<tr>
<td>OR6107-40</td>
</tr>
<tr>
<td>OR6110-40</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>OR6205-40</td>
</tr>
<tr>
<td>OR6207-40</td>
</tr>
<tr>
<td>OR6210-40</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>OR6505-40</td>
</tr>
<tr>
<td>OR6507-40</td>
</tr>
<tr>
<td>OR6510-40</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Width</th>
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<tbody>
<tr>
<td>OR6605-40</td>
</tr>
<tr>
<td>OR6607-40</td>
</tr>
<tr>
<td>OR6610-40</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

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

Cement Extraction Hook
- 34.5cm/14” length
HIP REVISION INSTRUMENTS

Cement Twist Drill Long
- 40cm/15 3/4" length

<table>
<thead>
<tr>
<th>Diameter</th>
<th>OR1400-06</th>
<th>OR1400-08</th>
<th>OR1400-10</th>
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<tbody>
<tr>
<td></td>
<td>6mm</td>
<td>8mm</td>
<td>10mm</td>
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</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/9 ¾" length
- Angled blades

SP6914-20
SP6916-23
SP6995-21
SP6910-25
HIP JOINT INSTRUMENTS

**McGoey Bone Punch**
- Double ended

* illustrated

- No 1. 13mm x 19mm Ø OR6913-19 Large size
- No 2. 6mm x 10mm Ø OR6906-10 *Small size
- No 3. 6mm x 13mm Ø With flats OR6906-13

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

SP6918-20

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

OR6920-33

**Femoral Pusher**
- Square ended

OR6925-20
PLIERS & WIRE CUTTERS

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

OR7640-15

Slim & Square Ended Wire Pliers
- 19cm/7½" length

Slim Nose
OR7645-19
Serrated jaw

Square Ended*
SP7644-19

*illustrated

Pliers for Screw Removal
- 20cm/8" length

OR5701-20

Muller Claus Wire Pullers
- 18cm/7" length
- Double action
- Tungsten jaws

2mm Jaws
8-818E18

4mm Jaws
8-820E18

6mm Jaws
8-821E18
PLIERS & WIRE CUTTERS

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/8½” 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

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

Take apart arms for easier sterilisation
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

OR7644-24

OR7645-20

200-512-185
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>
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</thead>
<tbody>
<tr>
<td>200-514-220</td>
<td>22cm/8¾&quot; Small</td>
</tr>
<tr>
<td>200-515-250</td>
<td>25cm/9¾&quot; Medium</td>
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<tr>
<td>200-516-300</td>
<td>30cm/11¾&quot; Large</td>
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</table>

Slap Hammer attachment combined

<table>
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<th>Length</th>
<th>Weight</th>
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<tbody>
<tr>
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<td>35cm/13¾&quot;</td>
<td>400g</td>
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<tr>
<td>210-700-350</td>
<td>35cm/13¾&quot;</td>
<td>700g</td>
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</table>

Orthopaedic Locking Pliers

- Hardened jaws

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

Kirschner Wire Introducing T-Handle
- 12cm/4 ¼” length
- 1.5mm Ø wires

OR5015-12

Steinmann Pin Introducer T-Handle
- 14cm/5½” length
- 0.5mm - 8mm Ø pins
- With Jacobs chuck & key

OR5502-14

Steinmann Pin Introducer T-Handle
- 14cm/5½” length
- 0.7mm - 6mm Ø pins
- Universal chuck

OR5507-14
Bone Mill
- Table mounted with crank handle
- With removable cutting drum

For gridding bone chips used for bone graft procedures.

Wire Passing Guide
- 21cm/8¼" length

Used for passing wire around bones.

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</td>
</tr>
<tr>
<td>OR5602-13</td>
<td>2.4mm</td>
</tr>
<tr>
<td>OR5602-14</td>
<td>2.8mm</td>
</tr>
<tr>
<td>OR5602-15</td>
<td>3.2mm</td>
</tr>
<tr>
<td>OR5602-16</td>
<td>3.6mm</td>
</tr>
<tr>
<td>OR5602-17</td>
<td>4.0mm</td>
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</tbody>
</table>

Cutting Drum Sizes
- 3mm Ø hole bore
- 4mm Ø hole bore
- 5mm Ø hole bore

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.

Bone Awl
Straight with eye

Diameter | Length |
----------|--------|
OR5602-12 | 2.0mm | 125mm |
OR5602-13 | 2.4mm | 130mm |
OR5602-14 | 2.8mm | 145mm |
OR5602-15 | 3.2mm | 160mm |
OR5602-16 | 3.6mm | 165mm |
OR5602-17 | 4.0mm | 175mm |

Cutting Drum Sizes
- 3mm Ø hole bore
- 4mm Ø hole bore
- 5mm Ø hole bore
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

2.5mm Hex
For 2.7mm to 3.5mm screws
OR7017-25

3.5mm Hex
For 4.5mm to 6.5mm screws
OR7018-25

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>
</tr>
</tbody>
</table>
**DISSECTORS**

- **Howarth Elevator**
  - 21.5cm/8½" length
  - OR9207-21

- **MacDonald Elevator/Dissector**
  - Size
    - HA7105-19 19cm/7 ½"
    - OR9206-23 23cm/9"

- **Watson Cheyne Dissector**
  - Length
    - HA7203-18 18cm/7"
    - OR9203-23 23cm/9"
    - OR9203-25 25.5cm/10"

- **Freers Elevator/Dissector**
  - 18.5cm/7¼" length
  - OR7602-18

- **Swedish Dissector**
  - 18cm/7" length
  - OR9201-18
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

OR7334-20

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

OR7338-00

Depth Gauge
- Measuring depth up to 50mm

OR7350-00

Depth Gauge
- Measuring depth up to 70mm

OR7370-00

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

OR7333-10
**ARTHROSCOPY PUNCHES**

**Slimline Basket Punch**
- Narrow compact jaw design

<table>
<thead>
<tr>
<th>Jaws</th>
<th>Width</th>
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</thead>
<tbody>
<tr>
<td>225-800-002</td>
<td>1.7mm</td>
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<tr>
<td>225-800-005</td>
<td>1.7mm</td>
</tr>
<tr>
<td>225-800-011</td>
<td>1.7mm</td>
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</tbody>
</table>

- Straight Tip & Shaft
- Upwards Angled Tip
- Upwards Angled Shaft

**Regular Basket Punch**

<table>
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<th>Jaws</th>
<th>Width</th>
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</thead>
<tbody>
<tr>
<td>225-800-050</td>
<td>3.4mm</td>
</tr>
<tr>
<td>225-800-055</td>
<td>1.5mm</td>
</tr>
</tbody>
</table>

- Straight Tip & Shaft
- Upwards Angled Tip
**Duckbill Basket Punch**

- Multi purpose low profile punch with square bite

<table>
<thead>
<tr>
<th>Jaws</th>
<th>Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>225-800-102 Straight</td>
<td>3.2mm</td>
</tr>
<tr>
<td>225-800-105 Up biter</td>
<td>3.2mm</td>
</tr>
<tr>
<td>225-800-107 Up biter left</td>
<td>3.2mm</td>
</tr>
<tr>
<td>225-800-109 Up biter right</td>
<td>3.2mm</td>
</tr>
</tbody>
</table>

**Duckling Basket Punch**

<table>
<thead>
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<th>Jaws</th>
<th>Width</th>
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</thead>
<tbody>
<tr>
<td>225-800-402 Straight</td>
<td>3.2mm</td>
</tr>
<tr>
<td>225-800-405 Up biter</td>
<td>3.2mm</td>
</tr>
<tr>
<td>225-800-411 Up curved shaft</td>
<td>3.2mm</td>
</tr>
<tr>
<td>225-800-413 Left curved shaft</td>
<td>3.2mm</td>
</tr>
<tr>
<td>225-800-415 Right curved shaft</td>
<td>3.2mm</td>
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</tbody>
</table>

**Profile Duckbill jaws**

**Straight Tip & Shaft**

**Upwards Angled Tip**

**Curved in Shaft**

**Low profile duckling jaws**

**Straight Tip & Shaft**

**Upwards Angled Tip**

**Upwards Angled Shaft**

**Curved in Shaft**
**ARTHROSCOPY PUNCHES**

**Scissor Punch**
- Extremely slim jaws

<table>
<thead>
<tr>
<th>Jaws</th>
<th>Width</th>
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<tbody>
<tr>
<td>225-800-532 Straight</td>
<td>1mm</td>
</tr>
<tr>
<td>225-800-535 Up biter in jaw</td>
<td>1mm</td>
</tr>
</tbody>
</table>

![Scissor Punch](image)

**Biopsy Rongeur**
- Cupped jaw design

**Biopsy Ronguer Forceps**
- 225-800-920

![Biopsy Ronguer Forceps](image)
**ARTHROSCOPY PUNCHES**

**Hook Scissors**
- Hook Scissors straight
  - 225-800-472

**Oval Punch**
- Low profile large oval bite

<table>
<thead>
<tr>
<th>Jaws</th>
<th>Width</th>
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</thead>
<tbody>
<tr>
<td>225-800-202</td>
<td>4.4mm</td>
</tr>
<tr>
<td>225-800-205</td>
<td>4.4mm</td>
</tr>
<tr>
<td>225-800-211</td>
<td>4.4mm</td>
</tr>
<tr>
<td>225-800-213</td>
<td>4.4mm</td>
</tr>
<tr>
<td>225-800-215</td>
<td>4.4mm</td>
</tr>
</tbody>
</table>

- Straight Tip & Shaft
- Upwards Angled Tip
- Upwards Angled Shaft
- Curved in Shaft
**Back Biter Punches**

- **Left cutting**
  - 225-800-707
  - Straight shaft

- **Right cutting**
  - 225-800-709
  - Straight shaft

**Scoop Basket Punch**

- Short blunt nose

<table>
<thead>
<tr>
<th>Jaws</th>
<th>Width</th>
<th>Tip &amp; Shaft</th>
</tr>
</thead>
<tbody>
<tr>
<td>225-800-802</td>
<td>Straight</td>
<td>1mm Straight Tip &amp; Shaft</td>
</tr>
<tr>
<td>225-800-813</td>
<td>Shaft curved left</td>
<td>1.3mm Curved in Shaft</td>
</tr>
<tr>
<td>225-800-815</td>
<td>Shaft curved right</td>
<td>1.3mm Curved in Shaft</td>
</tr>
</tbody>
</table>
Grasping Forceps

- With slide lock

Shark Grasping Forceps
- 225-800-820
- 1x2 interlocking teeth

Aligator Grasping Forceps
- 225-800-825
- Multiple backward teeth

Cupped Grasper
- 225-800-833
- Cupped serrated jaw 3.3mm

Heavy Aligator Grasping Forceps
- 225-800-835
- Larger jaw with multiple teeth

Plastic Sterilising Container

- For 8 Arthroscopy instruments

- 600-513-000
Stryker Compatible Arthroscope 4mm Ø
- 140mm working length
- 30° angle of view

High Flow Operating Sheath 6mm Ø
- Stryker locking mechanism
- 2 rotating stopcocks

Blunt Obturator 6mm Ø

Semi-Sharp Obturator 6mm Ø
Dyonics™ Compatible Arthroscope 4mm Ø
- 155mm working length
- 30° angle of view

High Flow Operating Sheath 6mm Ø
- Stryker locking mechanism
- 2 rotating stopcocks

Blunt Obturator 6mm Ø

Sharp Obturator 6mm Ø
Arthroscope 4mm Ø
- 175mm working length
- 30° angle of view

225-140-030

High Flow Operating Sheath 6mm Ø
- 2 stopcocks

225-500-260

Blunt Obturator 6mm Ø

225-500-560

Sharp Obturator 6mm Ø

225-500-660
FIBRE OPTIC LIGHT LEAD

Fibre Optic Light Lead

<table>
<thead>
<tr>
<th>Code</th>
<th>Length</th>
<th>Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>250-035-180</td>
<td>1800mm</td>
<td>3.5mm Ø</td>
</tr>
<tr>
<td>250-035-230</td>
<td>2300mm</td>
<td>3.5mm Ø</td>
</tr>
<tr>
<td>250-035-300</td>
<td>3000mm</td>
<td>3.5mm Ø</td>
</tr>
<tr>
<td>250-048-180</td>
<td>1800mm</td>
<td>4.8mm Ø</td>
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<tr>
<td>250-048-230</td>
<td>2300mm</td>
<td>4.8mm Ø</td>
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<tr>
<td>250-048-300</td>
<td>3000mm</td>
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Adaptors for Light Lead

<table>
<thead>
<tr>
<th>Lightsource Fittings</th>
<th>Retractor Fitting</th>
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<tbody>
<tr>
<td>Wolf 250-037-000</td>
<td>Mercian/Storz 250-039-000</td>
</tr>
<tr>
<td>ACMI British Standard 250-038-000</td>
<td>250-042-000</td>
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<tr>
<td>Olympus 250-044-000</td>
<td>250-045-000</td>
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</table>
**Round Fitting Twist Drill**

Stainless Steel
supplied Sterile in boxes of 10

<table>
<thead>
<tr>
<th>Code</th>
<th>Diameter</th>
<th>Length</th>
<th>Flute</th>
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<tbody>
<tr>
<td>OR1045-11</td>
<td>1.1mm Ø</td>
<td>45mm</td>
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<tr>
<td>OR1070-15</td>
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<td>70mm</td>
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<tr>
<td>OR1085-20</td>
<td>2.0mm Ø</td>
<td>85mm</td>
<td>38mm</td>
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<tr>
<td>OR1095-25</td>
<td>2.5mm Ø</td>
<td>95mm</td>
<td>43mm</td>
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<tr>
<td>OR1085-27</td>
<td>2.7mm Ø</td>
<td>85mm</td>
<td>32mm</td>
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<tr>
<td>OR1130-32</td>
<td>3.2mm Ø</td>
<td>130mm</td>
<td>40mm</td>
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<tr>
<td>OR1095-35</td>
<td>3.5mm Ø</td>
<td>95mm</td>
<td>42mm</td>
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<tr>
<td>OR1130-45</td>
<td>4.5mm Ø</td>
<td>130mm</td>
<td>55mm</td>
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**AO Fitting Twist Drill**

Stainless Steel
supplied Sterile in boxes of 10

<table>
<thead>
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<tbody>
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<td>OR2085-15</td>
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<td>OR2100-20</td>
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<td>OR2110-25</td>
<td>2.5mm Ø</td>
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<td>OR2100-27</td>
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<tr>
<td>OR2150-27</td>
<td>2.7mm Ø</td>
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<td>50mm</td>
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<tr>
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<td>OR2195-45</td>
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<td>50mm</td>
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</table>
## KIRSCHNER WIRES

- Supplied sterile in boxes of 10
- Stainless Steel

### Single Ended

<table>
<thead>
<tr>
<th>Diameter (mm)</th>
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<th>4&quot;/100mm</th>
<th>5&quot;/125mm</th>
<th>6&quot;/150mm</th>
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<tbody>
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<tr>
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<tr>
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<td>KW6150-22</td>
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### Double Ended

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<th>6&quot;/150mm</th>
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</thead>
<tbody>
<tr>
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<td>KW7150-08</td>
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<tr>
<td>Ø 1.0mm</td>
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<td>KW7125-10</td>
<td>KW7150-10</td>
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<td>KW7125-12</td>
<td>KW7150-12</td>
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<tr>
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<td>KW7150-15</td>
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<tr>
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<tr>
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<tr>
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<tr>
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<td>KW7100-22</td>
<td>KW7125-22</td>
<td>KW7150-22</td>
</tr>
</tbody>
</table>
OPERATING CHAIRS

The Severn Surgeons Operating Stool with Back Rest
Suitable for all types of surgery

- Comfortable Surgeons seat
- Adjustable back rest
- 5 anti-static castors
- Height adjustment with foot plate height range 55cm to 78cm

222.167

The Severn Surgeons Urology Operating Stool with Back Rest

- Lower height range 48cm to 67cm

222.157

The Avon Surgeons Operating Stool without Back Rest
Suitable for all types of surgery

- Comfortable Surgeons seat
- 5 anti-static castors
- Hydraulic height adjustment with foot plate, range 55cm to 78cm

222.165

The Avon Surgeons Urology Operating Stool with Back Rest

- Lower height range 48cm to 67cm

222.155
**OPERATING CHAIRS**

**Coburg Micro Surgery Stool**
Suitable for all types of micro surgery including: Neuro Surgery, Ophthalmic Surgery & ENT Surgery.

- Adjustable Arm Rest
- Arm rests with swivel ball joints, detachable and autoclavable
- Hydraulic height adjustment with foot pump
- Adjustable back rest
- Foot brake to give stability
- Comfortable Surgeons seat, either round or saddle shaped
- 5 anti-static castors
- Height range 61cm to 76cm

**Coburg Stool**
Suitable for all types of micro surgery including: Neuro Surgery, Ophthalmic Surgery & ENT Surgery.

- Hydraulic height adjustment with foot pump
- Adjustable back rest
- Foot brake to give stability
- Comfortable Surgeons seat, either round or saddle shaped
- 5 anti-static castors
- Height range 61cm to 76cm

Available with round seat
SHOULDER SURGERY INSTRUMENTS

International Instruments
Designers & Manufacturers of Surgical Instruments
**BONE TUNNELLING & SUTURE PASSING**

**Penetrating Bone Gouge**
- 22cm/8 3/4” length
- 3mm wide tip

[Image: Penetrating Bone Gouge]

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

[Image: Percussion Bone Awl]

**Penetrating Bone Awl**
- 18cm/7” length
- Tufnol handle

[Image: Penetrating Bone Awl]

**Crochet Hook Suture Passer**
- 18cm/7” length
- Tufnol handle

[Image: Crochet Hook Suture Passer]

**Suture Passer**
- 18/7”cm length
- Tufnol handle
- With hole in tip

[Image: Suture Passer]

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 3/4" length
- Light curve
SM1858-17
For perforating holes in the Glenoid Rim.

Glenoid Perforating Forceps Strong Curve
- 17cm/6 3/4" 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

<table>
<thead>
<tr>
<th>Width tip</th>
<th>SM0575-08</th>
<th>SM0575-12</th>
<th>SM0575-20</th>
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<tbody>
<tr>
<td></td>
<td>8mm</td>
<td>12mm</td>
<td>20mm</td>
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</table>
HUMERAL HEAD RETRACTORS

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

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

Bhattman Humerus Head Retractor
- 25cm/9 1/4” length
- 30mm width
- Double prong
ELEVATORS

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

Darrach Acromial Elevators

width
SM0594-32 32mm
SM0594-22 35mm*
SM0594-37 37mm

SM0599-09
Small 9mm width, 26cm/10 1/4" length
SM0599-12
Medium 12mm width, 26cm/10 1/4" length
SM0599-16
Large 16mm width, 26cm/10 1/4" length*
SM0599-25
Extra Large 25mm width, 36cm/14 3/4" length

Set of 4 Elevators SM0599-00
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

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

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

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

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

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

Richardson Retractor
- 20mm width
- 24cm/9 1/2 length

SM2054-20

Richardson Retractor
- 28mm width
- 24cm/9 1/2 length

SM2053-28

Kolbel Tenectomy Ronguer
- 18cm/7" length
- Jaws 3mm bite
- Strong curved

SM1258-19

Kolbel Bone Nibblers
- 18cm/7" length
- Jaws 5mm bite
- Light curved

SM1256-19

Mallet
- 24cm/9 1/2 length
- Tufnol handle
- 480 grams

SM0900-24

Chisel with 4 Interchangeable Blades
- 20cm/8" length
- Tufnol handle
- Complete with blade sizes:
  5mm, 10mm, 15mm, 25mm & key

SM0790-20
**Smart Hooks**

- For Rotator Cuff Repair
- Tip design reduces tissue trauma

The Smart Hooks are designed for suture passing and retrieving during rotator cuff surgery. The instruments tip design reduces tissue trauma whilst security holding and passing the suture. The sharp curved tip of the instrument is designed to pierce the labrum or rotator cuff muscle and tendons with the suture allowing repair and securing of the rotator cuff muscle to the Glenoid.

**Arthroscope**

- Autoclavable 134˚C
- 30˚ angle of view
- Working length 175mm

**Forward Oblique Telescope**

- Storz / Olympus Adapter
- Wolf Adapter
- ACMI Adapter

- 30˚ angle of view
- Working length 175mm

- 225-127-030  2.7mm Ø
- 225-140-030  4mm Ø
Operating Sheath with 2 stopcocks
- 5.5mm diameter
- Blue colour code
- For use with 4mm Ø telescope

Operating Sheath with 1 stopcock
- 5.5mm diameter
- Blue colour code
- For use with 4mm Ø telescope

Blunt Obturator
- For Operating Sheath 5.5mm diameter

Sharp Obturator
- For Operating Sheath 5.5mm diameter