HANDS ON
DEMONSTRATION
& SURGICAL
SKILLS MODELS

VETERINARY
Products Catalog

Expert models and skills
development systems for
demonstration and training
Sawbones veterinary products are ideal for practicing, enhancing and refining surgical skills. We can provide models for education, as well as for workshop, demonstration and display.

OUR DIFFERENT CATEGORIES:

• Canine
• Feline
• Equine

HERE IS AN IDEA OF WHAT WE CAN DO:

• Models can be fractured or deformed at your request.
• We can make our bones softer or harder by modifying their density.
• Soft tissue can be added.
• New product designs can be manufactured from your CAD files.
  Most of our products can be scanned.
• Workshop bones can be converted into radiopaque.
• We have biomechanical products and materials for testing and validation.
• Transport cases can be provided for most models and instruments.
• We offer a large variety of display options:
  - Customized stands
  - Customized holders
  - Company logos
• Most of our bones and holders can be customized in your company colors.
**SOLID FOAM**
- Workshop bone
- Rigid foam throughout
Most commonly used for external fixation

**FOAM CORTICAL SHELL**
- Workshop bone
- Rigid foam cortical wall with inner cancellous material in proximal and distal ends
Most commonly used for:
  - Total joint replacement
  - Internal fixation

**SOLID CLEAR**
- Demonstration bone
- Clear plastic
- Very durable
Most commonly used for product display of implants

**ARTHROSCOPY**
- Simulators
- Replaceable inserts for repeated usage
- Used for practicing diagnostic and operative arthroscopy techniques

**SOFT TISSUE**
- Permanent or replaceable soft tissue envelope
- Flexible
- With or without skin
- With or without bones
- With or without fractured bones
- Casting techniques

**EDUCATIONAL MATERIAL/ACCESSORIES**
- Demonstration models
- Charts
- Clamps

*Can be converted into the radiopaque option for better imaging in x-ray and fluoroscopy.*
TOY BREED

The latest addition to our canine range is toy breed models. All bones are size small.

#2002-28-1 — Radius, right, with distal transverse fracture. Solid foam.

#2002-28 — Radius, right. Solid foam.

#2002-29 — Radius/ulna, right. Solid foam.

#2004-23 — Ulna, right. Solid foam.

#2307-6 — Hemi pelvis, right. No Block. Solid foam.

#2522-1 — Hemi pelvis and femur articulated with latex bands, right. Solid foam.

#2121-43 — Femur, right. Solid foam.

#2117-40 — Tibia, right, with canal and plug. Length 12.5 cm. Can be used for TPLO procedures. Solid foam.
#2411 — Full skull with mandible, sinus and brain cavity. Solid foam.

#2411-2 — Full skull with sinus and brain cavity with comminuted fracture of rostral quadrant and mandle fracture on both sides. With full Mandible. Solid foam.

#2335 — Mandible, left and right. Solid foam.

#2335-1 — Mandible, left portion. Solid foam.

#2335-2 — Mandible, right portion. Solid foam.

#2335-3 — Mandible, left and right halves. With 1.59 mm holes between teeth at gum line with a fracture on each side between the 3rd and 4th premolars. Solid foam.

#2324 — Lumbar, T13-sacrum. Solid foam. With vise attachment.

#2324-2 — Lumbar, T13-sacrum. Solid foam.

#2324-3 — Lumbar, T13-pelvis. Solid foam.

#2324-1 — Individual vertebra, T13–L7 or C1–C7. Specify level when ordering. Solid foam.

#2326 — Cervical, C1–C7. Solid foam.

#2501 — Lumbar, T13-sacrum. No fractures. Encased in soft tissue.

#2501-2 — Canine spine, T3-sacrum. Solid foam in soft tissue with skin and with conduvtive feedback.

Most of our canine bones are replicas of a 80 lb/36 kg DOBERMAN.
#2301 — Full pelvis with sacrum. Solid foam.

#2304 — Hemi pelvis, left, with vise attachment. Solid foam.

#2307 — Hemi pelvis, right, with vise attachment. Solid foam.

#2307-1 — Hemi pelvis, right. Solid foam.

#2307-2 — Hemi pelvis, right, with femur. With diaphyseal/metaphyseal fracture. With vise attachment. Solid foam.

#2307-4 — Hemi pelvis, right, with acetabular fracture and transverse fracture of the ilium. Solid foam.

#2308 — Hemi pelvis, right, with severe dysplasia. With vise attachment. Solid foam.

#2308-1 — Hemi pelvis, right. With severe dysplasia. Solid foam.

MODELS CAN BE FRACTURED OR DEFORMED TO YOUR SPECIFICATIONS UPON REQUEST.
### FEMUR

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>#1701-170</td>
<td>Femur, left, no canal. Solid clear.</td>
</tr>
<tr>
<td>#2106</td>
<td>Femur, large, left, with vise attachment. Foam cortical shell.</td>
</tr>
<tr>
<td>#2121</td>
<td>Femur, left, with vise attachment. Foam cortical shell.</td>
</tr>
<tr>
<td>#2121-5</td>
<td>Femur, left. No block with floral foam in core. Foam cortical shell.</td>
</tr>
<tr>
<td>#2121-6</td>
<td>Femur, left. No canal. Solid Foam.</td>
</tr>
<tr>
<td>#2121-18</td>
<td>Femur, right. Hollow canal. Foam cortical shell.</td>
</tr>
<tr>
<td>#2121-19</td>
<td>Femur, right, with white floral foam in core. Foam cortical shell.</td>
</tr>
<tr>
<td>#2121-20</td>
<td>Femur, right, with vise attachment. Foam cortical shell.</td>
</tr>
</tbody>
</table>

### FEMUR - PATHOLOGY

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>#2104</td>
<td>Femur, left. Malunion. Foam cortical shell.</td>
</tr>
<tr>
<td>#2121-21</td>
<td>Femur, right. Severe dysplasia. With vise attachment. Foam cortical shell.</td>
</tr>
<tr>
<td>#2121-29</td>
<td>Femur, right. Severe dysplasia. Foam cortical shell.</td>
</tr>
</tbody>
</table>

### FEMUR - FRACTURED

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>#2103-25</td>
<td>Femur, right, with trochanteric major and lateral condylar fractures. With vise attachment. Foam cortical shell.</td>
</tr>
<tr>
<td>#2106-2-1</td>
<td>Femur, right, with lateral butterfly and transverse shaft fractures. With hollow canal. With vise attachment. Solid foam.</td>
</tr>
<tr>
<td>#2121-1</td>
<td>Femur, left, with midshaft short oblique fracture. With vise attachment. Foam cortical shell.</td>
</tr>
</tbody>
</table>
#2121-2 — Femur, left, with vise attachment on proximal medial surface and 3 part mid diaphyseal fracture. Foam cortical shell.

#2121-3 — Femur, left, with short oblique fracture. With vise attachment. Foam cortical shell.

#2121-23 — Femur, right, with midshaft transverse and greater trochanteric fractures. Foam cortical shell.

#2121-24 — Femur, right, with short oblique fracture about 3 cm long from cranial to caudal. With vise attachment. Foam cortical shell.

#2121-25 — Femur, right, with midshaft transverse fracture. With vise attachment. Foam cortical shell.

#2121-26 — Femur, right, with distal salter epiphysis and greater trochanteric fracture. With vise attachment. Foam cortical shell.

#2121-30 — Femur, left, with midshaft short oblique fracture. Foam cortical shell.

#2121-31 — Femur, right, with long oblique fracture. With vise attachment. Foam cortical shell.

#2121-31-1 — Femur, left, with spiral fracture. Foam cortical shell.

#2121-32 — Femur, right, with midshaft transverse fracture. Foam cortical shell.

#2121-36 — Femur, left, with greater trochanteric fracture. Foam cortical shell.

#2121-38 — Femur, right, with long oblique and comminuted fractures. Foam cortical shell.
KNEE

#2107 — Knee, right, with vise attachment. Foam cortical shell femur and tibia. Solid foam patella and fibula.

#2107-2 — Knee, right, with patella and fibula. Foam cortical shell.

#2107-3 — Knee, right, with patella. Without fibula. Foam cortical shell.

#2107-4 — Knee, right, with patella. Without fibula. For TPLO procedures. Foam cortical shell.

#2107-9 — Knee, includes distal femur and proximal tibia/fibula with ligaments. Hard plastic.

#2119 — Patella, left. Solid foam.

#2119-20 — Patella, right. Solid foam.

KNEE - PATHOLOGY

#2107-5 — Knee, right, with stifle malunion, distal femoral varus, proximal tibial valgus, medial displacement of the tibial tuberosity and medial patella luxation. Solid foam.

#2107-7 — Knee, right, with 15° varus deformity of distal femur and patella luxation. With MCL, LCL and PCL. Foam cortical shell. Solid foam fibula.

MODELS CAN BE FRACTURED OR DEFORMED TO YOUR SPECIFICATIONS UPON REQUEST
FOOT / ANKLE

#2201 — Talus/calcaneus, left. For left canine hindfoot. Solid foam.

#2202 — Forefoot, rear left. For canine hindfoot. Solid foam.

#2203 — Foot, rear left. Solid foam.

#2203-1 — Ankle, rear left, with tibia, fibula, talus, calcaneus and forefoot. Solid foam.

TIBIA

#2108 — Tibia, right. Solid foam.

#2117 — Tibia, left, with vise attachment. Foam cortical shell.

#2117-2 — Tibia, left. Foam cortical shell.

#2117-3 — Tibia, left. No canal. Solid foam.

#2117-19 — Tibia, right. Foam cortical shell.

#2117-20 — Tibia, right, with vise attachment. Foam cortical shell.

#2117-29 — Tibia, right. No canal. Solid foam.

#2117-34 — Tibia, x-large right, with vise attachment. Solid foam.

TIBIA /FIBULA

#2117-1 — Tibia/fibula, left. Foam cortical shell tibia. Solid foam fibula.

#2117-7 — Tibia/fibula, left. Solid foam.

#2117-18 — Tibia/fibula, right. Foam cortical shell tibia. Solid foam fibula.

#2118 — Fibula, left. Solid foam.

#2118-20 — Fibula, right. Solid foam.

Most of our canine bones are replicas of a 80 lb/36 kg DOBERMAN.
Tibia Fractured

#2117-5 — Tibia, left, with midshaft transverse fracture. With vise attachment. Foam cortical shell.

#2117-6 — Tibia, left, with long spiral and medial malleolar fractures. With vise attachment. Foam cortical shell.

#2117-8 — Tibia, left, with long midshaft spiral fracture. Foam cortical shell.

#2117-9 — Tibia, right, with midshaft butterfly fracture. Foam cortical shell.

#2117-19-1 — Tibia, right, with distal oblique fracture. Foam cortical shell.

#2117-22 — Tibia, right, with long oblique midshaft fracture. With vise attachment. Foam cortical shell.

#2117-22-1 — Tibia, right, with long oblique midshaft fracture. Foam cortical shell.

#2117-23 — Tibia, right, with short oblique midshaft fracture. With vise attachment. Foam cortical shell.

#2117-25 — Tibia, right, with transverse midshaft fracture. With vise attachment. Foam cortical shell.

#2117-25-1 — Tibia, right, with cancellous with transverse midshaft. Foam cortical shell.

#2117-27 — Tibia, right, with midshaft butterfly fracture. Solid foam.

#2117-33 — Tibia, right. Foam cortical shell with proximal core wrapped with coban.
TIBIA PATHOLOGY

#2117-40 — Tibia, right, toy breed, with canal and plug. For TPLO procedures. Solid Foam.

FORELIMB

#2022 — Forelimb, right, with scapula, humerus, ulna and radius articulated with ligaments and muscles.

#2024-20 — Elbow right, with humerus, radius and ulna articulated with ligaments. Foam cortical shell.

#2024-21 — Elbow, right. Solid foam.

#2025-1 — Forelimb, right, with articulating carpus and metacarpals and articulating ulna and radius. Solid foam.

FORELIMB PATHOLOGY

#2024-1 — Forelimb, left, with 20° valgus radius, ulna, carpus and distal humerus. Solid foam.

#2024-2 — Forelimb, left, with 20° valgus and 20° procurvatum of the radius, ulna, carpus and distal humerus. Solid foam.

RADIUS/ULNA

#2002 — Radius, left, with canal. Solid foam.

#2002-20 — Radius, right, with canal. Solid foam.

#2002-25 — Radius/ulna, right. Solid foam.

#2002-29 — Radius/ulna, small. Solid foam.

#2004-20 — Ulna, right. Solid foam.

#2004-20-1 — Ulna, right, with comminuted 4 part intra-articular olecranon fracture. Solid foam.

#2024-23 — Humerus, radius, and ulna articulated with latex bands. Includes distal “Y” fracture of the humerus and three part olecranon fracture of the ulna. Fractures reattached with latex bands. Right. Foam cortical shell.

CANINE TIBIA PATHOLOGY

#2117-40 — Tibia, right, toy breed, with canal and plug. For TPLO procedures. Solid Foam.

FORELIMB

#2022 — Forelimb, right, with scapula, humerus, ulna and radius articulated with ligaments and muscles.

#2024-20 — Elbow right, with humerus, radius and ulna articulated with ligaments. Foam cortical shell.

#2024-21 — Elbow, right. Solid foam.

#2025-1 — Forelimb, right, with articulating carpus and metacarpals and articulating ulna and radius. Solid foam.

FORELIMB PATHOLOGY

#2024-1 — Forelimb, left, with 20° valgus radius, ulna, carpus and distal humerus. Solid foam.

#2024-2 — Forelimb, left, with 20° valgus and 20° procurvatum of the radius, ulna, carpus and distal humerus. Solid foam.

RADIUS/ULNA

#2002 — Radius, left, with canal. Solid foam.

#2002-20 — Radius, right, with canal. Solid foam.

#2002-25 — Radius/ulna, right. Solid foam.

#2002-29 — Radius/ulna, small. Solid foam.

#2004-20 — Ulna, right. Solid foam.

#2004-20-1 — Ulna, right, with comminuted 4 part intra-articular olecranon fracture. Solid foam.

#2024-23 — Humerus, radius, and ulna articulated with latex bands. Includes distal “Y” fracture of the humerus and three part olecranon fracture of the ulna. Fractures reattached with latex bands. Right. Foam cortical shell.
RADIUS/ULNA FRACTURED

#2002-4 — Radius, left, with midshaft transverse fracture. With canal. Solid foam.

#2002-22 — Radius, right, with midshaft transverse fracture. With canal. Solid foam.

#2002-23 — Radius, right, with short oblique midshaft fracture. With canal. Solid foam.

#2002-25-2 — Radius/ulna, left, with transverse fracture. Solid foam.

#2002-29-1 — Radius/ulna, small right, with distal transverse radial fracture 20 mm from distal end and distal transverse ulna fracture. Solid foam.

#2004-21 — Ulna, right, with olecranon fracture. Solid foam.

RADIUS PATHOLOGY

#2002-1 — Radius, right, with curvus pathology and canal. Solid foam.

SHOULDER

#2020-20 — Shoulder, right, with humerus, scapula and ligaments. Foam cortical shell.

#2020-21 — Shoulder/elbow, right, with scapula, humerus, radius and ulna articulated and encapsulated with clear material. Foam cortical shell.

#2021-20 — Scapula, right. Solid foam.

Most of our canine bones are replicas of a 80 lb/36 kg DOBERMAN.
HUMERUS

#2003-3 — Humerus, right. No canal. Solid foam.

#2003-10 — Humerus, right, with 13 mm canal. Foam cortical shell.

#2003-19 — Humerus, right, with 9 mm canal. Foam cortical shell.

#2003-20 — Humerus, right, with 9 mm canal. With vise attachment. Foam cortical shell.

#2003-37 — Humerus, small left, with 4 mm canal. Foam cortical shell.

#2003-1 — Humerus, left. With vise attachment. Foam cortical shell.

#2003-20-2 — Humerus, right, 25% larger. With vise attachment. Solid foam.

HUMERUS FRACTURED

#2003-2 — Humerus, left, with lateral condyle fracture. Foam cortical shell.

#2003-5 — Humerus, left, with high distal "Y" fracture. Foam cortical shell.

#2003-20-3 — Humerus, right, with distal comminuted fracture 25% larger. With vise attachment. Solid foam.

#2003-20-5 — Humerus, right, with long oblique fracture. With vise attachment. Foam cortical shell.

#2003-22 — Humerus, right, with distal condylar fracture. With vise attachment. Foam cortical shell.

#2003-24 — Humerus, right, with midshaft oblique and distal Y fractures with proximal growth plate. With vise attachment. Foam cortical shell.
HUMERUS FRACTURED

#2003-27 — Humerus, right, with distal diaphyseal fracture with large butterfly attached by periosteum. With vise attachment. Foam cortical shell.

#2003-29 — Humerus, right, with long oblique fracture. Foam cortical shell.

#2003-30 — Humerus, right, with distal spiral fracture and long medial spike. With vise attachment. Foam cortical shell.

#2003-35 — Humerus, right, with irregular midshaft fracture with periosteum. With vise attachment. Solid foam.

#2003-36 — Humerus, right, with spiral fracture and butterfly segment. With vise attachment. Solid foam.

Most of our canine bones are replicas of a 80 lb/36 kg DOBERMAN.
CASTING TECHNIQUE

#2510 — Anterior section, no bones, reusable. Soft tissue with skin for casting techniques.

#2520 — Posterior section, no bones, reusable. Soft tissue covered with skin for casting techniques.

#2521-6 — Forelimb, right, no bones. Reusable. Soft tissue covered with skin for casting techniques.

SOFT TISSUE

#2501 — Vertebra, T13-sacrum, no fractures. Encased in soft tissue.

#2521-1 — Forelimb, right. Soft tissue with scapula, humerus, radius, and ulna enclosed.

#2521-3 — Rear limb, right. Soft tissue and foam cortical shell pelvis, femur and tibia.

ARTHROSCOPY

#2420 — Shoulder, right. For diagnostic and operative techniques. With shoulder model #2020-20 encased in soft tissue. Can be made with replaceable bones and with or without pathologies as per customer specifications.

#2401 — Knee, right rear. For diagnostic and operative techniques. With right rear limb model #2107-1 encased in soft tissue. Can be made with replaceable bones and with or without pathologies as per customer specifications.

Replacement parts for #2401:

#2107-1 — Rear limb, right, with medial femoral cartilage tear. Foam cortical shell.

Most of our canine bones are replicas of a 80 lb/36 kg DOBERMAN.
PORTABLE ARTHROSCOPY CAMERA (P.A.C.)

Sawbones P.A.C. camera provides an affordable alternative to the traditional arthroscopy camera system. This camera is perfect for use with any Sawbones arthroscopy training simulator or in a cadaver lab setting. Can be used with any computer or laptop as a monitor.

#5700-5 — Complete led portable light system includes transport case, replaceable light source, coupler and software, arthroscope, sheath and all set up instructions.

Technical Specifications:
- A specialized HD camera system integrated with a high quality 30 degree x 4mm arthroscope and sheath
- 18mm C-mount
- Low light sensitivity HD camera
- Compatible with Windows 10 and Mac OS
- Requires 2 powered USB ports (USB 2 recommended)

Individual Components:
#5701 — P.A.C. Camera, Coupler and Software.

#5702-7 — 5W, USB powered light source.

#5704 — Arthroscope, 30 degrees x 4 mm.

#5704-2 — Arthroscope, 70 degrees wide angle (not included in #5700-5).

#5705 — Sheath for 4 mm arthroscopes.

#5713 — Flexible arm quickly mounts to table and camera body allowing user the ability to position in place for hands free use (not included in #5700-5).

#2602 — Jaw that opens and closes and separates for closer study. Healthy teeth on the right side and diseased and damaged teeth on the left. Nine pathologies: fractured canine, peridontal disease, tartar accumulation, plaque, gingivitis, worn incisors, retained deciduous tooth, gingival recession and missing premolar. Solid plastic.

#2603 — Ear with normal and infected side. Normal side: cochlea, auditory ossicles, auditory tube, tympanic membrane, vertical canal, horizontal canal, pinna, temporalis muscle and auricular cartilage. Infected side: inflamed inner ear structures, ear canal with partial occlusion from cellular hyperplasia, inflammatory exudate in tympanic bulba, inflammatory exudate and an inflamed outer ear. Solid plastic.

#2604 — Shoulder with scapula, humerus, biceps brachii tendon, coracobrachialis tendon, lateral glenohumeral, medial glenohumeral and transverse humeral ligament. Removable white plastic stand included. Size: 28 x 8 x 5 cm. Solid plastic.

#2605 — Knee with femur, fibula, patella and tibia, lateral and medial meniscus, anterior and posterior cruciate ligaments, plus six more ligaments and tendons. Removable white plastic stand included. Size: 5 x 9 x 18 cm. Solid plastic.

#2606 — Vertebral column with five lumbar vertebra and discs, caudal (tail) and sacrum. Removable white plastic stand included. Size: 20 x 5 x 5 cm. Solid plastic.

#2607 — Elbow, left, with humerus, radius, ulna, and six ligaments. Removable white plastic stand included. Size: 24 x 4 x 19 cm. Solid plastic.
HUMERUS

#2720 — Humerus, left. Includes cancellous inner material at proximal end. Foam cortical shell.

FEMUR

#2721 — Femur, left, with canal and vise attachment on distal medial condyle. Solid foam.

#2721-1 — Femur, left, with 1/3 proximal comminuted subtrochanteric segmental fracture and a proximal intertrochanteric fracture. With vise attachment. Solid foam.

#2721-2 — Femur, left, with canal. Solid foam.

#2721-5 — Femur, left. Includes mid-shaft oblique fracture reattached with latex bands, and distal vise attachment. Solid foam.

TIBIA

#2722-1 — Tibia, left, with midshaft oblique fracture and block. Solid foam.

#2722-2 — Tibia, left. Solid foam.

PELVIS/HEMI PELVIS

#2723 — Full pelvis, normal anatomy. Solid foam.

#2724 — Hemi pelvis, right, normal anatomy. Solid foam.

#2725 — Hemi pelvis, left, normal anatomy. Solid foam.

#2728 — Hemi pelvis, left, with luxation at sacrum, articulated with latex bands. With vise attachment. Solid foam.

SACRUM

#2726-1 — Sacrum with vise attachment. Solid foam.
#2810 — Humerus, right. Solid foam.

#2811 — Radius/ulna, right. Foam cortical shell radius. Solid foam ulna.

#2812 — Carpals, right, with carpal bones, accessory carpal bone and two sesamoid bones. Solid foam.

#2813 — Carpals, right. Foam cortical shell 3rd metacarpal. Solid foam 2nd and 4th metacarpals.

#2814 — Phalanx, proximal right. Foam cortical shell.

#2815 — Phalanx, middle right. Foam cortical shell.


#2817 — Equine joint/carpal bone set, right. Distal 3rd metacarpal and sesamoid to distal phalanx. Solid foam.

#2818 — Metacarpal, front right. Includes medial condylar fracture of third metacarpal, split medial sesamoid, vertical split of third metacarpal, and vertical split of distal phalanx. Articulated and reattached with stretch bands. Solid foam.
**THORACIC LIMB**

**#2800-3** — Encased Distal Thoracic Limb, right. Fully encased distal radius and ulna, carpals, metacarpals, and phalanges. Articulated with latex bands.

**#2800-4** — Encased distal thoracic limb with metacarpal and phalanx fractures, right. Includes three-part butterfly fracture of the third metacarpal, four-part fracture of the second phalanx, and cancellous inner material. Articulation and fracture reattachment achieved with latex bands.

**#2800-5** — Distal thoracic limb with phalanx fracture, right. Includes four-part fracture of the first phalanx, and cancellous inner material. Articulation and fracture reattachment achieved with latex bands.

**#2800-7** — Encased distal thoracic limb with carpal and phalanx fractures, right. Includes split fracture of the third metacarpal, lateral condylar fractures of the distal third metacarpal and proximal first phalanx, and cancellous inner material.

**FOAL**

**#2809** — Foal tibia, right, with 10 mm canal. Foam cortical shell.

**#2809-1** — Foal tibia, right. Includes proximal epiphyseal fracture with lateral spike, reattached with latex bands. With cancellous inner material and a canal diameter of 10mm. Foam cortical shell.
SUTURE TRAINER

**#4501** — Sawbones Suture Training Kit has an exclusive tension adjustable tissue holder and realistic skin pad with subcutaneous fat layer. This trainer includes everything you need to get started with the repeated demonstration, training and practice of the most common types of suturing procedures and techniques. Tissue holder #1703-115 and skin suture pad #1485-150 can be ordered separately.

CLAMPS

**#1600** — Bone clamp and screw that can be used in a horizontal, vertical or 45° angle position. Suitable for rigid fixation of Sawbones models. Can be used for internal and external fixation and total joint replacement.

**#1601** — C-Clamp. Used for attaching either #1600 bone clamp or #1605 universal bone clamp to tables and work station surfaces.

**#1605** — Bone clamp, universal. Swivels 360° and rotates to any vertical or horizontal position. Has modified jaw for quick application and changing of Sawbones models. Includes C-Clamp.

**#1605-1** — Vise grip clamp. Used with clamp #1600 or #1605 for securing irregular shaped bones such as a pelvis.
• **Usage:**  
  - CNC machining  
  - Finite element modeling  
  - Product information guides  
  - CAD software applications

• **File formats:**  
  - IGES  
  - Stl  
  - Parasolid  
  - Step  
  - Sldprt

DIGITAL CAD FILES  
Most of our bones can be scanned. Please contact us for further information.

COMPOSITE BONES  
Composite bones are designed to simulate structural and material properties of cadaveric bone without the challenges of high variability and special handling requirements for testing and validation.

#3440 — Ovine tibia for mechanical testing. Merino cross weighing approximately 60 kg (132 lbs) and 3 years old.

CYLINDERS  
The cylinders are for workshop use only. For biomechanical test materials please visit our website www.sawbones.com.

#1521-617-9 — Cylinder with double osteotomy. 25 mm diameter X 125 mm length with a 16 mm canal. One end has 50 mm osteotomy and 63 mm osteotomy on the other end. Solid foam.

#1521-617-11 — Cylinder with midshaft short spiral fracture. 4 cm with a 9.5 mm canal diameter. Solid foam.
SAWBOUNES CUSTOMER COMMITMENT AND PRODUCT GUARANTEE

At Sawbones, we are committed to providing the highest level of service and product quality. If you are less than completely satisfied with the performance of our products for any reason, we will gladly honor a full refund or replacement.

Contact us anytime with suggestions on how we can improve our products or service.

ORDERING INFORMATION

Please provide the part number, description, and quantity for each item requested.

Indicate precise shipping instructions, if different than the billing address, and purchase order number when applicable.

Credit cards and bank transfers accepted. Please contact customer service.

SAWBOUNES CORPORATE HEADQUARTERS  
Servicing North America, South America, Asia and Australia

10221 SW 188th Street, PO Box 409  
Vashon, Washington 98070, USA

E-mail: info@sawbones.com  
Tel: (206) 463-5551  
Fax: (206) 463-2526

SAWBOUNES EUROPE AB  
Servicing Europe, Middle East and Africa

Krossverksgatan 3,  
216 16 Malmö, Sweden

E-mail: info@sawbones.se  
Tel: +46 40 650 70 00