



MAGICWHEELS™

HALF THE EFFORT – TWICE THE CLIMB!

The first ever 2-gear wheelchair drive

“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.

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.

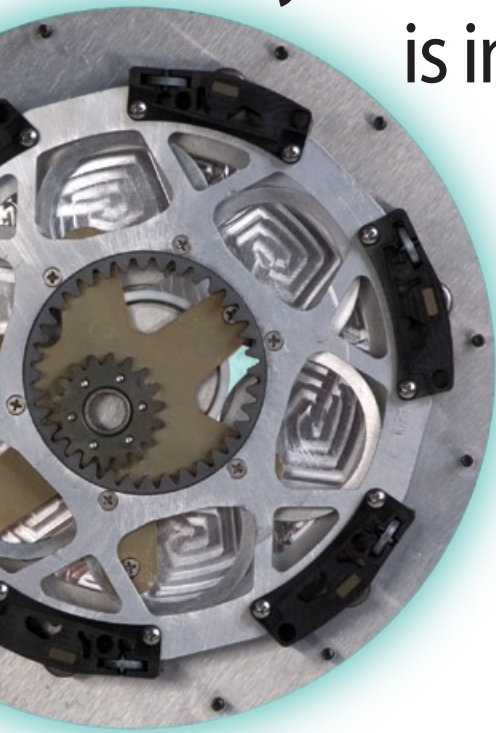


“ Magic Wheels are the invention that will provide opportunities for manual wheelchair users to go beyond their normal limits. ”

—Tammy Wilbur

*Effect of two-speed manual wheelchair wheel on shoulder pain in wheelchair users: Preliminary findings. Gordes KL, Finley MA, Meginniss S, Rodgers MM; Poster & Proceedings of 22nd International Seating Symposium, Vancouver, B.C. - March 1-4, 2006.

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



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.



*Easily shifted with palm of hand:
1:1 gear for flat surfaces;
2:1 gear with hill-holding for inclines.*

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 handrims
- Compatible with most wheelchairs
- High performance 4-speed dual handrims available

SPECIFICATIONS:

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

Gear ratios: 1:1 high gear and 2:1 lower gear

Added Weight: Approximately 10 lbs.

Wheel: Carbon fiber composite dish shaped about 1/4" thick

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

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

Maximum camber: 10°

Maintenance: None. Sealed gear box factory serviced only

Axles: Quick release standard. Bolt on available

Chassis adapter: One included with each pair, if required

Warranty: 5 year limited

*2-gear wheels with higher performance
16" x 1" vinyl handrims on Quickie
GT Titanium wheelchair.*



Contact your dealer for a test drive



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1 866-MagicWheels

MAGICWHEELS™
2-GEAR WHEELCHAIR DRIVE

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