

# C-Leg 4

Reclaim your determination.



Quality for life

# Reliable

## A recognized leader

When you want dependability you can count on, turn to the C-Leg, with an unmatched, industry-leading track record.

The C-Leg prosthetic knee lets people live more actively and independently, reclaiming the things that make life fuller and more fulfilling.



1997

The C-Leg sets a new standard as the world's first completely microprocessor-controlled prosthetic knee



2006

Additional features such as the remote control and updated software complement new color choices



2011

Ongoing product development delivers measurable results like optimized stumble recovery and improved swing phase

Ottobock's C-Leg prosthetic knee is worn by more people worldwide than any other prosthetic knee. People rely on the C-Leg to help them reclaim their determination and live the life they desire.

In 1997, the C-Leg began to set a new standard with its unique ability to deliver safety and freedom of movement, backed by studies documenting dramatically improved outcomes.

### Groundbreaking technology

Every iteration of the C-Leg continually improves on the control strategies that enable real time adaptation to the wearer's gait, changes in surface, or speed, even when traversing unstable ground, stairs, or ramps. Thanks to the speed at which stance phase resistance is adjusted, people who wear the C-Leg experience a reduction in falls and

More than 60,000 fittings since 1997

stumbles\*, making it easier to navigate crowds and across unstable surfaces like sand, grass or gravel. Most critically, more than 40 studies have shown the effectiveness of the C-Leg prosthetic system, proving outcomes that improve daily life\*.

\* International C-Leg Studies, published by Otto Bock HealthCare GmbH, 3rd Edition, 2014, 646B33=GB-05-1403

**More than 40 studies verify the benefits that personal stories illustrate\*:**

- significantly reduced falls
- increased activity and a larger radius of movement
- fewer distractions, since more stability means attention isn't focused on avoiding obstacles
- enhanced confidence in the prosthesis

Ultimately, these results indicate that improving stability improves health outcomes as well as quality of life.

The C-Leg 4 starts a new era: new features and expanded function equal less worry for users and practitioners alike.

2015



# More advanced functions, More user benefits

C-Leg 4 offers all the benefits of previous iterations, with a focus on making it simpler to fit and even easier to use.



more advanced  
stable  
more dynamic  
easier

## New patented function, more stability, more activity

Our goals are always to reduce the effort the user needs to manage their prosthesis, to improve function, and to make the knee easier to fit. The C-Leg 4 prosthetic knee delivers in all areas, including:

- increasing function
- jettisoning the need for a special pylon
- simplifying the fitting process

We've added a user-friendly smartphone app that gives users more choice, reduced the system height by 1.7 inches/4.3 cm, tested for water exposure, and added a new activity report feature.

One of the many improvements that make C-Leg 4 uniquely easier to use is a patented method that improves the transition to swing phase and makes walking backwards safely possible. By refining C-Leg 4 function, changing walking speeds are controlled efficiently and effectively, even when steps are small or surfaces are challenging.



more dynamic  
 more advanced easier  
 stable



more dynamic stable  
 easier more advanced

### Real-time swing phase control fueled by 3D motion analysis

Since motion occurs in three dimensions, the C-Leg 4 utilizes multiple data sources to ensure swing phase resistance is precisely what it needs to be at every moment of every step. As a result, C-Leg 4 lets users easily navigate ramps, stairs, and nearly every type of challenging surface. For even more freedom of movement with a more effortless walking experience.

### Strengthened stance and stumble recovery support

Users now have the ability to choose between the familiar C-Leg stance function or Intuitive Stance which recognizes when they have stopped and locks the knee in a slightly flexed position to provide maximum stability and comfort on uneven surfaces, ramps, and slopes.

Stance extension damping is more sophisticated, adjusting and readjusting with every step in real time.

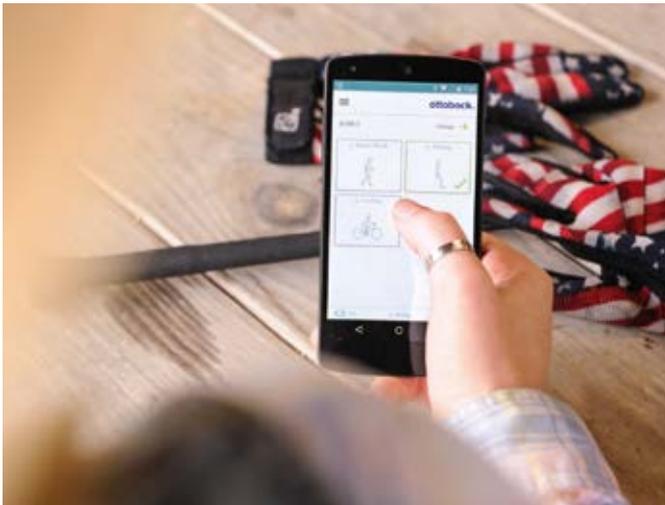
### Avoiding falls: the only proven choice\*

We know that maintaining the user's stability at every level of activity is your first priority. C-Leg 4 takes stability to a new level by activating a permanently higher resistance than in stance phase during the whole swing phase extension. This ensures that the proper amount of resistance is in place to enable recovery in the event of a stumble.

### Walking backwards

The C-Leg 4 makes safe walking backwards without cognitive effort possible for the user.

\* International C-Leg Studies, published by Otto Bock HealthCare GmbH, 3rd Edition, 2014, 646B33=GB-05-1403



more advanced  
 more dynamic  
 stable easier



**Clinical improvements:  
 C-Soft Plus activity report**

Being able to assess the user's activity is an important part of managing and documenting the user's progress towards their rehabilitation goals.

The activity report is integrated into the new C-Soft Plus software, providing a range of information at a glance for easy evaluation.

**The report includes:**

- Average number of steps per day
- Average walking speed
- Number of steps on slopes, ramps, and stairs
- Time totals for walking, sitting, standing, and use of MyModes
- Information to reflect negotiating low-level environmental barriers and use of stance phase flexion

**Adapting automatically to every step**

With C-Leg 4, the knee is ready for the user's next move. Enhanced stumble recovery, improvements in stance and swing phase control, and the addition of Intuitive Stance offers more support for activities of daily life.

**More clearance, more choice**

A new, naturally-shaped frame design has reduced the system height, letting people with less clearance benefit from the stability and smooth function of the C-Leg 4. Ottobock's recommended foot choices offer a range of clearance and function as well.

**Wet or dry**

Everyday life occasionally gets a little damp. The weatherproof C-Leg 4 can handle it, whether the user runs into a rainstorm or gets splashed while watering the garden.

**MyModes**

C-Leg 4 helps people master everyday life more confidently. With two additional MyModes, the knee can be adjusted to meet an individual's specific requirements for unique activities such as biking, dancing, or golfing.

**Smart control**

For the first time, users can quickly switch between MyModes and monitor battery life using the new Cockpit app for Android. The optional remote control also supports this functionality. Both options use integrated Bluetooth® technology.

**Be seated**

The new sitting function automatically switches C-Leg 4 to free-swing when the individual sits down, resulting in a relaxed position and activation of a battery save mode.

# Technical specifications

Article number	3C98-3	3C88-3	3C98-3=9.2	3C88-3=9.2
<b>Color</b>	Volcano shadow		Desert pearl	
<b>Proximal connection</b>	Pyramid adapter	Screw-top connector	Pyramid adapter	Screw-top connector
<b>Distal connection</b>	Tube clamp			
<b>Weight</b> (without tube adapter)	1235 g	1240 g	1235 g	1240 g
<b>Prox. system height up to alignment reference point</b>	5 mm	23 mm	5 mm	23 mm
<b>Minimum distal system height</b>				
<b>with 2R57* tube adapter</b>			289 mm	
<b>with 2R67 tube adapter</b> (torsion unit)			329 mm	
<b>Maximum distal system height</b>				
<b>with 2R57* tube adapter</b>			494 mm	
<b>with 2R67 tube adapter</b> (torsion unit)			534 mm	
<b>Knee flexion angle</b>	130° without flexion stop <sup>1</sup>			
<b>Frame material</b>	Carbon			
<b>Moisture protection</b>	Weatherproof			
<b>Mobility grade</b>	2, 3, 4			
<b>Max. body weight</b>	136 kg / 300 lbs			

<sup>1</sup> Flexion stop reduces the knee flexion angle by 8°.



## Tube adapter

Article number	2R57	2R67 (torsion unit)
<b>Weight</b>	220 g	520 g
<b>Material</b>	Aluminium/titanium	Aluminium/steel
<b>Moisture protection</b>	Weatherproof	–
<b>Max. body weight</b>	136 kg / 300 lbs	125 kg / 225 lbs

# Protect the user's investment

The C-Leg 4 Protective Cover safeguards the system against jolts, the environment, and normal wear and tear. A redesigned contoured shape mimics natural leg volume and can be shortened.



The C-Leg 4 Protective Cover, which consists of a frame, a shield insert, and a foot cuff, delivers both practical protection and attractive cosmesis. The knee section is anatomically designed for easy kneeling and with a smooth surface to easily slip under clothing. Users can further customize their limb by choosing from three shield insert designs.

### Order example

The C-Leg 4 Protective Cover is ordered with the following article numbers:

1. 4X860= C-Leg Protective Cover (without shield)  
Includes the frame and 4P880= foot cuff in size S, M or L
2. 4P863= Shield Insert (with choice of pattern)

### Prosthetic foot recommendations

**Important note:** Generally the C-Leg 4 Protective Cover can be used for a Knee-axis-to-Floor-distance from 430 mm to 560 mm (from 470 mm to 560 mm with 1C61 Triton vertical shock). The foot cuff included with the Protective Cover is not compatible with slim footshells.

Prosthetic foot		Foot cuff		
Description	Reference number	S	M	L
Triton	1C60	24–25	26–28	29–30
Triton vertical shock	1C61	24–25	26–28	29–30
Triton LP	1C63	24–25	26–28	29–30
Triton HD	1C64	24–25	26–28	29–30
Trias	1C30	24–25	26–28	29–30
C-Walk	1C40	24–25	26–28	29–30
Dynamic Motion	1D35	24–25	26–28	29–30
Adjust	1M10	24–25	26–28	29–30
Axtion	1E56	24–25	26–28	29–31
Lo Rider	1E57	24–25	26–28	29–31
Meridium	1B1	24–25	26–29	–



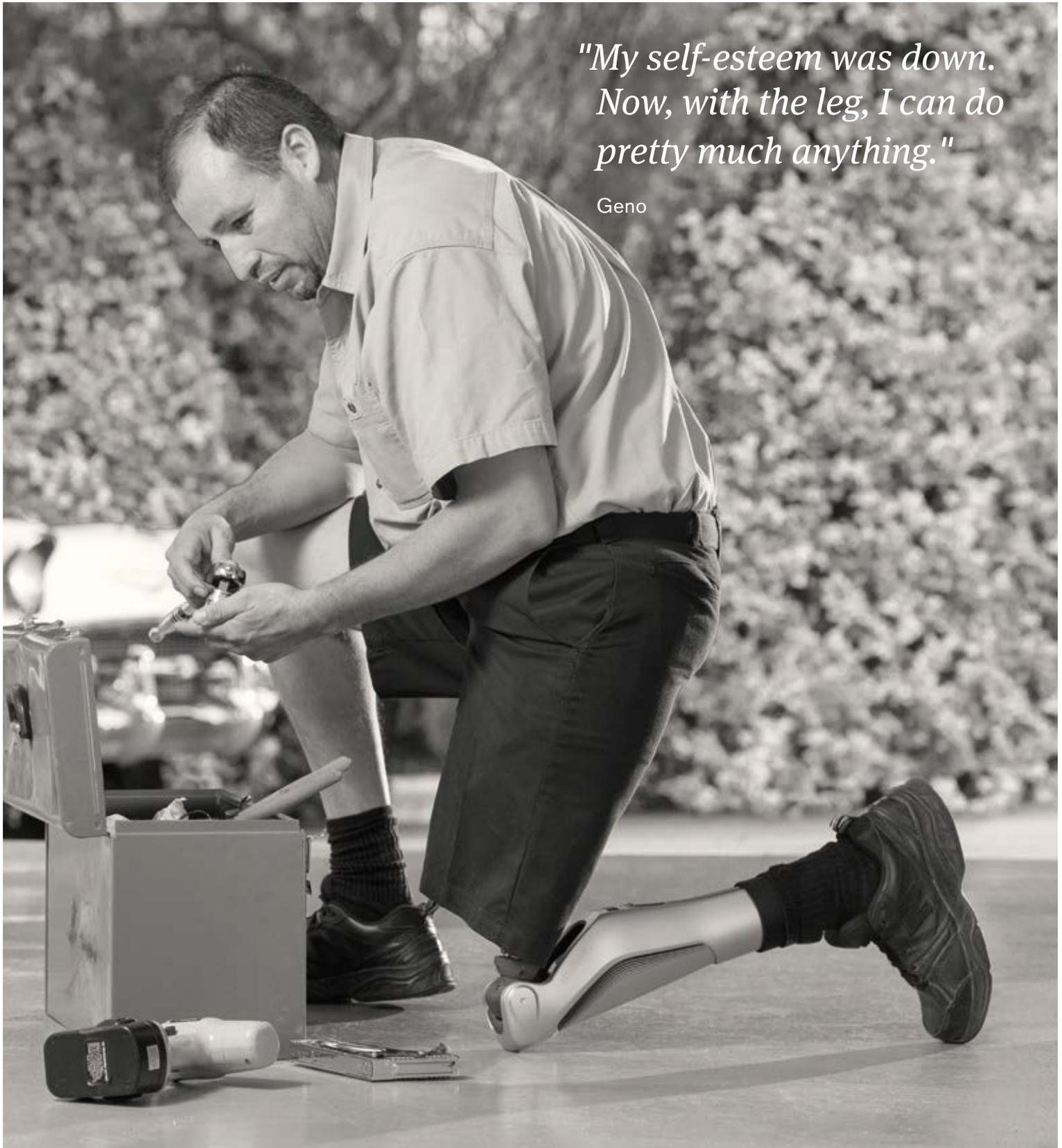
647G1113  
Instructions for  
use(professional)

647G1114  
Instructions for  
use(user)

The shield insert is available in three different designs.

*"My self-esteem was down.  
Now, with the leg, I can do  
pretty much anything."*

Geno



# System overview

Reference the information on these pages to easily select the components you need to complete your C-Leg 4 system.

**Important note:** Carefully check the weight limits for compatible components. This is especially critical when selecting from the Triton foot series (1C60-64, 1C66) as shown below.

Body weight	Tube adapter	approved foot size (cm)
≤100 kg (≤220 lbs)	2R57, 2R67	21 to 30
101 kg – 125 kg (221 lbs – 275 lbs)	2R57, 2R67	21 to 28 (21 to 26 with 1C63 and 1C66)
126 kg – 136 kg (276 lbs – 300 lbs)	2R57	21 to 26 (except for 1C63 and 1C66)

When combining the C-Leg with other sizes or feet than the mentioned above, please contact the Ottobock Customer Service.



## Warranty und service

The C-Leg 4 warranty package includes:

### Six-year manufacturer warranty

- Repair costs\*
- Service inspections in the 24th and 48th month
- Service unit for use during repairs and service inspections

Alternatively, Ottobock offers a three-year warranty package which can be extended to a six-year warranty later. The extension must be purchased before the end of the 30th month following the date of delivery.

\* Superficial damage and damage resulting from improper use, intent, negligence or force majeure are not covered.

# Components and accessories

All components and accessories for the C-Leg have been designed to work together. This interplay is a basic prerequisite to allow your customers to enjoy the maximum benefits of their leg prosthesis.

**Adapter**

4R104=60  
4R104=75

4R57  
4R57=ST

4R41  
4R43  
4R89

4R111=N  
4R111  
4R116

4R119

4R40

4R118

4R72=30  
4R72=45  
4R72=60  
4R72=75

4R75=D-70

4R76

4R78

**C-Leg 4 knee joint**

with pyramid adapter

3C98-3

3C98-3

with screw-top connector

3C88-3=9.2

3C88-3

**C-Leg 4 Protective Cover**

4X860=S/M/L

**Shield Insert**

=1 =2 =3

4P863=\*

**Foot Cuff**

4P880=\*

**Battery charger/ AC adapter/ Charger extension cable / Remote control**

757L16-2

4E50-2

4X156  
4X157  
4X158

**BionicLink PC/C-Soft Plus**

4X350

C-Soft Plus  
4X440

BionicLink PC  
60X5

**Tube adapter**

2R57

2R67

**Prosthetic feet**

1A30 Greissinger

1D10 Dynamic Foot

1M10 Adjust

1D35 Dynamic Motion

1C30 Trias

1C40 C-Walk

1E56 Axtion

1E57 Lo Rider

1C60 Triton

1C61 Triton vertical shock

1C62 Triton Harmony

1C63 Triton LP

1C64 Triton HD

1C66 Triton smart ankle

1B1 Meridium

**Tools**

Ottobock Cockpit App

Bluetooth® PIN Card

4H105 Knee Extender

**Information**

647G890

Instructions for use (qualified personnel)

646D790

Instructions for use (user)

