Prosthetic and orthotic solutions for an active and independent lifestyle

PROSTHETICS CATALOGUE
Knees

Prosthetic and orthotic solutions for an active and independent lifestyle
## CONTENTS

<table>
<thead>
<tr>
<th>Section 2.1</th>
<th>KNEES - MICROPROCESSOR</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Section 2.2</td>
<td>SPECIALTY KNEES</td>
<td>7</td>
</tr>
<tr>
<td>Section 2.3</td>
<td>K3/K4 KNEES</td>
<td>10</td>
</tr>
<tr>
<td>Section 2.4</td>
<td>K1/K2 KNEES</td>
<td>16</td>
</tr>
</tbody>
</table>
## HOW TO USE THIS CATALOGUE

### Waterproof
These products are waterproof to a maximum depth of 1 metre. Thoroughly rinse with fresh water after use in abrasive environments such as those that may contain sand or grit, for example, to prevent wear or damage to moving parts. Thoroughly rinse with fresh water after use in salt or chlorinated water.

### Product Weight over 136kg
Products specifically for 136kg and over weight limits. For actual weight please see specification.

### Sandle Toe Design
Sandal toe foot design incorporates a split between the first and second toe to accommodate sandal shoes.

### Warranty
Warranty duration in months from the original invoice date.

### K1
The patient has the ability or potential to use a prosthesis for transfers or ambulation on level surfaces at fixed cadence - a typical limited or unlimited household ambulator.

### K2
The patient has the ability or potential for ambulation with the ability to traverse low-level environmental barriers such as curbs, stairs or uneven surfaces - a typical community ambulator.

### K3
The patient has the ability or potential for ambulation with variable cadence - a typical community ambulator with the ability to traverse most environmental barriers and may have vocational, therapeutic or exercise activity that demands prosthetic use beyond simple locomotion.

### K4
The patient has the ability or potential for prosthetic ambulation that exceeds basic ambulation, exhibiting high impact, stress and high energy levels - typical of active adults or athletes.
LINX

Description
Linx is a unique new technology in prosthetic limb systems for trans-femoral amputees. It uses sophisticated microprocessor control to ensure the most natural limb response. Like in human anatomy the Linx knee and foot talk to each other and adjust alignment in a dynamically changing environment, adding support for standing, even on ramps, and assisting freedom of movement across the most challenging terrain. In this way the limb becomes part of the user’s sense of body proprioception rather than being a restrictive addition. The Linx mimics the flowing nature of human movement, in which the body maintains posture in the most economic and comfortable fashion.

Features
Dynamic Balance
Linx aligns for action and rest to promote safe posture on all terrain
Standing Lock
On flexed knee or on ramps: secure, comfortable weight distribution
Ramp Dynamics
Progressive knee and foot resistance for controlled ramp descent
Motion integrated intelligence = Mi*
Synchronised response to sensor inputs for excellent dynamic consistency

Specifications
Activity level: 3
Size range: 22 to 30
Component weight: 2.6kg†
Build height: 475mm to 570mm
Heel height: 10mm

Accessories
Long Pylon kit 339965
Pylon cutting jig 941257
Clinician’s Manual 938353

Order Example
LINX 25L 3
SIZE SIDE SPRING SET
For dark tone add suffix D.
Example: foot size 25 left, spring rating 3

Activity level 3 has the ability or potential for ambulation with variable cadence. Typical of the community ambulator who has the ability to traverse most environmental barriers and may have vocational, therapeutic, or exercise activity that demands prosthetic utilization beyond simple locomotion.

User Weight
Activity

<table>
<thead>
<tr>
<th>Activity</th>
<th>User Weight</th>
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</thead>
<tbody>
<tr>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

*Loaner knee available contact customer service
†Component weight shown is for a size 26cm without footshell
ORION2

Description
The Orion2 is designed to deliver a performance that meets the user’s lifestyle. It’s for high K2 and K3 users and is packed with new features like Standing Lock for comfort, Cycle Mode for optimum activity function, Stumble Mode for safety and new High Yield Settings that offer progressive resistance for more difficult terrain and to assist users who need the added security. The intelligent speed control offers an optimised speed range and the whole knee has a brand new livery.

Features
• Suitable for Level 3 activity
• Standing lock at any angle up to 45°
• New Deep Yield for extra ramp and stairs support
• Enhanced progressive speed control
• Microprocessor swing and stance control
• Bike mode for free knee operation
• Knee flexion to 130°
• Choice of laptop or Smart programming

Specifications
Max. user weight: 125kg
Activity level: 3
Component weight: 1.35kg
Build height: 250mm
Control unit: MPK Hydraulic/Pneumatic

Part numbers
ORION2 - rotating pyramid
ORION2-NRP - non-rotating pyramid

Accessories
Battery Charger Kit 239079
Clinician’s Manual 938361

Socket Adapters
P409049

Build Height

endolite
PLIÉ® 3 MPC KNEE

Description
Stronger. Smarter. Submersible. Stronger construction makes the new Plié® 3 Microprocessor Controlled (MPC) Knee both submersible and more rugged than ever. Yet it’s still the fastest MPC knee, responding 10 to 20 times more rapidly than other MPC knees. With the most responsive stumble and fall protection, users can instinctively move at their own pace in any direction...even if it’s taking small short steps or pivoting in confined spaces.
And with a more streamlined, intuitive set up, the Plié® 3 MPC knee makes it even easier for prosthetists to help patients expand their freedom.

Our Rapid Response technology delivers a more natural transition from swing to stance. Resistance is based on swing flexion—not speed. The result is an instinctive action that feels more like a biological knee and ultimately reduces the amount of effort and energy used by the amputee.

Features
Product ID: Plié 3 with pyramid adapter (KS3-00-KNEE1-KT); Plié 3 with threaded top (KD3-00-KNEE2-KT)
User Weight Rating: 125 kg, moderate activity; 100 kg, high activity (276 lbs)
Proximal Adapter Options: Male pyramid or threaded top
Build Height: Pyramid adapter 235 mm; Threaded adapter reduces proximal build height above the knee by 12.5 mm compared to the pyramid adapter
Product Weight: Pyramid top 1235 g (2.7 lbs); Threaded Top 1243 g (2.7 4 lbs)
Knee Flexion Available: Pyramid adapter 125°; Threaded top 117°
Battery Life: Greater than 24 hours depending on individual activity and storage practices
No Power Default Mode: Stance resistance setting
Water and Dust Resistant: IP 67. Safe for immersion in fresh shallow water for up to 30 minutes at a time.
Warranty and Service: 36-month warranty, dependent on completed service at 12- and 24-month intervals. Service within warranty period provided at no charge and includes the use of a loaner unit.

Profile of the Ideal User:
• K3 amputees that need customized stumble recovery for a variety of activities
• High K3 and K4 amputees that need a knee that adjusts to both walking and running
• Ambulate with variable cadence on uneven terrain
• Have adequate hip strength in flexion and extension
• Occasional water exposure

Knee Module Part Number
*Please refer to Freedom catalogue for cosmetic corner options
SPECIALTY KNEES

ALL-TERRAIN KNEE

Description
Walk with confidence - The All-Terrain Knee (AT-Knee) brings innovation to mechanical knee joints, improving user safety, energy efficiency, and walking speeds.

Features
Automatic Stance Phase Lock (ASPL) = Stability
• Multiaxial design
• Locks upon extension
• Unlocks on toe-off
• Clinically proven more stable than polycentric knees

Variable Friction Controller (VFC) = Faster & Energy Efficient
• Allows for various walking speeds
• Eliminates excessive heel-rise
• Eliminates excessive terminal impact
• Clinically proven to decrease energy expenditure and improve walking speeds vs. non-fluid based knees

Advanced Dupont Polymer = Lightweight, Durable, & Waterproof
• Weight rated to 100kg
• 3+ years of field trials in ten countries without any failures
• Waterproof & corrosion resistant

Specifications
Amputation Level: Transfemoral
Mobility Level: K1-K4
Weight Rating: 100 kg (220 lbs)
Weight of Knee: 915 g (2.02 lbs)
Weight of Pyramid Adaptor: 110 g (0.24 lb)
Knee Flexion Angle: 150°
Distal Connection: 30 mm tube clamp
Proximal Portion Length: <2 cm (0.79 in)
Device Height: 16.5 cm (6.5 in)
Proximal Connection: Pyramid adaptor and/or 10mm bolt
Part Number: AT-Knee

oapl.com.au
AQUALIMB TF

Description
The water resistant Aqualimb prosthesis is designed for safe use in showers and wet rooms. The moulded components allow for fast assembly.

Features
• Machined polycentric linkage designed knee to improve security
• Manual lock option to increase stability
• Rapid assembly
• Anti-slip tread pattern on sole

Specifications
Max. user weight: 100kg
Activity level: 1-2
Size range: 22cm-27cm
Component weight†: 2.0kg
Build height: 400-585mm
Heel height: 5mm

Build Height

Order Example
For dark tone add suffix D.
Foot example: aqualimbTF, size 25 left.

†Component weight shown is for a size 24cm
K3/K4 KNEES

MERCURY

Description
A robust, single axis knee for activity level 3-4 users. The Mercury’s tough frame and hydraulic control meet the demands of the most active lifestyles. Available with swing or swing and stance control.

Features
• Tough carbon fibre frame
• 125° knee flexion
• Long life needle roller bearings
• Reinforced hydraulic unit
• Variable cadence
• Cylinder flexion lock
• Mode switch for cycling
• Durable urethane kneeler pad
• Compact design

Specifications
Max. user weight/activity level: 150kg/3
Component weight: 1.13kg
Build height: see diagram
Control unit: endolite hydraulic

Part numbers
MH30
MH30 SWING
MHPYR
MHPYR SWING
Discontinuous:
MHDPYRS - small kneeball 100mm
MHDPYRM - medium kneeball 110mm
MHD30S - small kneeball 100mm
MHD30M - medium kneeball 110mm

Accessories
Mercury discontinuous cosmesis kit see catalogue
Cylinder adjuster tool 940091

Socket Adapters

Build Height
26mm
195mm
34mm
205mm
K3/K4 KNEES

KX06

Description
The KX06 is a unique polycentric knee with hydraulic swing and stance control. It is designed for the most demanding physical activity of level 3-4 users. The geometric and hydraulic combination draws on the best functionality of each to enhance the overall gait smoothness on all terrain.

Features
• Polycentric knee with hydraulic swing and stance or swing only
• 160° knee flexion
• Water resistant design
• Variable cadence
• Cylinder flexion lock
• Mode switch for cycling
• Multiple proximal adapter choices
• Distal pyramid

Specifications
Max. user weight/activity level: 150kg/3
145kg/4
Component weight: 1.23kg
Build height: see diagram
Control unit: endolite hydraulic

Part numbers
KX06
MH30 SWING

Accessories
Mercury discontinuous cosmesis kit see catalogue
Cylinder adjuster tool 940091

Socket Adapters

Build Height

oapl.com.au
1326

Description
4 Bar Knee for AK and KD
• Polycentric 4 bar knee
• Constant friction swing phase control
• Best suited for low activity level
• High need for security
• Frame construction is made of superlight aluminum alloy
• Proximal attachment has A-P slide and rotation adjustment
• Optional adapters: Pyramid (AK) and Lotus (KD)

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<th>1326AL Lotus Adapter</th>
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Replacement Parts
P/N Description
PA13 Pyramid Adapter for: 1321, 1322, 1323, 1324, and 1326
LA13 Lotus Adapter for: 1321, 1322, 1323, 1324, and 1326

1321

Description
Polycentric 4 Bar Knee
• Polycentric knee
• Constant friction swing phase control
• Frame construction is made of superlight aluminum alloy
• 4-bar linkage is made of aircraft alloy (AA7075)
• Proximal attachment has A-P slide and rotation adjustment
• Optional adapters: Pyramid (AK) and Lotus (KD)

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Replacement Parts
P/N Description
PA13 Pyramid Adapter for: 1321, 1322, 1323, 1324, and 1326
LA13 Lotus Adapter for: 1321, 1322, 1323, 1324, and 1326

Lotus Adapter
K3/K4 KNEES

1324

Description
Stance Flexion 5 Bar Mechanical Knee
- Very stable 5 Bar Knee with a large stance flexion angle (up to 12°).
- Constant friction adjustment for swing phase.
- Can be used for either above knee or knee disarticulation.
- All axes have built-in bearing which allow for ultra smooth walking movement.
- Extensive alignment adjusting abilities for a smooth and natural gait pattern.
- Polycentric knee with stance flexion control for maximum safety during stance.
- Best suited to be used for low K2 level to mid K3.
- Practitioner adjustable from extreme stability to high stance flexion.

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<tr>
<td>Warranty</td>
<td>2 years</td>
<td>2 years</td>
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</tbody>
</table>

Replacement Parts
- PA13 Pyramid Adapter for : 1321,1322,1323,1324 and 1326
- LA13 Lotus Adapter for : 1321,1322,1323,1324 and 1326

1323

Description
Stance Flexion 5 Bar Pneumatic Knee
- Very stable 5 Bar Knee with a large stance flexion angle (up to 12°).
- Pneumatic cylinder with independent flexion extension adjustment for swing phase.
- Can be used for either above knee or knee disarticulation.
- All axes have built-in bearing which allow for ultra smooth walking movement.
- Extensive alignment adjusting abilities for a smooth and natural gait pattern.
- Polycentric knee with stance flexion control for maximum safety during stance.
- Best suited to be used for low to high K3 level.
- Practitioner adjustable from extreme stability to high stance flexion.
- Adjustable extension assist.

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<td>Warranty</td>
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<td>2 years</td>
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1322

Description
Polycentric Pneumatic 4 Bar Knee
• Polycentric knee joint with pneumatic swing control
• Independent flexion / extension adjustment
• Built-in bearings which allow for ultra smooth walking movement
• Frame construction made of superlight aluminum alloy
• Proximal attachment has A-P slide and rotating adjustment
• Adjustable Extension assist

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<tr>
<td>Knee Flexion</td>
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<td>Warranty</td>
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M0780 / M0786

Description
SWAN KNEE - Hydraulic Stance Flexion Polycentric Knee
• Polycentric 5 Bar knee design
• Hydraulic Flexion / extension adjustment
• Low profile knee center and build-height
• Adjustable stance flexion resistance
• Adjustable extension assist
• Adjustable flexion resistance

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<td>Product Weight</td>
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<tr>
<td>Warranty</td>
<td>2 years</td>
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</table>
K1/K2 KNEES

COMPACT SAKL

Description
This compact, lightweight knee is ideally suited to individuals with low activity level who need the security of a locked knee during walking.

Features
• Slim, low profile knee
• 140° knee flexion
• Locks automatically on extension
• Thigh release

Specifications
Max. user weight: 125kg
Activity level: 1-2
Component weight: 325g
Build height: see diagram
Control unit: SAKL

Part number
P239143

Accessories
Thigh release kit (release lever only) P239443
Also available as a module with 30mm x 420mm tube and cable release kit 019167
Thigh release cable 239243

Socket Adapters
P409049

Build Height

250mm
15mm
40mm
400mm Max.
80mm Min.
K1/K2 KNEES

1313A-N

Description
Manual Locking Knee / Type B
• Single axis light weight manual locking knee
• Designed for beginner and elderly with low activity level
• Fully machined 7075 airplane aluminum alloy

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<td>Material</td>
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<tr>
<td>Warranty</td>
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1318

Description
Single Axis Knee with Manual Lock
• Single Axis knee joint with adjustable manual lock
• Lower actively level
• High stance phase stability, minimal swing phase control

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<th>P/N</th>
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<td>Knee Center to Top</td>
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<tr>
<td>Knee Flexion</td>
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<td>Product Weight</td>
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<tr>
<td>Warranty</td>
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<td>1 year</td>
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1317

Description

Single Axis Knee with Internal Extension Assist and Adjustable Constant Friction

- Single Axis knee joint
- Constant friction swing phase control
- Moderate actively level a reduced prosthetic weight

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<th>P/N</th>
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<tbody>
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<tr>
<td>Warranty</td>
<td>1 year</td>
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L1321

Description

Polycentric 4 Bar Manual Locking Knee

- Manual locking polycentric knee
- Lanyard lock mechanism can be removed at a later time so that the knee can be used as a free swing knee
- Low activity
- High need for security
- Frame construction is made of superlight aluminum alloy
- 4-bar linkage is made of aircraft alloy (AA7075)
- Proximal attachment has A-P slide and rotation adjustment
- Optional adapters: Pyramid (AK) and Lotus (KD)

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Replacement Parts

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<th>P/N</th>
<th>Description</th>
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<tr>
<td>LA13</td>
<td>Lotus Adapter for : 1321,1322,1323,1324 and 1326</td>
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K1/K2 KNEES

1315

Description
4 bar Knee with Extension Assist for KD
- Manual locking knee
- Suggested use for knee disarticulation
- Low actively level
- Low Profile

<table>
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<td>111.45mm</td>
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<tr>
<td>Knee Center to Top</td>
<td></td>
<td>11mm</td>
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<tr>
<td>Knee Flexion</td>
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<td>110 Degrees</td>
<td>110 Degrees</td>
</tr>
<tr>
<td>Product Weight</td>
<td></td>
<td>671g</td>
<td>916g</td>
</tr>
<tr>
<td>Material</td>
<td></td>
<td>Titanium</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>Warranty</td>
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Replacement Parts

<table>
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<tr>
<th>P/N</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>LY13</td>
<td>Lanyard for Manual Locking Knee</td>
</tr>
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</table>

1312

Description
Mechanical 4 Bar Knee
- Polycentric knee
- Frame construction is made of Titanium or Stainless steel
- Constant friction swing control
- Adjustable extension assist
- Adjustable 4 Bar stability

<table>
<thead>
<tr>
<th>P/N</th>
<th>1312T</th>
<th>1312S</th>
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<tbody>
<tr>
<td>Weight Limit</td>
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<tr>
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<td>1 year</td>
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</tbody>
</table>

oapl.com.au
1311

Description
Weight Activated Brake Knee
• Single axis knee
• Stance phase friction brake
• Activated by weight bearing and designed for moderate functional demands
• Also suitable for amputees with lower functional levels who desire to avoid using a manual locking knee

<table>
<thead>
<tr>
<th>P/N</th>
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</table>

Replacement Parts
P/N  Description
L1311-1 Extension Assist Kit and Cable for P/N 1311

1314

Description
4 Bar Knee with Extension Assist for KD
• Suggested use for knee disarticulation
• Moderate actively level
• Constant friction swing phase control
• Adjustable extension assist
• Low profile

<table>
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<tr>
<th>P/N</th>
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</thead>
<tbody>
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<td>Knee Center to Top</td>
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<tr>
<td>Product Weight</td>
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<td>Material</td>
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