

AGENDA

- Choosing between Off-The-Shelf (OTS) and Custom
- Alpha DESIGN[®] Liner
 - Clinical Criteria
 - Design Options
- Shape Capture Methods
 - Alpha DESIGN App
 - OMEGA[®]
- Suspension using LimbLogic®
 - Mechanical and Electronic





CHOOSING THE ALPHA® LINER



CONSIDERATIONS

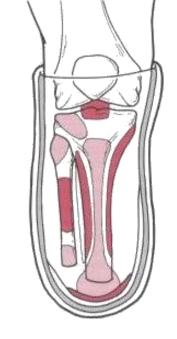
- Limb shape and length
- Overall health
- Lifestyle
- Activities
- Opinion/preference

A collaboration between you and your patient



CONSIDERATIONS

- Skin health
 - Perspiration, scars, uneven contours
- Padding and protection
 - How much and where?
- How will the prosthesis be held on?
 - Strap, suction, mechanical pin, elevated vacuum





ADJUSTING THE LINER



Alpha Volume Management Pads

Alpha Socket Pads

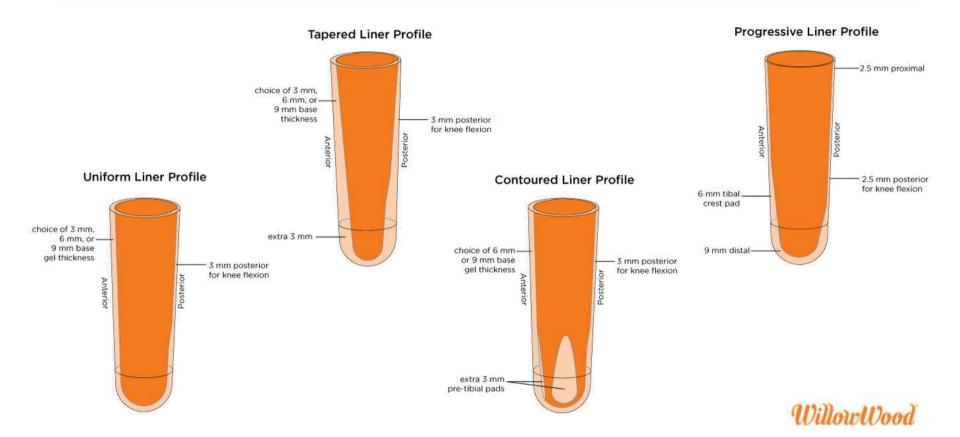




Alpha Gel Cups



PROFILES





ALPHA DESIGN LINER INTRODUCTION



INTRODUCTION



 Since its introduction in 1996, the Alpha product family has expanded many times to provide the latest in liner technology



WHAT IS AN ALPHA DESIGN LINER?

 A custom liner created by a prosthetist, where the pattern, placement, and thickness of material are specific to an individual end-user requirement



WHY USE AN ALPHA DESIGN LINER?

 For accommodation of TT and TF residual limb shapes, sizes, and tissue integrity that fall outside the scope of an off-the-shelf (OTS) liner with or without gel cup/pad adjustment





CLINICAL CRITERIA



CLINICAL CRITERIA/INDICATIONS

• If your patient presents with...



NON-UNIFORM CONTOURS







DEEP INVAGINATIONS







CONGENITAL





SHORT RESIDUAL LIMBS





LOCAL AND/OR MAJOR GRAFT SITES









DESIGN OPTIONS



CONSIDERATIONS

- Thickness minimum and maximums
 - Up to 25 mm thick
 - As thin as 3 mm for fabric covered and 4 mm for fabric free
- Interface materials & distribution pattern
- Fabrics
- Socket design
- Suspension method



INTERFACE MATERIAL

Alpha Classic® Gel



- Skin-friendly
 Thermoplastic
 Elastomer
 (TPE)
- Soft, flexible, durable
- Ideal for patients who need comfort and support

Alpha Hybrid[®] Gel



- TPE with Kevlar® additive
- Skin-friendly
- Increased durability

Alpha Duo®



- Inner layer: Classic Gel
- Outer layer:
 Alpha
 Silicone[®]
- Fabric-free

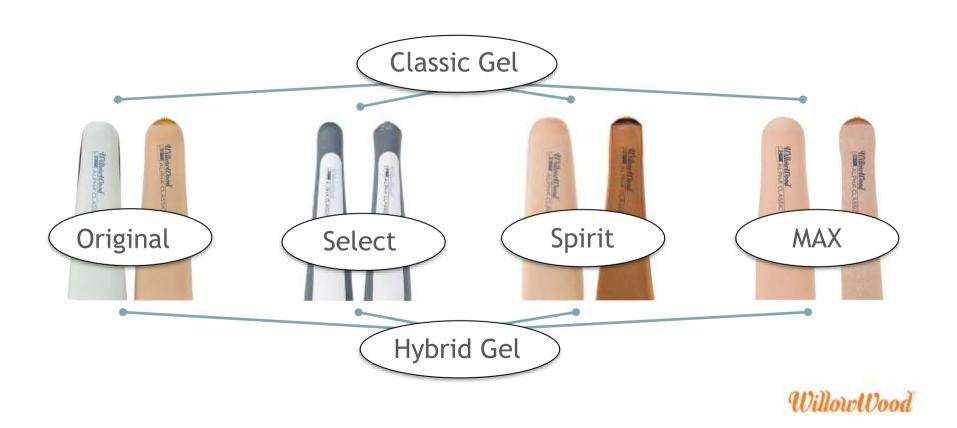


FABRICS (FOR CLASSIC AND HYBRID LINERS)

Original	Spirit	MAX	Select
 Durable fabric that extends the life of the liner Smooth texture allows for ease in donning prosthetic socket 	 Flexible unbroken loop fabric allows easy donning and doffing Ideal for geriatric amputees 	 One-way stretch fabric minimizes pistoning yet maintains durability Fabric allows for increased range of knee motion 	 Allows for easy knee flexion One-way stretch fabric controls pistoning without a distal matrix Allows circumferential stretch, yet maintains liner elongation within specified limits



CLASSIC AND HYBRID GEL CAN BE PAIRED WITH ANY FABRIC

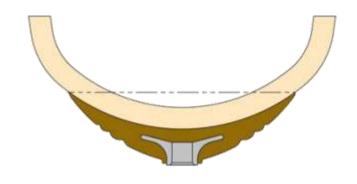


UMBRELLAS

- Pediatric/UE
 - 1 1/8" to 1 5/8"



- 1 5/8" to 4 ½"
- Will be based on distal end circumference





COMFORT CUFF FOR TRANSFEMORAL

- Fabric cuff that can be added to the interior of TF liners
- Can be reflected down over the socket brim to protect the gel from wear and tear
- Additional fee applies
- Not available with Select Fabric





ALPHA DESIGN LINER WITH DUO® TECHNOLOGY



- 4 mm minimum liner thickness
- Use with One Gel Sock





SHAPE CAPTURE

For a DESIGN Liner



SHAPE CAPTURE FOR DESIGN LINER

OMEGA



• OMEGA Scanner 3D



Internal Tracing

Hand Casting



• Structure Sensor



OPTIONS

OMEGA System



OMEGA Scanner 3D

Scan the limb



Tracing Hardware

Digitize the inside of a cast

Structure Sensor



Use with an iPad and the Alpha **DESIGN** App or **OMEGA**



OBTAINING AN ALPHA DESIGN LINER

- Direct to WillowWood
 - Via e-file
 - Negative cast
- To WillowWood billed through Cascade
 - Via e-file
 - Negative cast





ALPHA DESIGN APP



ALPHA DESIGN APP

- Streamlined ordering process improves turnaround times
- Scan Transtibial and Transfemoral residual limbs
- Take photos of residual limbs
- Add clinical notes to scans
- Complete order form
- Submit scans, photos, clinical notes and order form







OMEGA 3D SCANNER

- Ideal for capturing deep scars and invaginations
- Stopping and resuming the scanning process is not a problem
- Projected structured light pattern
- Minimal reflective targets
- Accurate measurement









CASTING







PATIENT LIMB EXAMPLE

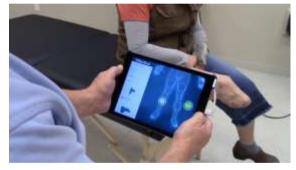




CAST OR SCAN











MORE WAYS



CAN ALSO SUBMIT CAST OR FILE (AOP, STL, OBJ)

Online order form available at www.willowwoodco.com

Alpha DESIGN BK Liner Form					
	Phiase unimplete this form for each	Phiase unreplate this form for each cast.			
	When casting for BK, please cast patient at least 4" to 5" above the knee.				
	Do NOT cast over a liner. Credit will not be given for inaccurate information provided.				
	If wording a cast, presswithip them to WillowWood at				
	15441 Sciots Darby Road				
	Mt. Starling, OH 43140 USA				
	Alpha DESIGN® BK Liner Order Form				
	Today's Date: *	=			
	WillowWood Account Number: *				
	Sawaran				
	P.O Number: *				
	Practitioner Name: *				
	First		Last		
	2.0000				
	Phone:*				



WHEN WILLOWWOOD RECEIVES YOUR ORDER

- Design technicians review the order
 - If you did not create the design yourself via OMEGA, technicians will create the design based on your notes
 - Technician will contact you if you requested a phone call or a webinar
- Liner gets put into production



CREATING AN ALPHA DESIGN LINER

- Send electronic file using:
 - Alpha DESIGN App
 - OMEGA
- Send negative plaster cast with order form
 - Bony landmarks
 - Anterior orientation as reference





PATIENT EXAMPLES



PATIENT EXAMPLE #1: EVALUATION AND ASSESSMENT

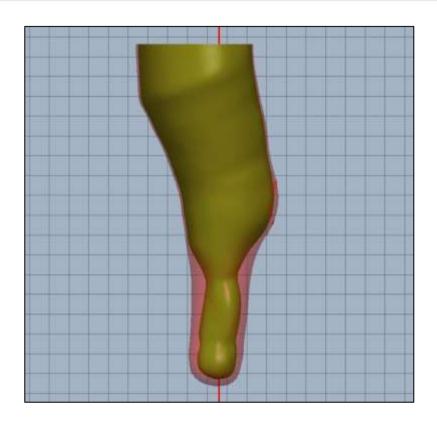
Pediatric born with umbilical cord wrapped around limb



Symes prosthesis with Alpha Liner and Impulse® Foot

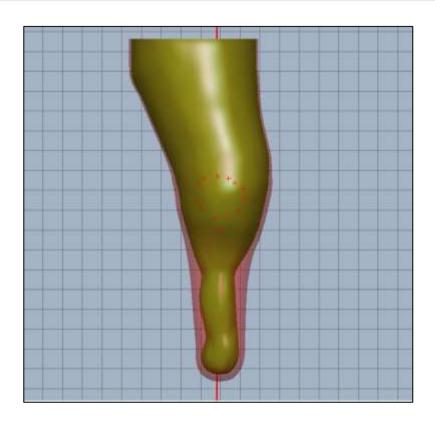


PATIENT EXAMPLE #1: LATERAL VIEW





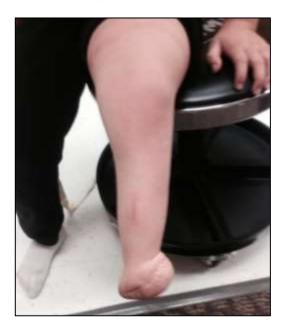
PATIENT EXAMPLE #1: ANTERIOR VIEW





PATIENT EXAMPLE #2: EVALUATION AND ASSESSMENT

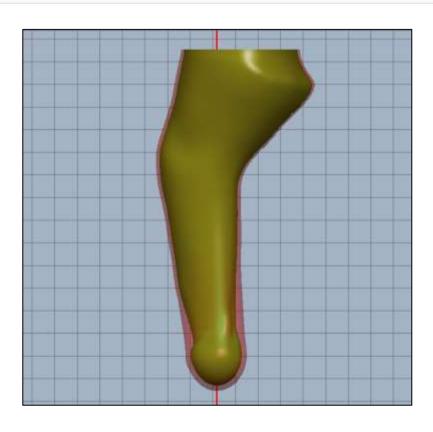
Symes with very bulbous end



Symes prosthesis with Alpha Liner and Impulse® Foot

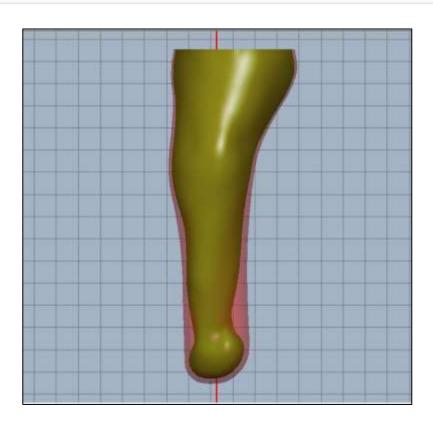


PATIENT EXAMPLE #2: LATERAL VIEW





PATIENT EXAMPLE #2: ANTERIOR VIEW





PATIENT EXAMPLE #3: EVALUATION AND ASSESSMENT

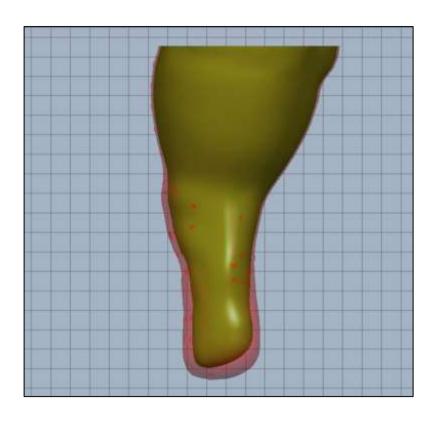
Mature residual limb with larger thigh



Symes prosthesis with Alpha Liner and Impulse® Foot

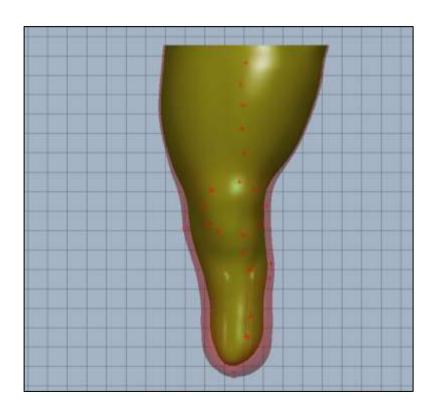


PATIENT EXAMPLE #3: LATERAL VIEW



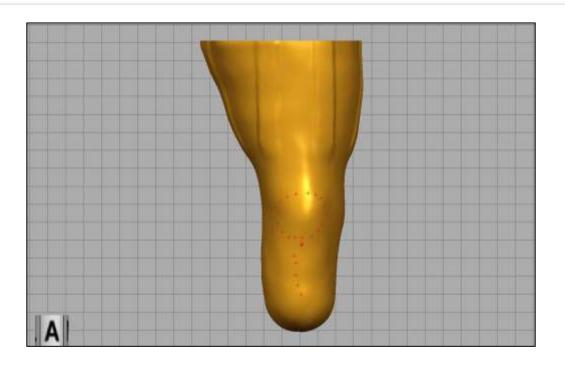


PATIENT EXAMPLE #3: ANTERIOR VIEW





PATIENT EXAMPLE #3: OPTIONAL STAYS







LINER PRICING/WARRANTY



PRICING

Description	Cushion	Locking
DESIGN Liner from OMEGA	\$400	\$430
DESIGN Liner from cast or .aop file	\$450	\$480
Duplicate DESIGN Liner	\$300	\$350

- AK Comfort Cuff Add-On \$35.00
- Webinar Assist \$75.00
- Shape File Modification Assist \$50.00
- Cancellation of order in production \$75.00



LEAD TIMES

Classic5 days

• Hybrid 10 days

Duo
 10 days

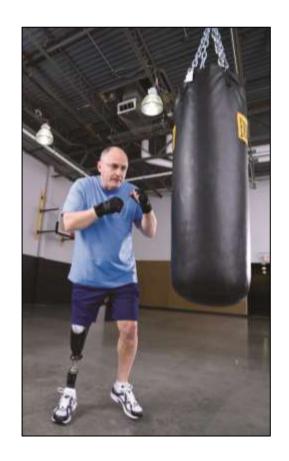


Duplicate liners take the same time to fabricate



WARRANTY

- 30-day trial period for overcoming any patient rejection reasons
- 12-month warranty per liner (based on the fit date)







LIMBLOGIC

Mechanical and Electronic



LIMBLOGIC

- LimbLogic options
 - LimbLogic M (TT)
 - Distal Mount
 - Side Mount (TF)
- Vacuum Settings
- Static and Dynamic test socket fitting

- One System
- LimbLogic Field Diagnostics
- Warranty





LIMBLOGIC M



INTRODUCTION

- LimbLogic M is a mechanical vacuum pump that operates by compressing with each step
- Adjustable vacuum and stiffness settings
- Inline assembly
- Low build height
- Flexibility in componentry selection





TWO VERSIONS

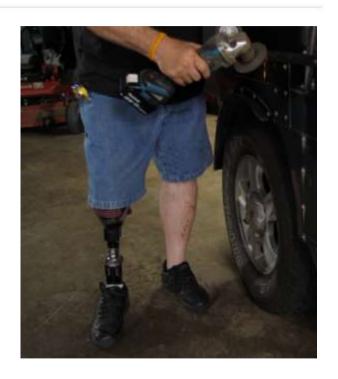
- Standard (LLM-1000-L)
 - 160 330 lb (75 kg -150 kg) weight limit (up to K3 activity level)
 - 160 300 lb (75 kg 136 kg)
 (K4 activity level)
- Light (LLM-1001-L)
 - 100 170 lb (45 kg 77 kg) weight limit





CARE AND MAINTENANCE

- Water resistant
 - Not waterproof; do not submerge
- Low maintenance requirement
 - Do not apply oil or grease
- Not field serviceable







LIMBLOGIC

WillowWood



FEATURES



DISTAL AND SIDE MOUNT



Product weight: 209 g



Product weight: 225 g



FEATURES

- Patient weight limit for Distal Mount 160 kg (136 kg for K4)
- Utilizes Bluetooth® Low Energy
- iOS Patient and Clinician Apps
- Waterproof in fresh water to a depth of 3.0 m
 - Fob is NOT waterproof
- Vacuum scale to 20



