

# Adapted Bicycle Product List for Persons with Disabilities or Health Care Needs

## *Bicycling is for All Kids... of All Ages!*

Everyone of all ages and abilities can enjoy the bicycling experience. While some children and adults with disabilities or health care needs may not be able to use conventional bikes, there are different models of adapted bikes that are commercially available and that can adapt to different needs for positioning and mobility. This list, which is not intended to be all inclusive, provides an introduction to many of the manufacturers and distributors of these products.

Children and adults with disabilities or health care needs can benefit considerably from the opportunity to bicycle. Bicycling helps them to realize many benefits, including increased social activity with friends and family members and opportunities to improve physical function and coordination abilities. Therapists and other medical professionals can work with families to shape individual goals for children and adults with disabilities or health care needs to develop a healthy and fit lifestyle that includes bicycling as a regular recreational activity.

## *Bicycle Safety is for Everyone!*

Before anyone ever rides a bike, it is important to take the time to teach and learn the basics of bike safety, operation, and maintenance. Regardless of a person's ability, the basic guidelines for bike safety remain the same for all riders. These guidelines must be followed by everyone:

- **Wear a Bike Helmet.** Anyone who rides a bike must wear a properly fitted and approved bike helmet. Bike helmets must meet current safety standards set by the U.S. Consumer Product Safety Commission. Bike helmets must fit snugly on the rider's head with the chin strap snugly secured. If the rider falls from a bike, is involved in an bicycle crash, or if the helmet contacts a hard surface, the bike helmet must be replaced.
- **Know the Rules of the Road.** All riders must be able to demonstrate knowledge of basic bike safety practices: bike hand signals, riding bikes with traffic, how to respond to traffic safety signs.
- **Be Seen and Heard.** Reflectors, lights, horns, and flags help people to see and/or hear a bike at all times of the day. Do not ride a bike at night when you cannot be seen by motor vehicle drivers. If riding a bike at dusk or dawn, make certain all bike riders wear light colored or reflective clothing to be easily seen.
- **Prepare for Safe Bike Rides.** Drink plenty of fluids before, during, and after a bike ride to prevent dehydration. Take water with you on a bike ride and plan to make frequent stops so that no one becomes overheated. During the late spring and summer months, use sunscreen to help prevent sunburn. Pack a first aid kit, cell phone (if available), and relevant medical information for care providers or emergency responders to be able to react to any immediate first aid emergencies. Prior to bike riding, talk with your physician to identify any issues relating to your rider's medications and their use prior to, during, and after a bike ride and their impact on the rider if he becomes overheated.
- **Learn Bike Maintenance.** Riders and families should know basic bike maintenance responsibilities, which include regular inspections of brakes, gears, tires, and bike seat and handlebars. Periodic inspections should review that all parts are intact and in working order.
- **Provide Supervision.** All riders require supervision to varying degrees, depending upon their age, development, and ability. People with disabilities or health care needs may require extra attention,

particularly since bike riding may be a new experience and may be exercising newly developing motor and control skills.

### **Foot driven cycles**

Foot driven cycles resemble a standard tricycle that is modified to meet special needs. The three wheeled styling offers a wider base of support to allow increased independence for those with balance issues. They are suitable for children and adults with a wide range of physical problems from mild balance problems to more severe disabilities.

Optional Accessories: A front hand brake for safety, trunk and hip supports, a fixed position wheel and foot saddle attachments to the pedals which helps the peddling action, an adductor support to help with scissoring of the legs, along with numerous other accessories to aid in proper positioning and safe riding.

### **Hand driven cycles**

Like the foot driven cycle, the hand driven cycle also provides a wider base of support for increased stability. The hand driven cycle would be ideal for those with poor balance, reduced leg strength, incomplete para- or tetraplegia, hemiparesis, generalized muscle weakness, amputation, or back pain. Multiple accessories are available including various seating options for increased stability and comfort.

Optional Accessories: A front hand brake for safety, trunk and hip supports, a fixed position wheel and foot saddle attachments to the pedals which helps the peddling action, an adductor support to help with scissoring of the legs, along with numerous other accessories to aid in proper positioning and safe riding.

### **Tandem cycles**

Tandems, or two person models, are available for those riders who would prefer to ride with another person rather than be totally on their own. Several different designs include side by side tandems, front and back tandems that are versatile so that the rider with a disability may ride in either position, and a wheelchair based tandem where a bicycle attaches to the rear of and pushes a wheelchair. In some models, the wheelchair is detachable for participation in activities while you are out. Certain tandem bicycles allow for there to be a passive rider who can sit back and enjoy the experience of riding without the physical exertion involved.

The **Recumbent Cycle** places the rider in a reclined position, while the **Prone** positioning cycles place the rider in a forward leaning posture with their legs behind them in relation to the midline. This is recommended for those with high extensor tone and/ or poor head and trunk control.

The **bicycle trailer** attaches to the back of a standard adult bicycle. Various seating devices and accessories are available based on the needs of the consumer.

To assist in your search for the product that fits your individualized needs, we have developed a categorization system. Following each company name there is a series of letters that correspond with a letter in the key below. Determine what criteria the product you are searching for needs to meet, and then eliminate those who do not, speeding up the process.

Example: If I was searching for an adult (A), recumbent bike (R), It would be likely that I would find one possible product on the Freedom Concepts Inc. website since the categorization letters include "A" and "R".

#### Category Key:

A – Adult                      C – Children                      T – Tandem                      U – Upright  
P – Prone                      R – Recumbent                      BT – Bicycle Trailer

AmTryke/Ambucs  
(C,U)



Specializes in hand / foot driven therapeutic tricycles for individuals of all ages and offers patients improvement in several different areas such as motor skill development.

PO Box 5127 High Point, NC 27262

Phone: 1-800-838-1845

Fax: 1-336-852-6830

Website: <http://ambucs.org>

E-mail: [ambucs@ambucs.org](mailto:ambucs@ambucs.org)

Angletech  
(A,C,R,T)



Manufactures custom fit hand and foot powered recumbent tricycles for all ages and abilities. These tricycles offer the rider comfort, fun, and safety.

1483 Garden of the Gods Road, Colorado Springs, CO, 80907.

Phone: 1-719-687-7475

Website: <http://cycledifferent.com/>

Email: [angeltech@me.com](mailto:angeltech@me.com)

Bike On  
(A,C,R)



Makes hand-cycles with a large variety of different designs meant to cater to the needs of the rider. These tricycles can be used by children as well as adults.

72 College Street, Warwick, RI 02886

Phone: 1-888-4bikeon (424-5366) or 1-401-821-7544

Website: <http://www.bike-on.com>

E-mail: [info@bike-on.com](mailto:info@bike-on.com)

Blue Sky Carts  
(A,C,BT)



Manufacturer of a "special needs trailer" to be attached to the rear of an adult bicycle. Weight Capacity – 200 lbs. Various accessories such as a canopy kit are available.

1614 Southside Road, Sutherlin, OR 97479

Phone: 1-541-459-2978

Website: <http://blueskycyclecarts.com>

E-mail: [sales@blueskycyclecarts.com](mailto:sales@blueskycyclecarts.com)

Consumer Care  
Products Inc.  
(C,U)



It is important to  
wear a properly  
fitted helmet for  
every ride

**A catalog based company manufacturing pediatric hand and foot  
powered trikes and a do-it-yourself upper trunk support kit and belt.**  
**W282 N7109 Main Street, Merton, WI 53056**  
**Phone: 1-262-820-2300**  
**Fax: 1-800-977-2256**  
**Website: <http://www.consumercarellc.com>**  
**E-mail: [CCPI@consumercarellc.com](mailto:CCPI@consumercarellc.com)**

CycleTote Corp  
(C,BT)



Manufactures a special needs trailer / stroller that can fit an occupant up  
to 5'4" in height and 170 lbs. This product can accommodate multiple  
seating systems such as a panda or tumble form feeder / carrier seat.  
Various accessories are available.  
517 Link Lane, Ft. Collins, CO 80524  
Phone: 1-800-747-2407  
Fax: 1-970-530-0232  
Website: [www.cycletote.com](http://www.cycletote.com)  
E-mail: [cycletote@cycletote.com](mailto:cycletote@cycletote.com)

The Dragonfly  
Toy Co.  
(C,A,P,U)

Manufacturer of pediatric and adult prone / upright and hand / foot driven  
tricycles.  
291 Yale Ave.  
Winnipeg, MB, Canada R3M OL4  
Phone: 1-800-308-2208  
Fax: 1-204-453-2320  
Website: [www.dragonflytoys.com](http://www.dragonflytoys.com)  
Email: [sales@df toys.com](mailto:sales@df toys.com)

Equipment Shop  
(C,U)



Manufactures adapted tricycles for young children and accessories  
including upright handlebars, back support, pommel, and foot pedal  
attachments for do-it-yourself adaptations.  
Box 33, Bedford, MA 01730  
Phone: 1-800-525-7681  
Fax: 1-800-793-7922  
Website: <http://www.equipmentshop.com>  
E-mail: [info@equipmentshop.com](mailto:info@equipmentshop.com)

Flaghouse  
(C,A,U,P,R,T)



A catalog based company carrying more than 25 different hand and foot  
powered tricycles and accessories for all ages and abilities. To request a  
"special populations" catalog, contact them at:  
601 Flaghouse Drive, Hasbrouck Heights, NJ 07604-3116  
Phone: 1-800-793-7900  
Fax: 1-800-793-7922  
Website: [www.flaghouse.com](http://www.flaghouse.com)  
E-mail: [sales@flaghouse.com](mailto:sales@flaghouse.com)

Freedom  
Concepts Inc.  
(C,A,P,U,R,T)



**Manufactures custom fit, foot powered tricycles for all ages. Various accessories such as a chest harness and Velcro foot straps are available for purchase.**

**Canada: PO Box 45117, RPO Regent, Winnipeg, Manitoba, Canada-R2C 57C**

**US: 3651 Lindelle Road Suite D239, Las Vegas, NV 89103**

**Phone: 1-800-661-9915**

**Fax: 1-204-654-1149**

**Website: [www.freedomconcepts.com](http://www.freedomconcepts.com)**

**E-mail: [mobility@freedomconcepts.com](mailto:mobility@freedomconcepts.com)**

The Freedom  
Ryder  
(A,R)



A hand powered bicycle you steer by leaning your body. It combines the fun of cycling and the benefits of an upper-body workout with the sensation of slalom skiing.

Bike International, Ltd.

20589 S.W. Elkhorn Ct., Tualatin, OR 97062

Phone: 1-800-800-5828

Fax: 1-970-221-4308

Website: <http://www.freedomryder.com/>

E-mail: [mikelofgren@freedomryder.com](mailto:mikelofgren@freedomryder.com) or text 1-503-692-1029

Green Speed  
(A,R)



Human powered transportation. Green Speed specializes in recumbent bikes.

US distributor: Jerome Hediger, 330 Cally Ln., Highland, IL 62249

Phone: 1-618-3955

Australia: 69 Mountain Gate Drive, Femtree, Gully VIC 3156

Phone: +613 9758 5541 Fax: +613 9752 4115

Website <http://www.greenspeed.com.au/>

E-mail: [ian@greenspeed.com.au](mailto:ian@greenspeed.com.au)

Handcycles by  
Palmer  
(A,C)

Hand cycles for both adults and children.

PO Box 5707, Endicott, NY 13763

Phone: 1-800-847-1304 or 1-607-754-2957 Fax: 1-607-754-1954

Website: [www.palmerind.com](http://www.palmerind.com)

Email: [palmer@palmerind.com](mailto:palmer@palmerind.com)

Invacare  
(C,A,U,R)



Manufactures upright and recumbent hand cycles for adolescents and adults.

One Invacare Way, PO Box 4028, Elyria, OH

44035-4049

Phone: 1-800-333-6900

Website: [www.invacare.com](http://www.invacare.com)

Lightning  
Handcycles  
(A, R)

Lightweight handcycles.

312 N. 9<sup>th</sup> Street Suite B, Lompoc, CA, 93436-4967

Phone: 1-805-736-0700

Website: [www.lightningbikes.com](http://www.lightningbikes.com)

Email: [information@handcycle.com](mailto:information@handcycle.com)

Mobility &  
Access, Inc.  
(C,A,T)



**Formerly Frank Mobility Systems. Manufacturer of the "Duet", a wheelchair bicycle tandem which is a bicycle that has a wheelchair attached to the front that can be easily removed for wheelchair participation in other activities.**

**1003 International Drive, Oakdale, PA 15071-9223**

**Phone: 1-844-562-8034 (toll free)**

**Fax: 1-724-695-2922**

**Website: [www.mobilityaccess.com](http://www.mobilityaccess.com)**

**E-mail: [duetbike@frankmobility.com](mailto:duetbike@frankmobility.com)**

Palmer Industries  
(A,C)



It is important to wear a properly fitted helmet for every ride

Manufactures handcycles for adults and children. Also has several different options such as foot pedal combination, seats, and a basket to carry things

PO Box 5707 Endicott, NY 13763

Website: <http://palmerind.com>

E-mail: [palmer@palmerind.com](mailto:palmer@palmerind.com)

Power Pumper  
(C,U)



The Power Pumper is made for children ages 5-11. Often used for rehabilitation because it encourages normal movement of upper and lower extremities, it has been found to be helpful for children with Autism, low muscle tone, Spina Bifida, Cerebral Palsy, and developmental disorders as well as many others.

Columbia-Inland Corporation

606 15th St., Oregon City, OR 970045

Phone: 503-657-6676

Website: [www.powerpumper.com](http://www.powerpumper.com)

E-mail: [info@powerpumper.com](mailto:info@powerpumper.com)

Quickie Designs,  
Inc  
(C,A)

Manufactures hand-cycles that are designed for high performance for all ages.

505 West Thomas Road, Phoenix, AZ 85013

Phone: 1-800-236-4215

Website: [www.quickie-wheelchairs.com](http://www.quickie-wheelchairs.com)

Rifton Tricycles  
(C,A,U)



Manufactures a foot-powered tricycle in three different sizes for children and adults up to 200 pounds. Additional accessories available for customization.

P.O. Box 260, Rifton, NY 12471-0260

Phone: 1-800-571-8198

Website: [www.rifton.com](http://www.rifton.com)

E-mail: [sales@communityproducts.com](mailto:sales@communityproducts.com)

Spokes 'n Motion  
(A,R)



**Spokes 'n Motion is a specialist in adaptive sports equipment and the promotion of sports equipment for persons with disabilities. They sell both Prashberger and Freedom Ryder handbikes.**

**2535 South Wadsworth Blvd, Lakewood, CO 80227**

**Phone: 1-303-922-0605**

**Fax: 1-303-265-9685**

**Website: <http://www.spokesnmotion.com>**

**E-mail: [info@spokesnmotion.com](mailto:info@spokesnmotion.com)**

Sunrise Medical  
(A,C,R)



Produces a variety of hand cycles for adults and children with all ranges of abilities. They also offer a product to transform your wheel chair into a bike.

2842 N. Business Park Ave, Fresno CA 93727

Phone: 1-800-333-4000

Website: [www.sunrisemedical.com](http://www.sunrisemedical.com)

E-mail: [webmaster@sunmed.com](mailto:webmaster@sunmed.com)

ToniCross  
Tricycles  
(C,A,U)



Manufactures foot powered tricycles for pediatric and adolescent consumers up to 180 pounds.

9435 Waterstone Boulevard, Cincinnati, OH 45249

Phone: 1-877-808-4540

Website: [www.adaptivespecialties.com](http://www.adaptivespecialties.com)

Trailmate  
(C,A,U,R,T)



Manufactures various tricycles for adolescents and adults with unique features such as a step through design and swing away handlebars.

2359 Trailmate Drive, Sarasota, FL 34243

Phone: 1-800-777-1034

Fax: 1-800-477-5141

Website: [www.trailmate.com](http://www.trailmate.com)

E-mail: [info@trailmate.com](mailto:info@trailmate.com)

Triaid  
(C,U)

Manufactures hand and foot powered tricycles for children up to 130 pounds.

PO Box 1364, Cumberland, Maryland 21501-1364

Phone: 1-800-306-6777 Fax: 1-310-759-3525

Website: [www.triaid.com](http://www.triaid.com)

Email: [sales@triaid.com](mailto:sales@triaid.com)

Varna  
Innovation &  
Research  
(A,R)



Designs and manufactures cycles and handcycles.

1635 Queequeg, Gabriola Island, BC VOR 1X5

Phone: 250-247-8379

Website: [www.varnahandcycles.com](http://www.varnahandcycles.com)

Email: [Varna@varnahandcycles.com](mailto:Varna@varnahandcycles.com)

It is important to wear a properly fitted helmet for every ride

Worksman  
Cycles  
(A,U,R)



Offers a full variety of Adult Tricycles, Folding Bikes, Tandems, Cruisers, Middleweight Bicycles and even Dual Rider Tricycles. Even if you cannot balance a 2-wheel bike, there is a Worksman Pleasure cycle right for you.

94-15100th Street, Ozone Park, New York 11416

Phone: 1-888-3wheeleror718-322-2000 Fax: 718-529-4803

Website: [www.worksman.com](http://www.worksman.com)

Email: [cycles@worksman.com](mailto:cycles@worksman.com)

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