

3D Scanning Tips for Accuracy

to help you capture scans that provide the most detailed information for a custom spinal orthosis, follow the tips below.

1) Tight-Fitting Clothing for a Clean Scan

A clear scan requires a clean representation of the patient's true anatomy, not their clothing. Skin-tight clothing (like a stockinette or tight-fitting tank) helps eliminate creases and distortion caused by baggy fabric.

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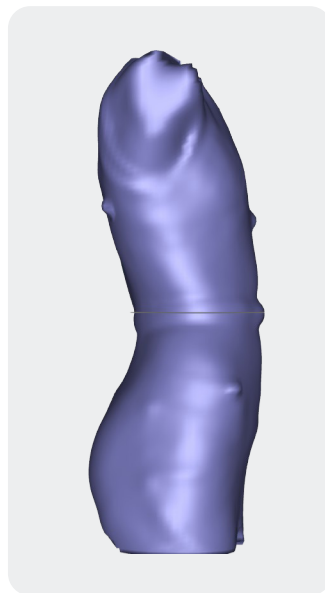
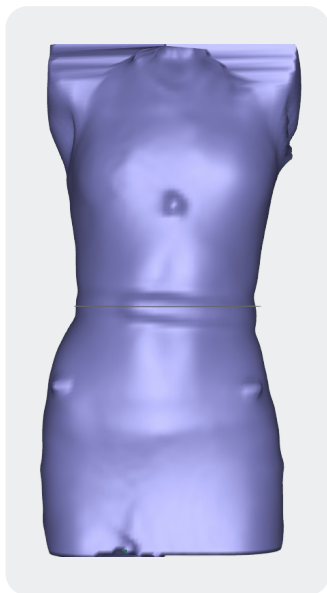
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2) Neutral, Upright Stance

For accurate anatomy and alignment, the patient should stand naturally upright with legs parallel and no angles or pelvic tilt. Avoid posed or exaggerated posture that changes the spine's true shape.

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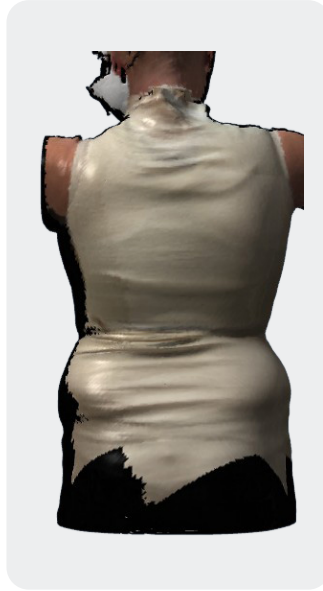
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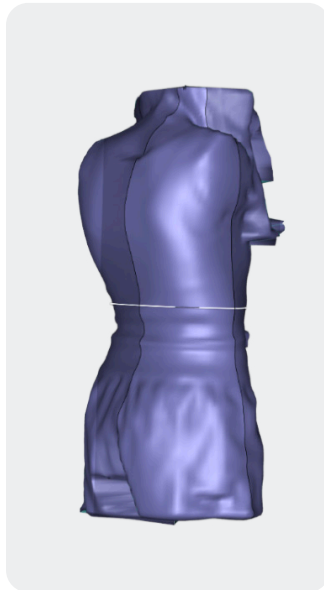
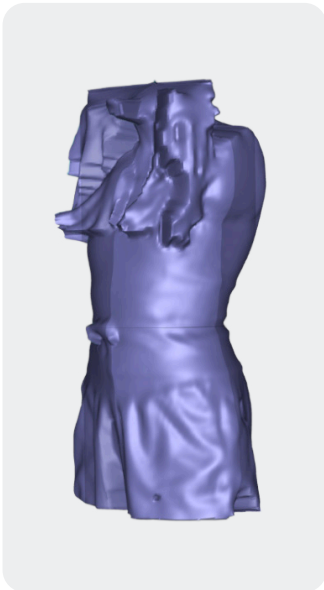
3) Clear Torso Visibility

Hair must be pulled back so it doesn't block the back and torso landmarks. Anything that obstructs the scan can remove detail and reduce accuracy.

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4) Consistent Arm Positioning

Positioning matters: keep arms out to the side at the same angle (90°), without raising or rolling the shoulders. Shoulders should stay level over the pelvis (as close as possible), and the back should not be arched.

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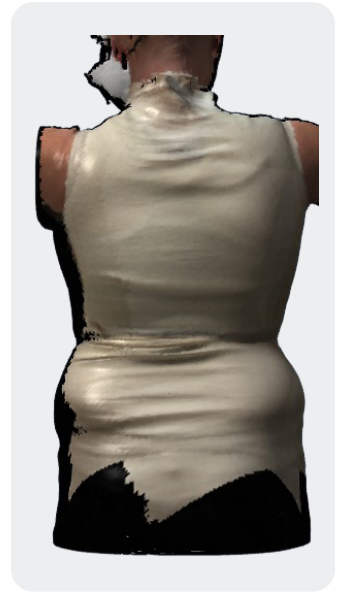
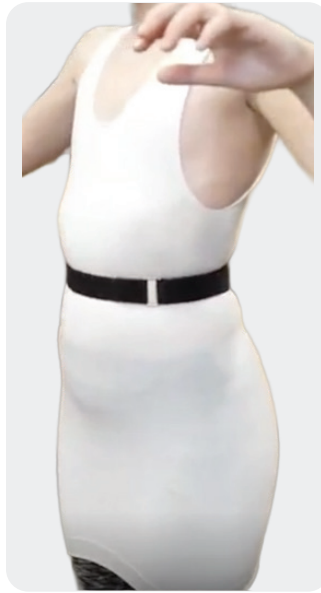
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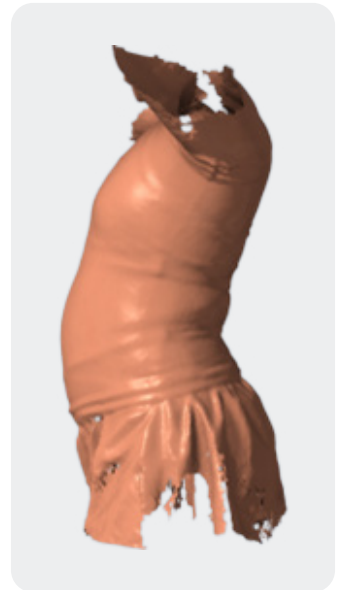
5) Waist Belt Placement

Use a waist belt to improve measurement accuracy. By placing the waist belt in the correct location, all measurements can easily be verified. It should be snug enough to mark the waist, but not so tight that it displaces soft tissue on overweight patients.

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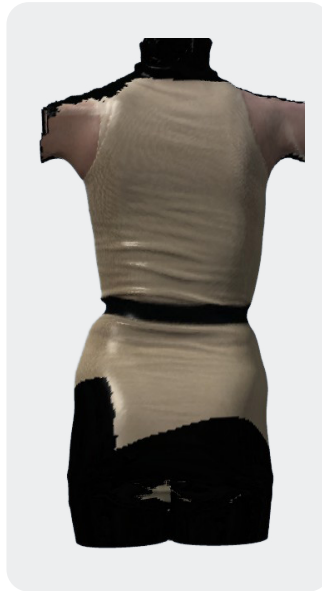
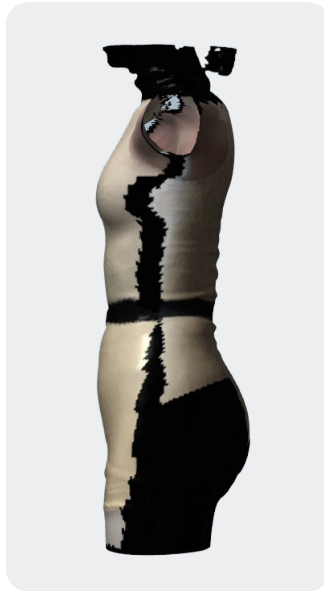
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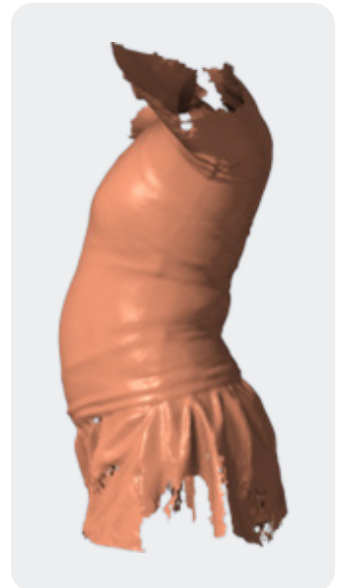
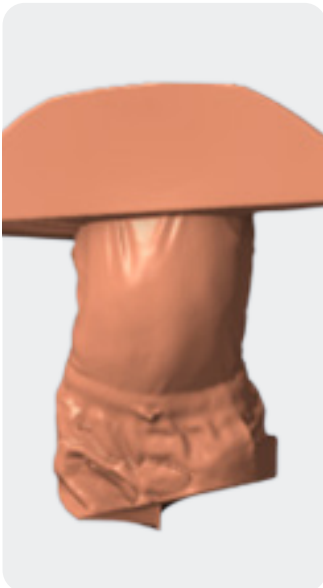
6) Full Torso Coverage

Capture the complete torso to avoid incomplete data; scan from above the axilla to well below the trochanter head, including the glutes and G-fold. Partial scans can limit what is usable for fabrication.

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7) Final Scan Check Before Submitting

Before sending scans to SpinalTechnology, review for distortion—especially severe boundary errors (“block segments”) that misrepresent anatomy. Confirm that the scan looks human, complete, and clean.

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