Seated Throws
Seated, or secured, throwing takes place in a throws circle. The events cover shot, javelin, discus and club and are available to those athletes that are unable to stand and/or have balance and stability problems that make throwing from an ambulant position difficult. Athletes in the seated throwing events throw from either their day chairs, or from custom made throwing frames, which are secured to the ground by straps.

Classification & Eligibility
The impairments and classifications associated with seated throwing events are:

- Athletes with cerebral palsy (or similar) - F31, F32, F33, F34
- Athletes with spinal injury - F51, F52, F53, F54, F55, F56
- Athletes with lower limb loss (or similar) - F57

Classification is coordinated nationally by British Athletics. A classification is required to enter all Parallel Success competitions and for results to be recognised on the UK Rankings (www.thepowerof10.info).

- For ‘An Introduction to Classification’ video and downloadable factsheet visit: http://ucoach.com/video/an-introduction-to-classification-in-athletics
- For more information and changes to eligibility rules see IPC Athletics: www.paralympic.org/Athletics/RulesandRegulations/Classification
Throwing Frames

Throwing frames are individually designed assistive devices which are scaffold-like chairs made of metal bars and plates welded together. The main purpose of the throwing frame is to assist in weight bearing. Consequently, it contributes to the performance of an athlete by enabling the optimum throwing action (range of movement, velocity of body segments, final body position at release etc).* A variety of different classes are eligible to compete in seated throws, consequently, there is a range of frames within and between the different classes of athletes.

IPC frame specifications

Please visit IPC Athletics for up to date rules on throwing frame specifications and also rules for seated throws - [www.paralympic.org/Athletics/Rulesandregulations/Rules](http://www.paralympic.org/Athletics/Rulesandregulations/Rules)

**Seat**

- The maximum seat height is 75cm from the ground (including seat padding)
- The seating area must be Square or rectangle in shape
- Each side to be at least 30cm in length
- The seat surface of the frame must be level or with the front higher than the back (i.e. inclined backwards).

**Back and side rests**

- The seat may incorporate back and side rests for the purposes of safety and stability. They can either be made of non-elastic fabric (e.g. non-elastic canvas) or be a rigid construction that does not move (e.g. rigid steel or aluminium).
- The backrest may incorporate cushioning that must not exceed 5 cm in thickness.
- The back rest should not incorporate springs or movable joints or any other feature that could assist with propulsion of the throwing implement.
- Backrests are used mostly by those athletes with no to minimal abdominal and back muscle control (F51-55, F31-32).
- The height of the backrest is usually at a height to suit the individual and usually replicates the height of the backrest on the athlete’s day chair.

**Pole/Holding Bar**

- The throwing frame may have a rigid vertical holding bar.
- The holding bar must be a single, straight piece of material without curves or bends, and with a cross-sectional profile that is circular or square, not oval or rectangular. It must not incorporate springs or movable joints or any other feature that could assist with propulsion of the throwing implement.
- They are used mainly for support and stability and mostly used by low class spinal injury athletes and athletes with cerebral palsy (F51-55, F31-34).

**Footplates**

- Footplates, if used, are for support and stability only.
- Footplates must stay behind the front of the throwing circle.
- Athletes with good leg and foot function are likely to just place their feet on a footplate e.g. F57.
- Less functional athletes with no, or poor to fair leg and foot function in one or both legs may want to secure/hook their feet in place to limit extra movement e.g. F31-34, F51-56.
- Additional strapping can be used around legs and/or knees for stability and support.
- A daily wheelchair that satisfies these criteria is acceptable (including the requirement that it must not move during the throwing action).
**Accessing Throwing Frames**

A fully adjustable throwing frame, the ‘Protean STF’ is now available for purchase through England Athletics, full information at [www.englandathletics.org/protean](http://www.englandathletics.org/protean). It enables athletics clubs to provide training opportunities for new and beginner athletes who want to try seated throwing.

The throwing frame meets the IPC Athletics rule specifications and has anchor points for securing it to the ground when throwing. It is easily adjustable so multiple athletes are able to use it, and will also assist the coach with developing the functional template for those athletes that commit to the sport and may need a more bespoke throwing frame.

Bespoke frames are designed and engineered around an individual athlete that has committed to training and competing. Currently, the construction of each individual throwing frame is mainly driven by an empirical approach, relying on the feedback from coaches and athletes as well as apparent functionality and sensations of comfort.*

The fully adjustable throwing frame described above now makes this process simpler, by assisting with the development of an individual athlete’s functional template. This functional template can then be taken to local welders/fabricators for design and manufacture.

Further information and contact details can be accessed by visiting [www.englandathletics.org/protean](http://www.englandathletics.org/protean)

JGB Engineering also manufacture the Throwster throwing frame. More information can be found by visiting [www.throwster.weebly.com](http://www.throwster.weebly.com)

The following national organisations are also able to design, develop and manufacture bespoke items of equipment for disabled people.

Remap: [www.remap.org.uk](http://www.remap.org.uk)

Demand: [www.demand.org.uk](http://www.demand.org.uk)


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**Securing Throwing Frames & Wheelchairs**

Throwing frames and wheelchairs need to be firmly secured to the ground during throwing. Ratchet straps are commonly used to tie down a throwing frame or wheelchair, these are secured to the ground with ground anchors or a tie down bar which are concreted in place around the throwing circle. Stakes may also be used instead to secure a frame or wheelchair into grass surfaces. Athletes need to have their own ratchet straps but it is useful for clubs to have some too for beginner athletes. Good sources for straps include local DIY stores as well as athletics equipment suppliers. Stakes can be purchased cheaply from a local welder and some athletics suppliers (see page 6).

**Fixing Point Installation for Seated (secured) Throws**

The UKA SAPCA Code of Practice for the Construction of Athletics Track and Field Facilities gives details of the technical designs and drawings for installation of seated throws fixings. Registration on the
following website is free, and will allow any changes or revisions to the Code of Practice to be emailed directly.

www.sapca.org.uk/quick-links/athletics-tracks

For all new build/refurbishment projects provision should be made to accommodate athletes using throwing frames or wheelchairs by installing throws circle fixing points.

**Fixings for Performance Facilities and Higher Level Domestic and International Competition**

The pictures below show the fixings layout that was used for the London 2012 Paralympic Games. This is the UKA recommended layout for higher level competition and training and all new build throwing circles.

A set comprises of nine sockets (with nylon caps for when not in use), one central straight angle iron, two x front and rear shaped angle irons and three struts to rear angle iron to prevent any movement of fittings. These fittings give maximum choice of adjustment with a hole for fitting the ratchet straps to every 50mm. The finish should be galvanised to provide a long lasting finish.

**Fixings for club facilities (training and competition)**

Another layout option for general club usage and low level competition for club facilities is shown above. A set comprises of 5 sockets (with nylon cap for when not in use) and 2 galvanised angle irons. The holes for attaching straps are every 100mm. The number of fixing points back and front can vary, however a greater number will add flexibility as athlete throwing frames do not come in standard shapes and sizes.

**Ground Anchors**

For existing facilities and low level refurbishments ground anchors can also be used.

Ground anchors for throws circles consist of three parts:

i. The ringbolt – made of steel

ii. The buried sleeve – made of steel, into which the ring bolt screws

The ring bolt and sleeve should be made of stainless steel to prevent rusting.

iii. The concrete foundation – the most important of the three

UK Athletics can provide advice and guidance on the installation of throws fixings. Please Visit www.uka.org.uk/governance/facilities for contact details.

The Sport and Play Construction Association (SAPCA) maintain an updated list of recommended contractors for the installation of throws fixings: www.sapca.org.uk
Throwing Platforms or Stakes
When throwing circles with fixings are not available it is also possible for athletes to throw from throwing platforms or for throwing frames and wheelchairs to be secured using stakes in the ground. These fixing methods are best done only in training situations and full throwing circles should be used wherever possible for competition. Particular attention should be paid to the safety and distance of other athletes and any other persons when throwing without a cage, especially during club or javelin training or competition. It is advisable NOT to participate in discus without a cage under any circumstance.

Throwing Implements
Disabled athletes throw different weight implements and details of the recommended weights and age groups are available from the IPC (International Paralympic Committee) Rules: www.paralympic.org/Athletics/Rulesandregulations/Rules
In general, standard size implements can be used by disabled athletes with a couple of exceptions:
◆ Club – A throwing club has 2 main head types, round or square, and a competition club weighs 397g.
◆ Shot – Smaller sized, same weight shots are available for dwarf /short stature athletes who have smaller hands and therefore more difficulty holding the larger implements.

Suppliers
This is not an exhaustive list but throwing implements can be purchased from:
Eveque
www.eveque.co.uk
Neuff
www.neuff.co.uk
Stadia Sports
www.stadia.sports.co.uk
Track and Field Sports
www.trackandfieldsports.co.uk
Safari Sports
www.safarisports.com
**Funding Advice**

Below are some tips for applying for funding from local charities and private organisations:

- Read the criteria carefully before applying.
- Charities have limited funding themselves and are often run by volunteers, so decisions may not be immediate.
- Local support is often faster, through smaller contributions, fundraising and personal savings:
  - Fundraising: ebay, car boot sales, sponsored events, parties
  - Local businesses
  - Local groups: Lions Club, Rotary International, Round Table etc.
  - School PTA etc.
  - Local Councils, Districts etc. often have details of trusts, charities and grants

In all cases providing your own contribution will help an application, and remember the sport will cost money through training, travel, race entries, and accommodation. Showing that you are already committed, using borrowed or second-hand equipment, being a member of a club and have UKA classification will also boost an application.

There are details of funding opportunities listed below, this is some general advice and not an exhaustive list. As funding opportunities change regularly we recommend doing your own research too. Your local County Sports Partnership will have details of any local funding opportunities.

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**Funding Opportunities**

**Funding Central**
For funding advice and to search for funding opportunities visit Funding Central:
www.fundingcentral.org.uk

**Adam Millichip Foundation**
Individuals looking to improve their quality of life by taking up a new venture. Athletes new to the sport, not for competition purposes.
www.adammillichipfoundation.org

**Aspire**
Supporting people with a spinal injury. Part-funding for new equipment only.
www.aspire.org.uk/aspire-grants.aspx

**Barchester Charitable Foundation**
Adults with a physical disability. £1,500 to £5,000.
www.bhcfoundation.org.uk

**Boparan Charitable Trust**
(Children under 18 years)
www.theboparancharitabletrust.com

**Cash4Kids**
Regional
www.cashforkids.uk.com

**Caudwell Children**
Children under 18 years. Means-tested.
www.caudwellchildren.com

**Cerebra**
Children up to 16 years with neurological disability (i.e. CP, Brain Damage). Up to 80%.
www.cerebra.org.uk/English/gethelp/grants/Pages/default.aspx

**Challenged Athlete Foundation**
IPC eligible - i.e. must have a UKA classification, max $2,500.
www.challengedathletes.org

**Children’s Hope Foundation**
Individuals and clubs, look under the downloads section for an application form.
www.childrenshopefoundation.org.uk

**Children Today**
Up to 25 years.
www.childrentoday.org.uk

**Dickie Bird Foundation**
Children under 18 years.
www.thedickiebirdfoundation.co.uk

**Dream It Believe It Achieve It**
www.dreamitbelieveitachieveit.com

**Elifar Foundation**
Children and Adults
www.elifarfoundation.org.uk
Family Fund
Children under 18 years. Means-tested.
www.familyfund.org.uk

Get Kids Going
Children up to 26 years.
www.getkidsgoing.com

Richard Overall Trust
Young people and students
www.richardoveralltrust.co.uk

Roald Dahl Charity
Up to 25 years with specific conditions of blood or brain, up to £500.
www.roalddahl.com/charity

SF Charity
Disabled people - all ages. Up to £1,000 suggested limit, Midlands only.
www.sfcharity.co.uk/

Sport England Small Grants
Clubs only
www.sportengland.org/funding/small_grants.aspx

Variety
Children up to 18 years, individuals and clubs.
www.variety.org.uk/

WheelPower Wheel Appeal
Individuals and clubs)
www.wheelpower.org.uk/WPower/index.cfm/what-we-do/wheel-appeal/

WhizzKidz
Children under 18 years.
www.whizz-kidz.org.uk/get-our-help/equipment

Women’s Sport Trust
Individuals and clubs, grants of £500-£5,000, females only.
www.womenssporttrust.com

Other sources
Also try local Lions Clubs, Rotary International, Round Table etc.

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