

# Child wheelchair

Country of origin | Israel

## Health problem addressed

About 70 million people have different health conditions ranging from spinal cord injury to birth defects requiring a wheelchair for mobility. Among them, only 5-15% have access to one and out of this population, 25% are children with disabilities. Wheelchairs can assist these children to be mobile, independent and healthy.



## Product description

The wheelchair consists of two large rear wheels with pushrims, two small swiveling front wheels (castors), a metallic frame, plastic seat, footrest and a cushion. It is modular in design, its components come in three separate boxes and need to be assembled as per the need of the child.

## Product functionality

The user sits in the wheelchair and can move around manually by pushing the pushrims. It fosters independence and social integration and allows the child to leave the house, access education, and be like other children.

## Developer's claims of products benefits

Most of the available wheelchairs in the world are for adults. Available child wheelchairs are often the miniature size of adult wheelchairs without valuing children's needs and preferences. This product has been specifically designed for children. The wheelchair is light-weight but durable, low-cost and can be assembled locally. It requires low maintenance and is very attractive to children due its design and colour.

## Development stage

The wheelchair was developed and assessed according to DIN ISO 7176 and the WHO "Guidelines on the provision of manual wheelchairs in less-resourced settings".

## Future work and challenges

To establish collaboration with local NGOs and governmental organizations to support training and distribution, to provide training to rehabilitation teams and to raise funds to support the wheelchair's production and distribution.

## Use and maintenance

**User:** Self-use

**Training:** 1 day training by physiotherapist, occupational therapist or rehabilitation teams

**Maintenance:** Monthly adjustments of screws

## Environment of use

**Settings:** Rural, urban, ambulatory, at home, primary (health post, health center), secondary (general hospital), tertiary (specialized hospital)

**Requirements:** Trained clinical/technical personnel to assemble the wheelchair

## Product specifications

**Dimensions (mm):** 800 x 400 x 740

**List price (USD):** 95

**Weight (kg):** 11 with tubeless wheels, 9.5 with pneumatic tube

**Other features:** Continuous-use, mobile

**Year of commercialization:** Anticipated 2014

**Consumables:** Cushion, accessories

**Life time (years):** 3

**Retail price (USD):** 95