



# UNITY<sup>®</sup>

For all



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## Elevated vacuum is proven

For nearly 10 years, below-knee amputees have benefited from elevated vacuum systems. The technology is well-established, with studies demonstrating its ability to reduce limb volume fluctuations<sup>1,2</sup> and pistoning<sup>3</sup>; a combination which is thought to account for a more symmetrical gait<sup>3</sup> and a lower predicted incidence of future falls<sup>4</sup>.

*“With Unity, my comfort, stability and limb health has increased significantly.”*



Alti Ndreka, AK User & CP/LP

## But what about AKs?

However, to date, above-knee amputees have been left out of this elevated vacuum revolution. This is not because they would not benefit from the technology, but rather because existing systems, which have been dependent upon a sleeve to maintain vacuum, were not suitable for above-knee applications.

In fact, the redundant tissue that contributes to volume fluctuations and pistoning is no less prevalent in above-knee amputees than in their below-knee counterparts. Therefore, it stands to reason that above-knee amputees would benefit equally from the use of elevated vacuum.

## Unity for all

With the Unity Sleeveless Vacuum System by Össur, there is finally an elevated vacuum system for all users. Whether an above-knee or below-knee, low active or high active, mechanical or microprocessor solution is required, the Unity Sleeveless Vacuum System offers the flexibility to combine a variety of Össur feet and knees to achieve the optimal combination of equipment for each unique user.

### Key Benefits of Vacuum

- Controls volume and reduces fluctuations
- Improves socket fit and enhances suspension
- Reduces pistoning and rotation
- Promotes skin and limb health
- Improves comfort
- Lowers energy consumption
- Promotes proper gait characteristics

*“Balance Knee and K2 Sensation with Unity is a perfect combination for the K2 population.”*



Scott Saunders, CPO




























### THE DATA

1. Beil, T. L.; Street, G. M.; Covey, S. J. Interface pressure during ambulation using suction and vacuum-assisted prosthetic sockets. *J. Rehabil. Res. Dev.* 39(6):693–700; 2002.
2. Goswami, J.; Lynn, R.; Street, G.; Harlander, M. Walking in a vacuum-assisted socket shifts the stump fluid balance. *Prosthet. Orthot. Int.* 27(2):107–113; 2003.
3. Board, W. J.; Street, G. M.; Caspers, C. A comparison of trans-tibial amputee suction and vacuum socket conditions. *Prosthet. ORTHOT. INT.* 25(3):202–209; 2001.
4. Sanders, Joan E., et al. Effects of elevated vacuum on in-socket residual limb fluid volume: case study results using bioimpedance analysis. *Journal of Rehabilitation Research & Development*, 2011, 48. Jg., Nr. 10.

# MIX & MATCH to create the best solution for each user

Whether an above-knee or below-knee, low active or high active, mechanical or microprocessor solution is required, the Unity Sleeveless Vacuum System offers the flexibility to combine a variety of Össur feet and knees to achieve the optimal combination of equipment for each unique user.

	LOW 	MEDIUM 	HIGH 		LOW 	MEDIUM 	HIGH 
Balance™ Knee Control				K2 Sensation® K2 Sensation® with D/P Flexion			
Balance™ Knee				Balance™ Foot J			
Total Knee® 1900 2000 2100				Flex-Foot® Assure			
Mauch® Knee Mauch® Knee Plus				LP Vari-Flex® LP Rotate™			
POWER KNEE™ RHEO KNEE® 3 RHEO KNEE® XC				Vari-Flex® Vari-Flex® XC			
				Re-Flex Rotate™ Re-Flex Shock™			
				PROPRIO FOOT®			

**4**  
CEUs

Request an on-site, hands-on Unity Solutions education day

Earn 4 CEUs while learning how your patients can benefit from Össur's complete line of Unity Solutions. Then, apply this education via actual patient demos and fittings.

Ask your Össur rep, or visit [ossur.com/unity-certification](http://ossur.com/unity-certification)

LOW



MEDIUM



HIGH



1. Seal-In® X TF, Unity® Valve, Balance™ Knee Control, K2 Sensation® with D/P Flexion™ and Unity.
2. Seal-In X TF, Unity Valve, Total Knee® 1900, Balance Foot J with Unity.
3. Seal-In X TF, Unity Plate, SYMBIONIC® LEG with Unity.

4. Seal-In X TF, Unity Plate, Total Knee® 2000, Vari-Flex® XC with Unity.
5. Seal-In X TF, Unity Plate, POWER KNEE™, Vari-Flex with Unity.
6. Seal-In X TF, Unity Plate, RHEO KNEE® XC, Pro-Flex® with Unity.
7. Seal-In X TF, Unity Plate, Mauch® Knee, Re-Flex Shock™ with Unity.



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*“I’ve struggled with stability and volume control for 47 years. With RHEO KNEE 3 and Unity, those problems are finally gone.”*

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Bob McGuire



To learn more about Unity and watch user testimonials visit [www.ossur.com/unity](http://www.ossur.com/unity)

# GO SLEEVELESS!



For years, Iceross® Seal-In® liners have been a trusted choice of amputees seeking a comfortable expulsion solution. However, many users have irregular limb shapes, or other anomalies, that conflict with the location of the seal.

**Introducing Iceross Seal-In X and Seal-In X TF liners.** Seal-In X/TF liners feature a moveable seal ring that can be optimally positioned to maximize comfort for each unique individual. They are also Unity® compatible, so your patients can experience all the benefits of sleeveless vacuum, as well.



*Seal-In X features a moveable seal ring with attached fabric for easy donning/doffing by users with poor hand dexterity or upper body strength (e.g., elderly or dysvascular).*



*Seal-In X TF features a moveable seal ring with Volume Adaptive Blades that change orientation to accommodate unique limb shapes and volume fluctuations.*

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