

PERS CHAINLESS PEDALING SYSTEM

PERS KIT Catalog 2026



**GOOOOO
CHAINLESS!**

Powered by
 CIXI



Welcome to Chainless

A world of possibilities

This catalog provides an overview of the **PERS** technology with various drivetrain configurations. This will help you select the most suitable **PERS KIT** for your application.

Powered by CIXI

VIGOZ

An active vehicle to pedal up to 120 km/h comfortably, safely and intuitively.

Designed & Developed at CIXI.

Discover more: cixi.life/active-vehicle-vigoz



Welcome to the

CIXI Factory



We design and assemble our **PERS** Pedaling System in our 2.800 m² factory in Poisy, Haute-Savoie, thereby contributing to the development of know-how and expertise in France and Europe.

PERS CHAINLESS PEDALING SYSTEM



NO GEAR SHIFTING – MAINTENANCE FREE – REGEN BRAKING – REVERSE MOTION – ANTI-THEFT – CLEAN – SMOOTH PEDALING – CONNECTED

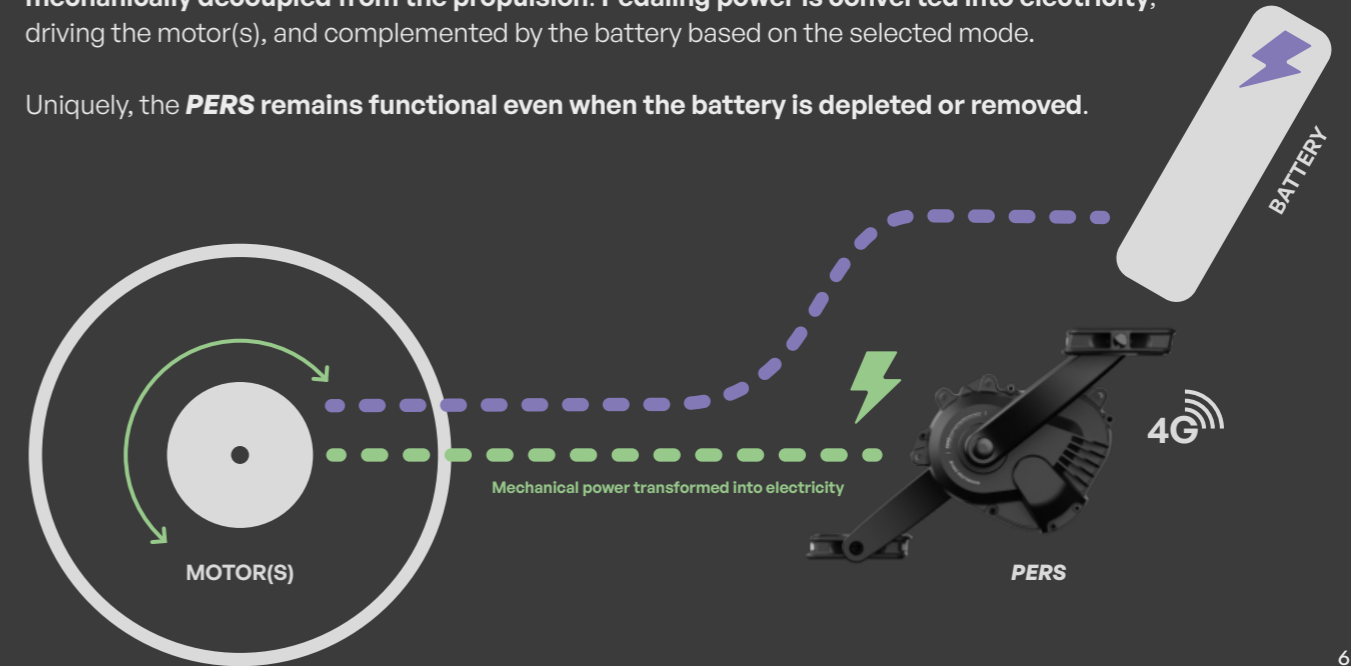


Discover more
cixi.life/pers-technology-pro

Chainless drive: **Serial Hybrid**

In a serial hybrid architecture, the pedal unit (in our case, the **PERS**) is a generator, **mechanically decoupled from the propulsion**. Pedaling power is converted into electricity, driving the motor(s), and complemented by the battery based on the selected mode.

Uniquely, the **PERS** remains functional even when the battery is depleted or removed.



Why Chainless?

LOW TCO (Total Cost of Ownership)
Up to 20% less components to manage and significantly less maintenance compared to mechanical drivetrains.

DESIGN FREEDOM
Save time and gain geometric freedom for vehicle creation and integration.

VERSATILE
Adaptable for different applications, Pedelec, Cargo, Fleets, etc...

SIMPLIFY ASSEMBLY
Save time on critical geometrical adjustments.

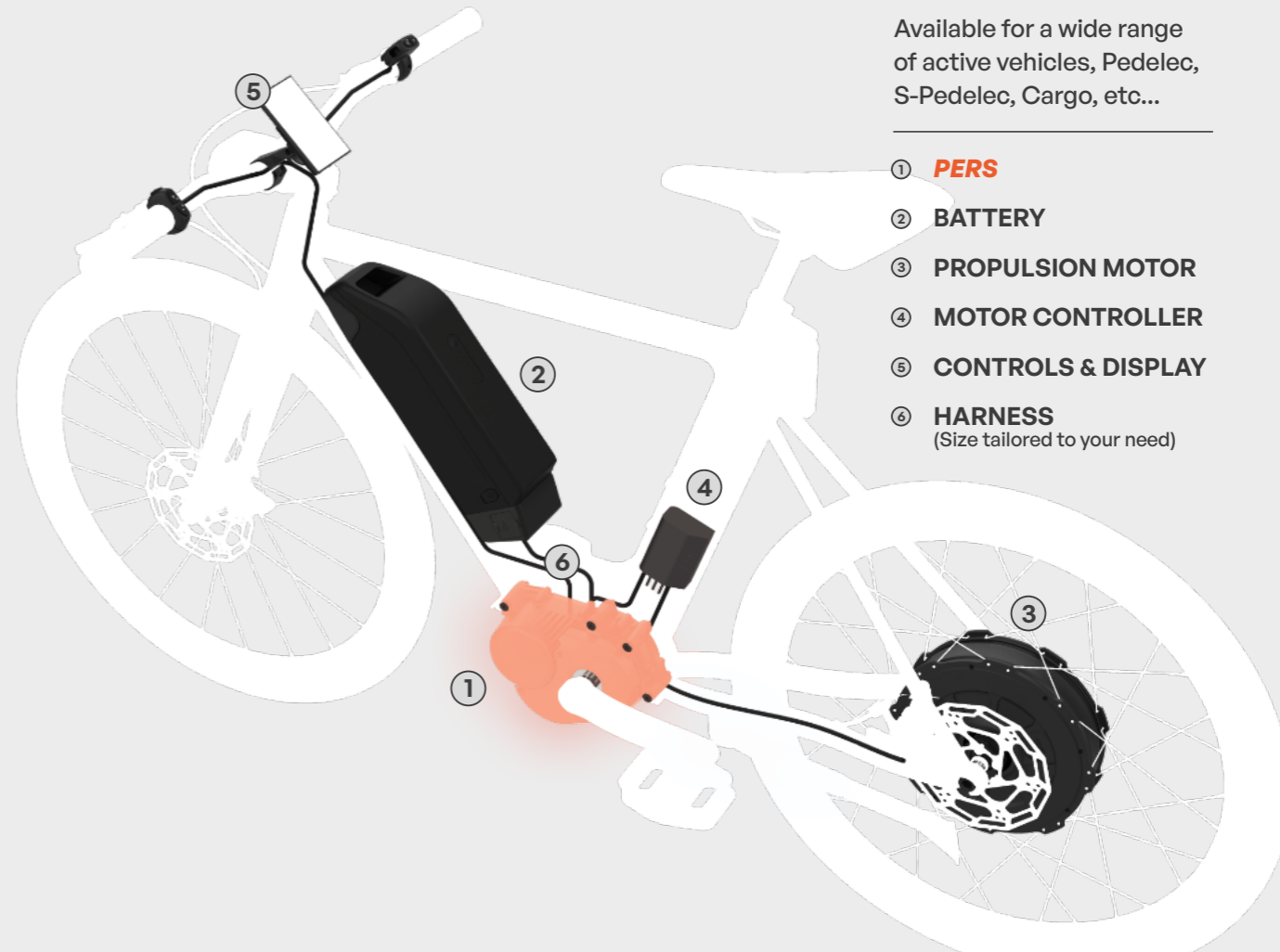
REAL-TIME DATA
Access real-time diagnostics, statistics, and firmware updates over the air.

NATIVELY CONNECTED
Enabling real-time fleet management and monitoring.

PERS KIT, a solution for every professional

What is a **PERS KIT**?

A complete chainless powertrain, including all the necessary components to move and control your active vehicle.




Available for a wide range of active vehicles, Pedelec, S-Pedelec, Cargo, etc...


- ① **PERS**
- ② **BATTERY**
- ③ **PROPULSION MOTOR**
- ④ **MOTOR CONTROLLER**
- ⑤ **CONTROLS & DISPLAY**
- ⑥ **HARNESS**
(Size tailored to your need)

Our Various **PERS** KITS


A single hardware core, multiple configurations.


Certified
 EN 17860 / EN 15194
 L1eb / L1ea / L2e

PERS Standalone




An open and versatile technology that integrates easily with your powertrain.




Your own powertrain components.


WEIGHT (kg)
3,7 (PERS Only)


Certified
 EN 15194

Pedelec Downtube Kit



A simple, versatile drivetrain, perfect for 2-wheel pedelecs, light tricycles, and everyday use.



PERFORMANCE	PERS KIT WEIGHT (kg)	Wheel drive
Torque up to 75 Nm Energy up to 700 Wh	11,7	1


Certified
 EN 15194


Pedelec Intube Kit




A sleek and discreet intube kit that blends seamlessly into 2-wheel pedelecs and light tricycles. Perfect for everyday urban use.




PERFORMANCE	PERS KIT WEIGHT (kg)	Wheel drive
Torque up to 75 Nm Energy up to 710 Wh	12	1


Certified
 EN 15194


Trike Dual Motor Kit




A performant and compact kit with a downtube battery that blends in with stable vehicle frame, perfect for trekking and off-road use. 3-4 wheeler compatible.




PERFORMANCE	PERS KIT WEIGHT (kg)	Wheel drive
Torque 2 x 50 Nm Energy 700 Wh	15,5	2


Certified
 EN 17860


Cargo Dual Motor Kit




A very powerful drivetrain, for 3-4-wheeler cargo bikes, professional heavy duty, delivery services & big payloads.



PERFORMANCE	PERS KIT WEIGHT (kg)	Wheel drive
Torque 2 x 111 Nm Energy 1440 Wh	25,7	2



Certified
 EN 17860

Cargo e-Axle Kit



Available soon!

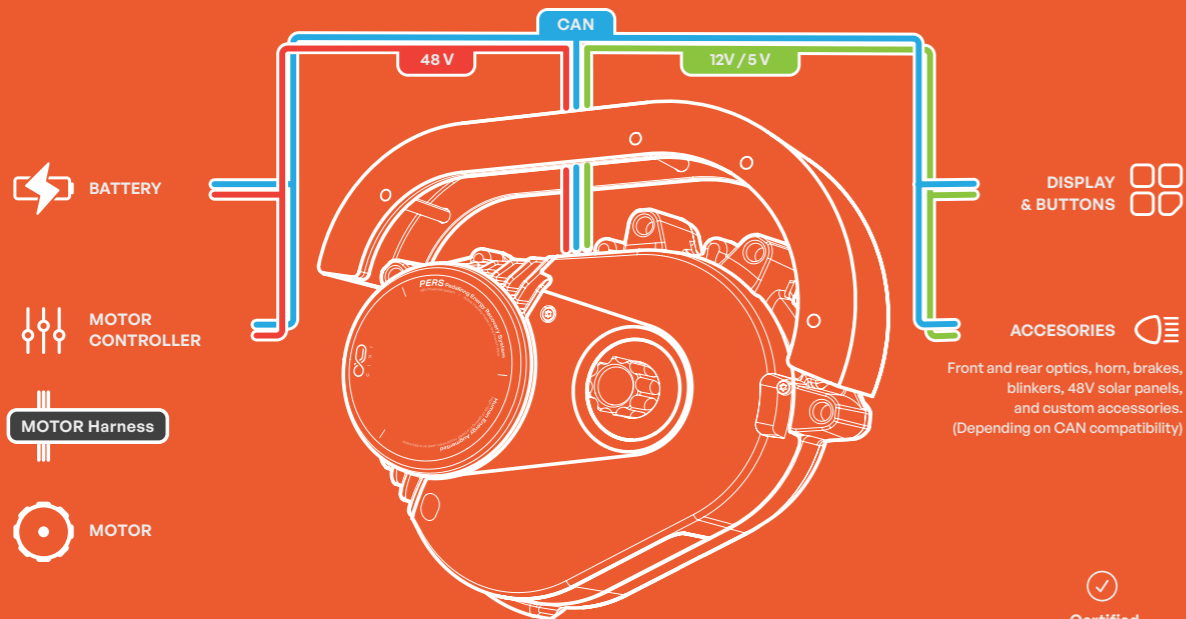
An extra powerful drivetrain, ideal for 3-4-wheeler cargo bikes, designed for professional heavy duty, delivery services & very big payloads.



PERFORMANCE	PERS KIT WEIGHT (kg)	Wheel drive
Torque max 315 Nm Energy 1440 Wh	38	2

PERS Standalone

An **open and versatile** technology that **integrates easily** with your powertrain.



Certified
EN 17860 / EN 15194
L1eb / L1ea / L2e

Technical specifications

Max. Torque	185 Nm
Max. Speed	100 Rpm
Efficiency	Higher than 80%
Power peak	2000 W
Max. Continuous Power	360 W

Dimensions

Width	96,20 mm
Length	208,80 mm
Height	162,96 mm

Weight	3,7 kg
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Connectivity

Bluetooth + 4G
CAN Communication
IOT Box Embedded

Minimal ▶
Pedal 4
Chainless Powered by PERS
UK



Pedelec Downtube Kit

A **simple, versatile** drivetrain, perfect for 2-wheel pedelecs, light tricycles, and **everyday use**.



x1 PERS
3,7 kg
ISIS Standard

x1 CIXI Modular Wire Harness
Customized & Robust

x1 Pedelec motor (Geared)
Up to 75 Nm
4,5 kg
135mm OLD / Thru axle

x1 Downtube Battery
Up to 700 Wh
3,7 kg
Charger & Accessories

x1 Pedelec motor Controller
L 99 x W 52 x T 28 (mm)

x1 Cockpit by CIXI
GEN 1, vertical Pedelec
4" screen
Double remote



Certified
EN 15194

Applications:



Pedelecs



Longtail cargo



Tricycles



Handbikes

ICE trikes ▶
ICE Sprint X - Sport Recumbent Trike
Chainless Powered by **PERS**
UK



Powered by **CIXI**

"A major step forward in innovation for the recumbent trike community, offering a fresh and exciting experience. We believe this could redefine what's possible in the trike industry. Our customers and riders are going to love it!"

Phil Zschiesche
ICE Head of Marketing



Pedelec Intube Kit

A **sleek and discreet** intube kit that blends seamlessly into 2-wheel pedelecs and light tricycles. Perfect for **everyday urban use**.



x1 PERS
3,7 kg
ISIS Standard

x1 CIXI Modular Wire Harness
Customized & Robust

x1 Pedelec motor (Geared)
Up to 75 Nm
4,5 kg
135mm OLD / Thru axle

x1 Intube Battery
Up to 710 Wh
4 kg
Charger & Accessories

x1 Pedelec motor Controller
L 99 x W 52 x T 28 (mm)

x1 Cockpit by CIXI
GEN 1, vertical Pedelec
4" screen
Double remote



Certified
EN 15194

Applications:



Pedelecs



Longtail cargo



S-Pedelecs



Light Cargo

Ultima Mobility ▶
Fleet Platform
Chainless Powered by **PERS**
FR



Trike dual motor Kit

A **performant and compact** kit with a downtube battery that blends in with stable vehicle frame, perfect for **trekking and off-road use**. 3-4-wheeler compatible.



x1 PERS
3,7 kg
ISIS Standard

x1 CIXI Modular Wire Harness
Customized & Robust

x2 Pedelec motors (Geared)
2 x 50 Nm
2 x 5,5 kg
Single sided

x1 Downtube Battery
700 Wh
4 kg
Charger & Accessories

x2 Pedelec motor Controller
L 61,5 x W 36,5 x T 23,5 (mm)

x1 Cockpit by CIXI
GEN 1, vertical Pedelec
4" screen
Double remote



Certified
EN 15194

Applications:



Tricycles



Trike cargo

Radkutsche Cargo Bikes ▶
The Companion
Chainless Powered by **PERS**
DE



Cargo dual motor Kit

A **very powerful** drivetrain, for 3-4-wheeler cargo bikes, professional **heavy duty**, delivery services & **big payloads**.



x1 PERS
3,7 kg
ISIS Standard

x1 CIXI Modular Wire Harness
Customized & Robust

x2 Cargo Motors
2 x 111 Nm / Up to 400 kg axle load
Interface for spokes or solid rim
10,2 kg

x1 Cargo Pack Battery
1440 Wh LFP long lifetime
Charger & Accessories
12 kg

x2 Cargo Controller
L 99 x W 52 x T 28 (mm)

x1 Cockpit by CIXI
GEN 1, vertical / horizontal cargo
4" screen
Double remote incl. Turn signals



Certified
EN 17860

Applications:



3-wheel cargo



4-wheel cargo



Heavy cargo



Intermediate Vehicles

Flevobike ▶
GoLo Cargobike Platform
Chainless Powered by **PERS**
NL

"CIXI was the only company to meet our high standards. Riding the GoLo is pure pleasure; the **PERS** takes care of everything: moving forward, braking, reversing. Working with CIXI is very pleasant; they listen and implement ideas quickly."

André Vrieling
Co Owner, Flevobike Technology



Cargo e-Axle Kit

Available soon!

An **extra powerful** drivetrain, ideal for 3-4 wheeler cargo bikes, designed for professional **heavy duty**, delivery services & **very big payloads**.



x1 PERS
3,7 kg
ISIS Standard

x1 CIXI Modular Wire Harness
Customized & Robust

x1 e-Axle
315 Nm / Up to 800 kg axle load
Standard 4-point fixation wheel
22,5 kg

x1 Cargo Pack Battery
1440 Wh LFP long lifetime
Charger & Accessories
12 kg

Optional: 2nd battery available upon request.

x1 Cargo Controller
L 140 x W 81 x T 47 (mm)

x1 Cockpit by CIXI
GEN 1, vertical / horizontal cargo
4" screen
Double remote incl. Turn signals



Certified
EN 17860

Applications:



Heavy duty cargo



Intermediate Vehicles

Radkutsche Cargo Bikes ▶
Musketier Heavy Duty Cargo
Chainless Powered by **PERS**
DE

"Through our partnership with CIXI, we've created a robust platform for urban logistics; Less wear, more efficiency, and a better and more powerful driving experience for professional use."

Stefan Rixmeyer
Managing Director of Radkutsche



PERS Digital Connectivity

Our digital ecosystem connects end users, dealers, manufacturers, and fleet operators.

From manufacturers to end users, **Active Pilot connects everyone:**



e-bike OEMs

A straight line of communication with their riders for the first time ever. Access to the data lake of bike usage.



Dealerships

Online technical support (ticket creation & follow-up) together with direct exchanges with manufacturers and end users.



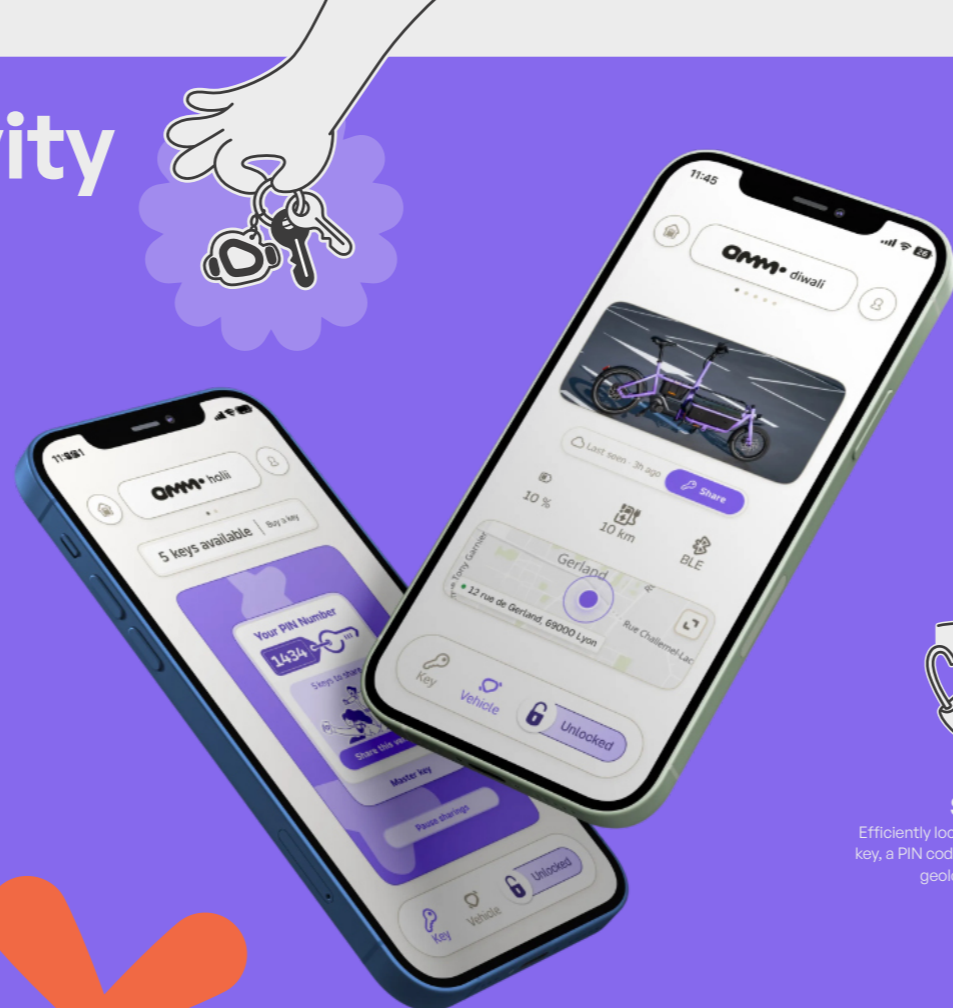
Fleet operators

Live fleet management and monitoring (digital key management, geolocation, predictive maintenance, vehicle status and usage).



End users

Enhance experience and security through anti-theft features, digital sharing, advanced control over bikes, statistics, and online support.



made easy.

ACTIVE PILOT

A companion that makes your chainless e-bicycle an active part of your lifestyle by combining safety, sharing, wellness metrics, and more. We make movement convenient, accessible, and seamless for everyone.



Safety

Efficiently lock your bike with a digital key, a PIN code. Get movement alert & geolocate your bike.



Sharing

Generate extra keys for your family and friends, or start earning by creating dedicated rental keys for your bike.



Wellness

Embrace your progress in mind and body, and follow your journey toward a more active, balanced life.

www.active-pilot.com

CIXI SUPPORT

A tool to stay connected with your riders and enhance the after-sale experience.

PERS Fleet Management

API Management – Firmware updates



Vehicle - **PERS**
Association



Tutorial videos
to guide you



Maintenance
diagnostics in real-time



Riders' & **PERS**
Statistics
(Requires client's opt-in)



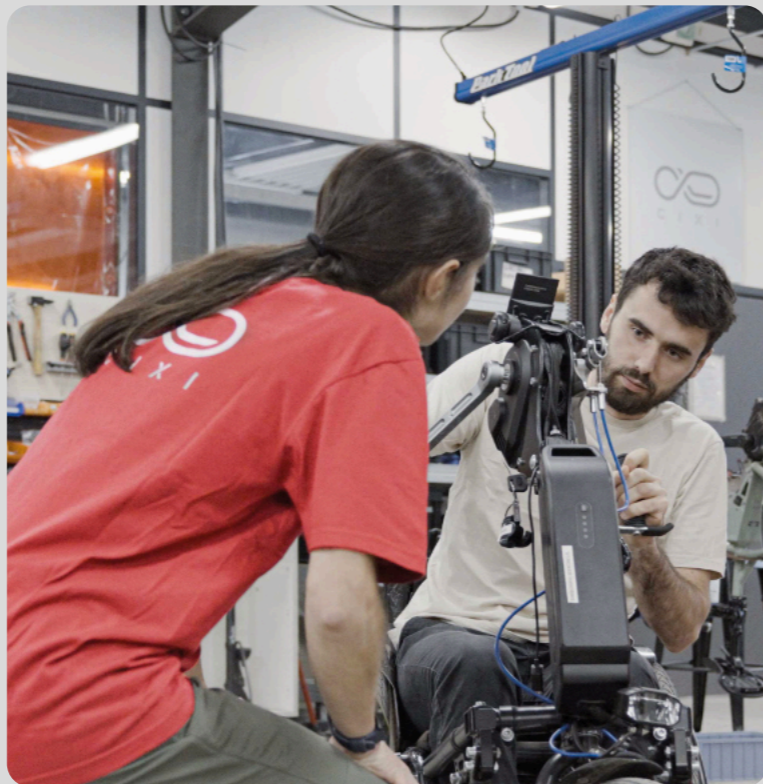
support.cixi.life

For any after-sales inquiries:

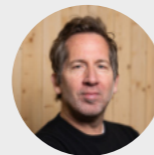
+33 2 55 99 53 28

Available from Monday to Friday
9h00 - 12h30 and 13h30 - 18h30

All **PERS** are connected to CIXI's cloud via a 4G chip.
This links every user, building a large community of active vehicles ranging from bikes and intermediate vehicles to the VIGOZ.



Contact our team



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Or share us your project details to get started:

REQUEST A **PERS** KIT

Product information, datasheets, 3D files, and quotes,
for professionals.



CIXI

Mobilitéé Active

cixi.life    