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# MED DIMENSIONS

## SURGICAL GUIDES & PHANTOMS



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## Overview

Founded in 2019, Med Dimensions is committed to advancing the education of both future veterinarians and healthcare professionals, recognizing their crucial roles in ensuring the well-being of animals and humans alike. The company specializes in transforming real anatomy and pathology into three-dimensional solutions suitable for a diverse range of medical procedures and specialties. Whether addressing angular limb deformities or developing medical phantoms, we offer tailored solutions that cater to the needs of both veterinary and human healthcare.

## Goals

Utilizing a Med Dimensions phantom or surgical guide empowers surgeons and residents to achieve the following:

- Minimize uncertainties during medical procedures.
- Enhance confidence in executing various techniques and procedures.
- Undergo realistic and immersive training, closely simulating real-life situations.

# SURGICAL GUIDES & PHANTOMS

## MED DIMENSIONS

### SURGICAL GUIDES

At Med Dimensions, we kick off the process by working closely with your surgeon, utilizing your medical scans to craft a tailored surgical plan. Following that, we provide 3D printed bones along with an additional set of surgical guides for a rehearsal procedure. These guides ensure a meticulous and accurate workflow during the actual surgery.

### AI TECHNOLOGY

Our state-of-the-art AI engineering programs are continuously expanding. The integration of automated segmentation tools has notably expedited the creation of phantoms, guaranteeing quicker delivery to the point of care. Additionally, our surgical planning automation provides clinicians with enhanced insights, adding significant value to their practices.

### SURGICAL PHANTOMS

Having the precise and true-to-life anatomy right before you significantly improves the comprehension and strategic planning of veterinary care. Med Dimensions specializes in transforming your DICOMs into customized 3D replicas designed for your unique case.



More Info  
[www.med-dimensions.com](http://www.med-dimensions.com)

Call Us  
**+1.585.510.0005**



# PROCESS

## STEP 1: FILL OUT CASE REQUEST

This form must be filled out by a surgeon or resident. This information provides details needed to create accurate tools

<https://www.med-dimensions.com/case-request/>

<b>Patient Name*</b> <input type="text"/>	<b>Species*</b> Canine
<b>Sex*</b> Female	<b>Weight*</b> Please specify pounds or kilos
<b>Age*</b> Please specify months or years	<b>Breed*</b> <input type="text"/>
<b>Brief Clinical History*</b> Please indicate relevant health information for the case <input type="text"/>	
<b>Region of Pathology*</b> Left/Right bone, joint, etc	<b>Anatomy to Print*</b> Quarter, limb, or specific bone(s)
<b>Desired Tool*</b> Printed Model Only	<b>Quantity of Models*</b> 1

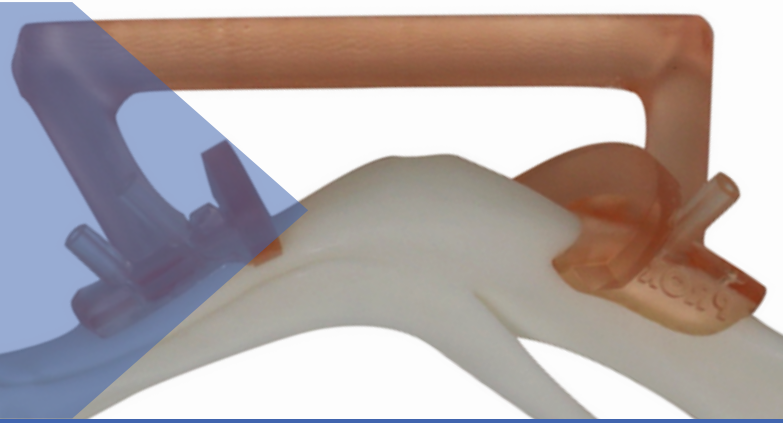
## STEP 2: Upload A CT Scan



Med Dimensions will reach out with a link to an upload portal for your medical image, or accept your image via your preferred method.

If the surgery only requires models - this is the last step! The models will be printed and shipped to your destination in 2-5 days. Med Dimensions will overnight ship emergency cases for an additional fee.

# SURGICAL PROCESS



## STEP 3: Surgical Plan

Our team, comprised of both surgeons and engineers, collaboratively presents a surgical plan to the operating surgeon. We highly encourage the surgeon to actively engage and be as involved as they wish in the planning process.



## STEP 4: Surgical Rehearsal



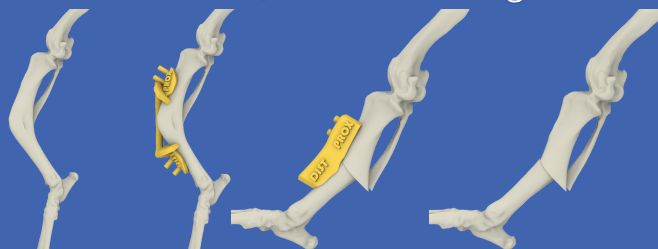
The Surgical Guide Cases come with the 3D printed phantoms, as well as appropriate guides for the specific case type.

We recommend that all surgeons, especially new graduates or surgeons new to 3D printing, try the case on a bone model to ensure the process goes smoothly.

## STEP 5: The Surgery

Surgical guides can be autoclaved. They are printed from a biocompatible resin specifically made for surgical tools.

The models cannot be autoclaved, but can be gas sterilized.



# SURGICAL PRICES

# MED DIMENSIONS

**DICOM RECONSTRUCTION FEE:** \$200

**VARIABLE PREOP MODEL:** pricing dependent on animal size (see chart below)

Body region	Extra-Small (>15lbs) (>7kg)	Small (15-30lbs) (7-14 kg)	Medium (30-65lbs) (14-30kg)	Large (65-100lbs) (30kg-45kg)	Extra-Large (<100lbs) (<45kg)
Individual limb bone (femur, tib-fib, humerus, radius-ulna)	\$25	\$50	\$100	\$125	\$150
Bone Set (femur/tib-fib, humerus/radius-ulna)	\$50	\$100	\$160	\$200	\$300
Spine	\$45	\$90	\$155	\$200	\$245
Pelvis	\$25	\$50	\$100	\$125	\$150
Skull	\$50	\$100	\$150	\$200	\$250
Mandible	\$30	\$55	\$80	\$105	\$130
Maxilla	\$35	\$60	\$85	\$110	\$135
Custom (Multi-color prints, autoclavable model, etc)	\$15-150	\$30-250	\$60-300	\$75-400	\$90-500

**ALD GUIDE KIT:** \$400-500

Includes 2 copies of cutting guide, 2 copies of repositioning guides, and 1 PostOp Bone

**SPINAL GUIDE KIT:** \$500-700.

Includes 2 copies of individual guides per vertebrae involved

**CUSTOM GUIDE KIT:** PRICING UPON REQUEST

We will work with you to create a custom guide for your case

## CALCULATE YOUR ESTIMATE:

\$ 200 (DICOM) + \_\_\_\_ (Qty) x \$ \_\_\_\_ (PreOp Model) + \$ \_\_\_\_ (Guide Kit) = \$ \_\_\_\_ (Total)

EXAMPLE: \$200 (Reconstruction) + 2 x \$150 (2 Medium Skulls) + \$0 (No Guide Kit) = \$350

Sales tax and shipping is not included in the pricing model provided by Med Dimensions



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