

## Throwing chair for disabled athletes

### Development status

#### Final Phase

The technology is routinely used.

### IP protection status

Community industrial design  
004054385-0001

### Partnering strategy

*Collaboration, licensing*



### Institution



**Tomas Bata University in Zlín**

### Challenge

Athletes with a handicap for the hammer, javelin, shot put, etc. until now they have used either home-made or professionally made Throwing Chairs tailored to their specific height, weight and disability, which are usually welded and cannot be positioned, so every athlete must have their own Throwing Chair. This has a financial disadvantage, but also a travel , when there are more people in the team, they must have more throwing chairs, which is also demanding on space and transportation costs, usually they are bulky and heavy.

### Description

The effort to create a multi-functional sports facility that will allow disabled athletes to participate in athletic disciplines. The device can be used by right-handed and left-handed people with different handicaps as well as different weights and heights. Not only does the facility meet all the conditions set by the athletics association in the Czech Republic, but also abroad. The low weight of the device is an indisputable advantage during transport. The equipment facilitates sports enjoyment of disabled athletes in all respects. A type of structural material using stainless steel pipe profiles is used for production. This material increases the overall rigidity of the device and facilitates long-term sustainability. Therefore, no surface treatment is needed. A big advantage is the fact that the entire throwing chair can be disassembled, so that it can also be transported on an airplane with minimal space and weight requirements.

### Commercial opportunity

The uniqueness of the chair lies primarily in the universality of its use. Athletes with physical disabilities can use it in various athletic disciplines: shot put, discus throw, javelin or even skittles. It is intended for athletes of all age categories, different body weights, genders, handicaps, right-handed and left-handed. Throwing equipment opens up possibilities for athletes with different handicaps in several sports activities. This is a new device that will no doubt be used in the years to come. Everything is already ready for the mass

production of the throwing chair according to this industrial model. The offer is intended for athletes with a handicap and sellers of sporting goods.