



**AIRCRAFT®**

Air-Stirrup II™

The Best Just Got Better



# AIRCAST®

For more than 30 years, medical professionals worldwide have depended on Aircast® for technological breakthroughs in patient care. Rooted in sound scientific methods, each Aircast® product is developed using the concept of "functional management." We have set a new standard of care for sprains and other injuries with our patented technology and use of graduated pneumatic compression.

Aircast® is a brand of DJO Incorporated. DJO is a leading global developer, manufacturer and distributor of high-quality medical devices whose brands are dedicated to providing the continuum of patient care from injury prevention to rehabilitation after surgery, injury or degenerative disease.

## The Air-Stirrup®

- Aircast® Air-Stirrup® was the first prefabricated stirrup to hit the market over 30 years ago and has been the "standard of care" ever since. Many companies have tried to copy the Air-Stirrup® but none compare.
- With its clinically proven Duplex™ aircell system, the Air-Stirrup® is the only brace that allows for functional management to promote efficient oedema reduction and accelerate rehabilitation.
- This same technology is used in the Air-Stirrup II™ as we continue the Aircast® legacy with the next generation Air-Stirrup®.

## Aircast® Certificate of Authenticity

- Each Aircast® Air-Stirrup II™ is delivered with a hang tag attesting to its authenticity:

*"This certificate verifies the authenticity of the Air-Stirrup II™ you have purchased. This Aircast® brace is a high-quality device, crafted with the original Duplex™ Aircell technology."*



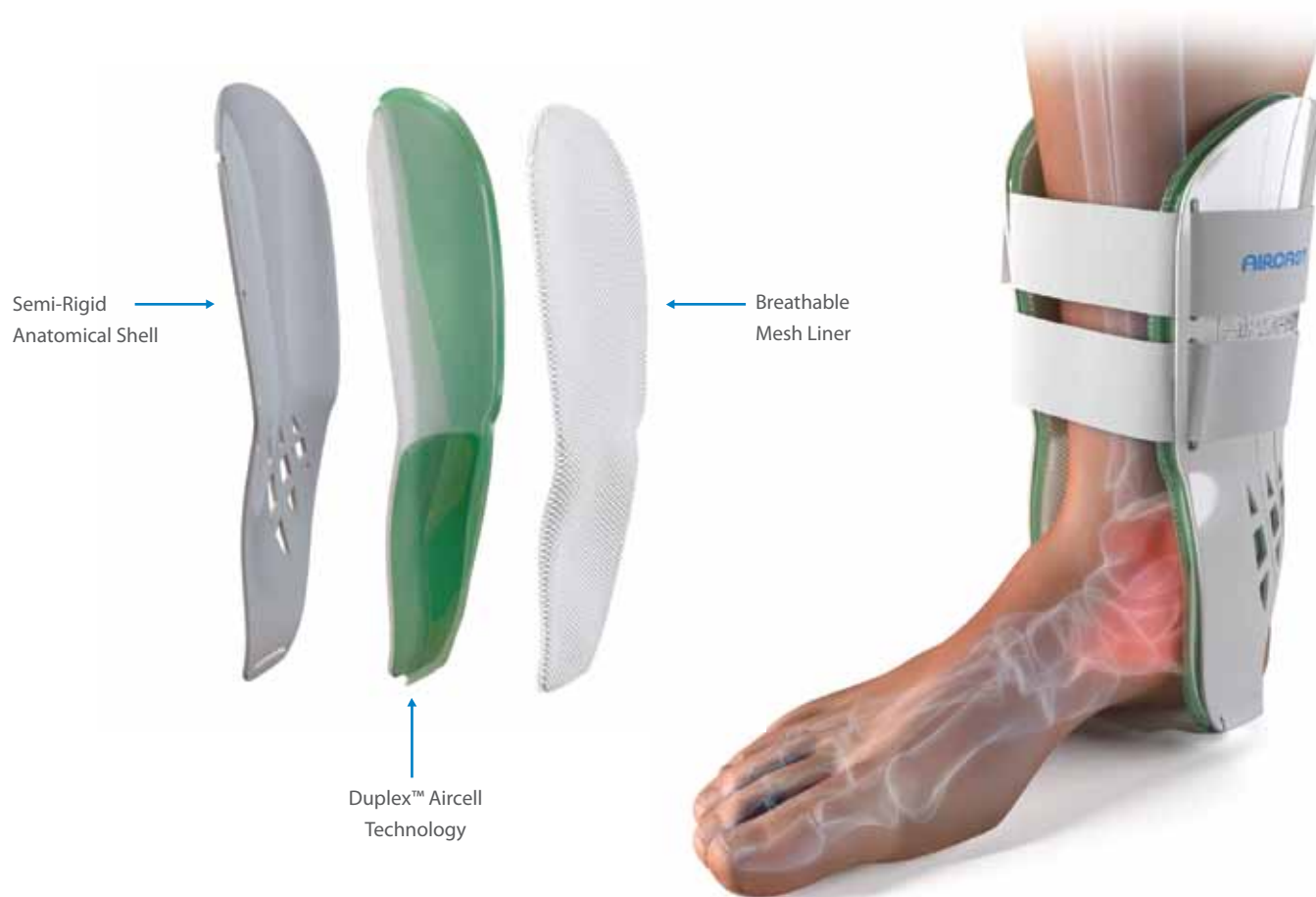
**THE ORIGINAL**  
by AIRCAST®

### Certificate of Authenticity

This certificate verifies the authenticity of the Air Stirrup II you have purchased. This Aircast brace is a high-quality device, crafted with the original Duplex™ Aircell Technology.

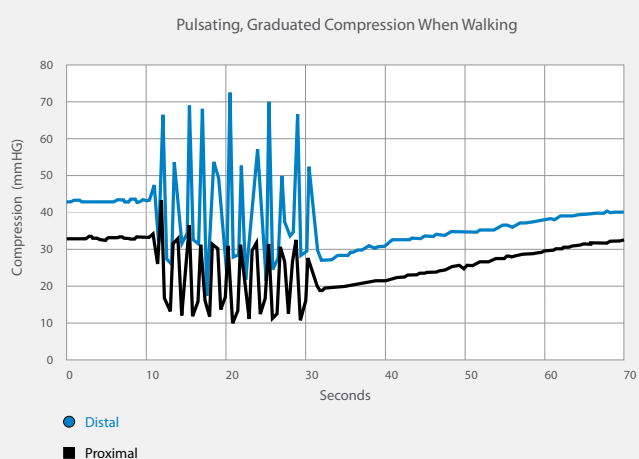
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## The Technology



### Duplex™ Aircell technology generates graduated compression during ambulation

- As the patient walks, the pre-inflated distal and overlapping proximal aircells produce pulsating graduated compression. This intermittent compression promotes efficient oedema reduction in addition to helping accelerate rehabilitation



The graph shows that during ambulation,

- The dual aircell technology provides increased distal pressure decreasing gradually towards proximal
- This exclusive design provides graduated compression to promote efficient oedema reduction



## Aircast® Air-Stirrup II™

- The new standard of care in next generation ankle stirrups
- Leveraging on the features and benefits that are the trademarks of the original Air-Stirrup®, this new version offers the same great support and protection as its predecessor, while featuring additional upgrades and enhancements for increased ease of use, comfort and breathability
- The Best just got Better

### User Profile

- Patients with acute ankle sprains or injuries

### Indications

- Acute injury
- Post-op
- Ankle Sprains (grade I, II, & III)

### Features & Benefits

**1 Duplex™ Aircell System:** pre-inflated distal aircell and overlapping proximal aircell enhances circulation, reduces the swelling by milking away the oedema, accelerates the healing process and helps an early return to function.

**2 NEW! - Stylized Medial and Lateral Anatomical Semi-Rigid Shells** provide support and protection and help prevent inversion/eversion or re-injury.

- The anatomically correct shell design contours the shape of the malleoli

**3 NEW! - Rear Step-In Design & Strapping Configuration** facilitates application of the brace.

- Inserted into slits, the straps do not hang loose and follow the anatomical shape of the shells for correct fit
- Patented, molded-in hook and loop closure insures durability and sure connection application

**4 NEW! - Breathable Soft Mesh Liner** for increased comfort

- **Foot Icon** assures correct Left/Right orientation; heel pad reference lines customize adjustment

- All Aircast® products are **Latex Free**

#### 2 New Stylized Medial and Lateral Anatomical Semi-Rigid Shells



#### 4 Breathable Soft Mesh Liner



#### Foot Icon





### 3 New Rear Step-In Design & Strapping Configuration



### Patented, Molded-In Hook and Loop Closure



### 1 Duplex™ Aircell System



Ordering Information				
Part Number		Brace Height	Patient Height	Size
Right	Left			
02VSR	02VSL	21.6cm (8.5")	< 1,57 m (< 5.1')	Small
02VMR	02VML	23.5cm (9.25")	1,57 - 1,67 m (5.1' – 5.4')	Medium
02VLR	02VLL	26.7cm (10.5")	> 1,62 m (> 5.3')	Large

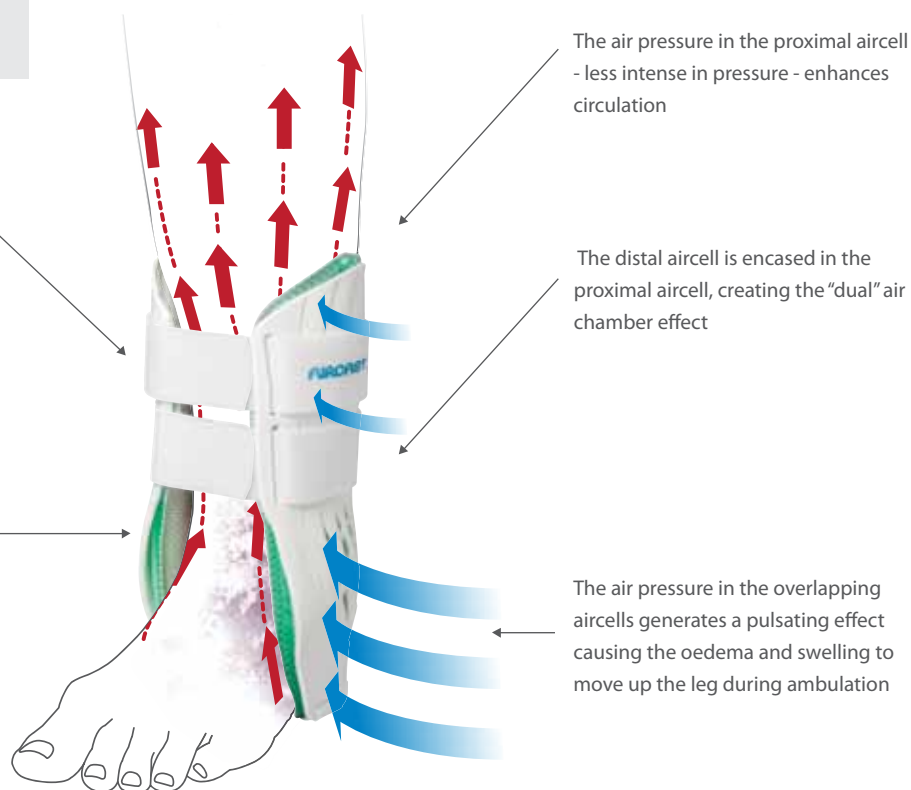
## Duplex™ Aircell Technology – Dual Aircell VS. Single Aircell Technology

**Fig. A : Air-Stirrup II™ Dual Aircell Technology -**

The blue arrows represent the air pressure enhancing circulation (red arrows)

Shell design transitions into more flexibility proximally, providing greater comfort and promoting patient compliance

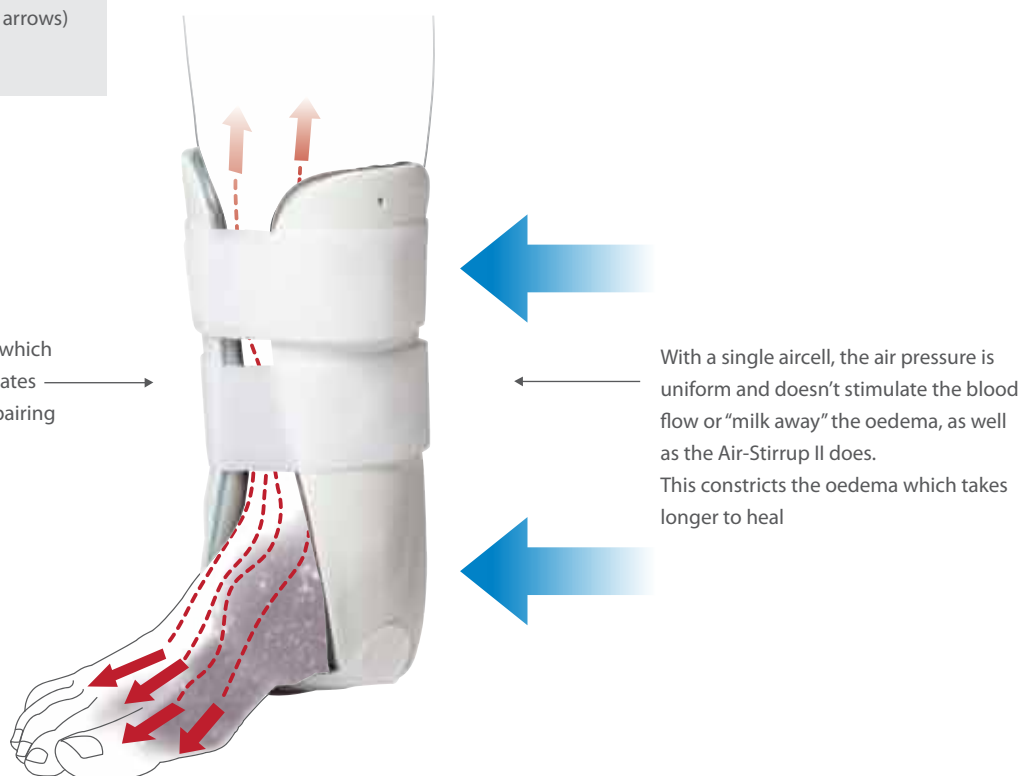
Anatomically correct shell design provides perfect fit without pressure on the malleoli



**Fig. B : Single Air Chamber Brace -**

The air pressure is unvarying (blue arrows), so it does not stimulate circulation (red arrows) as well as in the Air-Stirrup II™

The rigid shell is a universal design which is not anatomically shaped. This creates pressure points on the malleoli, impairing comfort and patient compliance



## Proven Efficacy in Accelerating the Recovery Process

- When comparing the Duplex<sup>™</sup> Aircell System with a single air chamber brace, studies have shown that:
  - After 3 days of wear, the oedema has decreased with the Air-Stirrup<sup>®</sup> (Fig. A)
  - After 5 days of wear, the oedema has significantly decreased with the Air-Stirrup<sup>®</sup> (Fig. B)

Fig. A - Volume Modification of the Whole Foot in Percent

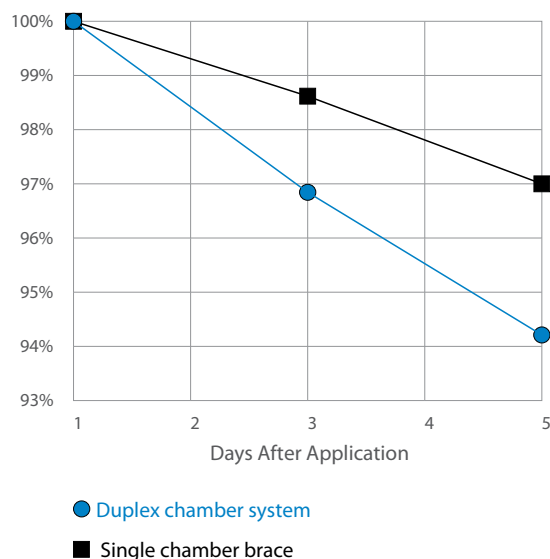
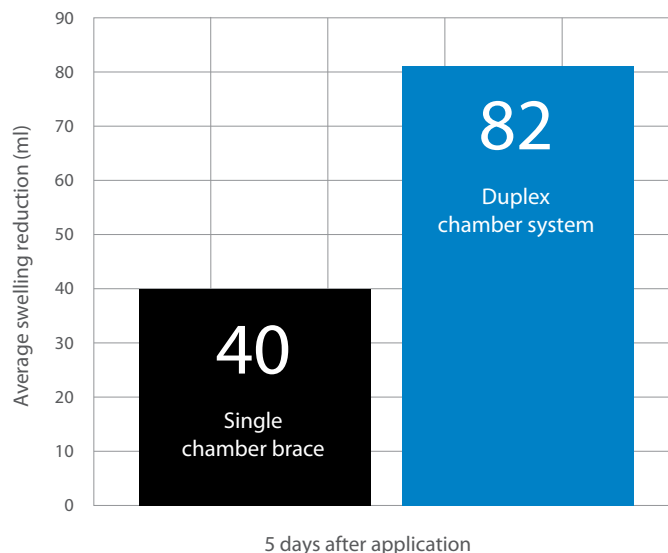


Fig. B - Absolute Swelling Reduction After 5 Days



Reintges H., Schmidt R., Benesch S., Weindel S., Meiners H., Gerngroß H. : Conservative Therapy for Acute Outer Ligament Ruptures -- Single Chamber vs. Duplex<sup>™</sup> Chamber Orthosis System - Poster exhibition: "30th Scientific Congress" – Coblenz, 1999

## Clinical Evidence

**Key Fact:** the Classic Air-Stirrup<sup>®</sup> has been cited in over 100 medical journals for its superior performance in helping heal ankle injuries.

- Surgical Versus Functional Treatment for Acute Ruptures of the Lateral Ligament Complex of the Ankle in Young Men. A Randomized Controlled Trial. Pihlajamäki et al., 2010
- Mechanical supports for acute, severe ankle sprain: a pragmatic, multicentre, randomised controlled trial. Lamb et al., 2010
- Surgical versus conservative treatment for acute injuries of the lateral ligament complex of the ankle in adults (Cochrane Review). Kerkhoffs et al., 2007
- A prospective, randomized clinical investigation of the treatment of first-time ankle sprains. Beynnon et al., 2006
- Prophylactic Bracing Versus Taping for the Prevention of Ankle Sprains in High School Athletes : A Prospective, Randomized Trial. Mickel et al., 2006
- Management of Ankle Sprains : A Randomised Controlled Trial of the Treatment of Inversion Injuries Using an Elastic Support Bandage or an Aircast<sup>®</sup> Ankle Brace. Boyce et al., 2005
- Prophylactic Ankle Taping and Bracing: A Numbers-Needed-to-Treat and Cost-Benefit Analysis. Olmsted et al., 2004
- Conservative therapy for acute lateral ligament lesion: single chamber vs. two-chamber orthosis systems. Schmidt, et al., 1999
- A Randomized, Prospective Study of Operative and Non-Operative Treatment of Injuries of the Fibular Collateral Ligaments of the Ankle. Povacz et al., 1998
- The Three-Dimensional Passive Support Characteristics of Ankle Braces. Siegler et al., 1997
- The Effects of Semirigid Air-Stirrup<sup>®</sup> Bracing vs. Adhesive Ankle Taping on Motor Performance. Verbrugge, 1996
- Treatment of Acute Ankle Sprain: Comparison of a semi-rigid ankle brace and compression bandage in 73 patients. Leanderson et al., 1995
- Early mobilization versus immobilization in the treatment of lateral ankle sprains. Eiff, Smith et al., 1994

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