

# 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.

### *Types of Adapted Bikes:*

#### **Three wheeled cycles:**

**Foot Driven:** 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 abductor support to help with scissoring of the legs, along with numerous other accessories to aid in proper positioning and safe riding.

**Hand Driven:** 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.

#### **Tandem Options:**



Tandem, 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 to allow for participation in other activities. 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.

#### **Recumbent:**



Places the rider in a reclined seating position. Recumbents are usually foot driven and allow for a more comfortable bike ride. They can also come in short, medium, or long wheel bases in order to adapt to the needs of the rider.

#### **Prone:**



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.

Bicycle Trailer:



This piece of equipment attaches to the back of a standard adult bicycle and is pulled like a trailer. 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".*

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<b>Category Key:</b>	A - Adult	C - Children	T - Tandem
	U - Upright	P - Prone	R - Recumbent
	BT - Bicycle Trailer		

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## **Product Listings**

**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: 336-852-0052 ext. 17

Fax: 1-336-852-6830

Website: [www.ambucs.org](http://www.ambucs.org)

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

318 N. Highway 67, PO Box 1893, Woodland Park, CO. 80866-1893.

Phone: 1-800-793-3038

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

E-mail: [angletech@att.net](mailto:angletech@att.net)

**Bike On**  
(A,C,R)



Makes handcycles 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.

54 Tiffany Road, Coventry, RI 02816

Phone: 1-888-4bikeon (424-5366)

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.

PO Box Y, Sutherlin, OR 97479  
Phone: 1-800-669-1753  
Website: <http://blueskycyclecarts.com>  
E-mail: [sales@blueskycyclecarts.com](mailto:sales@blueskycyclecarts.com)

**Consumer Care Products Inc.**  
(C,U)



A catalog based company manufacturing pediatric hand and foot powered trikes and a do-it-yourself upper trunk support kit and belt.

W222 N5739 Miller Way Sussex, WI 53089  
Phone: 262-820-2300  
Fax: 1-800-977-2256  
Website: <http://www.consumercarellc.com>  
E-mail: [info@consumercarellc.com](mailto:info@consumercarellc.com)

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

**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.

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)

**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)

**Every Kid Mobility**  
(A,C,U)



Manufactures various adapted bicycles and tricycles for all ages and abilities. Also offers a large range of other products for persons with disabilities.

15449 Forest Blvd. N #C, Hugo, MN 55038  
Phone: 651-426-1548  
Website: [www.everykidmobility.com](http://www.everykidmobility.com)  
E-mail: [info@everykidmobility.com](mailto:info@everykidmobility.com)

**Extreme Adaptive Sports**

(C,A)



Works with adaptive equipment for several kinds of sports. They can update or fabricate parts for someone who already has an adaptive bicycle or tricycle.

504 Brett Place, South Plainfield, NJ 07080

Phone# 908-313-5590

Fax# 908-668-1634

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

E-mail: [sitskitom@hotmail.com](mailto:sitskitom@hotmail.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:

P.O Box 109 Hasbrouck Heights, NJ 07604

Phone: 1-800-793-7900

Fax: 1-800-793-7922

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

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

**Frank Mobility Systems**

(C,A,T)



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: 1-724-695-7822

Fax: 1-724-695-2922

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

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

1565 Inkster Blvd.,Winnipeg, Manitoba, Canada-R2x-1R2

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: [steve@freedomryder.com](mailto:steve@freedomryder.com)

**Green Speed**  
(A,R)



Human powered transportation. Green Speed specializes in recumbent bikes.  
330 Cally Ln., Highland, IL 62249  
Phone: 866-314-4323  
website <http://www.greenspeed.com.au/>  
e-mail: [jerome@greenspeed.com.au](mailto:jerome@greenspeed.com.au)

**Haverich Ortho-Sport, Inc.**  
(C,A,U,T)



Manufactures a wide variety of custom fit hand and foot powered bicycles and tricycles for adults and children. Accessories such as a leg and shoulder harness are available.  
160 Emerald St., Keene, NH 03431  
Phone: 1-800-529-9444  
Fax: 1-603-358-0453  
Website: [www.haverich.com](http://www.haverich.com)  
E-mail: [info@haverich.com](mailto:info@haverich.com)

**Invacare**  
(C,A,U,R)



Manufactures upright and recumbent hand cycles for adolescents and adults.  
One Invacare Way, PO Box 4028, Elyria, OH 44036-2125  
Phone: 1-800-597-2117  
Website: [www.invacare.com](http://www.invacare.com)

**Just Two Bikes Inc.**  
(C,A,T,R)



Manufactures tandem and single recumbent tricycles for adolescent and adult use.  
15449 Forest Blvd N #C, Hugo, Minnesota 55038  
Phone: 1-800-499-1548  
Fax: 651-653-9444  
Website: [www.justtwobikes.com](http://www.justtwobikes.com)  
E-mail: [info@justtwobikes.com](mailto:info@justtwobikes.com)

**Mobility Engineering**  
(A,R)



Designs and manufactures adaptive sports equipment and human arm powered vehicles that open up new adventures for persons with disabilities.  
9104 W. Pooler, Pasco, WA 99301  
Phone: 1-509-545-0659  
Website: [www.mobilityeng.com](http://www.mobilityeng.com)  
E-mail: [sales@mobilityeng.com](mailto:sales@mobilityeng.com)

**One-Off Titanium Handcycle**  
(A,R)



Created the first off road hand cycle that can also be ridden on the street. The steering is similar to the downhill racers, and has a crank for propulsion.  
494 Stage Rd., Cummington, MA 01026  
Phone: 413-585-5913  
Website: [www.oneoffhandcycle.com](http://www.oneoffhandcycle.com)  
E-mail: [mike@titaniumarts.com](mailto:mike@titaniumarts.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

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

Fax: 1-607-754-1954

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. 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)

**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

Phone: 1-800-571-8198

Fax: 1-800-336-5948

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.

2226 South Jason St., Denver, CO 80223

Phone: 303-922-0605

Fax: 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.  
7477 East Dry Creek Parkway Longmont, Colorado, 80503

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 many different products for children with disabilities including foot powered tricycles for pediatric and adolescent consumers up to 180 lbs. These trikes have built in support systems depending on the child's needs.

15 SouthSecond Street, Dolgeville, NY 13329

Phone: 1-800-371-2778

Fax: 1-315-429-8862

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

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

**Varna Innovation &  
Research  
(A,R)**



VARNA designs and manufactures a large variety of cycles and handcycles. These handcycles allow the rider to "set speed records." There are several different designs made for different needs.

1635 Queequeg Gabriela Island, BC

Phone: 250-247-8379

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

E-mail [Varna@varnahandcycles.com](mailto:Varna@varnahandcycles.com)

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

**Worksmen Cycles  
(A,U,R)**



Offers a full variety of Adult Tricycles, Folding Bikes, Tandems, Cruisers, Middleweight Bicycles and Dual Rider Tricycles.

94-15 100th Street

Ozone Park, New York 11416

Phone: 1-888-3wheeler

Fax: 718-529-4803

website: <http://www.worksmen.com>

E-mail: [cycles@worksmen.com](mailto:cycles@worksmen.com)

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*This listing may not be all-inclusive and is provided for informational purposes only. It is not intended as product endorsement. Last updated September 2008*