

Wheelchairs powered by

**SOFTWHEEL**





## The Wheel

Has been around since the dawn of time and hasn't changed much

**...or maybe it did?**



**SOFTWHEEL**

The wheel + Adaptive Suspension:

**Reimagined. Reinvented.**

**Revamped.**

# Why do wheelchairs need good suspension?

01

## Health

Reduction in back and neck pains. Improves blood circulation.

02

## Safety

Our smart suspension technology keeps the arms rigid on flat terrain, but when encountering obstacles, they move to absorb the shock.

03

## Comfort

Wheels absorb shock and vibration on any terrain, providing maximum cushioning when needed

In the past 200 years there have been many attempts to create better suspension

SoftWheel has transformed wheelchair suspension

**placing it directly  
within the wheel**



Prototype



Final product

## Our patented adaptive in-wheel selective and symmetric suspension technology

Our unique technology kicks into action only when the wheelchair encounters an obstacle, maintaining its rigidity. The shock absorbers return to the center swiftly after passing obstacles..



In-wheel  
Suspension™



Adaptive  
Rigidity™



Rapid Shock-  
Reset™



360° Degrees  
Suspension™



Softwheel absorbs

# 50% of the initial impact

Comparison of SoftWheel to other standard premium wheels

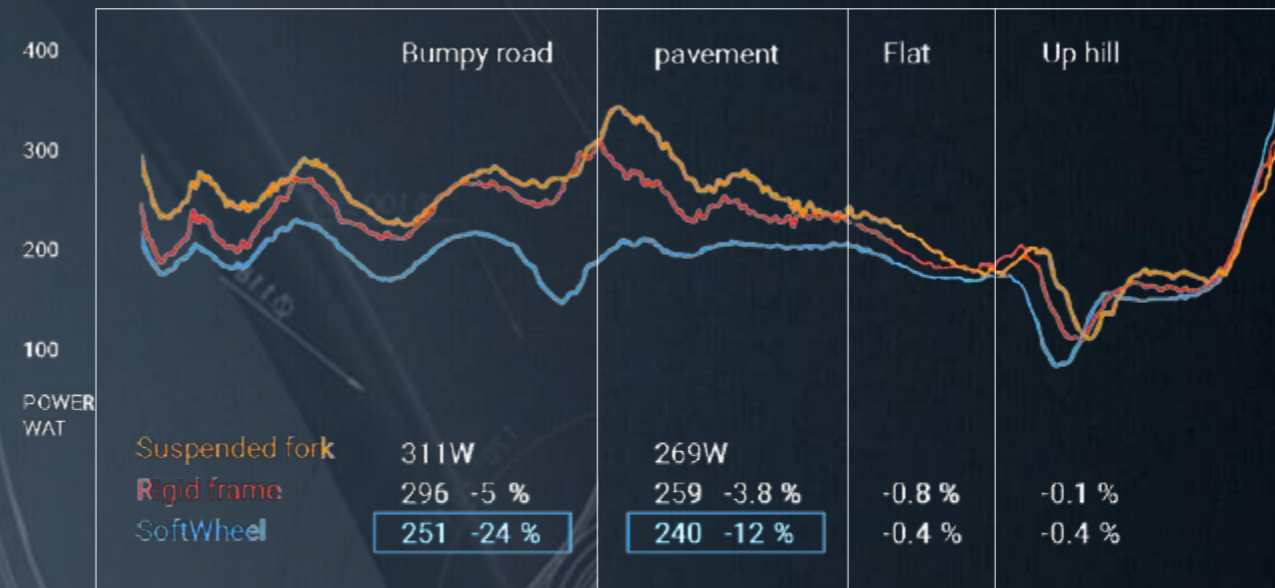
- Shorter energy absorption cycle
- Nearly-complete elimination of tire's pneumatic resonance



# ...and its energy efficient

Comparison of power expenditure over a set track

16%-25% more energy efficient



	Total
Suspended fork	309W
Rigid frame	293 -5.2 %
SoftWheel	266 -16.4 %

# Our users say it has changed their lives



**Wayne T Rostron – A former soldier  
in Her Majesty's Armed Forces, UK**

"This film clip may seem like an ordinary film but you will be surprised to learn I am going over very rough pathway up on the moors in Lancashire England. What is remarkable is that I have broken vertebrae and was able to travel two miles on very rough terrain all because Softwheel took all the impact.

It means I can join my son & his family in their favorite pastime of walking the moorland in Great Britain. There is absolutely no way It can be done on ordinary wheels. It is important for those with serious spine injuries to watch my head & neck (which is fused), to do 2 miles plus on that terrain is life changing.

Sincerely Wayne T Rostron"





### **Becky, an assisted wheelchair user**

"Now we have SoftWheels. They are unbelievably great. We went over brickwork, cobblestones, broken sidewalks and door jams. It was really, really amazing. The comfort for Becky is so much better. Becky said that she never wants to use regular wheels anymore. A thousand THANKS for the wheels. We have no words for this. We are soooooo happy!!!  
Best regards and again a thousand THANK YOUs for the wheels.

Becky and Tobi  
Germany"

### **An orthopedic surgeon**

"I am an inpatient at CRAIG hospital in Denver, Colorado. I was able to try a pair of your wheels while here at the rehab hospital...as an orthopedic surgeon I find them to be a great addition to my recovery. If you ever want an official statement from an orthopedic sports medicine surgeon and SCI patient please let me know. Thank you. XXXX"



# SoftWheel is certified



ISO 9001

CE Certificate

FDA - Class 1



# and patented

- ✓ Rotatable damper
- ✓ Selective wheel suspension system
- ✓ Wheel with suspension system
- ✓ Design patent - Wheel
- ✓ Trademark SoftWheel brand name
- ↻ In-Wheel Suspension for motorized vehicles
- ↻ Landing gear with in-wheel suspension





Go Further  
& Do More

# SoftWheel Weight Categories

\* For special weight categories please contact us

Stage	Weight (Kg)	Weight (Lb)
1	<45	<99
2	46-59	101-130
3	60-72	131-158
4	73-84	159-185
5	85-99	186-218
6	100-130	219-290

## Acrobat A

**Size:** 24" & 25"

**Suspension:** Adaptive IN-Wheel suspension system

**Hub:** AL 6061 T6; high precision CNC

**Rim:** AL 6061 T6; proprietary triple-walled design

**Load Limit:** 130 Kg | **Weight:** 2200 gr

**Drum Brake:** Optional



## Acrobat M

**Size:** 24" & 25"

**Suspension:** Adaptive IN-Wheel suspension system

**Hub:** AL 6061 T6; high precision CNC

**Rim:** Pure magnesium (97.5%) proprietary triple-walled design

**Load Limit:** 110 Kg | **Weight:** 1850 gr

**Drum Brake:** Optional



## Acrobat C

**Size:** 24" & 25"

**Suspension:** Adaptive IN-Wheel suspension system

**Hub:** Carbon - High modulus fiber

**Rim:** Carbon - High modulus fiber

**Load Limit:** 120 Kg | **Weight:** 1600 gr



**SOFTWHEEL**

Wheel Reinvented

[www.softwheel.technology](http://www.softwheel.technology)

You can find us on:

