

Salto Talaris™ Anatomic Ankle



The Salto Talaris™ Anatomic Ankle is a new generation ankle replacement that mimics the anatomy and flexion/extension movement of the natural ankle joint, and is an alternative to traditional ankle fusion.¹

References

1. Donley, B. *et al.* New Ankle System Design Holds Promise. *Cleveland Clinic-A Physician's Newsletter from the Department of Orthopaedic Surgery*, Fall 2006
2. Bonnin, M. *et al.* Midterm Results of the Salto Total Ankle Prosthesis. *Clinical Orthopaedics & Related Research*, 2004;424:6-18.
3. Bonnin M, Judet T, Piriou P, *et al.* Total ankle prosthesis: five to eight year results. Presented at the American Orthopaedic Foot and Ankle Society 22nd Annual Summer Meeting. July 14-16, 2006. La Jolla, CA.



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Tornier is a registered trademark of Tornier, SA.
Salto and Salto Talaris are covered by US patent # 6,183,519.

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*The next step in
ankle arthroplasty.*



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Advancements in orthopaedic technology continue to revolutionize surgical options. Today's surgical instruments and implants make orthopaedic surgery more precise and more effective than ever before. One such advancement can now be seen in the Salto Talaris™, which has been modeled after the human anatomy and is positioned to redefine the classic approach to ankle arthroplasty.

The innovative Salto Talaris™ now provides surgeons with the ability to reproduce the natural flexion/extension axis of the

ankle with an anatomic design. The Salto Talaris™

implant design and instrumentation is founded on the Salto™ mobile-bearing ankle prosthesis, which has been in clinical use since 1997 and at 6.4 year mean follow-up (5-8.5) has a 93% survivorship.^{1,2} The Salto Talaris™ provides accuracy and reproducibility with the Precision Instrumentation that has evolved to allow a fixed-bearing implant design and represents the philosophy "Less is Sometimes More"

- Tapered fixation plug pulls the implant against the resected bone surface
- Easy slide-lock mechanism with multiple insert thicknesses of 8, 9, 10, and 11 mm
- Matching articular geometry with talar implant allows for maximized contact area
- 3 universal tibial base sizes for both left and right ankles
- Ti plasma spray enhances long term fixation
- 4 talar component sizes, wider anteriorly for better bone coverage
- Two distinct radii of curvature, medially and laterally, avoid overstressing the deltoid ligaments
- Based upon anatomy, the flexion/extension axis is the axis of a cone to allow normal external rotation of the foot during dorsiflexion
- Stability is provided by a hollow fixation plug and three bone cuts (anterior, posterior, lateral) to resurface the talus with minimal bone removal

User friendly instrumentation and minimal steps

The Precision Instrumentation System was developed from the original Salto™ mobile-bearing design in order to restore the patient's normal anatomy and obtain an optimal primary fixation of the components. The instrument system allows for accurate component positioning with tibial and talar preparations that are separate but codependent.

Tibial Preparation:

- A key principle is that the mobile-bearing concept has been moved from the implant to the instrumentation at the stage of the trial reduction.

- The trial tibial base, featuring a highly polished surface to remain mobile against the resected distal tibia, is allowed to rotate into proper position, thus self-aligning the prosthesis. After this optimal tibiotalar alignment is achieved, the preparation for the tibial keel and plug are completed.

Talar preparation:

- The talar resections are linked to the tibia and allow for a measured resection with equal implant replacement.
- The precise guides for the 3 talar resections allow for an anatomic resurfacing of the talus with immediate stability.

