General Shoulder Instruments.
Retractors and spreaders for use in shoulder surgery.

Facilitate approach in shoulder surgery
Retract soft tissue for optimal humeral head and glenoid exposure
Introduction

In shoulder surgery, the approach is of primary importance. The challenge arises from the regional complexity of anatomical structures and layers, which impede wide access to bony structures. Therefore, special surgical strategies are necessary for preservation of soft tissue and careful exposure.

Various dedicated shoulder instruments are now available to facilitate deltoid retraction, and humeral head and glenoid exposure, while assisting in preserving the soft tissue during surgery.
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Deltoid retraction

- For gentle retraction of the deltoid muscle in order to expose the proximal humerus.
- For subscapularis retraction in order to expose the anterior glenoid rim.
- For gentle, superior retraction of the deltoid muscle. Levered against the acromion, the pointed tip slides under the deltoid to expose the sub-acromial space.
- For stable deltoid retraction. The ring engages the greater tuberosity, thus preventing distal slippage of the retractor.
Humeral head exposure

- For moderate, posterior humeral retraction in order to release the anterior capsule, inferior capsule, the subscapularis and to expose the axillary nerve. Very distal angulation provides a better working space.

- For exposing the humeral head, i.e.: in order to obtain anterior dislocation of the humeral head. This retractor functions similar to a shoehorn.

Ring Retractor

Ring Retractor, narrow

Bone Retractor, humeral head

Very distal angulation

Pointed tip
**General Shoulder Instruments.**
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**Glenoid exposure**

- For lateral retraction of the humeral head in order to gain access to the posterior capsule.
- For distal retraction of the humerus in order to gain access to the subacromial space.
- For posterior retraction of the humerus in order to gain access to the subacromial space.

**Shoulder Spreader, left bend**

**Shoulder Spreader, right bend**

**Teeth and ring opening for optimal grip**
Ring Retractor, drop-shaped

Ring Retractor, drop-shaped, narrow

Delta Retractor

- For orthogonal glenoid exposure. Slight distal angulation provides better retraction of the humeral head. The drop shape creates a comfortable working space for the reamer.

Drop shape for additional reamer guidance

Slight distal angulation

Blunt tip
General Shoulder Instruments.
Retractors and spreaders for use in shoulder surgery.

Ordering Information

<table>
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<tr>
<th>Sets</th>
<th>Description</th>
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<tr>
<td>01.401.039</td>
<td>General Shoulder Instruments Set</td>
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<tr>
<td>68.401.039</td>
<td>Vario Case for General Shoulder Instruments</td>
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<td>689.507</td>
<td>Lid, size 1/1, for Vario Case</td>
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<tr>
<td>03.401.040</td>
<td>Delta Retractor</td>
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<td>03.401.041</td>
<td>Delta Retractor, pointed</td>
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<td>03.401.042</td>
<td>Bone Retractor, Humeral Head</td>
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<td>Shoulder Spreader, left bend</td>
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<td>Shoulder Spreader, right bend</td>
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