Reference guide for Clear Bones with implants
Clear plastic bones are ideal for product display and procedure visualization. Great care is taken so that every part is water clear and showcases every detail of the device.

Each model is crafted by hand to ensure proper fit and correct placement of every screw and fixture.

Production run clear bones are a cost effective method of distributing education and promotional display models. Sawbones can either replicate implants or use stock parts.

Sawbones utilizes a durable clear bone material called **solid clear**, that will hold up to the rigors of the product demonstration and still maintain its clarity. A variety of materials can be used to create attractive display stands with or without branding.
FULL ANATOMY CLEAR BONES
Sawbones offer full anatomy Clear Bones models which are ideal for:
• displaying your implants.
• procedure visualization.

MATERIAL PROPERTIES
Our Solid Clear material:
• is very durable.
• has excellent clarity.
• highlights the details of your implants.

QUALITY AND EXPERTIES
Sawbones Clear Bones team has an extensive knowledge in customized implant installation.

Together with the expertise of our specialized team, the properties of our Solid Clear material enable us to offer you high quality models.

ADDITIONAL DISPLAY OPTIONS
As part of our service, we offer a wide variety of display options that will enhance your product. Please refer to page 8 for more information.

PRICING
Pricing for customized implant installation varies and depends on the type of model and implants you would like us to install.

For quote request and practical information please refer to the last page of the catalog.

Sawbones team look forward to assisting you with any questions or requests you may have.
VERTEBRAE DIMENSIONS (mm)

The following table of dimensions is to help you select the correct implant and screw sizes. Please refer to page 4 for implant specifications. Cervical vertebrae dimensions are available upon request.
GUIDELINES FOR SELECTING THE CORRECT IMPLANT SIZES

Screws sizes (mm):

<table>
<thead>
<tr>
<th>SPINE LOCATION</th>
<th>PEDICLE SCREWS</th>
<th>LATERAL MASS SCREWS</th>
<th>ANTERIOR SCREWS</th>
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<td>Max Length</td>
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<td>2-4</td>
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ANTERIOR PLATES
Measured from center of top hole to center of bottom hole.
C3-C5 two level anterior plate: 36–40 mm.
C4-C5 one level anterior plate: 20 mm.
C3-C6 three level anterior plate: 60 mm total length.

CAGES
Smaller or larger sizes can be accommodated but these sizes are suggested for best appearance.
Lumbar: 10–15 mm thickness.
Cervical: 5–7 mm thickness.
TIBIA AND FEMUR DIMENSIONS

The following table of dimensions is to help you select the correct implant and screw sizes. Please refer to page 6 for implant specifications.

### TIBIA DIMENSIONS (mm)

<table>
<thead>
<tr>
<th>Part #</th>
<th>Tibia</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>J</th>
<th>K</th>
<th>L</th>
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<td>397</td>
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<td>47.9</td>
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**Note:** 1701-30-1 and 1701-35-1 have no canal.

### FEMUR DIMENSIONS (mm)

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<td>21.2</td>
<td>53.3</td>
<td>57.9</td>
<td>14.7</td>
</tr>
</tbody>
</table>

**Note:** 1701-30-1 and 1701-35-1 have no canal.
GUIDELINE FOR SELECTING THE CORRECT IMPLANT SIZES

- Provide left sided implants.
- Right side models can be made upon request.

SHOULDER IMPLANTS

- **Humeral head**: 45 mm diameter for best fit, but we can accommodate 42-45 mm.
- **Stem**: we can accommodate most lengths.
- **Canal diameter**: 13 mm max
- **Glenoid**: 35 mm length, 25 mm width. Maximum sizes and for best fit.

HIP IMPLANTS

- **Acetabular shell**: 56 mm for best fit, but we can accommodate 52-60 mm.
- **Stem**: we can accommodate most lengths.

KNEE IMPLANTS

- **Femoral and tibial implants**: small to medium sizes are ideal. For best fit, refer to the diagram dimensions on the right.
- **Stem**: we can accommodate most lengths.

FOOT & HAND IMPLANTS

- **Small sizes** are ideal.

NAILS AND PLATES

- Send a variety of screw lengths for best fit and extras as replacement for screws used up during manufacturing. This is especially important if screws are color anodized.
- Use tibia and femur dimensions as a reference if applicable.
- Send drill guides and targeting arms.
- Provide full screw configuration either on a “sawbone” or on a drawing.

KNEE IMPLANTS SIZES (mm)

- **Femur**: 44 - 47 mm
- **Femur**: 65 - 68 mm
- **Tibia**: 71 - 78 mm
DEVICE IMPLANT REPLICAS

Sawbones device implant replicas are for any instrument or implant company that has a need to display, promote, or use specific implant replicas in place of the costly real devices.

The device implant replicas can be produced to match most implants available on the market. They are an inexpensive alternative that can be mass-produced to facilitate major new product launches, marketing activities, sales demonstrations and physician workshops.

BENEFITS:

- Several levels of finish qualities — from base level finish for workshop applications to high level finishes for marketing and promotion.

- Much lower cost than real implants.

- Numerous colors and finish choices.

- Can be adapted to other Sawbones products and installed in our clear bones.

- Can be either cast for high volume applications or 3D printed for low volume needs.

Our implant replicas are cast and/or 3D printed from high strength materials and can be finished in several mediums such as:

- Chrome
- Matte
- Gloss colors

We can install the device implant replicas in our clear bones!
COLOR
Color can be added to our solid clear material.

STAND
Standard stands and sizes are available in the following materials:

- **Wood**
  13 cm x 13 cm
  18 cm x 18 cm
- **Clear acrylic**
  13 cm x 13 cm
  18 cm x 18 cm
- **Black acrylic**
  12 cm x 12 cm
  15 cm x 15 cm
- **White or black textured plastic**
  13 cm x 13 cm
  18 cm x 18 cm
- **Round clear acrylic**
  15, 20 or 20.5 cm Ø

Customized stands are available in a variety of materials and sizes.

LIGHTING
Add lighting to the stand to draw attention!

LOGO
Add your company logo and/or product name to the stand for a complete display:

- **Dome plastic plate**
  Up to four colors
  2 x 7,5 cm standard size
  Custom shapes available.
- **Metal plate**
  No color limitation
  Custom sizes
  - Direct print - silk screen (no color limitation).
  - Etching (on clear acrylic stand only).
  Custom shapes, please specify.

ADDITIONAL OPTIONS
Available upon request.

- **Namebones** - add text as per your specifications inside clear bones. Note that it is not possible to include implants on namebones.
- Horizontal or vertical **cut-away with magnetic lid** magnets.
- Implant installation in **smooth white plastic** material.
TRANSPORT CASES
We offer a variety transport cases for your clear bone models - for easy transport and protection during travel.

The transport cases have cut outs for your clear models with or without stand and are custom-built to fit your specifications. They can be ordered:

- To fit any extra implants and/or instruments
- With or without telescope handle
- With or without wheels
- In different materials (metal, hard/softshell)

MODULAR DISPLAY TRAY SYSTEM
Custom-built modular display tray systems to cast your medical instruments and devices in the best light!

FEATURES:
- All display pocket silhouettes are cut using CAD designs from your own instruments/devices.
- Each tray is machined using our CAD to CUT process which guarantees an exact fit.
- You can choose from a wide variety of colors, materials and embellishments.

BENEFITS:
- Modern design for your next trade show or workshop setting.
- Can be tailored to each individual request with several different price ranges available.
- Many design options to choose from.

Soft or hard cases available for travel, storage or both.
QUOTATION
In order for us to give you a quote for clear bones with implant installation, please provide the following information:

1) What type of bone assembly do you require?

2) What type of implants do you want to display? Please send us a surgical technique manual, a technical drawing or a model showing the implants position.

3) Do you need a stand? If so, what type of material and positioning of the model on the stand do you want?

4) Do you want your company and/or product logo to be added to the stand? If so, what type of logo? Please also send us a digital EPS file of the artwork.

5) Please contact us if you require a transport case.

Once these general questions are answered, we will be able to send you a quotation and lead time.

IMPLANT SIZES
What implant sizes will fit?

See pages 4 and 6 for preferred implant sizes or contact us for additional information.

CONTACT OUR OFFICES
Feel free to contact us for a quote or for any questions you may have regarding implant suitability, sizing, pricing, etc.

More information about payment terms, payment methods and returns policy to be found on our website www.sawbones.com
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.

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 call customer service.

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