Wheelchairs powered by

SOFTWHEEL

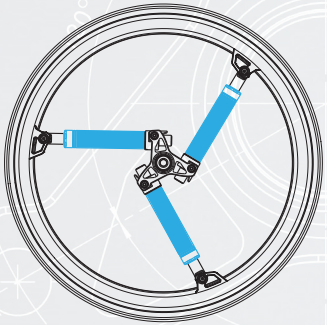
Introducing the NEW

SOFTWHEEL 3


SoftWheel's innovative
in-wheel suspension technology
can help reduce pain and
provide a more comfortable ride
SOFTWHEEL

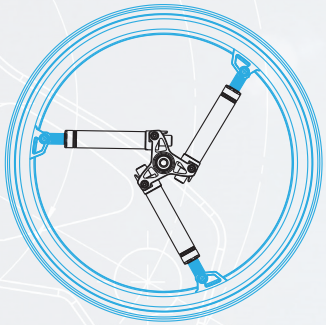
For more info visit www.softwheel.technology

Patented In-Wheel Suspension System



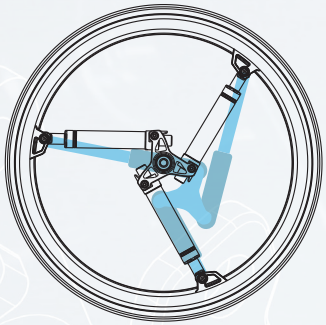
In-Wheel Suspension

3 suspension arms are built inside the wheel and compress to absorb shocks



Rigid Rim

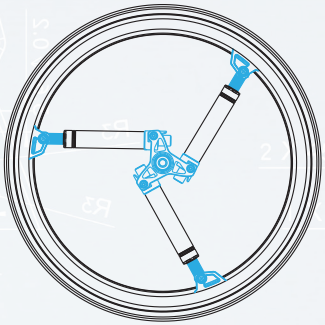
Wheel rim is always rigid & strong, while the suspension arms & hub compress to provide shock absorption



Automatic Actuation

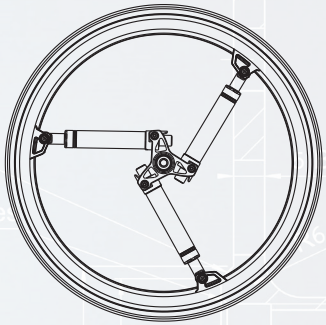
Suspension arms automatically compress when encountering an obstacle or rough terrain, and remain rigid & strong over flat surfaces

SOFTWHEEL



360° Suspension

Arms are set equidistant around a central hub to provide shock absorption - no matter the angle of impact



Rapid Shock Reset

Suspension arms immediately reset and return the wheelchair – and rider, to a level ride

For more info visit www.softwheel.technology

SoftWheel Features

SOFTWHEEL

#01

Dual system suspension with high & low frequencies

#02

Silent mechanism

#03

Quick axle release

#04

IP55: protected from dust & water

#05

Slim rim with lighter design

#07

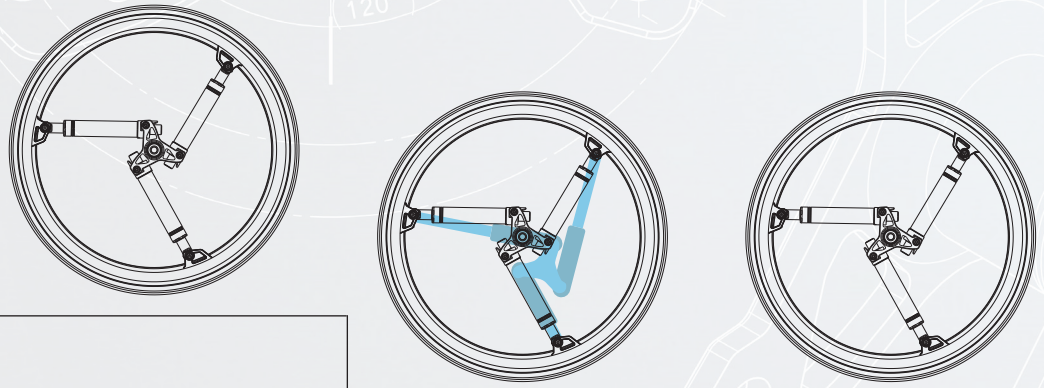
Anodized aerospace aluminum

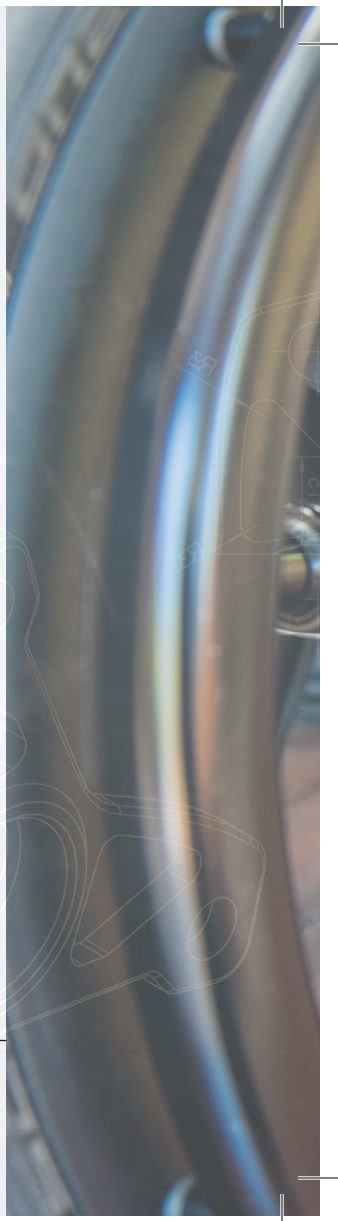
For more info visit www.softwheel.technology

Shock Absorption That Actuates Only When You Need It

The wheel rim always remains rigid, while the suspension arms & hub shift to provide shock absorption only when needed – when encountering an obstacle or rough terrain.

This leads to a smoother, more efficient ride over all types of terrain.

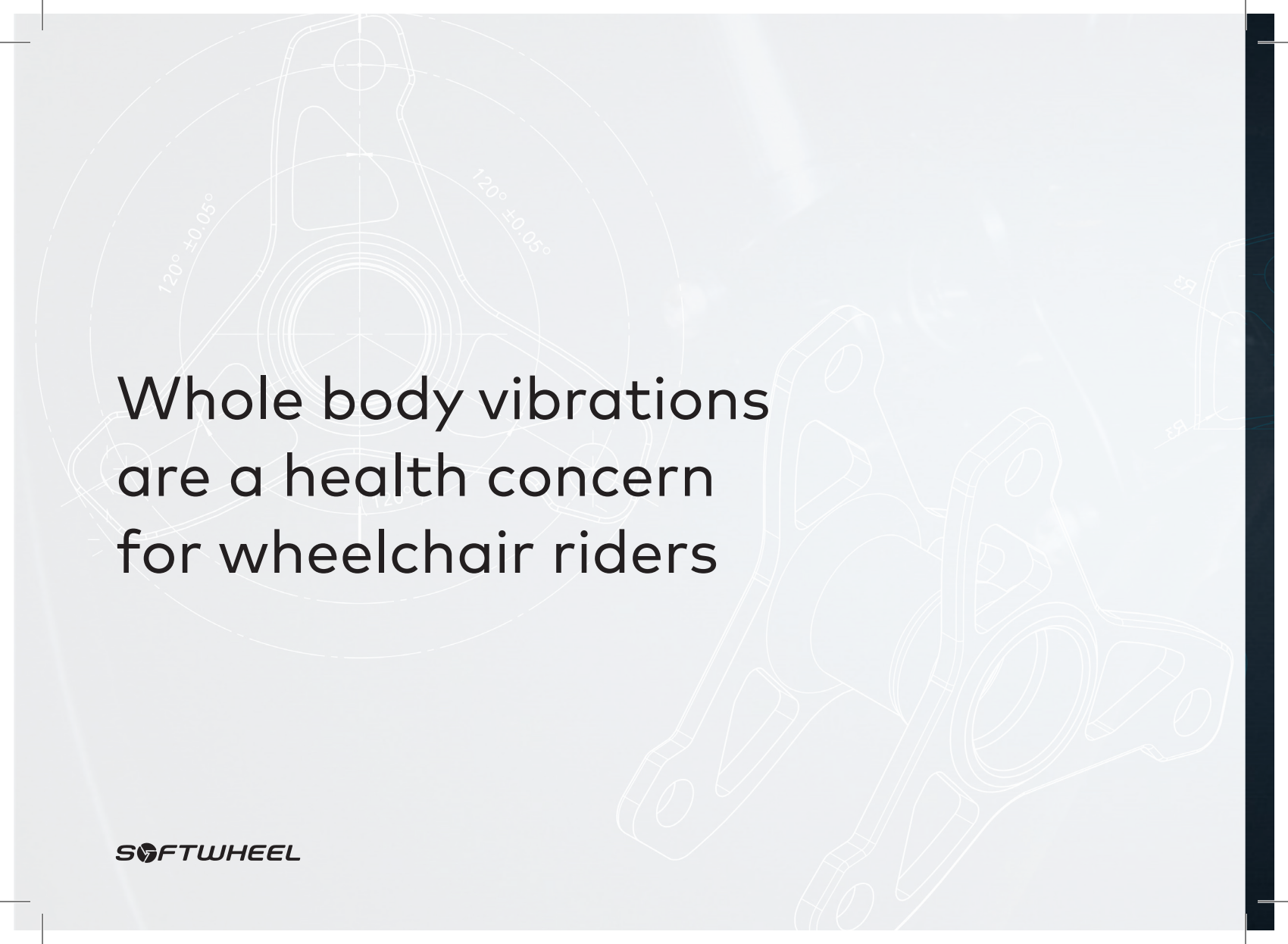




SOFTWHEEL

For more info visit www.softwheel.technology

Whole body vibrations are a health concern for wheelchair riders



SOFTWHEEL

01

Long-term exposure to vibrations has been demonstrated to have a negative impact on people's **health & comfort**

02

Clinical studies have shown that wheelchair riders are **exposed to vibrations** that **exceed the recommended exposure limits**

03

Health risks associated with vibrations for wheelchair riders include **lower back pain**, effects on the **spine**, and muscle **fatigue**

References:

"Health risks of vibration exposure to wheelchair users in the community," Garcia-Mendez Y, Pearlman J, Boninger ML, Cooper RA; *The Journal of Spinal Cord Medicine* 2013 Jul; 36(4):365-375

"Analysis of vibrations induced during wheelchair propulsion," VanSickle DP, Cooper RA, Boninger ML, DiGiovine CP; *Journal of Rehabilitation Research and Development* 2001 Jul-Aug; 38 (4):409-421

For more info visit www.softwheel.technology

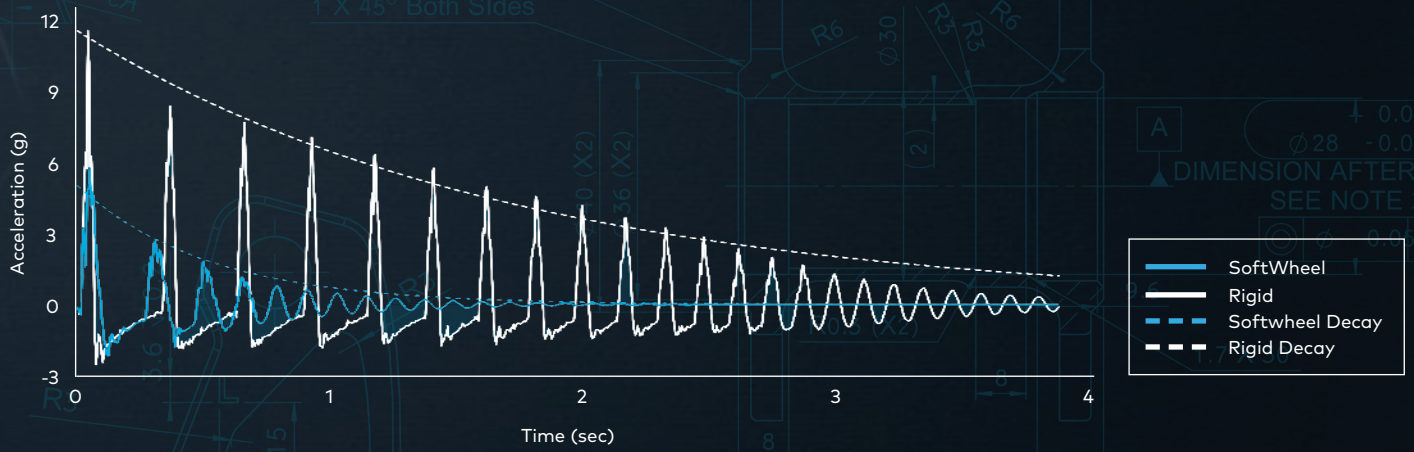
SoftWheel Reduces Vibrations

SOFTWHEEL

The innovative suspension & damping technology disperses the impact energy, thereby shortening the **impact duration** and **shock magnitude** transferred to the rider

Fewer vibrations are therefore transmitted to the rider, leading to a smoother, more comfortable ride

SoftWheels are more **energy efficient**, helping to maintain forward momentum, which can reduce fatigue



Drop Test from 15 cm (standard curb height)
SoftWheel vs. Standard Rigid Wheel: Acceleration Over Time

For more info visit www.softwheel.technology


Why do wheelchair
riders need suspension?
SOFTWHEEL

HEALTH

Can help reduce **back & neck pain**, and decrease **fatigue** at the end of the day

SAFETY

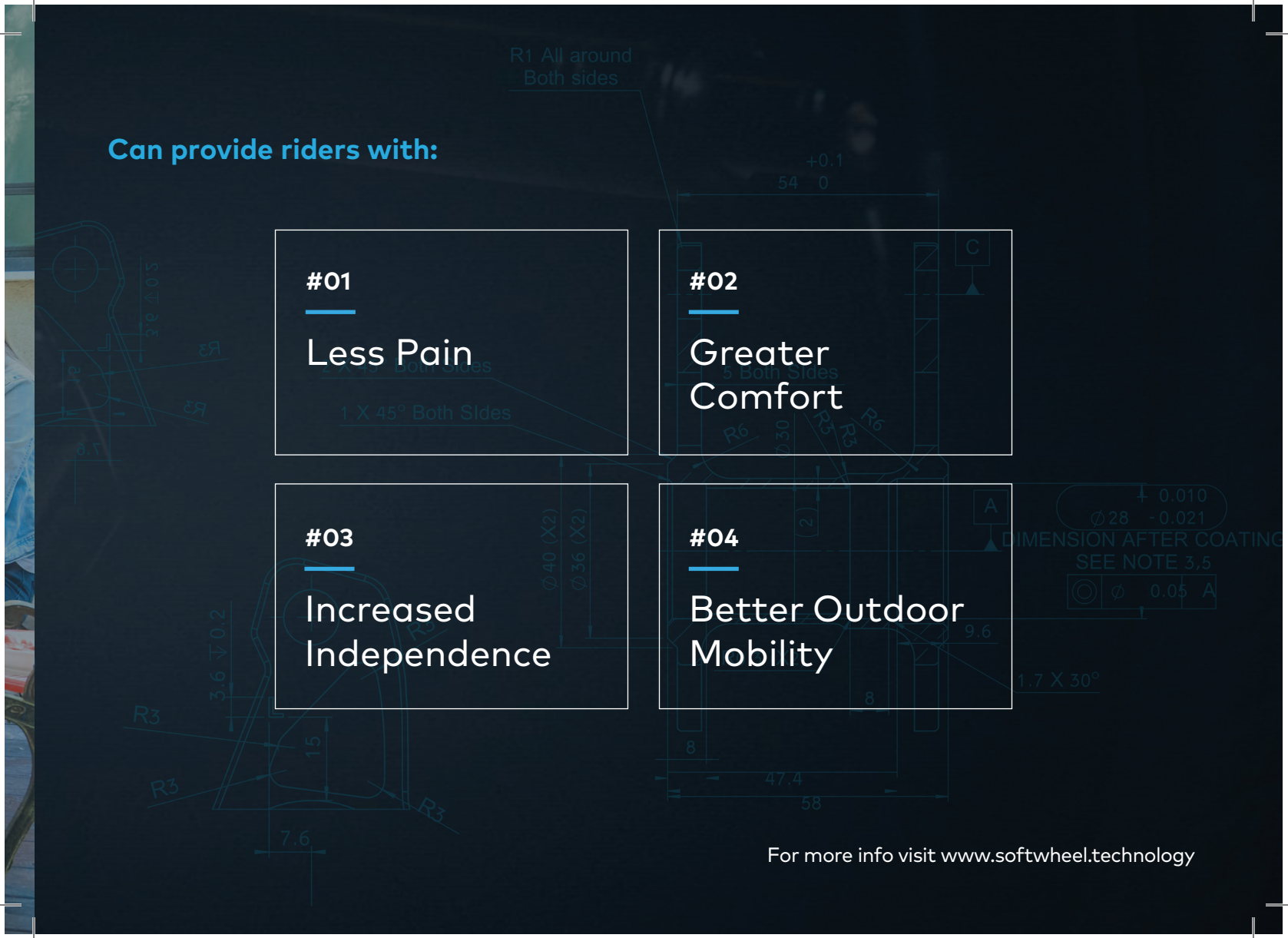
Keeps the rider **steady** while going over bumps and remains **stable & rigid** over flat terrain

COMFORT

Absorbs shock & vibrations on all types of terrain, providing **maximum cushioning**

For more info visit www.softwheel.technology


SoftWheel meets the daily needs of wheelchair riders
SOFTWHEEL



Can provide riders with:

#01

Less Pain

#02

Greater Comfort

#03

Increased Independence

#04

Better Outdoor Mobility

For more info visit www.softwheel.technology

Clinical research shows SoftWheel helps improve **health, safety, and comfort**

SOFTWHEEL

"In general, I hardly felt vibrations while riding"

"I feel very secure while riding the wheelchair"

"I feel it was easy & comfortable to propel on uneven terrain"

Source: Clinical Trial 2017, Emek Medical Center

For more info visit www.softwheel.technology


Softwheel makes a real
difference in people's lives
SOFTWHEEL

"I had **immediate relief from lower back pain** after switching to SoftWheels"

Kimberly

"For me, **SoftWheels are freedom**"

David

"Since I've started using SoftWheels, **I don't feel any pain**"

Nataly

For more info visit www.softwheel.technology

Review my Wheelchair

9.5
AMAZING

"A Significant Ride Improvement"

"Soft-roading is a breeze, moving over rougher ground without any significant sudden jolts...

It reduces the impact transferred from frame to spine...

SoftWheels offer a working professional a significant ride improvement."

Review My Wheelchair
April 2018

SOFTWHEEL

"A Softer Ride"

"A pretty impressive feat of engineering...

the ride did become noticeably softer. All the bumps, cracks and drops on my daily pushing routes were noticeable smoothed...

By switching wheels, my chair felt like it had built-in suspension."

New Mobility
November 2018

For more info visit www.softwheel.technology

Certifications

MHRA

The information you provided has been recorded against the reference number shown at the top of this letter, which we ask you to quote in all future correspondence and communications.

Please inform us of any changes to:

- the company information
- additional generic groups of devices (not individual products within an existing generic group)
- discontinuation of a generic group of devices.

Please use RG2, the Registration form, to tell us about any of these changes.

Thank you for registering the following generic groups of devices:

Class I Devices:
Wheelchairs (Non-Powered) And Accessories

Custom Made Devices:
None

Products Covered By Article 12:
None

Confidentiality

Please note that in accordance with Directive 2007/47/EC as of 21st March 2010 information on the registration of persons responsible for placing devices on the market will no longer be treated as confidential and the Competent Authority will provide third parties with information on the name and address of manufacturers and authorised representatives and their devices that have been registered. However the names of individuals, their telephone numbers and email addresses will remain confidential unless you have chosen to trade using personal details. This change only applies to medical devices and does not affect In Vitro Diagnostic devices registration, which remain confidentiality under Article 19 of the In Vitro Diagnostic Directive 98/79/EC.

If your company name or that of a manufacturer that you represent is based on an individual's personal name it will be published unless you inform the MHRA that you would like the company name to remain confidential.

Likewise, if your company address or that of a manufacturer that you represent is the personal home address of an individual it will be published unless you inform the MHRA that you would like the company address to remain confidential.

Should you have any queries regarding your registration, please do not hesitate to contact us.

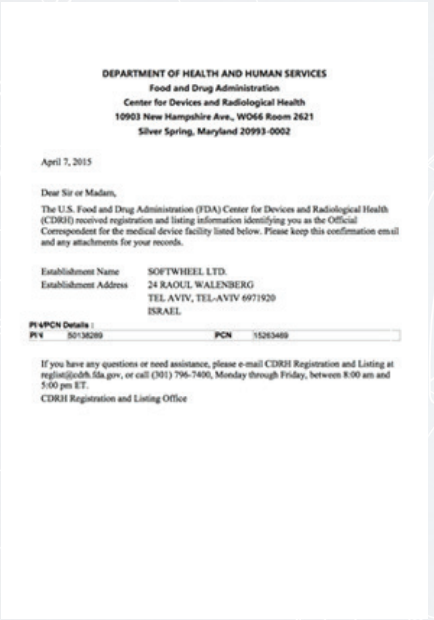
Yours sincerely

Sean Williams
Regulatory Affairs Officer

Tel: 0203 080 7325
Email: sean.williams@mhra.gsi.gov.uk

ConRep Vers 2 Sept 2008

CE Certificate



DEPARTMENT OF HEALTH AND HUMAN SERVICES
Food and Drug Administration
Center for Devices and Radiological Health
10903 New Hampshire Ave., WO66 Room 2621
Silver Spring, Maryland 20993-0002

April 7, 2015

Dear Sir or Madam,

The U.S. Food and Drug Administration (FDA) Center for Devices and Radiological Health (CDRH) received registration and listing information identifying you as the Official Correspondent for the medical device facility listed below. Please keep this confirmation email and any attachments for your records.

Establishment Name	SOFTWHEEL LTD.
Establishment Address	24 RAOUL WALENBERG TEL AVIV, TEL-AVIV 6971920 ISRAEL

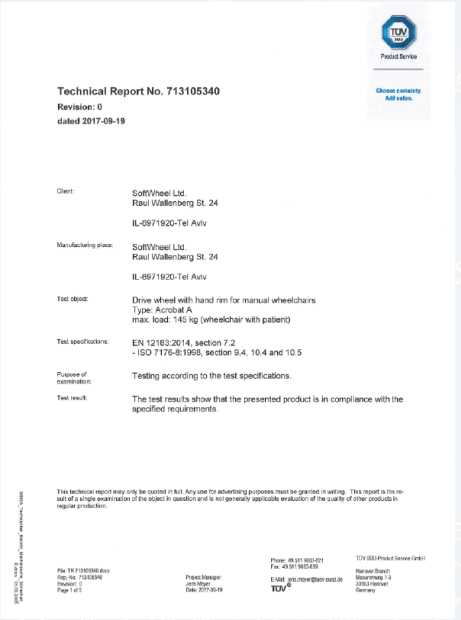
PI+PCN Details :

PI	50138289	**PCN**	15263469

If you have any questions or need assistance, please e-mail CDRH Registration and Listing at reglist@cdrh.fda.gov, or call (301) 796-7400, Monday through Friday, between 8:00 am and 5:00 pm ET.

CDRH Registration and Listing Office

FDA – Class 1



TÜV
Product Service

Choose certainty.
Add value.

Technical Report No. 713105340
Revision: 0
dated 2017-09-19

Client:	SoftWheel Ltd. Raul Wallenberg St. 24 IL-6971920-Tel Aviv
Manufacturing place:	SoftWheel Ltd. Raul Wallenberg St. 24 IL-6971920-Tel Aviv
Test object:	Drive wheel with hand rim for manual wheelchairs Type: Acrobat A max. load: 140 kg (wheelchair with patient)
Test specifications:	EN 12183:2014, section 7.2 - ISO 7176-8:1998, section 9.4, 10.4 and 10.5
Purpose of examination:	Testing according to the test specifications.
Test result:	The test results show that the presented product is in compliance with the specified requirements.

This technical report may only be quoted in full. Any use for advertising purposes must be granted in writing. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production.

File: TR 713105340.docx
Rep.-No: 713105340
Revision: 0
Page 1 of 5

Project Manager:
Jens Meyer
Date: 2017-09-19

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Fax: 49 511 9503-630

E-Mail: jens.meyer@tuev-sued.de

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Ridlerstraße 65, 80339 München, Germany

TÜV SÜD

TÜV SÜD

SOFTWHEEL


QUICKIE
SCHWALBE
SOFTWHEEL
For more info visit www.softwheel.technology

For maximum performance, SoftWheel is available in 4 stages, customized to a rider's weight

Stage	Weight (kg)	Weight (lbs.)
A	up to 50 kg	up to 110 lbs.
B	50 - 70 kg	110 - 155 lbs.
C	70 - 90 kg	155 - 200 lbs.
D	90 - 136 kg	200 - 300 lbs.

SOFTWHEEL

Size: 24″ & 25″
Hub: AL 6061 T6; high precision CNC
Rim: AL 6061 T6
Bearing diameter: U.S. or European standard
Load limit: 136 kg (300 lbs.)
Wheel weight: 1.8 kg (4 lbs.)
Drum Brake: Optional

For more info visit www.softwheel.technology

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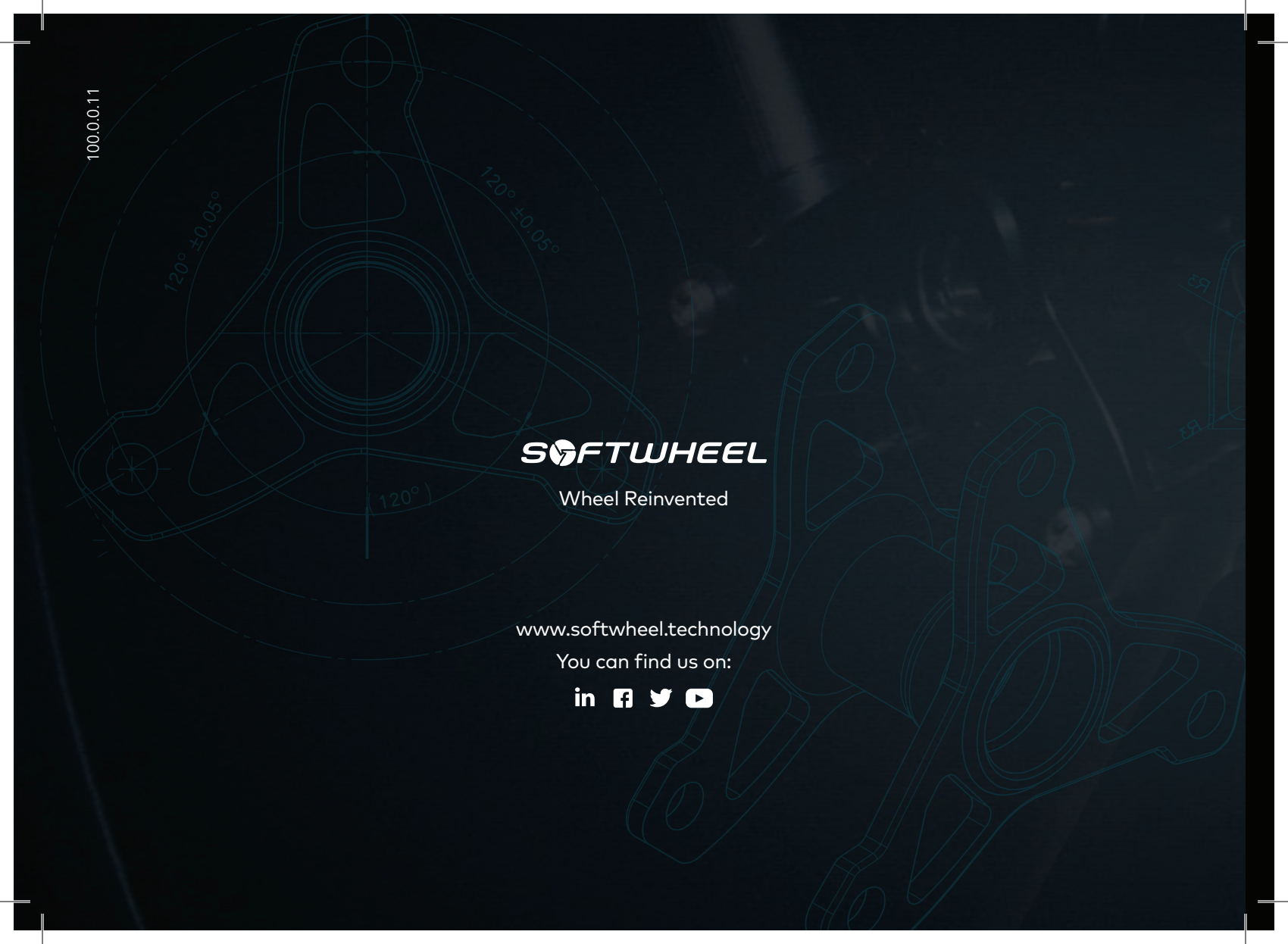

SOFTWHEEL

Wheel Reinvented

www.softwheel.technology

You can find us on: