

Axiom® PSR: Patient Specific Resection

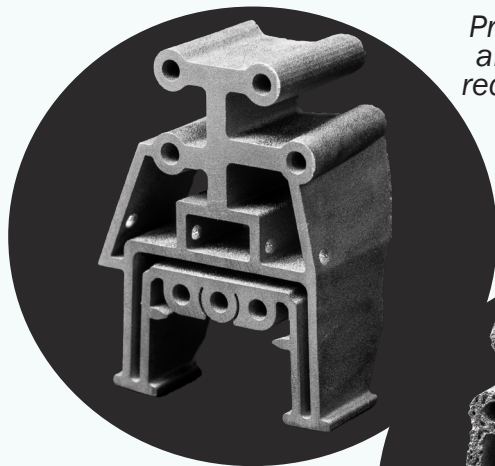
The Axiom PSR™ is the next generation of patient-specific instrumentation. Made from implant grade titanium alloy, the PSR guides deliver precision, accuracy, and efficiency.

The Axiom PSR™ System includes tibial and talar cut guides with anatomic models to indicate the proper guide position on the tibia and talus.

All-metal resection guides sit precisely on the anatomy and contain fluoroscopic markers for quick x-ray confirmation. Stability is enhanced by the TIDAL bone contacting surface and accurate saw cuts are made directly through the guides.

Surgical steps are combined and fewer k-wires are needed compared to other PSI. Streamlined design features limit soft tissue resection and periosteal disruption.

Position, fixate, and cut through the guides



Proximal K-Wire holes align with tibial trials reducing pin holes and surgical steps

Enhanced stability at bone contacting surface



Rigid construction ensures accurate bone cuts



Radiographic indicators confirm intended position on bone

CT Scan Protocol

1. In-plane pixel size (resolution) must be less than 0.8mm.
Example: A Field of View of ~28 cm is ideal for a 512x512 matrix in order to keep the pixel size small. The Field of View must be less than 40 cm.

2. Include full knee-to-foot images (coronal and sagittal) when submitting CT files.

3. Other:

- Do not scan at higher slice spacing and reconstruct to smaller increments.
- Only the raw axial images are needed; coronal and sagittal reconstructions are not necessary.
- Images must be provided in uncompressed DICOM format.
- If the series of interest has existing hardware it can be scanned with the same parameters as listed here.

ANKLE & KNEE

5. How to Submit Scan

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Knee Requirement	Include joint line, 2.5mm slice thickness
Ankle Requirement	10cm proximal to joint line through foot
Pixel Spacing	≤ 0.8mm
Slice Thickness	≤ 1.00mm

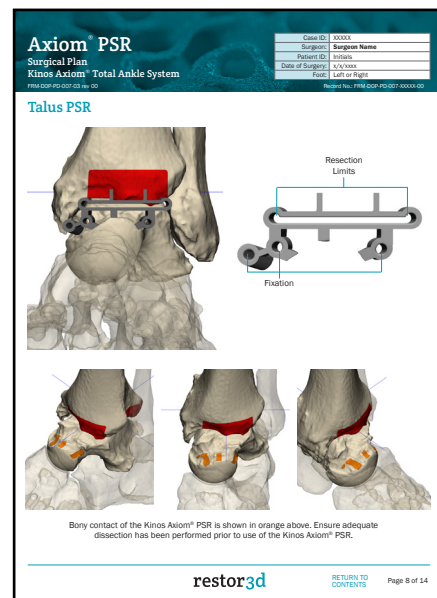
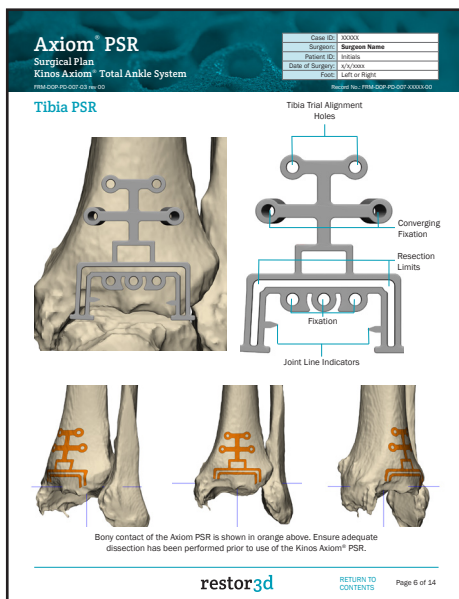
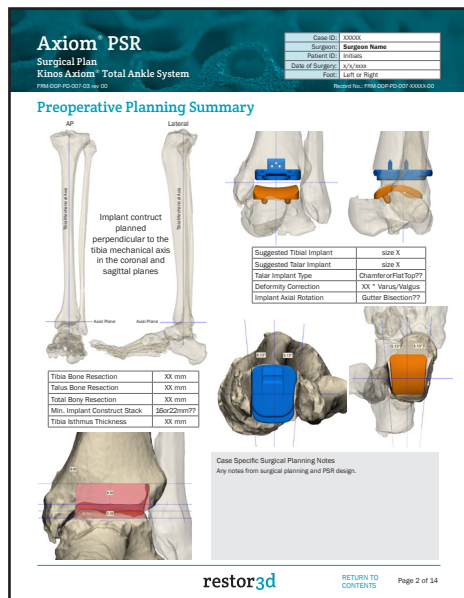
Submitting Scans

For information on how to submit a CT Scan, see the restor3d CT Scan Protocol.

r3id
Personalized Surgery

Surgical Planning

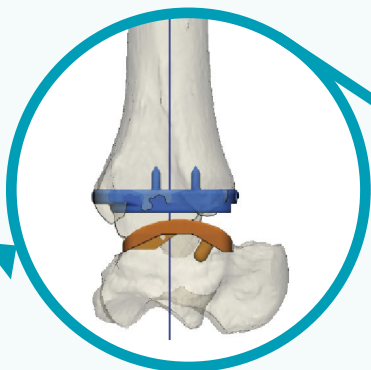
The Axiom PSR Surgical Plan provides detailed anatomic insights to aid in achieving the ideal surgical outcome. The plan includes simulated radiographic images that streamline confirmation of guide placement intraoperatively.



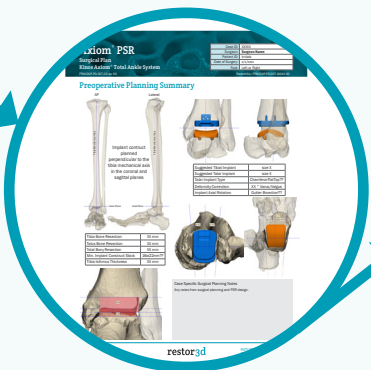
The restor3d PSR Design and Manufacturing Process



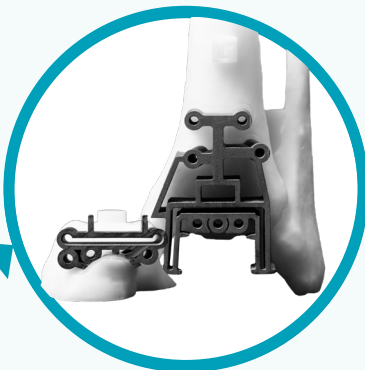
Patient CT scans are acquired and submitted according to restor3d CT Scan Protocol



Joint alignment is calculated and implants are positioned according to the surgeon's planned reconstruction



The approved surgical plan releases a case to manufacturing



The resection guides and bone models are printed and delivered within 3 weeks

restor3d

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