AIRCAST®

AIRSELECT™

THE ULTIMATE COMBINATION

DESIGNED FOR COMFORT + ENGINEERED FOR HEALING

DJO™ GLOBAL

Our lightest Aircast™ walking boot ever, AirSelect™ brings clinically tested innovations that improve comfort, compliance, and outcomes. No other walking boot offers more.

New Integrated Inflation System for Ease of Use

- Fully integrated inflation technology allows quick and easy customization
- Puts the patient in control for an individualized fit

Duplex™ Aircell Technology for Faster Healing

- Multiple aircells are layered within the semi-rigid shell to provide pulsating, pneumatic compression with each step
- This design is clinically proven to reduce oedema 3 times faster, relieve pain, and speed healing [1, 2]

The integrated pump allows the patient to customize the level of inflation in each aircell.

The dial selector facilitates the individual inflation of the aircells.

During ambulation, the air in the overlapping aircells starts to fluctuate – resulting in an upward massaging motion that "milks" the oedema away from the injured area.

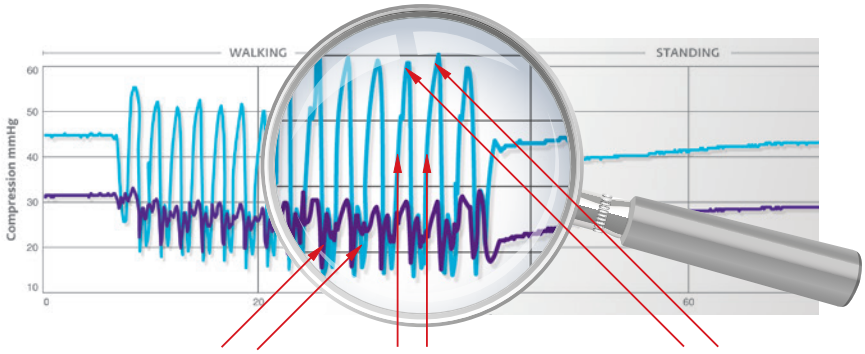
1. *"Conservative Therapy for Acute Lateral Ligament Lesions – Single Chamber vs. Two-Chamber Orthosis Systems" (Schmidt, Mainers, Reintges, Lipke, Benesch, Gerngross- Surgery Dept of the Federal Arm Hospital, Ulm, Germany, 1999)*
2. *"A New Concept in Fracture Immobilization" (Paul A. Dale, MD, James T. Bronk, Michael E. O'Sullivan, F.R.C.S.I., Edmund Y. S. Chao, PhD., and Patrick J. Kelly, M.D.)*

Duplex™ Aircells - The Technology

How does the Duplex™ Aircell Technology work ? (Fig. 1)

- In the first few seconds, the compression is stable, as the patient is standing still.
- During the gait process, the air fluctuates in the distal aircell (**blue line**) and the proximal aircell (**purple line**) generating an Intermittent Compression.
- In addition, as the aircells overlap, the compression is more important distally than proximally, thereby creating a Graduated Compression.
- The Aircast exclusive Duplex Aircell Technology provides intermittent graduated compression which is clinically proven to reduce oedema faster.

Typical Compression Profile (Fig. 1)



Compression is lowest at **"Heel Strike"**

Compression increases during **"Mid Stance"**

Compression is greatest at "**Heel Off**"

The Gait Cycle

Each Aircell has a Purpose

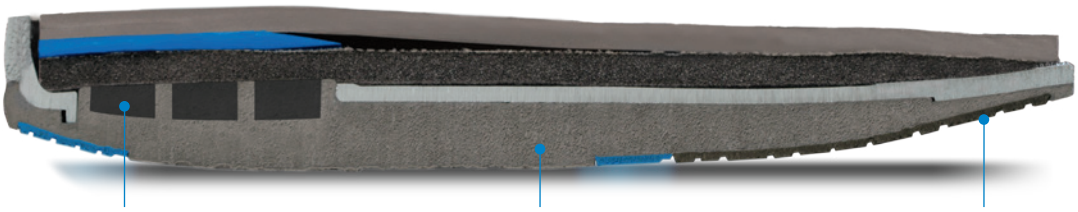
- The pressure in the proximal aircell - less intense - enhances circulation and helps avoid excessive muscle atrophy
- The pulsating effect generated during ambulation in the overlapping aircells enhances circulation, reduces swelling, "milks" the oedema away and helps callus formation
- The air pressure in the anterior aircell keeps the foot snug in the walker and enhances the action of the other aircells

Ultra Light Technology for Comfort of Wear

- The lightest full-shell walking boot available
- Semi-rigid shell features vents that maximize airflow and minimize mass, without compromising support
- Trimmable and heat-moldable shell for a custom-fit and better patient compliance
- Sleek, open-frame design for ventilation and maximum patient protection
- Shell contours around the malleoli to help eliminate pressure
- Three-strap system disperses pressure evenly and helps reduce pooling of oedema

SoftStrike Technology to Reduce Heel Load

A patented grid design made of shock-absorbing material provides cushioning that reduces heel loading and helps prevent impact-related stresses.[3] Shape and height of the rocker sole provide a more natural gait and less hip differential.



Heel strike is absorbed and dissipated by the patented SoftStrike technology.

Mid-stance section is designed to minimize hip differential and knee flexion movement.

Toe-off section continues the rocking motion, enhancing mobility.

- Non-marking, skid resistant rubber tread for greater traction and longer wear
- Low-profile rocker sole enables a normal walking gait with less forefoot angulation, preventing excessive hyperextension of the knee [3]

3. "A Preliminary Comparison of the Moments and Movements of the Knee and Hip Joints during walking when using three design of walking boots compared to normal footwear" (Richards J, The Movement Analysis Laboratory School of Public Health and Clinical Sciences UCLan Preston)

The Aircast™ Walker mimics Natural Ambulation

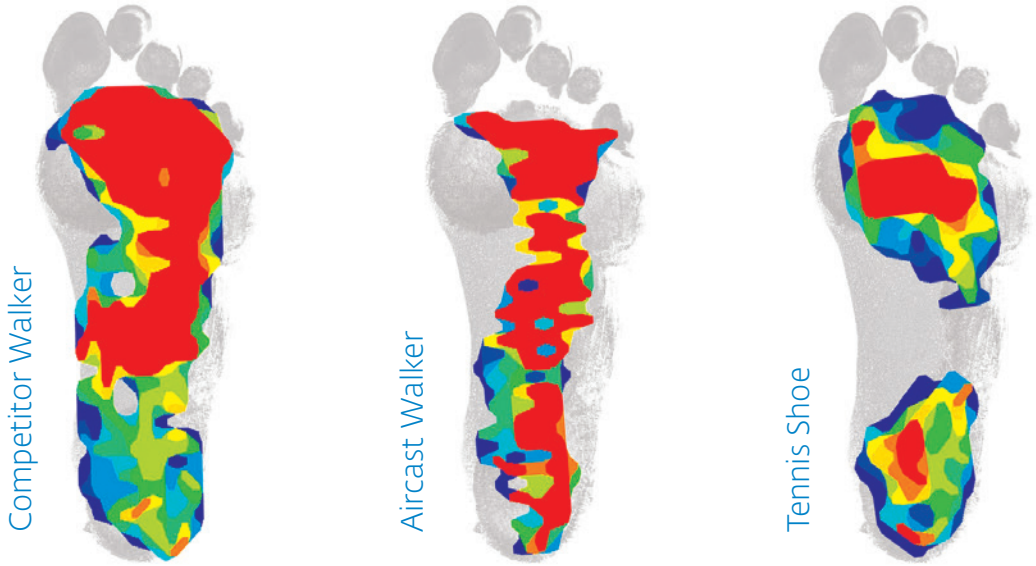
Aircast Walkers mimic natural ambulation with less hip differential than other walkers.

The ergonomic multi-radius shape of the rocker sole delivers superior stability, and the wide, non-skid foot-base gives an excellent level of grip improving the patient's sense of security.

A Natural Gait

Biomechanical testing by a leading Movement Analysis Laboratory confirms the Aircast Walker provides superior kinematics over the gait cycle.

The Pressure Map below illustrates how the Aircast Walker's centre of pressure movement from posterior to anterior is a smooth progression forward, for ease of natural gait.[4]



4. "Preliminary Discussion Report - Comparison of the Kinematics, Forces, Moments and Pressure when using two designs of walker" (Richards J., The Movement Analysis Laboratory, School of Public Health and Clinical Sciences, UCLan, Preston)

AirSelect™ - The Range

AIRSELECT™ ELITE

Features & Benefits

- Durable, semi-rigid shell supports the limb and provides full-shell protection
- Duplex Aircell Technology provides intermittent pneumatic compression
- Shell is lined with 3 customizable aircells and 1 pre-inflated front panel aircell
- Combination of 4 aircells provides a `full contact' fit
- Integrated custom inflation system with dial selector for individual adjustment and ease of use
- SoftStrike technology - sole absorbs and dissipates shock
- Lightweight and lab-tested rocker sole promotes a natural gait
- Enclosed toe cover provides forefoot protection

Indications

- Stable fracture of foot/ankle/lower leg
- Severe ankle sprain
- Post-operative immobilization
- Faster Reduction of oedema

AIRSELECT™ STANDARD

Features & Benefits

- Durable, semi-rigid shell supports and protects the limb
- 2 adjustable distal aircells provide compression
- Integrated inflation system with dial selector for ease of use
- Shock absorbing SoftStrike technology
- Lightweight rocker sole promotes a natural gait

Indications

- Moderate level of support
- Stable fracture of foot/ankle/lower leg
- Severe ankle sprain
- Post-operative immobilization

AIRSELECT™ SHORT

Features & Benefits

- Durable, semi-rigid shell
- 2 two customizable lateral aircells
- 1 Pre-inflated front panel aircell
- Shock absorbing SoftStrike technology
- Lightweight rocker sole promotes a natural gait

Indications

- Moderate level of support for foot injuries
- Metatarsal fracture
- Forefoot and mid-foot injury
- Acute or postoperative use
- Bunionectomy
- Soft tissue injury

Accessories

Weather cover

- Protection against rain
- Sizes: S,M,L

Semi-rigid Toe Cover

- Sizes: S, L

Hygiene Protection

- Interior protection
- Sizes: S, M/L, XL

Brace-Lok™

- Patient compliance

Heel Wedges

- Achilles tendon post-op
- 1 = 10°
- 2 = 16°
- 3 = 22°

AirSelect Elite					
P/N	SHOE SIZE				SIZES
	EU	UK	US MALE	US FEMALE	
01EP-XS	Up to 35.5	Up to 3	Up to 4	Up to 5	XSmall
01EP-S	35.5 - 39.5	3 - 6	4-7	5-8	Small
01EP-M	39.5 - 43	6 - 9	7-10	8-11	Medium
01EP-L	43-47	9 - 12	10-13	11-15	Large
01EP-XL	47+	12 +	13+	15+	XLarge
AirSelect Standard					
01EF-XS	Up to 35.5	Up to 3	Up to 4	Up to 5	XSmall
01EF-S	35.5 - 39.5	3 - 6	4-7	5-8	Small
01EF-M	39.5 - 43	6 - 9	7-10	8-11	Medium
01EF-L	43-47	9 - 12	10-13	11-15	Large
01EF-XL	47+	12 +	13+	15+	XLarge
AirSelect Short					
01ES-XS	Up to 35.5	Up to 3	Up to 4	Up to 5	XSmall
01ES-S	35.5 - 39.5	3 - 6	4-7	5-8	Small
01ES-M	39.5 - 43	6 - 9	7-10	8-11	Medium
01ES-L	43-47	9 - 12	10-13	11-15	Large
01ES-XL	47+	12 +	13+	15+	XLarge
Accessories					
01WXT-x	Weather Cover, Tall				
01WXS-x	Weather Cover, Short				
0130A-x	Hygiene Cover				
01T-x	Toe Cover				
01P414	Brace-Lok				
01K-x	Heel Wedges				
0129P	Tube Stretch Sock, Xsmall				
0129A	Tube Stretch Sock, Universal				

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Together in Motion™