BIKES

SUMO

smart urban mobility

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A company of the vonRoll infratec group

SUMO

smart urban mobility

1 week free trial!

Experience it yourself – test a **vRbike** free of charge for one week!

BOOK YOUR TEST RIDE NOW!

Mobility the way you need it

The vehicles by **vRbikes** stand for **SUMO – smart urban mobility**.

Whether for urban traffic, logistics, postal delivery or municipal operations – our two- and three-wheelers are modular in design, 100 % electric and economical in operation. For every challenge, you'll find the right solution – sustainable, flexible and efficient.

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SUMO – a new era of urban mobility

Our vehicles combine modern electric drive technology with maximum functionality. Thanks to a modular platform, different bodies and attachments can be flexibly combined – perfectly tailored to the needs of cities, municipalities, businesses and postal services.

Advantages at a glance

Sustainable & emission-free
100 % electric – reducing CO^2 emissions and noise in urban areas

Modular & adaptable
The modular frame allows for individual bodies, accessories and extensions

Agile & efficient
Ideal for narrow streets, city centres and pedestrian zones

High payload with minimal space requirements
Up to 300 kg loading capacity – strong performance in compact dimensions

Economical to operate
Low-maintenance technology and reduced energy costs

Swiss engineering & quality
Developed in Switzerland, built with premium materials for long-lasting performance

Who benefits from our vehicles

- **Postal and parcel services**
  Efficient, zero-emission solutions for the last mile
- **Cities & municipalities**
  Sustainable vehicles for maintenance, waste management and daily operations
- **Business & logistics**
  Ideal for couriers, service companies and urban fleets

The vision behind SUMO

In 2010, two visionaries – Jürg Brand and Daniel Binzegger – asked themselves a crucial question:

How can mobility be re-imagined – sustainable, smart and efficient?

Even back then, it was clear that the future belonged to electric mobility – but not just any kind, rather one that is practical, adaptable and economical. That idea led to the first model, the **vRone** – the beginning of a vision and still a symbol of lifestyle and urban freedom today.

vRone – the beginning of a vision

From idea to SUMO range

Over time, the challenges of urban life became unmistakable: too many traffic jams, too little space and too many emissions.

Our solution: a vehicle concept that uses urban space efficiently while remaining sustainable. This gave rise to **SUMO – smart urban mobility**, combining intelligent design, modular engineering and Swiss precision.

SUMO – smart urban mobility

The name says it all: intelligent, modular, efficient. **SUMO** is more than a vehicle – it is a solution for modern cities, smart businesses and future-ready mobility.

Mobility redefined

- **100 % electric & emission-free**
  mobility with zero exhaust emissions
- **Modular & customisable**
  solutions for every application
- **Flexible & powerful**
  maximum flexibility in urban environments
- **Swiss engineering**
  quality that convinces

vR.5 | smart urban mobility

The **vR.5** gets you through everyday life with ease. Compact, efficient and built for short trips, spontaneous rides and urban flexibility. Hop on, ride off, arrive – no detours. No registration. No licence plate. Just ride.

Technical data

Maximum speed: 25 km/h
Motor power: 0.5 kW
Range: up to 50 km
Battery: standard household socket (230 V / Type 13)
Charging time: approx. 4–6 hours
No license required from age 16
License plate: not required

NEW

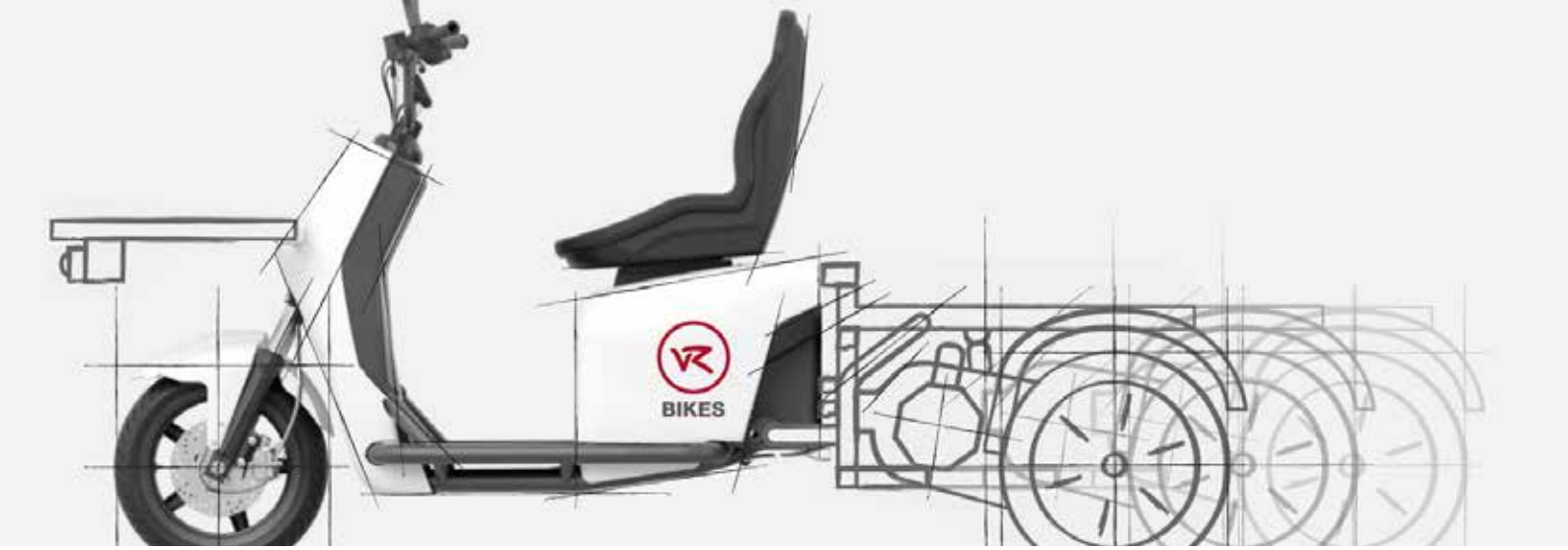
Scan.
Watch.
Ride.

vR2 | The perfect match

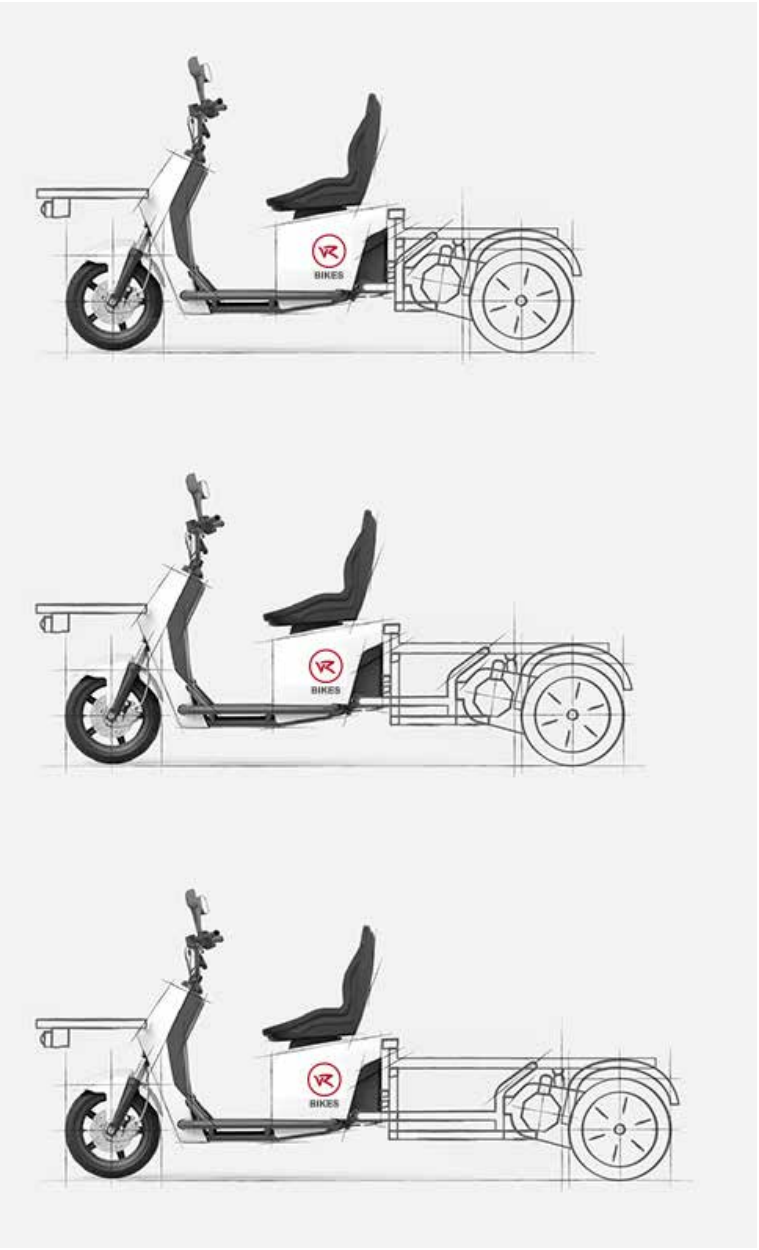
The **vR2** brings the advantages of the **vR3.2 series** to two wheels. It combines agility with versatility and is ideal wherever a slim, flexible solution is required.

Technical data

EU vehicle class: L1e or L3e (both options available)
Dimensions: L = 195 cm × W = 75 cm × H = 115 cm
Battery: 72 V / 56.8 Ah
Motor power: 4 kW
Top speed: 45 km/h (L1e) | 100 km/h (L3e)
Range: > 150 km
Curb weight: 160 kg
Gross weight: 350 kg



From S to L – one platform, three sizes



The **vR3.2** is the first platform available in multiple length versions – **from S to L.** Thanks to its extendable rear frame, the vehicle can be dimensioned perfectly for each use case: shorter and more agile for narrow streets, longer and sturdier for larger transport tasks.

The principle

- **Modular rear frame**
  Adjustable in length – forms the basis for all sizes and body types
- **Shared components**
  Motor, battery, tyres, brakes, controls and many other parts are identical across all models – reducing costs and simplifying maintenance
- **Custom body options**
  Load areas, boxes or modules can be designed according to specific needs
- **Optimised use of space**
  The space between the wheels is used for maximum load volume
- **Colour variety**
  Standard colours: orange, yellow and white; additional RAL tones available on request

vR3.2 STANDARD | The platform

The **vR3.2 STANDARD** is the core platform – the solid foundation for every body and configuration. Whether as an entry into the **SUMO** world or as a flexible basis for individual solutions, this model makes sustainable mobility simple, economical and future-proof.

Technical data

EU vehicle class: L2e (three-wheeled light electric vehicle)
Dimensions: L = 256 cm × W = 90 cm
Licence categories: DE/AT = AM (45 km/h, from 15/16 years) or B | CH = A1 (45 km/h, from 15 years) / A
Top speed: 45 km/h
Range: up to 125 km (WLTP)
Battery: Li-NMC, 48 V, 7.1 kWh
Plug type / charging: T13 (10 A), max. charging current 10.5 A
Climbing ability: up to 25 %
Turning circle: 4.5 m
Payload: 230 kg (excluding rider)
Colours: available in any colour | Standard: white, orange, yellow
Heated grips: standard
Locking systems: Keyless Entry & Go, ignition key
Rear: with railing

vR3.2 M

IN SERVICE

ACROSS SWITZERLAND & AUSTRIA

vR3.2 M | The transporter

The **vR3.2 M** was developed in close cooperation with postal services – perfectly tailored to the requirements of daily delivery work. Its ergonomics, ride comfort and loading volume are optimised for long routes, frequent stops and continuous handling throughout the day.

Technical data

EU vehicle class: L2e (three-wheeled light electric vehicle)
Dimensions: L = 252 cm × W = 90 cm
Load volume: up to 1.3 m³ (extendable with trailer «CARRY» to 3.3 m³)
Licence categories: DE/AT = AM (45 km/h, from 15/16 years) or B | CH = A1 (45 km/h, from 15 years) / A
Top speed: 45 km/h
Range: up to 125 km (WLTP)
Battery: Li-NMC, 48 V, 7.1 kWh
Plug type / charging: T13 (10 A), max. charging current 10.5 A
Climbing ability: up to 25 %
Turning circle: 4.5 m
Payload: 230 kg (excluding rider)
Colours: available in any colour | Standard colours: white, orange, yellow
Heated grips: standard
Locking systems: Keyless Entry & Go, ignition key
Rear: with railing

vR3.2 L | The space miracle

The **vR3.2 L** delivers space where others reach their limits. With greater volume, higher payload and full electric power, it's the strong partner for large transport tasks in urban environments.

Technical data

EU vehicle class: L2e (three-wheeled light electric vehicle) | optional L5e* (with extended homologation for higher payload)
Dimensions: L = 296 cm × W = 98 cm
Load volume: up to 1.5 m³ (extendable with trailer «CARRY» to 3.5 m³)
Licence categories: DE/AT = AM (45 km/h, from 15/16 years) or B | CH = A1 (45 km/h, from 15 years) / A
Top speed: 45 km/h (L2e) | 80 km/h (L5e*)
Range: up to 125 km (WLTP) | range extender optional
Battery: 7.1 kWh (L2e) | 10.7 kWh (L5e*)
Plug type / charging: T13 (10 A), max. charging current 10.5 A
Climbing ability: up to 25 %
Turning circle: 4.8 m
Payload: 230 kg (L2e) | 350 kg (L5e*)
Colours: available in any colour | Standard colours: white, orange, yellow
Heated grips: standard
Locking systems: Keyless Entry & Go, ignition key

*L5e version under development

NEW
LOAD VOLUME UP TO 3.5 M³

vR3.2 COMMUNALE | The helper

The **vR3.2 COMMUNALE** supports cities and municipalities reliably in their daily work. Whether for transport, cleaning or waste collection – it's emission-free, robust and always ready for use. The drive system is identical to the **vR3.2 STANDARD** – only the body types differ depending on application.

Technical data

Model*	Rear body		Rear platform		Front cargo module	
	Description	Height	Dimensions	Payload	Dimensions	Payload
COMMUNALE 1	Flatbed with steel side walls and flat tarpaulin	35 cm	96 x 96 cm	up to 180 kg	40 x 60 cm	30 kg
COMMUNALE 2	Same as **COMMUNALE 1** with side wall extension	35 cm				
COMMUNALE 3	Same as **COMMUNALE 2** with steel mesh extension	50 cm				
COMMUNALE 4	Same as **COMMUNALE 1** with frame and high tarpaulin	85 cm				
COMMUNALE 5	Same as **COMMUNALE 1** with frame and extra-high tarpaulin	125 cm				

*Each model can be extended with a trailer hitch

CYCLEAN 2.0 | The Professional for Every Job

The **CYCLEAN 2.0** combines waste disposal, cleaning and transport in one compact, fully electric solution. With a 1.5 m³ load volume, intelligent tipping technology and carefully designed details, it is a reliable partner for daily operations in municipalities, public works departments and public facilities.

Technical Specifications

EU vehicle class: L2e (three-wheeled light motor vehicle with electric drive)
Dimensions: L = 310 cm × W = 98 cm
Aluminium tipping body: 1.5 m³ load volume | 150 kg payload
Front cargo module: 30 kg payload for tools and personal equipment
Side flap: Right-hand unloading flap for ergonomic operation
Hydraulics: 2 double-acting hydraulic cylinders with integrated safety valves
Support system: 2 hydraulically operated support legs
Operation: External control unit with long connection cable
Driving licence: DE/AT = AM (45 km/h, from age 15/16) or B | CH = A1 (45 km/h, from age 15) / A
Top speed: 45 km/h
Range: up to 125 km (WLTP)
Battery: 7.1 kWh
Plug type / charging: Type 13 (10 A), max. charging current 10.5 A
Gradeability: up to 25%
Turning circle: 4.8 m
Colours: Available in custom colours | Standard colours: White, Orange, Yellow
Heated grips: Standard
Locking system: Keyless Entry & Go, ignition key

1.5 M³ ALUMINIUM TIPPING BODY

CARRY | The reliable one

The **CARRY** provides additional cargo space for all **SUMO vehicles**, expanding transport capacity in urban environments. With its robust construction, low tare weight and flexible design, it’s the ideal companion for logistics, municipal and commercial operations.

Technical data

Dimensions: L = 160 cm x W = 100 cm x H = 170 cm
Curb weight: 70 kg
Gross weight: 300 kg

NEW
LOAD VOLUME UP TO 2 M³

Accessories

The accessories make your **SUMO vehicles** as versatile as your daily tasks. More storage, municipal attachments or comfort features – with modular solutions, your vehicle adapts to every challenge. Simple, practical and future-proof.

Transport & body options

Rear box (various sizes, with locking system, optional solar module)
Cargo modules (front cargo module 40 × 60 cm)
Cargo modules for larger volumes (e.g. flatbeds, loading platforms)
CARRY trailer – expandable load volume **NEW**
Side wall extension 35 cm
Steel mesh extension 50 cm
Frame with high tarpaulin 85 cm
Frame with extra-high tarpaulin 125 cm
Flat tarpaulin (orange or anthracite)
High tarpaulin (orange or anthracite)

Municipal solutions

SideBox (incl. waste grabber, mountable on left or right side)
Rear railing

Vehicle features & comfort

Trailer coupling
Roof / solar roof
Windscreen
Rear camera
Heated grips (standard, extendable)
Handlebar covers (weather protection)
Cargo nets

Service you can rely on

Our vehicles are built for everyday use – and to make sure you can rely on them long-term, our partner garages throughout Switzerland are always there for you. Whether maintenance, repairs or spare parts – we offer a service network that's fast, reliable and close to you.

Your advantages in Switzerland

- **Nationwide network**
  Partner garages across the entire country
- **Fast availability**
  Short distances, quick appointments
- **Spare parts from stock**
  Available immediately,
  no long waiting times
- **Genuine parts & quality**
  Work according to manufacturer standards, long-lasting components
- **Experienced partners**
  Specially trained for our vehicles
- **Predictable costs**
  Transparent quotes and fair service packages
- **Warranty & sustainability**
  2-year warranty plus Second Use/ Second Life concepts

In-house production – full control

Two production sites and numerous service centres ensure maximum operational readiness.

- Efficient in-house production in Ningbo, China – cost-effective and high-performing
- Final assembly in Choindez, Jura (Switzerland) – Swiss precision and quality control

From Ningbo to Choindez – quality from a single source

Our vehicles undergo a two-stage production process to meet the highest quality and safety standards.

Ningbo, China – At our own factory in China, large-scale production takes place. Here we rely on global efficiency, strict process controls and proven manufacturing methods – while maintaining full control over every production step.

Choindez, Swiss Jura – The final stages of assembly, quality control and fine-tuning take place in Switzerland. Thanks to Swiss engineering and expertise, we guarantee maximum precision, durability and efficiency.

YOUR VEHICLE, YOUR SOLUTION

The principle

- **Variable rear frame**
  Adjustable in length – forms the basis for all sizes and body types
- **Custom quotation**
  Tailored exactly to your requirements
- **Special colours & branding**
  Design your vehicle in your corporate identity
- **Flexible modules**
  Configurations for transport, logistics, municipal or service use
- **Accessories & extras**
  From locking systems to trailer couplings
- **Everything from one source**
  Consulting, service and implementation by our dedicated team

Because we move what matters!

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