



Custom Product Information Guide

Issue 4

Blatchford

Blatchford is the UK's most comprehensive supplier of rehabilitation services to the NHS. Over 40 rehabilitation services are provided to a range of healthcare organisations which include NHS provider trusts, directly commissioned services, private hospitals, and the MOD. We currently provide three countywide managed services.

The Blatchford teams deliver specialist, evidence-based care to individuals in all our UK clinics. The service care model includes the provision of high-quality individualised rehabilitation, a reassuring support network and continuous education programmes on technical and rehabilitation topics.

Our focus is entirely on the individuals and clinicians who use our services. Our goal is to enable each patient attending one of the 160,000 appointments across all our service we provide annually to achieve greater confidence and success in their choice of everyday activities.

The range of devices we provide compliments the wide variety of specialisations practised by our highly skilled clinical teams. Our team of technicians have the experience to manufacture a wide range of products, ranging from additive manufactured insoles to innovative orthotic bracing, suitable for all age groups and clinical conditions. This close collaboration allows clinicians to communicate details to tailor the devices for comfort, function, style and fit to deliver high acceptance levels and superior clinical outcomes.

Blatchford

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Meet The Team

We have two dedicated production facilities located at Atlas Way in Sheffield. The first facility at No. 11 is home to our main orthotic manufacturing, stock products and Customer Service teams. The second building at No. 30 houses our Blatchford Private Clinic, our complex Specialist Seating and our Prosthetic CFAB team. Our Central Fabrication team consists of over 80 technicians dedicated to producing high quality bespoke products.

Our highly skilled technicians use multiple integrated CAD systems to produce our custom-made product range. These systems are further complimented by traditional manufacturing expertise to produce custom complex orders. Through investment in innovation we drive high levels of capacity to reduce lead-times and increase quality to ensure superior clinical outcomes for patients. Our behaviours are underpinned by our company values, which are reflected in all our teams across the business.



Courage



Learning



Collaboration



Innovation



Integrity



Steve Herbert

Metalwork/Carbon Fibre Team Leader

Steve specialises in leading our advanced composite products manufactured from pre-preg. His team work closely with our R&D team in Basingstoke to develop our next generation of Orthotic devices. Steve also heads up our metal fabrication team who manufacture simple to complex conventional orthotics.



Luke Knowles

FFO Team Leader

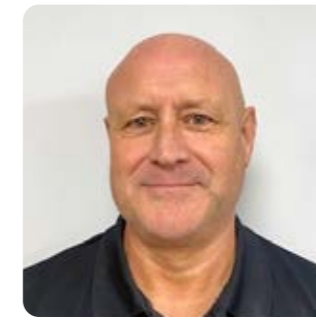
21 years of experience at Blatchford, Luke is a dedicated leader driving excellence in insole manufacturing. Leading a team of 12 skilled Technicians. He oversees the production of everything from simple Poron insoles to advanced EVA and 3D-printed orthotics. Luke is instrumental in enhancing quality, streamlining processes, and significantly reducing manufacturing lead times.



Dave Hurt

Seating Team Leader

Dave has managed our seating department for over 20 years, during this time he has overseen our successful transition from traditional manufacturing to CAD-CAM for all our complex manufactured seating systems.



Sean Wood

CFAB Manager

Sean has extensive experience in the prosthetic industry which has been key when working with internal stakeholders to ensure a successful integration of our prosthetic central fabrication facility in Sheffield. His team of 17 strong technicians support our prosthetic clinics throughout the UK as well as external NHS customers to produce a wide range of sockets and assembled prosthetic limb systems.



Craig Raschi

Footwear Team Leader

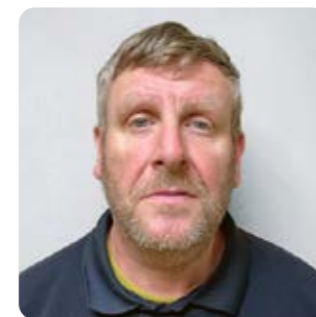
Craig leads a team of 5 technicians across both our Made to measure and Modular footwear ranges his team also have extensive knowledge in the adaption of footwear to meet each customer order requirement. The team compliment these traditional skills by manufacturing and designing all our footwear using the latest CAD technology.



Matt Cordwell

CAD Team Leader

Matt is a versatile technician who can work across several orthotic departments. In recent years he has specialised in CAD-CAM and heads up a team of 3 technicians who use automated manufacturing systems which complement our traditional manufacturing skills. Matt has been at the forefront implementing new technologies and improving our manufacturing capabilities in orthotics



Martin Beasant

Shoe Adaption Team Leader

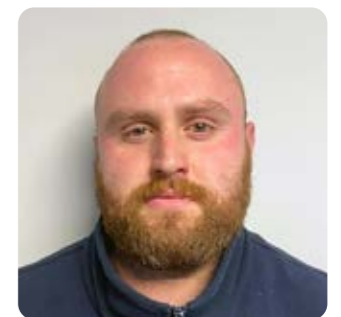
Martin leads a team of 3 technicians who take great pride in adapting a wide range footwear to meeting our customers' needs and aesthetic requirements. The team regularly receive plaudits from clinicians and patients for their work.



Richard Biggs

Plastics Team Leader

Rich has over 40 years of experience of orthotic manufacturing. He specialises and leads our team of 11 plastic technicians who produce high quality plastic orthotics in line with customer order requirements.



David Fletcher

Production Manager

Dave manages all areas of the Orthotics manufacturing and works closely with Customer Service to ensure all products are delivered on time and in full. Dave is a systems expert and can offer support supplying real time data as required for our customers.

Ordering Information

1. Ordering:

Ordering custom-made products from Blatchford is simple and easy. You can contact our Customer Services directly:

Telephone: +44 (0) 114 2637900

Email: orthoticscs@blatchford.co.uk

Facsimile: +44 (0) 114 2637901

Post: Blatchford Limited, 11 Atlas Way, Atlas North, Sheffield, S4 7QQ.

2. Delivery Promise:

Our goal is to provide a fast and efficient delivery. We aim to despatch custom orders from receipt of order in 10 working days for the items listed below:

- Helmets
- Spinal
- Upper Limb
- Lower limb
- FFOs

This does not apply to where specific delivery schedules are in place. Urgent orders can also be processed in shorter lead times to the above upon special agreement.

3. Catalogues/Product Information:

If you require additional product information, please contact our customer service advisors who will be happy to help with your enquiry.

4. Shortages/Damaged Goods:

If any items are received damaged or there are shortages in the delivery this must be notified in writing to customer services within 5 days of receipt of goods.

5. Returns:

In the unlikely event of any Custom-made product being supplied faulty or having been incorrectly manufactured, please contact customer services so that the correct or replacement goods can be despatched.

Blatchford reserves the right to reject items returned for credit if the above conditions are not met. Blatchford is unable to accept return of items that are 'made to order' for credit, unless the goods are faulty, manufactured incorrectly or it can be demonstrated they have been damaged in transit. Products and prices are subject to variation at any time and are subject to availability. E & OE.

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Specialist Carbon
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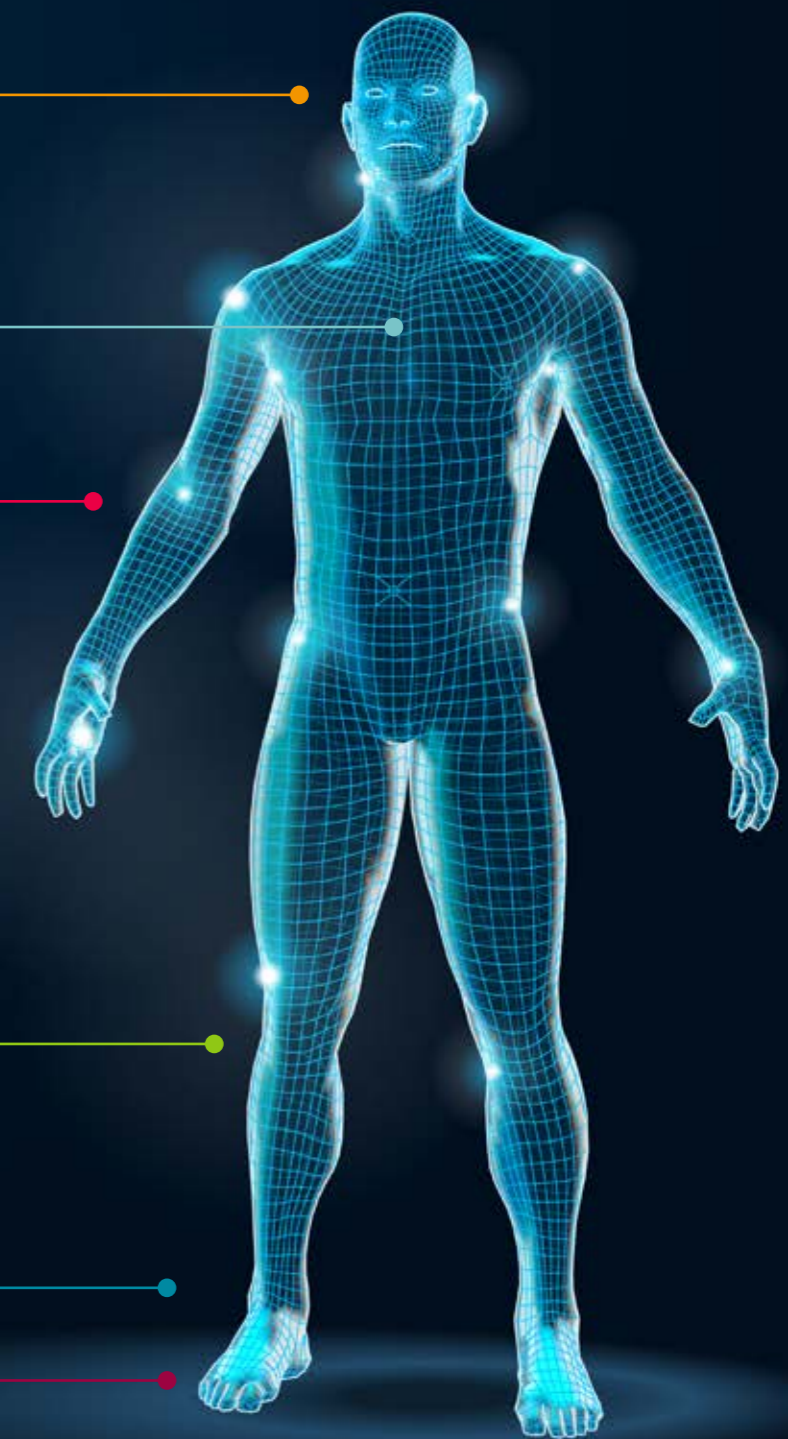
Tectus®

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Specialist Seating

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Prosthetics



Product Sections

Atlas Helmet Range

Combining Technology With Design



Great British Design and Quality -
Designed and manufactured in the UK.

Introduction

The innovative Atlas Helmet Range has been developed by Blatchford in response to a clinical survey, fulfilling your requests for:

- improved design options
- extended colour choices, including natural hair shades
- a discreet helmet to enable concealment under a 'beanie' style of hat
- removable strap arrangement
- accurate CAD-CAM reproduction of anatomical measures
- adjustability to accommodate swelling
- wipe clean materials
- the protection and appearance of cycling or winter sports helmets

Help

Subsequently, 15 years of manufacturing experience have been distilled by the Blatchford team in Sheffield to create the Atlas Helmet Range. Bringing together the latest developments in materials, robotics and patient specific data capturing, CAD-CAM technology moulds the helmets to a PU foam model. The result is a truly bespoke and optimised orthosis perfectly matched to the patient's shape that ensures the best anatomical fit, comfort and function with enhanced cosmetic appearance.

Our technical team are happy to discuss the best option for your requirements.

Helmet Selection

The Range at a Glance

Tough full cranial protection?

Choose

Atlas Hard



Subtle full cranial protection?

Choose

Atlas Slimline



Basic cranial protection?

Choose

Atlas Scrum



Full cranial protection?

Choose

Atlas Full



Changing cranial size?

Choose

Atlas Adjustable



Atlas Hard Helmet

Description

The Co-polymer cover offers more protection than EVA and therefore the base layer is thinner for less bulk. It can be ordered with as many small ventilation holes as you require.

Features

- 12mm Plastazote base (only base layer sent to fit stage)
- Base layer available in white or black
- Top cover of 4.5mm Co-polymer pulled polymer (white, black, flesh, red, royal blue, light blue, yellow or the full range of transfers are available)
- 8 ventilation holes as standard but more can be specified
- Removable soft chin guard as standard
- Removable internal soft pads as standard
- Webbing straps (15mm or 20mm widths)
- Straps can be made removable by specifying press studs instead of rivets
- Fastex clips, Hook and Loop return pull or adjustable buckle fastenings available
- Small check hole at top for fit stage
- Anterior/posterior/temporal extensions and bumpers available



Atlas Slimline Helmet

Description

The Atlas Slimline is the most discreet solution we offer. A simple Co-polymer shell, which can be worn underneath a baseball cap or a woolly hat. It can be lined if necessary and ordered with as many small ventilation holes as required.

Features

- Optional 3mm or 6mm Plastazote base
- Top cover of 4.5mm Co-polymer (white, black, flesh, red, royal blue, light blue, yellow or the full range of transfers are available)
- If no base layer is required the Co-polymer shell will be manufactured with internal pads
- 8 ventilation holes as standard but more can be specified
- Removable soft chin guard as standard
- Removable internal soft pads as standard
- Webbing straps (15mm or 20mm widths)
- Straps can be made removable by specifying press studs instead of rivets
- Fastex clips, Hook and Loop return pull or adjustable buckle fastenings available
- Small check hole at top for fit stage
- Additional Velcoins can be ordered to stick on outside of helmet to attach patient's own hat to protective shell



Atlas Scrum Helmet

Description

The Atlas Scrum offers a more cosmetic alternative to the conventional cruciform style scrum helmet. It protects the main areas of the cranium whilst still providing large areas of ventilation.

Features

- 28mm Plastazote base (only 12mm layer sent to fit stage)
- Base layer available in white or black
- Top cover of EVA (white, red, blue, lilac, yellow, green, orange, purple, pink, grey, black, brown, blonde)
- 4 large circular ventilation holes
- Removable soft chin guard as standard
- Removable internal soft pads as standard
- Webbing straps (15mm or 20mm widths)
- Fastex clips, Hook and Loop return pull or adjustable buckle fastenings available
- Small check hole at top for fit stage
- Anterior/posterior/temporal extensions and bumpers available



Atlas Adjustable Helmet

Description

The Atlas Adjustable helmet accommodates fluctuating oedema following surgery or trauma. It incorporates a number of removable pads, which can be adjusted to fit shape and volume change.

Features

- 28mm Plastazote base (only 12mm layer sent to fit stage)
- Base layer available in white or black
- Top cover of EVA (white, red, blue, lilac, yellow, green, orange, purple, pink, grey, black, brown, blonde)
- A number of 25mm ventilation holes can be added
- Removable soft chin guard as standard
- Removable internal soft pads, held in by Hook and Loop, which can be attached on top of each other to alter the fit
- Webbing straps (15mm or 20mm widths)
- Chin section of strap can be made removable by specifying press studs
- Fastex clips, Hook and Loop return pull or adjustable buckle fastenings available
- Small check hole at top for fit stage
- Anterior/posterior/temporal extensions and bumpers available



Atlas Full Helmet

Description

The Atlas Full protects all areas of the cranium. It can be ordered with a number of small ventilation holes as required.

Features

- 28mm Plastazote base (only 12mm layer sent to fit stage)
- Base layer available in white or black
- Top cover of EVA (white, red, blue, lilac, yellow, green, orange, purple, pink, grey, black, brown, blonde)
- A number of 25mm ventilation holes can be added
- Removable soft chin guard as standard
- Removable internal soft pads as standard
- Webbing straps (15mm or 20mm widths)
- Fastex clips, Hook and Loop return pull or adjustable buckle fastenings available
- Small check hole at top for fit stage
- Anterior/posterior/temporal extensions and bumpers available



Helmet Measurements

Patient Information

Patient Name _____
 Age _____ Sex _____
 Diagnosis _____

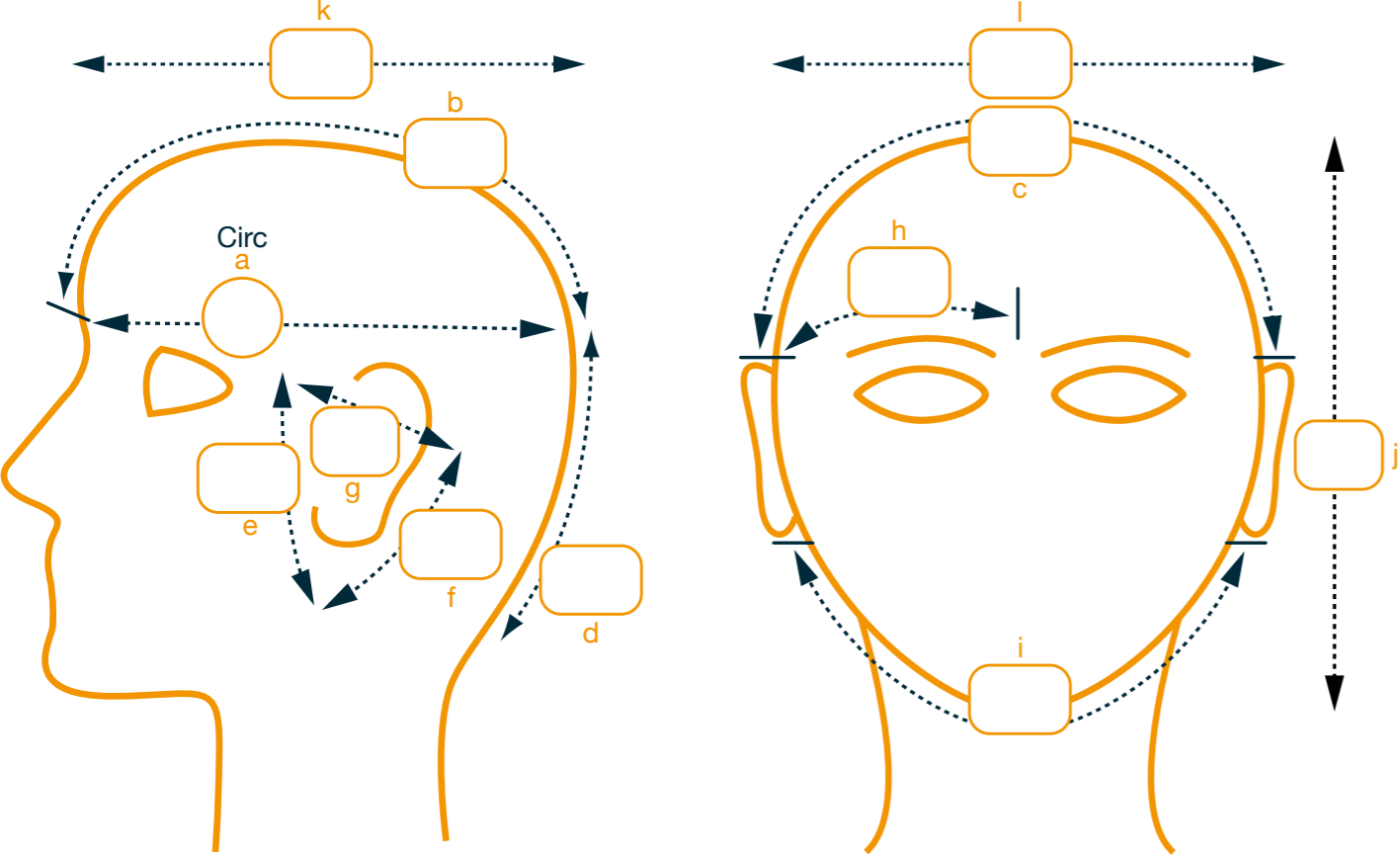
Order Information

Order No. _____ Clinic _____
 Orthotist _____ Fitting? Yes No
 Date _____ Current User? Yes No

Helmet Options

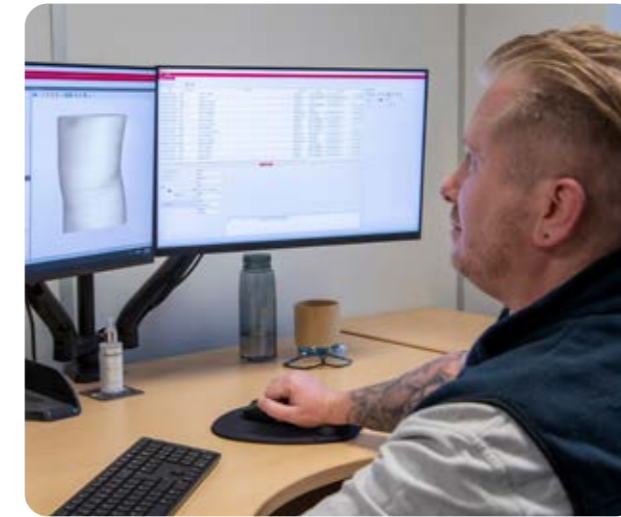
- Atlas Range:** Scrum Full Adjustable Hard Slimline
- Base Material:** Plastazote Co-polymer Other _____ Base Colour: Black White
- Covering:** EVA Co-polymer
- Colour:** EVA _____
 Co-polymer _____ **Transfer:** _____
- Strap Width:** 15mm 20mm **Strap Attachment:** Rivet Press Stud
- Fastening:** Fastex Clip Hook & Loop R/pull Buckle **Fastening Location:** Middle Left Right
- Extras:** Bumper Anterior Posterior
 Extension Posterior Temporal
 Circular Ventilation Holes No.

Measurements



Atlas Spinal Range

State of the art spinal bracing
manufactured at our Sheffield facility.



Great British Design and Quality -
Designed and manufactured in the UK.

Introduction

The Atlas Spinal Range brings together the latest developments in materials, robotics and patient specific data capturing to ensure spinal braces with the best fit, function and comfort.

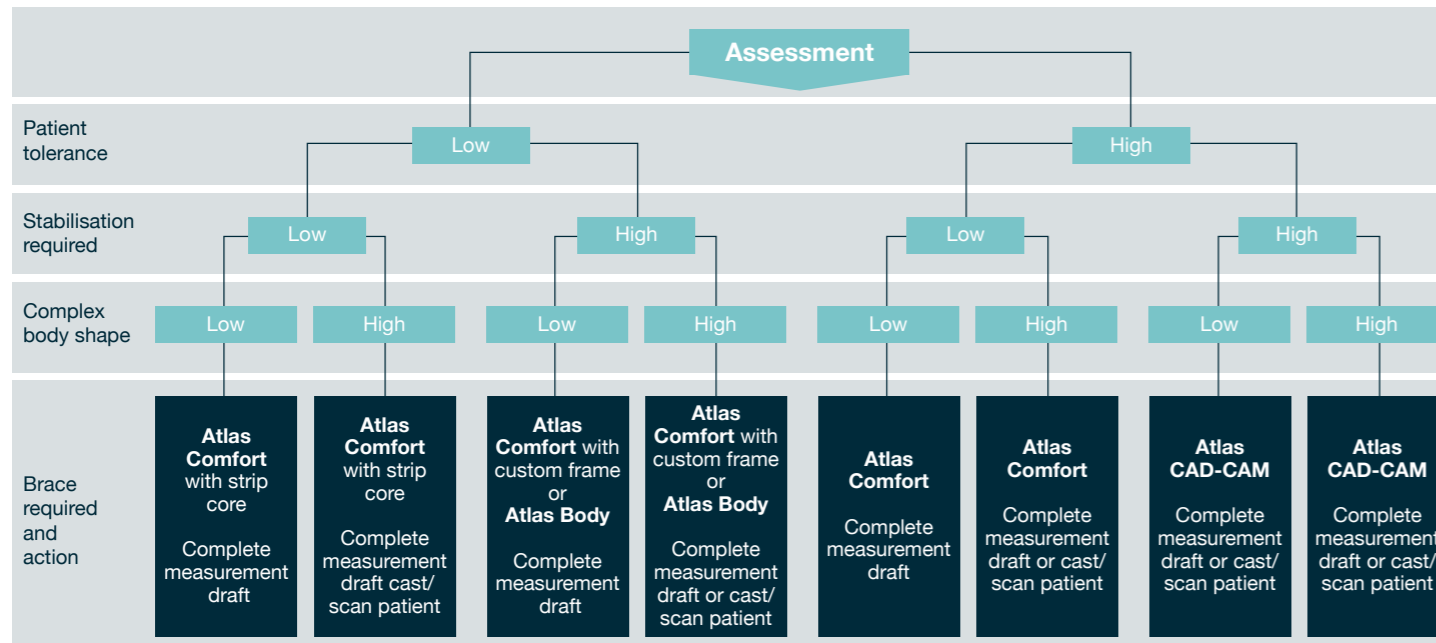
15 years of manufacturing at our facility have been distilled by the Blatchford team in Sheffield to result in a range of products that are perfectly matched to the patient's shape. Captured in x-rays, cast, measurements or by scanner the CAD-CAM system can interpret each individual's information accurately to provide a truly bespoke and optimised orthosis.

Our experience has allowed us to develop a range of options that offer a rapid solution when needed and our technical team are happy to discuss the best option for your requirements.

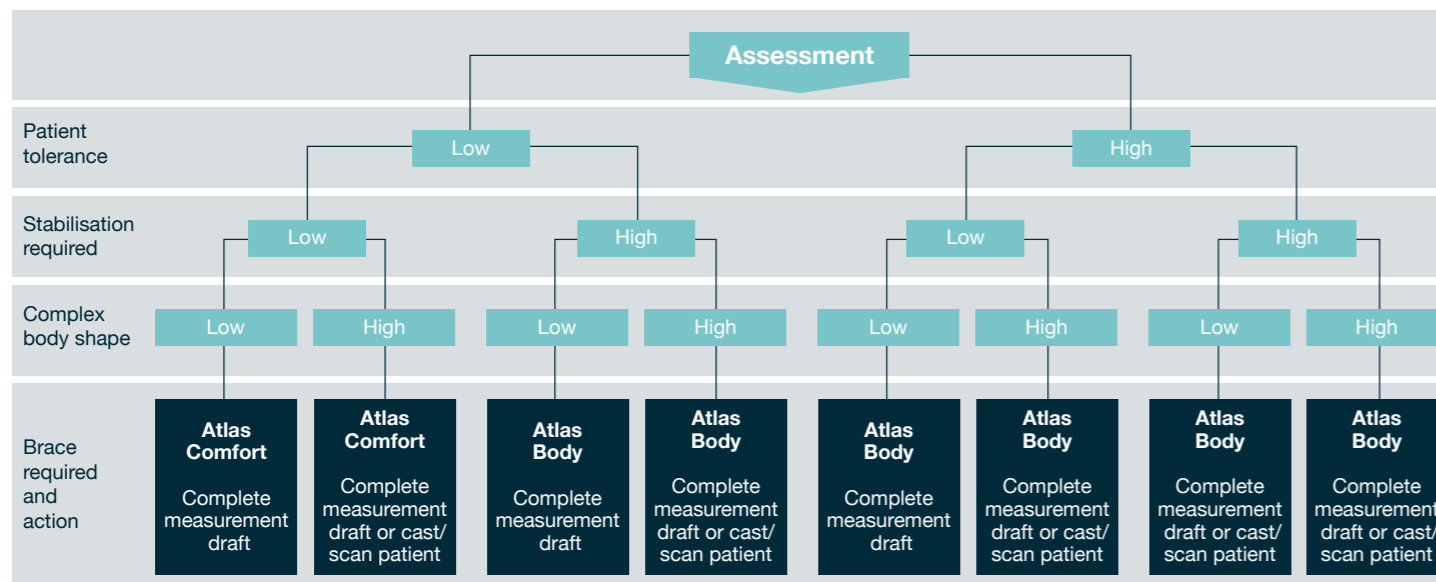
Gentle spinal support?	Bi-valve TLSO?	Customise your own TLSO?	Symmetrical idiopathic scoliosis TLSO?	X-ray interpretation and CAD-CAM correction?
Choose	Choose	Choose	Choose	Choose
Atlas Comfort	Atlas Body	Atlas Body	Atlas Scoliosis	Atlas CAD-CAM
				

Spinal Brace Selection - The Range at a Glance

Atlas Jacket Selection: Neuromuscular



Atlas Jacket Selection: Trauma



Atlas Body

Description

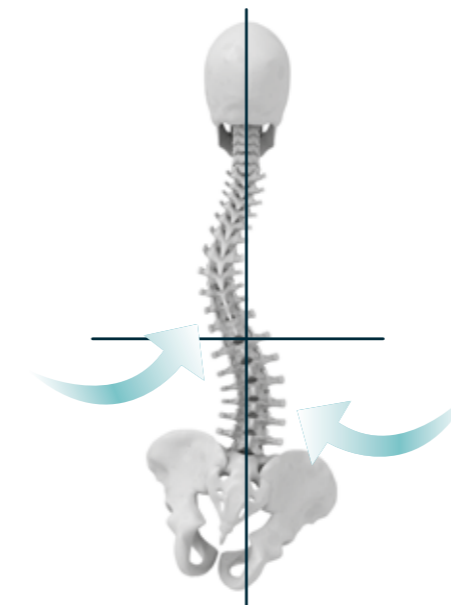
The Atlas Body is a multi-functional TLSO system that is suitable for a wide variety of post-operative, fracture or spinal bracing.

It is available as a made to measure or made to cast in a choice of materials, colours and finishing features specific to the individual requirements.

Features

The following options are available on made to measure or made to cast/scan TLSOs only:

- Subortholon/copolymer/polyethylene
- Transfers
- Anterior, posterior or bi-valve opening
- Supplied to a fitting if required
- Custom strapping options
- Available in 0, 10 or 15 degrees lordosis
- Custom cut outs
- New Airtex lining available



Force Systems

The application of force systems with orthoses can either be designed utilising an x-ray or to measures. We are able to interpret your patients x-ray to enable force application to reduce curve progression. Using this system we can accurately place rectification areas or pads to your specification.

If x-rays are not available we are able to locate force application using measurements taken direct from the patient or cast.

Atlas CAD-CAM

Description

The Atlas CAD-CAM Custom TLSO brings together advances in CAD-CAM technology and the many years of hand rectification by our spinal team. The result enables collaboration between clinicians and the technical team on brace specification. Spinal rotation, alignment and force application can all be adjusted to achieve the most accurate treatment for complex curves and scoliosis.

Features

- CAD-CAM designed
- Orthoses made to cast/scan or measures
- X-ray interpretation available
- Posterior opening
- Northfoam lined
- Subortholon/co-polymer material
- Laminations and cut-outs optional
- White, flesh or transfer
- To a fitting if required
- New Airtex lining available



Atlas Comfort

Description

The Atlas Comfort brace is designed specifically for patients who have difficulty tolerating TLSOs but require firm support. The Atlas Comfort can be ordered to measurements or to a cast/scan with optional extras such as additional pads, windows, reinforcements and straps. Standard specifications include waist rectification and iliac crest build ups. The construction allows easy trimming in clinic and stiff reinforcements for support.

Features

- Available in 0, 10 and 15 degrees Lordosis
- 6mm Northfoam lining
- 3mm Co-polymer mid-layer in strips or custom frame
- 3mm foam cover
- Custom made to measures
- Custom made to cast/scan
- Additional pads available
- Windows available
- Various strapping available
- Posterior, anterior or bi-valve opening
- Different colours available - white, lilac, green, red, blue, black, yellow
- To a fitting if required
- New Airtex lining available

Indications

- Idiopathic scoliosis
- Neuro-muscular scoliosis
- Useful for patients that cannot tolerate a rigid brace
- Flexible spinal deformities
- Post-operative support



Bi Valve with strips

Anterior opening with frame

TLSO Measurements

2 sided form - please complete both sides.

Patient Information

Patient Name _____

Age _____ Sex _____

Diagnosis _____

Current User? Yes No

X-Ray? Yes No

Date _____

Customer _____

Atlas Body Atlas Comfort Atlas Scoliosis Atlas CAD-CAM

Order No. _____ Orthotist _____

Brace Design

Axilla Extension Left Right Curve Type _____

Thoracic Pad Left Right _____

Lumbar Pad Left Right _____

Trochanter Extension Left Right _____

Orthosis Options

To a fitting? Yes No

Add. Spec. _____

Straps _____

Lapel _____

Abominal Shape _____

Gusset material on window? Yes No

Cut Out Location _____

Opening: Anterior Posterior Bi Valve

Offset Opening: Left Right

Lordosis: 0 10 15

Materials

Material _____

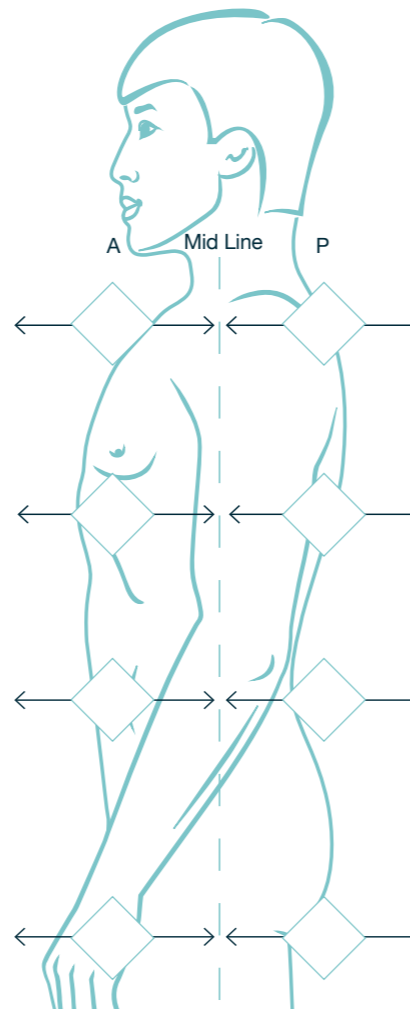
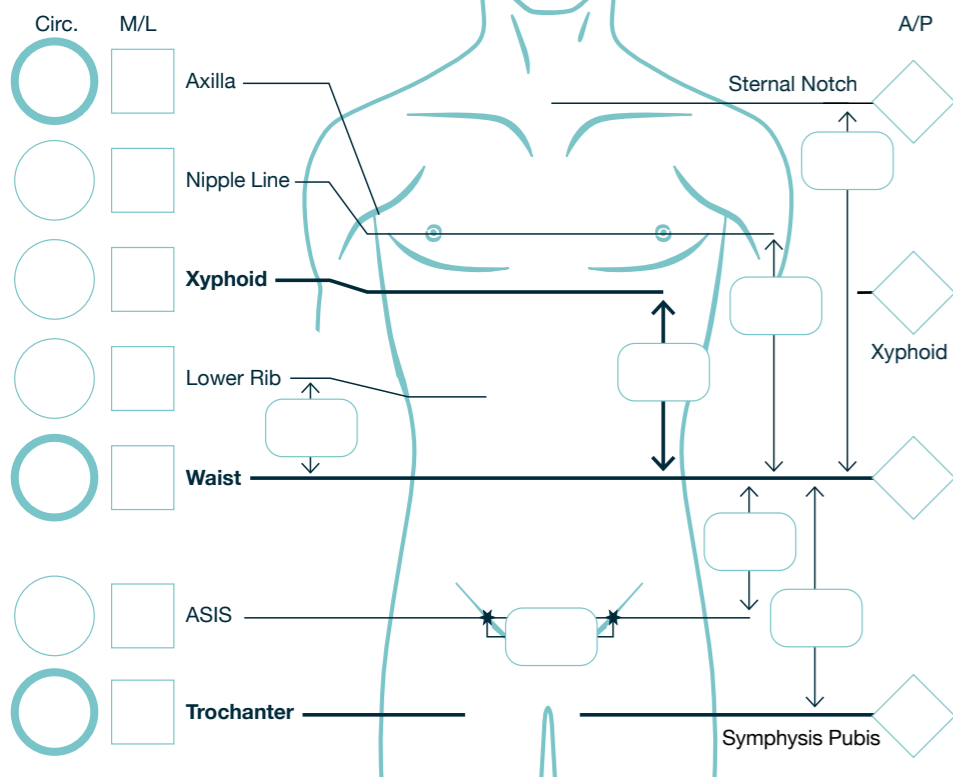
Thickness _____

Colour/Transfer _____

Lining _____ 3 6

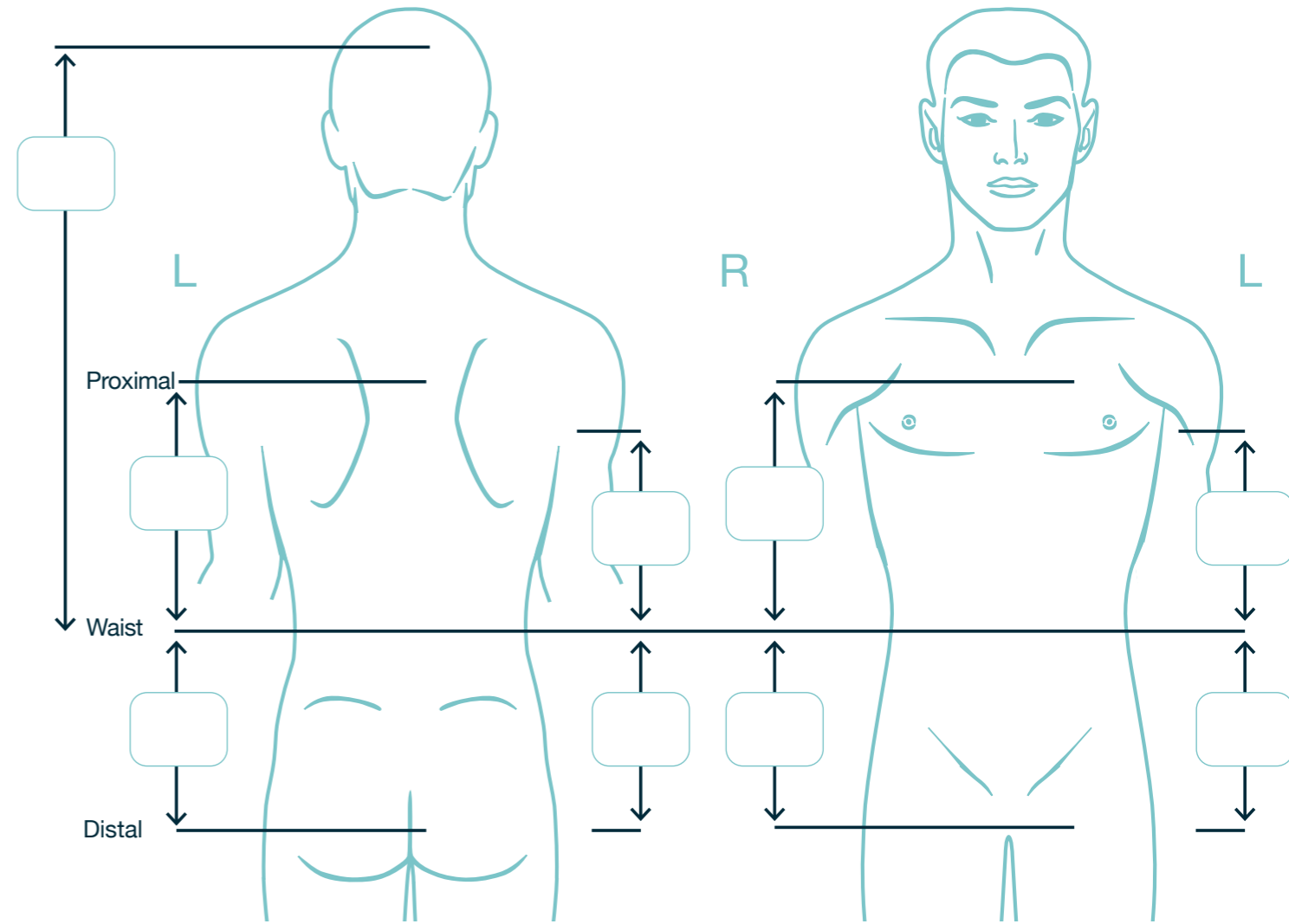
Measurements

Only take all measures if ordering made to measures. Otherwise, just fill in bold circles.



Finished Trimlines

Please indicate trimline required.



Any Other Information

Upper Limb Orthoses



Fabric Gaiters

Our Fabric Gaiters are designed and clinically proven to use ergonomic principles.

Blatchford have considered the unique requirements of the intended user. Blatchford ensures all gaiters and associated components which require adjustment or operation by the user, are easily accessible and ergonomically practicable for the user.

Our gaiters feature structural inserts which immobilise the joint to hold it in extension whilst preventing excessive movement. Straps are used to tighten the gaiter around the limb. Gaiters worn on either the arms or legs to keep the elbows or knees straight and stabilised.

All products can be further customised using a range of patterns found on pages 30-31.



Wrist, Hand and Thumb Supports

Blatchford Wrist-Hand Orthoses (WHO) are designed and prescribed for a variety of conditions.

They can be used for positioning/stabilising the wrist, for range of motion assistance, or stop joints from flexing or extending. They can also be used for fracture management. Materials for construction include plastic, carbon, and leather.

All products can be further customised using a range of transfers found on pages 30-31.



Lower Limb Orthoses

AFOs

Our AFOs can be made from different materials including thermoplastic (plastic) or pre-preg (carbon fibre) with or without the inclusion of ankle joints or hinges.

The orthotist will determine which material choice, material thickness and the inclusion/exclusion of ankle joints or hinges is best for use in the patient's own environment.

All plastic devices can be further customised using a range of transfers found on pages 30-32.



Hinged AFO

Piggy Back AFO DAFO

Ground Reaction AFO



Fixed AFO

DAFO



KAFOs

Our KAFO products support the knee, ankle and foot joints and to control movement throughout the full length of the lower limb. This can help relieve painful motion and improve mobilisation due to lower limb weakness.

There are many knee and ankle joint components that can be used for focused movement or immobilisation.

These include stance phase control knee joints which provide full stability upon weight bearing, and release on swinging the leg through. This provides the KAFO user with a more natural and energy gait pattern.

A KAFO can be made from different materials including thermoplastic (plastic) and pre-preg (carbon fibre).

Our Plastic KAFOs are manufactured using joint components from leading suppliers Ottobock and Becker and our pre-preg carbon KAFOs range use joints components from Fior & Gents and Becker



BK Irons

Custom BK irons can be designed with single, double or Rizolli irons for different purposes.

All BK irons require a socket system in the base of the footwear to anchor the BK iron and form a system. Made to Measure shoes can be ordered from Blatchford separately or appropriate footwear can be supplied by the patient where we can adapt and fit the BK.



Plastic Transfer and Gaiter Patterns

Space



Rockets



Stars



Outer Space

Animals and Insects



Beautifully



Owls Pink



Dolphin Sea



Ladybird Flowers



Safari Orange



Unicorns



Animals Library



Cheetah Print



Dinosaur Blue Green



Leopard Jungle



Ocean Scene

Special FX



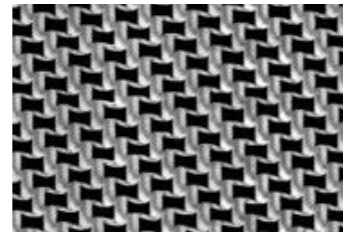
Building Blocks



Camouflage Military



Camouflage Pink



Carbon Fibre



Flames Blue



Swirl Multi



Denim Blue



3D Multicolour

Sports



Football Blue



Football Red

Assorted



Music Time



Princess



Skulls Black



Pixels



Donuts

Superheroes



Flying Hero Yellow



Superheroes Collection



Superheroines Women



Shield



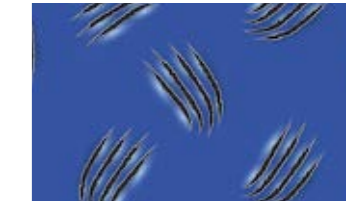
The Masked Hero



Spidey

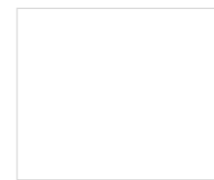


Eyes Denim



Panther

EVA Colour Options



White



Orange



Red



Pink



Black



Brown



Blue



Purple



Lilac



Grey



Blond

Solo Character Transfers (not available on gaiters)

Action



Motocross



Skateboard

Characters



Cute Dinosaur



Fairy Pink



Teddy Grey

Tattoos



Butterfly Colourful

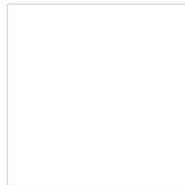


Skull Lady



Skull Red Band

Block Colour Options



White



Yellow



Red



Pink



Purple



Blue



Black

Please note that transfers may become slightly distorted due to the fabrication process, and colours may vary from samples shown. All transfer are subject to change and supplier availability.

FFOs and Insoles

Insoles

Our Insoles can be made from different materials including thermoplastic (plastic), EVA (ethylene vinyl acetate), carbon fibre and 3D printed. The orthotist will determine which material choice, material thickness which is best for use in the patient's own environment. The following are our clinical led designs aimed at specific aetiologies to aid consistency of approach backed by national guidelines and evidence based care.

ProMax Rheumatoid Insole



Description

The ProMax Rheumatoid Insole offers superior shock absorption, comfort and cushioning. Designed as a pressure redistribution insole and developed from high spec. materials, ProMax helps relieve pain, decrease pressure and reduce joint damage.

Biomechanical Features

- PU Foam Base shore rating A40-50
- Shock absorbing material not intended for rear foot posting
- Excellent abrasion and tear resistance
- Very high impact resistance while providing comfort and stability for the patient

Interface Features

- Dual layer construction
- Lunatec motion SL top layer
- Closed cell structure, durable and hygienic
- Absorb shearing forces
- Excellent bedding properties in the horizontal load plane

Increased Patient Comfort

- PU base layer assists shock absorption
- Specified PU foam reduces and transfers unwanted pressure from prominent bone structures
- Excellent for Rheumatism or sensitive diabetic feet
- Reduces pain through minimising shear forces for pressure sensitive area

ProTib PTTD Insole



Description

The ProTib PTTD Insole is ideal for patients with Tibialis Posterior Dysfunction. Its custom thermoplastic shell gives excellent biomechanical control and the design incorporates a series of shape features to enhance fit and comfort.

Biomechanical Features

- Medial heel skive and opposing lateral clip
- Reduced profile medial posting
- U shaped 2mm shell profile enhances medial arch strength

Interface Features

- Durable Spenco Top Cover
- Soft non-abrasive material

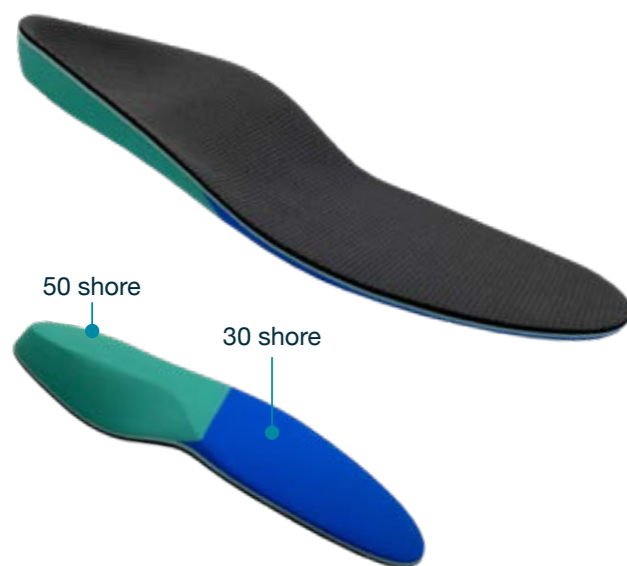
Increased Patient Comfort

- Streamlined trim to provide comfort on heel strike
- Increased comfort rear foot post

Foot Friendly Shape

- 2mm feather edge for optimum fit
- Outer shell conforms to shoe

Protec I Insole



Description

The ProTec Diabetic Insole is a pressure relieving insole designed to decrease the rate of ulceration, enhance comfort and reduce shear force on the foot.

Biomechanical Features

- High memory Poron 96 mid layer
- Compression-set resistance
- Split density EVA 50-30 shore supports stability, comfort and balance

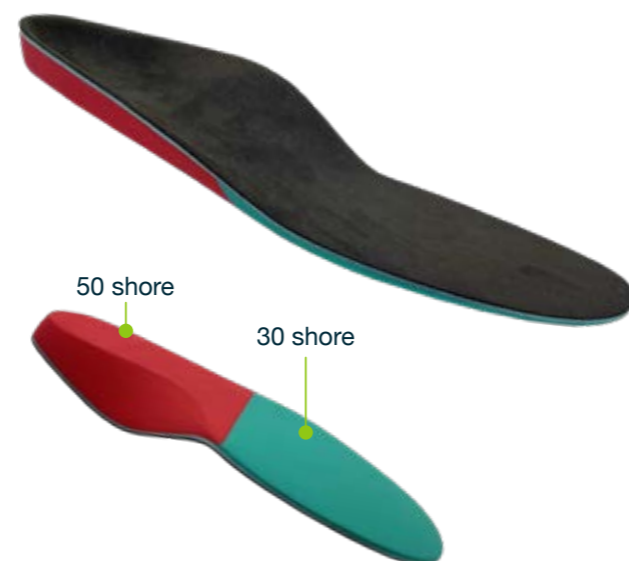
Interface Features

- Latest anti-bacterial Bamboo Top Cover
- Totally natural
- Anti-fungal properties
- Thermo regulator
- Moisture wicking

Increased Patient Comfort

- Excellent impact absorption
- Cushioning microcellular structure
- Open cell - breathable

Protec II Insole



Description

The ProTec II Diabetic Insole is a pressure relieving insole designed to decrease the rate of ulceration, enhance comfort and reduce shear force on the foot. It provides the same benefits of the standard ProTec.

Biomechanical Features

- High memory Poron 96 mid layer
- Compression-set resistance
- Split density insole: fore part 30 shore, rear part 50 shore

Interface Features

- Silana micro-fibre top cover, high quality, synthetic suede material

Protec III Insole



Description

The ProTec III Diabetic Insole is a pressure relieving insole designed to decrease the rate of ulceration, enhance comfort and reduce shear force on the foot. It provides the same benefits of the standard ProTec II Diabetic Insole but features an additional triple layer for enhanced durability.

Biomechanical Features

- Trilaminar EVA base, Shore densities are A65-30-50
- High memory Poron 96 mid layer (optional)
- Trilaminar density EVA base supports stability comfort and balance

Interface Features

- Silana micro-fibre top cover, high quality, synthetic suede material

Full Length EVA Functional Insole



Description

Full Length single density EVA manufactured from a range of densities to support stability, comfort and balance.

Biomechanical Features

- 30 Shore Low Density
- 50 Shore Medium Density
- 70 Shore High Density
- External posting can be added to aid biomechanical control

Interface Extras

- Microfibre
- Leather-Tec: Blue, Black, Beige
- 1.6mm EVA Black Marble
- 1.6mm Spenco
- 1.6mm Bamboo Neosorb
- Poron 1.6mm: Grey, Yellow, Black
- Poron 3.2mm: Grey, Yellow, Black, Pink
- Spenco 3.2mm: Lunatec & Lunairmed 3.2mm
- 3.2mm Algeofom
- Poron 6mm: Grey, Pink

Additive Manufacturing

All our insole are printed in PA11 using the latest multi-fusion jet printers.

Clinical Benefits

- Design freedom offering improved design options
- Multi-function zones within the same device
- Higher control on biomechanical effects leading to increased comfort for the user
- Increase patient compliance with prescription integration at CAD stage eliminating post processes

Environmental Benefits

- Award winning sustainable process for manufacture: additive manufacturing produces much lower waste compared with alternative milling process
- Additive manufacturing uses renewable raw material (cellulose-based, no plastic)
- 70% of the material can be reused in Additive manufacturing compared to 0% with alternative milling process

The standard models shown to the right can be customised with various shell additions such as:

- Arch supports
- Met domes
- Lateral clips
- Radius arch supports
- Horse shoe posts
- Lateral hemi posts
- Lateral posts
- Lateral quarter posts
- Arch density reduction
- Company Logos



3D Printed Morton Extension



Biomechanical Features

- Morton's Extension to stabilise, limit and support big toe joint motion
- Lightweight Tri heel stabilising post
- Breathable shell construction

3D Printed Breathe Insole



Biomechanical Features

- Lightweight
- Horseshoe shaped heel stabilising post
- Breathable shell construction

3D Printed Heavyweight Insole



Biomechanical Features

- Solid heel stabilising post
- Durable shell construction
- Increased arch support

3D Printed Lightweight Insole



Biomechanical Features

- Lightweight ribbed heel stabilising post
- Breathable shell construction
- Weight reducing perforation

Footwear

Footwear Adaptions

We can carry out a wide range of footwear repairs and adaptations to sole units on orthotic and high street shoes. These adaptations are designed to meet the functional loss and needs of a patient rather than treat and individual condition or pathology.

Footwear adaptations can be prescribed for a variety of reasons such as:

- Raises for length discrepancy
- Wedge, or flares to alter the foot position and provide support when walking
- Inclusion of a socket for a BK iron
- General repairs to soles and heels

Our highly trained technicians are always available to discuss individual tailored adaptations and material to ensure each adaption is right first time.



Custom/Modular Footwear

Our custom footwear range has been designed using the latest materials and manufacturing methods to produce the highest quality footwear. Our Modular range is available in 5 last options for ladies and 4 options for gents. There are various style, colour and sole options available and all footwear is made to a trial fit stage as default.

Additions can be added to the different lasts to create a semi-bespoke shoe for optimal treatment of more complex pathologies. For bespoke footwear a draft and measurements must be provided, along with a cast and photos as necessary. Please note that complex bespoke footwear may require non-standard sole and heel units, stiffeners and insoles.

A full adaptation service is available for additions such as rocker soles, flares, sockets etc., on all types of footwear.



Specialist Orthotics Carbon Fibre



Our dedicated team of pre preg carbon fibre technicians use their specialist skills to design and manufacture a range of specialist orthotic products for the lower limb.

Momentum®

Momentum® is an orthotic brace designed to deflect body weight and stabilise the ankle to improve mobility and minimise pain for the user. Momentum® uses carbon composite struts that work much like prosthetic running blades to store and return energy to provide a spring in your step and enable participation in high impact activities such as running. Each brace is bespoke with optimal alignment, spring strength and off-loading tailored to each individual user.

Momentum® can be effective in treating patients experiencing chronic pain, weakness or instability at the foot and ankle. This can be due to some congenital conditions; following complex lower limb injury, as well as for the neurological patient group as it helps replace weakness of the plantar flexors, enabling active push-off.

Momentum® is especially effective when combined with physical rehabilitation. Published research has shown this style of brace to be 30% more effective when combined with a tailored rehabilitation programme.



Carbon AFO

Blatchford offers a full range of AFOs that provide support and alignment control at the ankle and foot. An AFO can be designed to limit motion when required, or tailored to allow ankle motion with dynamic assistance to improve walking symmetry.

There are many types of ankle joint available which introduce free, controlled or assisted motion, to ease movement when walking on stairs or slopes.



KAFO

Our KAFO products are designed to support the knee, ankle and foot joints and to control movement throughout the full length of the lower limb. This can help relieve painful motion and improve mobilisation due to lower limb weakness.

There are many knee and ankle joint components that can be used for focused movement or immobilisation. These include stance phase control knee joints which provide full stability upon weight bearing, and release on swinging the leg through. This provides the KAFO user with a more natural and energy efficient gait pattern





TECTUS®

EMBRACE THE NEXT STEP

Tectus®

Tectus® is a slim, lightweight microprocessor controlled orthotic device. Delivering life-changing mobility to people with partial lower limb paralysis, Tectus® can enable you to:

- Walk over different terrains with greater confidence
- Enjoy daily life with peace of mind, equipped with 18+ hours of battery life
- Walk fluidly without the burden of a heavy device, with the Tectus® module weighing just 660g
- Achieve the perfect fit everytime, Tectus® allows comfortable and flexible positioning to accommodate any thigh size
- **Tectus® Modes** - across 5 operating modes, Tectus® has everyday activities covered. Wearers can go from descending stairs to standing in queues with ease. Change walking speeds, sit, stand, lock - it's all possible at the touch of a button.

Is Tectus® Right for You?

Tectus® has been developed for adult use but could be suitable for teenagers. It is indicated for patients with one or more of the following conditions:

- Quadriceps weakness
- Flaccid paralysis of the lower limb
- Resultant paralysis from orthopaedic injury
- Insufficient knee control
- Spinal injuries
- Stroke patients (mild tone only)
- Poliomyelitis

It is only suitable for patients who weigh between 50kg and 100kg and they must be able to initiate hip flexor movement, and have good control of their trunk.

The brace is not suitable for patients who have:

- Hip and/or knee contractures (greater than 10 degrees combined)
- Significant spasticity
- A leg length discrepancy of more than 15cm
- Poor cognitive function



Find out more: 



“ I wasn't living; I was existing, and now I'm living. I'm doing what I want - I can go anywhere. ”

Alfie Wright, British Paralympic Weightlifter and Tectus® Wearer



“ I can just enjoy life rather than worrying about limitations. ”

Alex Slegg, British Paralympic Skier and Tectus® Wearer

Specialist Seating



Foam Carve

Description

The Blatchford Carved Foam Seat is designed to provide custom postural support. It is made using a 3D scan obtained during the clinic to ensure an accurate replication of the moulded shape.

High density, high reliance polyurethane foam is used to manufacture the seat. The foam has excellent immersion and envelopment properties providing additional pressure redistribution, as well as durability. The foam can be reinforced in certain areas using higher density foam to maximise support. The seat foam is then braced by a Polypropylene shell to support the foam posteriorly and laterally. The foam is covered in a protective Platilon® liner, which has excellent stretch qualities ensuring durability of the foam is maintained. It is also transparent, making it easy to regularly inspect the foam underneath. Every quilted cover is made to the colour choice combination of the customer, manufactured from a pattern, created individually to match the unique shape of every seat. Made with 6mm of padding to maximise comfort and provide a high-quality finish, spacer covers can also be requested as part of the specification. Back and seat only options are also available, allowing carved foam to be used in conjunction with other seating solutions.

Features

- Several foam density options
- Easily interfaced into commonly used wheelbases*
- Carved using advanced technology to provide an accurate shape
- Platilon® liner for foam protection
- Head support, harness and posture belt choices
- Bespoke removable quilted covers, machine washable at 40 degrees



KATO

Description

The Blatchford Kato Seating System is a made to measure modular seating system, designed to provide durable postural support. It is made from detailed measurements taken during the clinic assessment and can include features such as leg length discrepancies. The seat is made from high density, high resilience polyurethane foam and a polypropylene shell to provide posterior support, strength, and durability. Other specialist materials such as viscoelastic foams can also be included for increased pressure redistribution, where required. The highly durable vinyl covers, which can be easily wiped clean, are available in a range of colours. Other cover options are available.

Features

- Easily interfaced into commonly used wheelbases*
- Swing away lateral supports
- Medial thigh support (pommel)
- Built in lateral thigh supports with growth pads
- Up to 7.5cm seat depth adjustment
- Up to 5cm back height and seat width adjustment
- Platilon® liner
- Durable vinyl covers
- Available as a seat or back only
- Leg length, head support, harness and belt options



MSI

Description

The Blatchford Moulded Seat Insert is designed to provide rigid custom postural support. It is made using a 3D scan and is moulded by hand to ensure every contour of the moulded shape is accurately replicated. High density polyethylene (HDPE) is used to manufacture the seat shell, selected for its high strength to density ratio and resistance to stress cracks. The shell is surrounded by an undrilled support frame, for additional support and strength. This combination makes it resistant to damage by even the most demanding users. An integral liner is provided as standard. Additional removable liners can be used to maximise comfort and allows minor size adjustments, e.g. for growth. Every quilted cover is made to the colour choice combination of the customer, manufactured from a pattern, created individually to match the unique shape of every seat. Made with 6mm thick padding to maximise comfort and provide a high quality finish spacer covers can also be requested as part of the specification.

Features

- Easily interfaced into commonly used wheelbases
- Hand crafted to provide optimum support and posture correction
- Lightweight and strong design
- Optional quilted covers for pressure redistribution
- Head support harness and posture belt options
- Hightone
- Bespoke removable quilted covers, machine washable at 40 degrees
- Soft spots for pressure redistribution

Prosthetics

Prosthetics

Our range of prosthetic sockets can be manufactured using a range of materials including thermoplastic, laminate or carbon. All sockets include an adapter to mount the prosthesis. The prosthetist will determine which material choice in conjunction with the patient, material thickness and CE marked socket adapter on user mass and activity level.



Socket Materials

Diagnostic Socket Materials

- **Northplex or Limbpasstiff** - clear material, allowing fit and volume to be assessed.

Inner Socket Materials

- **Pe-lite** - Closed cell polyethylene foam. Flesh coloured, white or black. Can be used for inner liners for all amputation levels and also for differential patches. Soft for comfort, retains its shape, can be wiped clean.
- **Plastazote** - Closed cell crosslinked polyethylene foam. Available in many colours, we usually use flesh coloured, white or black. Can be used for end bearing pads and differential patches. Available in different densities, the ones we use are softer than pe-lite.
- **Northvane** - Vinyl Acetate Copolymer and Ethylene. White or black. Used for inner liners usually for transfemorals. Flexible and can be riveted. Can incorporate valves but not locks.
- **MPE** - Modified polyethylene. Usually, white. Used for inner liners usually for transtibial. Can incorporate locks and some valves.

Outer Socket Materials

- **Copolymer polypropylene** - Available in many colours, we usually use white or black. It is light, rigid and has a high impact strength. Used for outer sockets for transtibial and transfemoral.
- **Homopolymer polypropylene** - Available in many colours, we usually use white. Usually used as an outer socket for transfemorals. It is light, more rigid than copolymer but brittle. Useful for when cut outs are necessary.
- **Lamination** - Often flesh coloured but can be any colour or can incorporate commercially available or patient supplied materials. Can incorporate valves and locks. Lightweight. Material layup can be adjusted according to patient weight/activity level.
- **Carbon** - Black, heavy duty

Our custom sockets are typically used in combination with liners or socks to provide additional comfort and security to the user.





CAD-CAM and Scanning Technologies

Our Technology

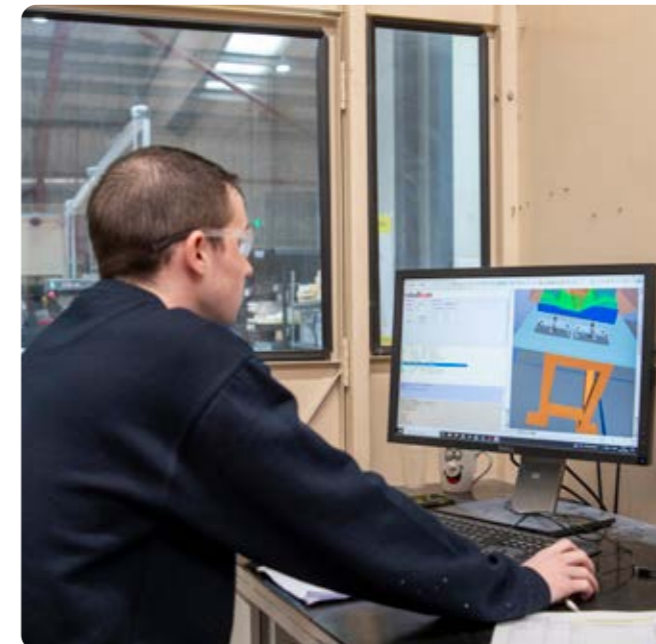
We have a full suite of CAD modelling systems that we use across our manufacturing sections from leading software providers.

- **Footwear** - Shoemaster, Fyous
- **Insoles EVA/3D Printed** - Paromed, Fit360, Paragon
- **AFOs** - Rodin, Roboticom
- **Spinal** - Rodin, Roboticom
- **Helmet** - Rodin, Roboticom
- **Complex Seating** - Rodin, Roboticom
- **Prosthetic Sockets** - Rodin, Roboticom



To compliment these we also have a range of CNC machines including a 7 axis robot, several 3 axis milling machines giving us the capability to offer a range of milling options for custom complex shapes.

Our clinical team have the option to use our scanning technology for data capture across our full range.



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