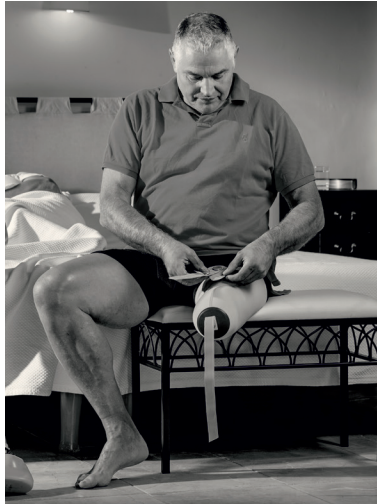


**ottobock.**

## Skeo – Caleo – Uneo

Liner selection tool



## Introduction

This brochure is designed to help you select the right liner and corresponding suspension system for your user.

In the combinations section, an appropriate fitting option is suggested with the help of a graphical overview. To find the suggested liner option, you select the preferred suspension system (KISS Lanyard System, Shuttle Lock, Valve, DVS or Harmony) and are directed to the liner ranges to be used (Skeo, Caleo, Uneo).

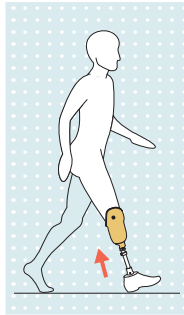
### **Liner information**

To find out more about the various liners, simply use the tabs. These give you a quick overview of taking measurements, liner sizes, wall thicknesses and the unique features of the liner.

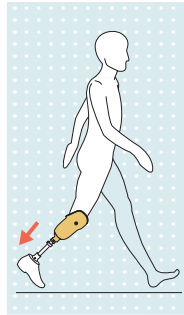
## The prosthetic socket

During the gait cycle, movements occur in the socket. Different residual limb shapes, suspension method, and mobility grades lead to different stresses on the residual limb.

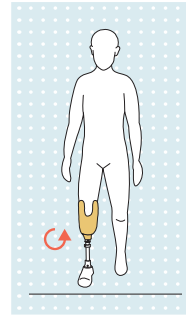
The movements that occur in the socket during all activities can cause damage to the residual limb. They also affect the connection and fit of the prosthesis. The objective of Socket Technologies is to control these movements.



**Thrusting movements** occur at heel strike. Soft liner materials and shock absorbing prosthetic feet dampen the thrusting movement.



**Tensile movements** occur during the swing phase. With the right liner material and a suitable suspension system, tensile movement can be controlled.



**Rotational movements** occur during the stance phase. With the help of special suspension systems and through the shape of the socket, rotational movement can be controlled.

## Liner ranges



### Skeo - Silicone

Skeo liners are very durable. They stabilize soft tissue and are easy to use. This is due to a low-friction textile cover or a silky smooth exterior coating. They are also easy to clean.



### Caleo - Copolymer (TPE)







Caleo liners are very elastic. They have thermoplastic properties and can therefore be adapted to the residual limb. Medical white oil in the material has a nourishing effect, making it ideal for dry skin as well.



### Uneo - Urethane

The Uneo liners ensure a precise and comfortable fit thanks to their outstanding flow properties. They help ensure excellent pressure distribution in the socket. Uneo liners dampen impacts and cushion even sensitive, bony or scarred residual limbs.

## Optimal combination options

Material		Skeo - Silicone		Caleo - Copolymer (TPE)		Uneo - Urethane	
		transfemoral	transtibial	transfemoral	transtibial	transfemoral	transtibial
		Suspension system					
	<b>KISS Lanyard System</b>	✓	-	-	-	-	-
	<b>Shuttle Lock</b>	✓	✓	-	✓	-	-
	<b>Valve</b>	✓	✓	-	✓	✓	✓
	<b>Dynamic Vacuum System</b>	-	-	-	✓	-	-
 	<b>Harmony</b>	✓	-	-	-	✓	✓

## Skeo – Silicone Liners

### **Durable material for an active lifestyle**

Skeo liners are easy to fit and manage, with unique and advanced features that create a superior connection with the skin. All are designed to support extended, comfortable wear for your patients throughout varying conditions.

### **Product Highlights**

- Durable silicone material
- Textured inner surface on all Skeo liners for good connection with skin, even during sweating.
- Slick textile and outer surface for easy donning and doffing
- Distal matrix on TT liners for less pistoning and full length matrix on TF liners for full control.
- Available in locking and cushion versions

**Skeo Pure** a transparent liner that makes it easy to monitor fit and skin condition.

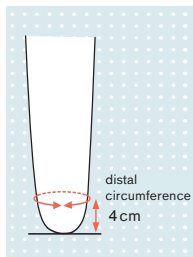
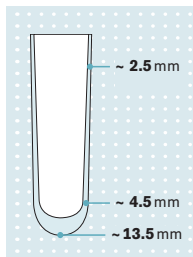
**Skeo Skinguard** with antibacterial properties that improve hygiene and promote healthy skin.

**Skeo 3D** comes closer to the human anatomy for unmatched wearing comfort and fit with build ups over the tibial crest and fibula head, pre-flexed to 20 degrees and thinner around the knee for easier bending.

**Skeo Unique** – when custom is the best option. Available with many options such as varying durometers, covering, lock, custom colors.



# Skeo



<b>Article number</b>	<b>6Y42</b>
<b>Amputation level</b>	transtibial (TT)
<b>Distal connection</b>	with
<b>Textile cover</b>	with
<b>Matrix</b>	10 cm length
<b>Sizes</b> in mm (see distal circumference)	<b>180 mm, 200 mm, 210 mm, 220 mm, 235 mm, 250 mm, 265 mm, 280 mm, 300 mm, 320 mm, 340 mm, 360 mm, 380 mm, 400 mm, 420 mm, 450 mm</b>



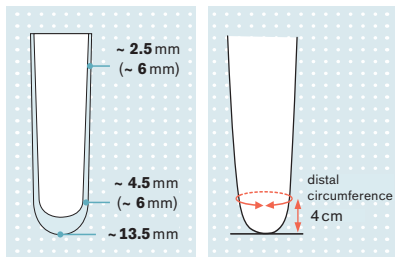
Measure the residual limb circumference 4 cm above the distal end of the residual limb and select the liner size corresponding to this measurement or the next smaller size.

## Article no. (ordering example):

Reference number	=	Size
<b>6Y42</b>	=	<b>280</b>

6Y42, 6Y41, 6Y43,  
6Y75, 6Y85

# Skeo Pure



Values in parentheses apply to the 6Y41=\*-6 uniform version

6Y42, 6Y41, 6Y43,  
6Y75, 6Y85

Article number	6Y41	6Y41=*-6 (uniform)	6Y43
<b>Pure</b>	Transparency simplifies checking fit and appearance of the skin		
<b>Amputation level</b>	transtibial (TT)	transtibial (TT)	transtibial (TT)
<b>Distal connection</b>	without	without	with
<b>Textile cover</b>	without	without	without
<b>Matrix</b>	without	without	10 cm length
<b>Sizes</b> in mm (see distal circumference)	<b>160, 180, 200, 220, 235, 250, 265, 280, 300, 320, 340, 360, 400</b>	<b>160, 180, 200, 220, 235, 250, 265, 280, 300, 320, 340, 360, 400</b>	<b>120, 140, 160, 180, 200, 210, 220, 235, 250, 265, 280, 300, 320, 340, 360, 380, 400, 420, 450</b>

**i** Measure the residual limb circumference 4 cm above the distal end of the residual limb and select the liner size corresponding to this measurement or the next smaller size.

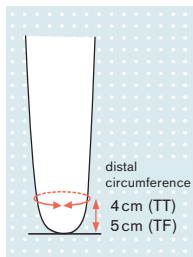
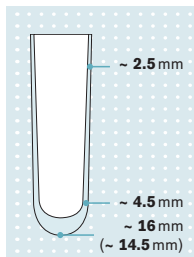
## Article no. (ordering example):

Reference number = Size

**6Y43 = 280**



# Skeo Skinguard



Value in parentheses applies to the 6Y85 version

6Y42, 6Y41, 6Y43,  
6Y75, 6Y85

Article number	6Y75	6Y85
<b>Skinguard</b>	with antibacterial properties that improve hygiene and protect the liner material	
<b>Amputation level</b>	transtibial (TT)	transfemoral (TF)
<b>Distal connection</b>	with	with
<b>Textile cover</b>	with	with
<b>Matrix</b>	10 cm length	continuous matrix
<b>Sizes</b> in mm (see distal circumference)	<b>160 mm, 180 mm, 200 mm, 210 mm, 220 mm, 235 mm, 250 mm, 265 mm, 280 mm, 300 mm, 320 mm, 340 mm, 360 mm</b>	<b>280 mm, 300 mm, 320 mm, 340 mm, 360 mm, 380 mm, 400 mm, 420 mm, 450 mm, 500 mm, 550 mm</b>

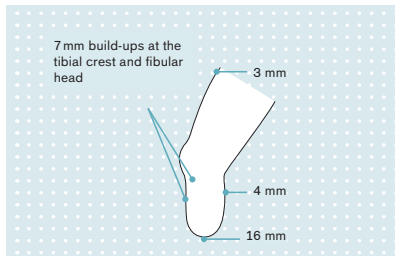


Measure the residual limb circumference 4 cm (TT) or 5 cm (TF) above the distal end of the residual limb and select the liner size that corresponds to this measurement or the next smaller size.

## Article no. (ordering example):

Reference number	=	Size
<b>6Y75</b>	=	<b>280</b>

# Skeo 3D Skinguard (TT)



<b>Article number</b>	<b>6Y78</b>		
<b>3D</b>	anatomical shape oriented to the natural contours of the residual limb with antibacterial properties that improve hygiene and protect the liner material		
<b>Skinguard</b>	with antibacterial properties that improve hygiene and protect the liner material		
<b>Amputation level</b>	transibial (TT)		
<b>Distal connection</b>	with		
<b>Textile cover</b>	with		
<b>Matrix</b>	Distal Matrix - dependant on limb length		
<b>Size</b>	Residual limb length below the MPT		
Circumference	<b>75 mm</b>	<b>125 mm</b>	<b>175 mm</b>
4 cm from distal	(50–100 mm)	(100–150 mm)	(150–200 mm)
<b>180 mm</b> (185–205 mm)		●	
<b>200 mm</b> (205–225 mm)		●	
<b>220 mm</b> (225–245 mm)		●	●
<b>235 mm</b> (240–260 mm)		●	●
<b>250 mm</b> (255–275 mm)		●	●
<b>265 mm</b> (270–290 mm)	●	●	●
<b>280 mm</b> (285–305 mm)		●	●
<b>300 mm</b> (305–325 mm)			●
<b>320 mm</b> (325–345 mm)			●

## Article no. (ordering example):

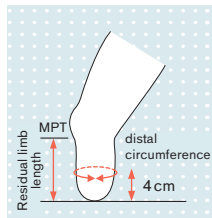
Reference number = Size x residual limb length

**6Y78 = 180 x 125**

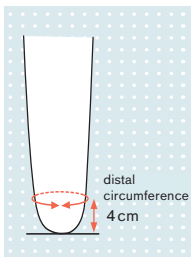
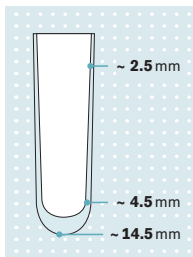


**Two measurements are needed to determine the correct size of the liner:**

- 1 Measure the length from the MPT to the end of the residual limb to determine residual limb length.
- 2 Measure the circumference 4 cm above the end of the residual limb to determine residual limb circumference.
- 3 Select the article number in the table according to the measurements taken.



## Skeo 3D Skinguard (TF)



<b>Article number</b>	<b>6Y88</b>
<b>3D</b>	Tapered distal shape and cylindrical proximal shape to match limb contours
<b>Skinguard</b>	with antibacterial properties that improve hygiene and protect the liner material
<b>Amputation level</b>	transfemoral (TF)
<b>Distal connection</b>	with
<b>Textile cover</b>	with
<b>Matrix</b>	continuous matrix
<b>Sizes</b> in mm (see distal circumference)	<b>250 mm, 265 mm, 280 mm, 300 mm, 320 mm, 340 mm, 360 mm, 380 mm, 400 mm, 450 mm</b>

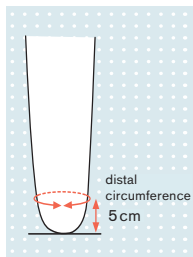
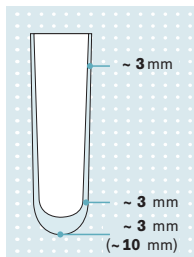


Measure the residual limb circumference 4 cm above the distal end and select the liner size that is next smaller than this measurement. As the conical shape of this liner runs bigger, if the measurement is close to a specific size go even one more smaller.

### Article no. (ordering example):

Reference number	=	Size
<b>6Y88</b>	=	<b>280</b>

# ProSeal



Value in parentheses applies to the 6Y81=-10 version

6Y78, 6Y88, 6Y81,  
Skeo Unique

Article number	6Y81 (Canada Only)	6Y81=-10 (USA Only)
Amputation level	transfemoral (TF)	transfemoral (TF)
Distal connection	without	without
Textile cover	without	without
Matrix	without	without
Sizes in mm (see distal circumference)	280 mm, 300 mm, 320 mm, 340 mm, 360 mm, 380 mm, 400 mm, 420 mm, 450 mm, 500 mm, 550 mm	280 mm, 300 mm, 320 mm, 340 mm, 360 mm, 380 mm, 400 mm, 420 mm, 450 mm, 500 mm, 550 mm



Measure the residual limb circumference 5 cm above the distal end of the residual limb and select the liner size that corresponds to this measurement or the next smaller size.

## Article no. (ordering example):

Reference number = Size (-10 mm distal cushion)

6Y81 = 320-10

## Skeo Unique



Our custom liner is an excellent solution when an individual fit is needed. The Skeo Unique liners are hand-crafted to a high degree of flexibility and durability from our silicone services fabrication team. Ideal for highly conical shapes, scarring, multiple durometers, and when custom colors are desired for a truly personal touch.

### **Skeo Unique**

**88L**

Custom liner, silicone Service Fabrication from a plaster cast

## Caleo – Copolymer (TPE) Liners

### **Medical grade mineral oil for healthy limbs**

The liner defines the feeling a person has for his or her prosthesis. The liner needs to do more than feel good. It needs to protect and cushion their limb as well from the first use and as long as they wear the liner. We've drawn on deep experience from technicians around the world to provide a TPE liner to better meet the needs of your patients.

### **Product Highlights**

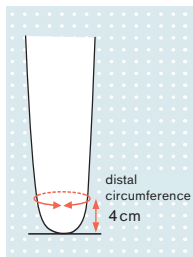
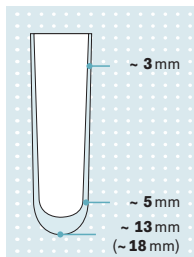
- TPE material is highly elastic
- Easy for patients to flex their knee
- Contains white oil that help relieve dry skin
- TPE can be thermoformed to individualize fit
- Well suited for lower and moderate activity users
- Available in locking and cushion versions

**Caleo 3D** with 6mm anterior thickness over the bony areas for protection and 3mm posterior for easier flexion and less bunching behind the knee.

**DVS Liner** also with 3D dimensions with special distal connection for specific use in the Dynamic Vacuum System for improved fit and connection to the prosthesis.



# Caleo



Value in parentheses applies to the 6Y90 version

<b>Article number</b>	<b>6Y90</b>	<b>6Y92</b>
<b>Amputation level</b>	transtibial (TT)	transtibial (TT)
<b>Distal connection</b>	with	without
<b>Textile cover</b>	with	with
<b>Matrix</b>	10 cm length	without
<b>Sizes</b> in mm (see distal circumference)	<b>200 mm, 250 mm, 280 mm, 320 mm, 360 mm</b>	



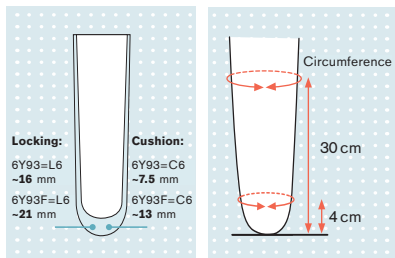
Measure the residual limb circumference 4 cm above the distal end of the residual limb and select the liner size corresponding to this measurement or the next smaller size.

## Article no. (ordering example):

Reference number	=	Size
<b>6Y92</b>	=	<b>280</b>

6Y90, 6Y92,  
6Y93, 6Y94.

# Caleo 3D



Article number	6Y93=L6 / 6Y93F=L6	6Y93=C6 / 6Y93F=C6
<b>3D</b>	thicker front (6 mm) to protect the bony structures and thinner back (3 mm) for easier flexion	
<b>Amputation level</b>	transtibial (TT)	transtibial (TT)
<b>Distal connection</b>	with	without
<b>Textile cover</b>	with	with
<b>Matrix</b>	without	without
<b>Sizes</b> in mm (see distal circumference)	4 cm from distal	
	min	max
S	150	260
M	180	310
MP	200	310
L	230	350
LP	280	430
XL	330	500
	30 cm from distal	
	min	max
S	200	330
M	230	410
MP	330	560
L	360	560
LP	400	630
XL	430	690

**i** Measure the residual limb circumference 4 cm and 30 cm above the distal end of the residual limb and select the liner size corresponding to this measurement or the next smaller size.

## Article no. (ordering example):

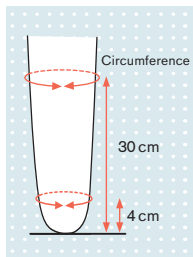
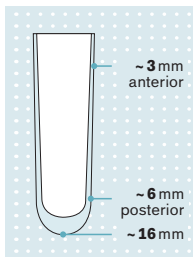
Reference number = Size

**6Y93(F)** = **C6-M (F= liner length 50 cm)**

6Y90, 6Y92,  
6Y93, 6Y94.



# DVS liner



**Article number**

**6Y94**

**3D**

thicker front (6 mm) to protect the bony structures and thinner back (3 mm) for easier flexion

**Amputation level**

transtibial (TT)

**Distal connection**

with DVS connection

**Textile cover**

with

**Matrix**

without

**Sizes in mm**

4 cm from distal

30 cm from distal

(see distal circumference)

	4 cm from distal		30 cm from distal		
	min	max	min	max	
S	150	260	S	200	330
M	180	310	M	230	410
MP	200	310	MP	330	560
L	230	350	L	360	560
LP	280	430	LP	400	630
XL	330	500	XL	430	690



Measure the residual limb circumference 4 cm and 30 cm above the distal end of the residual limb and select the liner size corresponding to this measurement or the next smaller size.

**Article no. (ordering example):**

Reference number = Size

**6Y94 = M**

6Y90, 6Y92,  
6Y93, 6Y94.

## Uneo – Urethane Liners

### **Soft, yielding material protects residual limbs**

Prosthesis wearers with sensitive, bony or scarred residual limbs need a liner made of a soft, yielding material that distributes itself well around the residual limb. They need a liner material that has excellent flow characteristics – like all the liners in the Uneo product range.

### **Product Highlights**

- Flow characteristics of the material provides a precise and comfortable fit, and therefore good pressure distribution within the prosthetic socket.
- Textured inner surface on Uneo 3D for good connection with skin, even during sweating.
- Ideal for suction and vacuum sockets with total surface weight bearing designs.

**Uneo Pure** a transparent liner that makes it easy to monitor fit and skin condition

**Uneo Skinguard** with antibacterial properties that improve hygiene and promote healthy skin

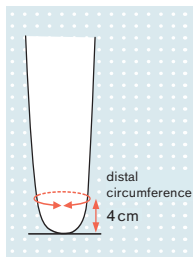
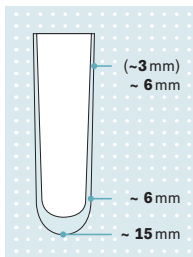
**Uneo 3D** comes closer to the human anatomy for unmatched wearing comfort and fit with build ups over the tibial crest and fibula head, pre-flexed to 20 degrees and thinner around the knee for easier bending.

**Uneo 3D Fresh** – pleasant fragrance to give the user a long-lasting fresh feeling.

**Uneo Unique** – when “off-the-shelf” is not the right fit. Available with many options including Skinguard, Fresh, with or without cover, and with our without lock.



## Uneo (6Y520 Uniform and 6Y523 Tapered)



Value in parentheses applies to the 6Y523 tapered version

Article number	6Y520=*-9 (Uniform)	6Y523 (Tapered)
Amputation level	transtibial (TT)	transtibial (TT)
Distal connection	without	without
Textile cover	with (beige color, -9)	with (Dark Gray color)
Matrix	without	without
Sizes in mm (see distal circumference)	190 mm, 230 mm, 290 mm, 330 mm, 400 mm	190 mm, 210 mm, 230 mm, 250 mm, 290 mm, 310 mm



Measure the residual limb circumference 4 cm above the distal end of the residual limb and select the liner size corresponding to this measurement or the next smaller size.

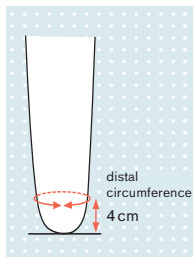
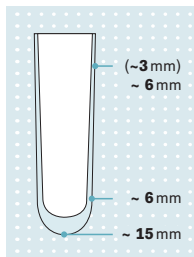
### Article no. (ordering example):

Reference number = Size x residual limb length (-textile)

6Y520 = 290 -9

6Y520, 6Y522,  
6Y523

## Uneo Pure (6Y520 Uniform and 6Y522 Tapered)



Value in parentheses applies to the 6Y522 tapered version

<b>Article number</b>	<b>6Y520</b>	<b>6Y522</b>
<b>Amputation level</b>	transtibial (TT)	transtibial (TT)
<b>Distal connection</b>	without	without
<b>Textile cover</b>	without	without
<b>Matrix</b>	without	without
<b>Sizes</b> in mm (see distal circumference)	<b>190 mm, 230 mm, 290 mm, 330 mm, 400 mm</b>	<b>190 mm, 210 mm, 230 mm, 250 mm, 290 mm, 310 mm</b>



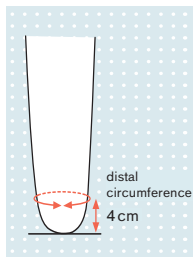
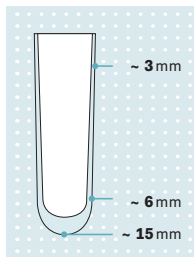
Measure the residual limb circumference 4 cm above the distal end of the residual limb and select the liner size corresponding to this measurement or the next smaller size.

### Article no. (ordering example):

Reference number	=	Size
<b>6Y520</b>	=	<b>290</b>

6Y520, 6Y522,  
6Y523

# Uneo Skinguard



Article number	6Y522=+-G	6Y523=+-G
<b>Skinguard</b>	with antibacterial properties that improve	hygiene and protect the liner material
<b>Amputation level</b>	transtibial (TT)	transtibial (TT)
<b>Distal connection</b>	without	without
<b>Textile cover</b>	without	with (Dark Gray color)
<b>Matrix</b>	without	without
<b>Sizes</b> in mm (see distal circumference)	<b>190 mm, 210 mm, 230 mm, 250 mm, 290 mm, 310 mm</b>	

**i** Measure the residual limb circumference 4 cm above the distal end of the residual limb and select the liner size corresponding to this measurement or the next smaller size.

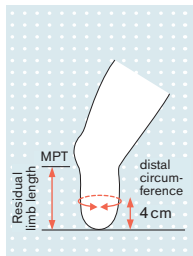
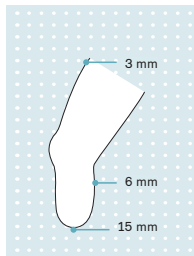
## Article no. (ordering example):

Reference number = Size -G (-Skinguard)

**6Y523 = 290 (-G)**

6Y520, 6Y522,  
6Y523

# Uneo Flex



<b>Article number</b>	<b>6Y510</b>		
<b>Flex</b>	Pre-flexed for easier knee flexion		
<b>Distal connection</b>	without		
<b>Textile cover</b>	Textile cover optional, beige (-9)		
<b>Matrix</b>	without		
<b>Sizes</b> in mm	Residual limb length from MPT to distal end		
Circumference	<b>75 mm</b>	<b>125 mm</b>	<b>175 mm</b>
4 cm from distal			
<b>175 mm</b>	●		
<b>200 mm</b>	●		
<b>210 mm</b>		●	●
<b>225 mm</b>	●		
<b>235 mm</b>		●	●
<b>250 mm</b>	●		
<b>260 mm</b>		●	●
<b>275 mm</b>	●		
<b>285 mm</b>		●	●
<b>300 mm</b>	●		
<b>310 mm</b>		●	●
<b>325 mm</b>	●		

## Article no. (ordering example):

Reference number = Size x length

**6Y510 = 210 x 125**

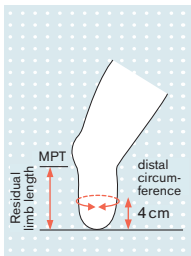
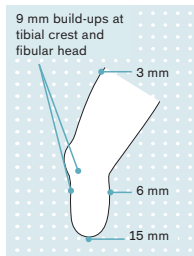


Two measurements are needed to select the correct size for this liner.

Measure limb length MPT to distal and circumference 4 cm above distal and select appropriate sizes from chart or next smaller size.

6Y510, 6Y512,  
Uneo Unique

# Uneo 3D



<b>Article number</b>	<b>6Y512</b>		
<b>3D</b>	anatomical shape oriented to the natural contours of the residual limb		
<b>Skinguard</b>	with antibacterial properties that improve hygiene and protect the liner material		
<b>Amputation level</b>	transtibial (TT)		
<b>Distal connection</b>	without		
<b>Textile cover</b>	without or with optional partial fabric cover (-F)		
<b>Matrix</b>	without		
<b>Size</b>	Residual limb length below the MPT		
Circumference 4 cm from distal	<b>75 mm (50–100 mm)</b>	<b>125 mm (100–150 mm)</b>	<b>175 mm (150–200 mm)</b>
<b>210 mm (215–235 mm)</b>		●	●
<b>235 mm (240–265 mm)</b>		●	●
<b>250 mm (255–275 mm)</b>	●		
<b>265 mm (260–280 mm)</b>		●	●
<b>280 mm (285–310 mm)</b>		●	●
<b>300 mm (310–335 mm)</b>		●	●

**i** Two measurements are needed to select the correct size for this liner. Measure limb length MPT to distal and circumference 4 cm above distal and select appropriate sizes from chart or next smaller size.

### Article no. (ordering example):

Reference number = Size x residual limb length (- partial textile) (-Skinguard)

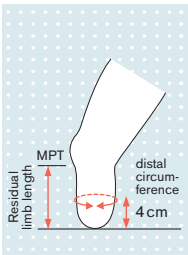
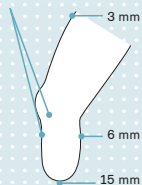
**6Y512 = 210 x 125 -F -G**

6Y510, 6Y512,  
Uneo Unique

# Uneo 3D Fresh



9 mm build-ups at tibial crest and fibular head



<b>Article number</b>	<b>6Y512=+-P</b>		
<b>Fresh</b>	Fragrance to give the user a long-lasting fresh feeling		
<b>3D</b>	anatomical shape oriented to the natural contours of the residual limb		
<b>Amputation level</b>	transtibial (TT)		
<b>Distal connection</b>	without		
<b>Textile cover</b>	without or with optional partial fabric cover (-F)		
<b>Matrix</b>	without		
<b>Size</b>	Residual limb length below the MPT		
Circumference 4 cm from distal	<b>75 mm (50–100 mm)</b>	<b>125 mm (100–150 mm)</b>	<b>175 mm (150–200 mm)</b>
<b>210 mm (215–235 mm)</b>		●	●
<b>235 mm (240–265 mm)</b>		●	●
<b>250 mm (255–275 mm)</b>	●		
<b>265 mm (260–280 mm)</b>		●	●
<b>280 mm (285–310 mm)</b>		●	●
<b>300 mm (310–335 mm)</b>		●	●



Two measurements are needed to select the correct size for this liner. Measure limb length MPT to distal and circumference 4 cm above distal and select appropriate sizes from chart or next smaller size.

## Article no. (ordering example):

Reference number = Size x length

**6Y512 = 210 x 125 -F -P**

6Y510, 6Y512,  
Uneo Unique



## Uneo Unique



Due to the special properties of polyurethane gel, Uneo Unique custom liners give patients good pressure distribution, high shock absorption and elasticity. Its material properties make the individual Uneo Unique custom liner well suited for scarred, bony and especially sensitive residual limbs. These benefits may be very important, especially for diabetes patients.

**Ottobock has several ordering options to meet the individual needs of your patient:**

- Uneo Unique custom liners for transtibial, transfemoral, Syme and transmalleolar amputations and for knee disarticulation
- with or without textile cover
- with or without distal connection
- with the Skinguard antibacterial agent or Fresh fragrance
- with varying wall thicknesses
- complex features such as knee flexion  $>15^\circ$ , a bulging, eccentric or concave residual limb end, pronounced retracted scar tissue or extra large size (length  $>50$  cm, circumference  $>50.5$  cm)

Individual Uneo Unique custom liners are ordered from a plaster cast, from a scanner file, or from a test socket for TF liners.

## Accessories



**756L10**

### **Liner trimmer**

For trimming and rounding off the proximal cut edge of a liner without a textile cover.

**756Y84**

### **Replacement blades for liner trimmer**



**719S7**

### **Special scissors for cutting synthetics**

For cutting liners with a textile cover.

The special coating of the scissors for synthetic fibers ensures effective protection against abrasive wear and tear. The coating makes the scissor blades especially durable.



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