

Elite Blade Low Profile

Instructions for Use

EBLP22L1S-EBLP30R9S EBLP22L1SD-EBLP30R9SD

Blatchford:

Description and Purpose

Application

These instructions are for the practitioner.

The term *device* is used throughout these instructions for use to refer to Elite Blade Low Profile. This device is to be used exclusively as part of a lower limb prosthesis.

A lightweight, high-energy-return foot, ideal for high impact use from the casual jogger to the serious runner. The flexible extended pylon reduces shock load transmission making it suitable for work, leisure and sports activities. Independent heel and toe springs provide axial deflection. The split toe provides good ground compliance.

This device is recommended for users that have the potential to achieve Activity Level 3 or 4. Of course there are exceptions and in our recommendation we want to allow for unique, individual circumstances and any such decision should be made with sound and thorough justification.



To minimise the risk of slipping and tripping, appropriate footwear that fits securely onto the footshell must be used at all times.

Contra-indications

This device may not be suitable for Activity Level 1 individuals or for competitive sports events, as these types of users will be better served by a specially designed prosthesis optimized for their needs.

Intended for a single user.

Chrine Cat Calastian

Ensure that the user has understood all instructions for use, drawing particular attention to the section regarding maintenance.

Spring S	et Sei	ection			Use	er Weigh	t					
Impact	Activity	44–52 (100–115)	53–59 (116–130)	60–68 (131–150)	69–77 (151–170)	78–88 (171–195)	89–100 (196–220)	101–116 (221–255)	117–130 (256–285)	131–147 (286–325)	148–166 (326–365)	kg (lb)
Low	3	1	1	2	3	4	5	6	7	8	9	ring
Mod	4	1	2	3	4	5	6	7	8	9		Foot Spring Set
High	4	2	3	4	5	6	7	8	9			P0
Low	Dai	ly walkin	g and od	casiona	l sports s	uch as g	olf and h	niking				
Moderate	Agg	Aggressive walking, frequent or daily sports such as jogging										
High		Daily activities such as distance running, climbing, lifting and carrying heavy objects for										

Important: For higher impact users, do not exceed the weight limit for individual springs.

Note:

If in doubt choosing between two categories, choose the higher rate spring set.

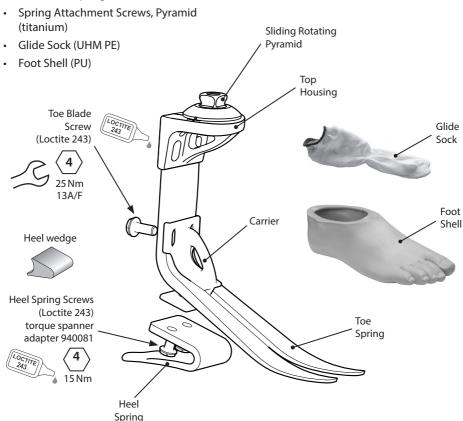
Foot spring set recommendations shown are for trans-tibial users.

For transfemoral users we suggest selecting a spring set one category lower, refer to fitting advice Section 8 to ensure satisfactory function and range of movement.

2 Construction

Principal Parts:

- Carrier, Pyramid Dome (aluminum)
- Heel & Toe Springs (e-carbon)



3 Function

This device comprises an e-carbon toe spring pylon and independent heel spring. Heel and toe springs are attached to the carrier assembly using titanium screws. The foot is wrapped in a UHM PE sock which is in turn surrounded by a PU foot shell.

4 Maintenance

Maintenance must be carried out by competent personnel.

It is recommended that the following maintenance is carried out annually:

- Remove the foot shell and glide sock, check for damage or wear and replace if necessary.
- Check all screws for tightness, clean and reassemble as necessary.
- Visually check heel spring and toe blade for signs of delamination or wear and replace if
 necessary. Some minor surface damage may occur after a period of use, this does not affect
 the function or strength of the foot.

The user must be handed the user information card supplied, and be advised of the following:

- Any changes in performance of this device must be reported to the practitioner e.g. reduced energy return or unusual noises.
- The practitioner must also be informed of any changes in body weight and/or activity level.

If this device is used for extreme activity, the maintenance level and interval should be reviewed and if required advice and technical support sought to plan a new maintenance schedule dependent upon the frequency and nature of the activity. This should be determined by a local risk assessment carried out by a suitably qualified individual.

The user should be advised that a regular visual check of the foot is recommended, signs of wear that may affect function should be reported to their service provider (e.g. significant wear or excessive discoloration from long term exposure to UV).

Cleaning

Use a damp cloth and mild soap to clean outside surfaces, do not use aggressive cleansers.

5 Limitations on use:

Intended Life

A local risk assessment should be carried out based upon activity and usage.

Lifting Loads

User weight and activity is governed by the stated limits.

Load carrying by the user should be based on a local risk assessment.

Environment

This device is waterproof to a maximum depth of 1 meter. Thoroughly rinse this device with fresh water after use in abrasive environments, such as those that may contain sand or grit, to prevent wear or damage to moving parts. Thoroughly rinse with fresh water after use in salt or chlorinated water.



Suitable for submersion

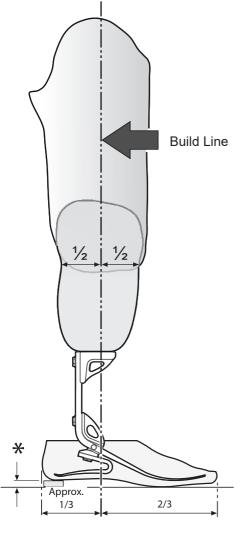
Foot products must be adequately finished to prevent

water ingress into the foot shell where possible. If water enters the foot shell, the limb should be inverted and dried before further use.

Exclusively for use between -15 °C and 50 °C (5 °F to 122 °F).

We recommend using only Blatchford products with this device.

6 Bench Alignment



Static Alignment

Setup length

Note... Shin blade should be vertical when used with a 10 mm heel height shoe. Lower heel height shoes may require the use of a packing piece below the heel.

Typically include 5 mm to allow for axial compression of heel and toe.

Build line

This should fall 1/3 of the foot length from the heel.

Dynamic Alignment

Coronal plane

Ensure that M-L thrust is minimal by adjusting relative positions of socket and foot.

Sagittal plane

Check for smooth transition from heel strike to toe-off. Ensure also that when standing the heel and toe are evenly loaded and that both are touching the floor.

Transfemoral alignment

Align transfemoral components according to fitting instructions supplied with the knee, keeping the build line relative to this device as shown.



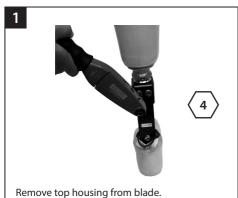
7 Foot Shell Removal & Blade/Spring Replacement

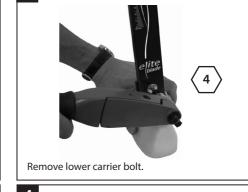


Use appropriate health and safety equipment at all times including extraction facilities.



Be aware of finger trap hazard at all times.













940081)

7 Foot Shell Removal & Blade/Spring Replacement (cont.)



Attach blade to heel carrier. Loctite (243) & tighten bolt (25 Nm).

If a foam cosmesis is to be fitted, roughen top surface of foot shell to provide ideal bonding surface.

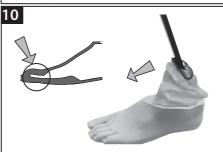








Fit glide sock and lubricate foot shell with 928017.



Fit assembly into foot shell, engage toe of blade into foot shell.



Ensure heel spring is engaged into slot.

8 Fitting Advice

Springs are supplied as matched sets i.e. the blade/toe and heel springs are designed to work together to give smooth progression for most users.

Heel Wedge

A heel wedge is supplied with the foot. Fitting the wedge will have the effect of stiffening the heel spring. These can be taped in place for trial. For permanent fitting, wedges should be adhered in place by application of Loctite 424 (926104) between the lower contacting surface of the heel and the wedge.

Heel Stiffness

Progression throughout the stance phase should be smooth; heel function is key to this process:

- Too soft a heel or load line excessively posterior will result in sinking at heel strike and difficulty in getting over the toe.
- Too hard a heel or load line excessively anterior will result in a rapid progression through mid-stance or jarring at heel strike.

	Symptoms	Remedy	
Heel too soft	 Sinking at heel strike Difficulty climbing over the toe (toe feels too hard) 	Move socket anteriorly in relation to the foot (excess movement may result in drop off)	
		2. Add heel wedge	
Heel too hard	 Rapid transition from heel strike through stance phase Difficulty in controlling heel action, foot jars into mid-stance Foot feels too rigid 	Remove heel wedge (if fitted) Move socket posteriorly in relation to foot	
Toe/ Blade too soft	 Rapid progression through mid-stance. 'Drop off' at higher Activity Levels 	 Move socket posteriorly in relation to foot Plantarflex foot slightly - note: some re-alignment may be required 	

Please contact your supplier if it is not possible to achieve a smooth gait after following the advice above.

9 Technical Data

Operating and Storage Temperature Range:

-15 °C to 50 °C (5 °F to 122 °F)

Component Weight (size 26):

740 g (1 lb 10 oz)

Activity Level:

3–4

Maximum User Weight:

166 kg (365 lb)

Proximal Alignment Attachment:

Male Pyramid (Blatchford) +/- 7°

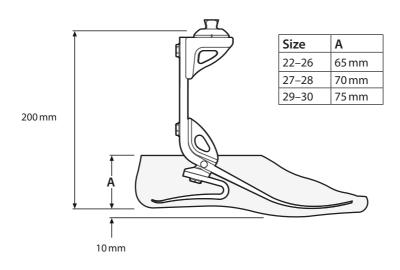
Build Height:

200 mm

Heel Height

10 mm

Fitting length



10 Ordering Information

Order example

EBLP	25	L	N	5	S	e.g. EBLP25L5S
	Size	Side	Width* (N/W)	Spring Set	Sandal Toe	

^{*}Sizes 25-27 only. For all other sizes, omit the Width field.

Glide Sock

Size	Part No.
22-24	531011
25-30	532811

Available from size 22 to size 30: EBLP22L1S to EBLP30R9S EBLP22L1SD to EBLP30R9SD (Add 'D' for a dark tone foot shell)

Foot Shell

For dark add suffix D

Size/Side	Narrow	Wide			
22L	539038S	-			
22R	539039S	-			
23L	539040S	-			
23R	539041S	-			
24L	539042S	-			
24R	539043S	-			
25L	539044SN	539044SW			
25R	539045SN	539045SW			
26L	539046SN	539046SW			
26R	539047SN	539047SW			
27L	539048SN	539048SW			
27R	539049SN	539049SW			
28L	-	539050S			
28R	-	539051S			
29L	-	539052S			
29R	-	539053S			
30L	-	539054S			
30R	-	539055S			

Liability

The manufacturer recommends using the device only under the specified conditions and for the intended purposes. The device must be maintained according to the instructions for use supplied with the device. The manufacturer is not liable for damage caused by component combinations that were not authorized by the manufacturer.

CE Conformity

This product meets the requirements of 93/42/EEC guidelines for medical products. This product has been classified as a Class 1 Product according to the classification criteria outlined in Appendix IX of the guidelines. The Declaration of Conformity was therefore created by Blatchford Products Limited with sole responsibility according to Appendix VII of the guidelines.

Warranty

This device is warranted for 36 months - foot shell 12 months - glide sock 3 months. The user should be aware that changes or modifications not expressly approved could void the warranty, operating licenses and exemptions. See Blatchford website for the current full warranty statement.

Environmental Aspects

Where possible the components should be recycled in accordance with local waste handling regulations.

Trademark Acknowledgements

Elite Foot and Blatchford are registered trademarks of Blatchford Products Limited.



UK

Blatchford Products Ltd.
Unit D Antura
Kingsland Business Park
Basingstoke
RG24 8PZ
UNITED KINGDOM
Tel: +44 (0) 1256 316600
Fax: +44 (0) 1256 316710
Email: customer.service@
blatchford.co.uk
www.blatchford.co.uk

US & Canada Blatchford Inc. 1031 Byers Road

Miamisburg Ohio 45342 USA Tel: +1 (0) 800 548 3534 Fax: +1 (0) 800 929 3636 Email: info@blatchfordus. com

www.blatchfordus.com

Manufacturer's Registered Address

Blatchford Products Limited, Lister Road, Basingstoke RG22 4AH, United Kingdom

