“No batteries. No motors!
With these geared wheels,
I’m independent again.”

Wendy Walker, user since 2007
C-6 complete, 4 years post injury

NEW!
Medicare approved
HCPCS Code E2227

2006 WINNER
Medtrade
Innovation Award

2007 WINNER
Silver IDEA Award

2006 WINNER
CSMC
New Product Design

MAGICWHEELS®
2-GEAR MANUAL WHEELS

0213C
**Hill holding**

Automatic hill holding prevents the wheelchair from rolling backwards. Ascend hills and ramps at your own speed or stop and rest if needed, eliminating the need for assistance.

**Over 55% less shoulder pain means greater mobility**

An independent government-funded clinical study showed a dramatic reduction in pain in the first week, which continued to decline throughout the 20-week study.¹

**Downhill control**

In low gear, stopping is easier because only half the force is needed. You experience a more controlled descent.

“Any sufficiently advanced technology is indistinguishable from magic.” — Arthur C. Clarke

The magic behind MAGICWHEELS® 2-gear wheels is its patented hypocycloidal reduction drive — a unique gear mechanism which acts much like low gear on a bicycle. By engaging the 2:1 gear the user exerts half as much effort to negotiate the same grade. The gear also gives more downhill braking control and automatic hill-holding.

**SPECIFICATIONS:**

**Available in 24” and 25” wheels**

**Tire sizes:** Tread sizes 1”, 1 3/8”, 2” knobby, 1 3/8” solid foam insert, or 1” SHOX tires. All tires available in 540 and 559.

**Gear ratios:** 1:1 high gear and 2:1 low gear

**Added Weight:** Approximately 10 lbs.

**Wheel:** Carbon fiber composite dish shaped about 3/8” thick

**Handrims:** Thin wall high strength aluminum hard anodized, vinyl coated, or foam; 21” or 16” O.D.; tubing 3/4” or 1” O.D.; 4-speed dual handrims optional; Natural-Fit™ handrims available; handrim spoke kits available.

**Maximum user weight:** 250 lb. (112 kg.)

**Maximum camber:** 6°

**Maintenance:** None. Sealed gear box factory serviced only

**Axles:** Quick release standard. Bolt on available

**Chassis adaptor:** Fits most manual wheelchairs. Call with your make and model.

**Warranty:** 5 year limited

**FEATURES:**

- No batteries or motors
- Significantly easier to climb hills
- Automatic hill-holding with seamless override
- More downhill braking control
- Easy shifting
- No added width with standard handrim
- Compatible with many aftermarket handrims
- Compatible with most manual wheelchairs
- High performance 4-speed dual handrims available

**Independence is priceless**

As you would imagine, technology this advanced costs considerably more than conventional wheels. However, when the expense is weighed against restrictions to lifestyle, the costs of therapy or surgery as a result of shoulder pain, or a move to a power wheelchair, MAGICWHEELS® becomes the most affordable, long-term solution.
The only wheel that provides a proven health benefit and easier mobility.

A recent report sponsored by the Paralyzed Veterans of America showed that shoulder pain related to wheelchair use has a detrimental effect on quality of life: mobility is hampered and users give up their usual activities. However, a 2006 study sponsored by the National Institutes of Health brings good news. MAGICWHEELS® were shown to reduce shoulder pain by an average of fifty-five percent in all participants1.

In addition, MAGICWHEELS® reduces by half the effort needed to climb or descend, so users enjoy a fundamental improvement in their quality of life. Many are able to resume activities they thought they had left behind forever and are able to go places that were once inaccessible without assistance. Some MAGICWHEELS® users even avoid transition to power chairs. With no batteries or motors, all the driving power comes from you. Maintain fitness and muscle tone as you move about with newfound freedom.

Living the magic

Wendy Walker, user since 2007
C-6 complete, 4 years post injury
Medicare paid for my wheels and I’m getting stronger every day.

Carlos Nuñez, user since 2006
C6-7 complete, 22 years post injury
I’ve been waiting 22 years for these wheels.

Jasmin Milak, user since 2005
L1-2 paraparesis, 13 years post injury
I feel free again!

Michaela, age 11
Cerebral palsey
With the magic gears the Genie comes out of the lamp and it is much easier to get where Sierra and I need to go.

Visit MagicWheels.com or call 866 MAGICWheels (866 624-4294)
Magic Wheels are the invention that will provide opportunities for manual wheelchair users to go beyond their normal limits.

- Tammy Wilbur

The solution

Switching into 2:1 drive allows you to climb any grade using half the effort required when using conventional wheels. With the automatic hill holding feature, you can climb the grade at your own pace.

“Nine out of ten subjects reported a continuous decrease in shoulder pain during the initial four months”*

- Go more places
- Do more things
- Reduce arm strain

The problem

Climbing grades can be difficult for most… and impossible for some. Users routinely suffer from shoulder and arm pain.

“Magic Wheels are the invention that will provide opportunities for manual wheelchair users to go beyond their normal limits.”

– Tammy Wilbur

The innovation behind the MAGICWHEELS™ technology is the hypocycloidal reduction drive—a patented gear mechanism which creates unique loading and friction characteristics. Engaging the 2:1 gear acts much like low gear on a bicycle; the rider exerts half as much effort to negotiate the same grade. The mechanism also offers more downhill braking control and automatic hill-holding (with seamless override). On hills, individuals can stop to rest, answer their phone, or just enjoy the view.

**Important Features:**

- *No batteries* or motors
- Significantly easier to climb hills
- Automatic hill-holding with seamless override
- More downhill braking control
- No added width with standard handrim
- Easy shifting
- Compatible with many aftermarket handrim
- Compatible with most wheelchairs
- High performance 4-speed dual handrim available

**Specifications:**

<table>
<thead>
<tr>
<th>Tire sizes: Standard 24” x 1 3/8” (37–540 mm) gray. Also fits 24” x 1” (25–540 mm); 24” x 1 1/2” (40–540 mm); 24” x 2” (50–540 mm); other 540 mm</th>
</tr>
</thead>
<tbody>
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<td><strong>Maximum camber:</strong> 10°</td>
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<td><strong>Maintenance:</strong> None. Sealed gear box factory serviced only</td>
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<tr>
<td><strong>Axles:</strong> Quick release standard. Bolt on available</td>
</tr>
<tr>
<td><strong>Chassis adapter:</strong> One included with each pair, if required</td>
</tr>
<tr>
<td><strong>Warranty:</strong> 5 year limited</td>
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Contact your dealer for a test drive

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1866-624-4294
1866-MagicWheels

MAGICWHEELS™
2-GEAR WHEELCHAIR DRIVE

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