rovenma

Parcel Lockers

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rovlocker

Engineered to Endure. Designed to Evolve.

Growing parcel volumes and increasingly complex last-mile networks demand more than standard locker systems. They require infrastructure built for capacity, security, and long-term operational stability.

From the first day, Rovlocker has been engineered around non-negotiable principles: vandal-resistant mechanical strength, in-house developed lock and control boards, and full control over hardware and software architecture.

As parcel networks evolve, Rovlocker evolves with them. Continuous field feedback and ongoing R&D ensure durable performance, system-level security, and reliable operation at scale.

Designed & Manufactured by rovenma

About

Founded in 2016, Rovenma is a manufacturer of smart parcel locker systems serving last-mile delivery operations.

All Rovlocker solutions are designed and engineered at our headquarters by a multidisciplinary R&D team specializing in mechanical design, electronics, and software development. Electronic systems are manufactured in-house, while mechanical components are produced in collaboration with qualified manufacturing partners. This integrated structure ensures consistent quality, scalability, and operational reliability.

Rovenma develops parcel locker systems for urban environments, combining functional performance with industrial design. The company works with logistics operators, postal services, and e-commerce companies across international markets.

What We Do

We produce parcel lockers.

From product design and engineering to production, in-house electronics development, deployment, and long-term support, every critical process is managed within Rovenma.

- In-house lock, control board, and software development
- Integrated supply chain management with scalable production capacity
- After-sales support and maintenance

This end-to-end engineering structure ensures complete system control, consistent quality standards, and long-term operational reliability.

ISO 9001:2015

ISO 10002:2018

ISO/IEC 27001:2013

ISO 14001:2015

IP 54

CE

Rovlocker R7

Engineered Smarter. Built Simpler.

Rovlocker R7 is our most advanced and refined locker system.

Developed through continuous field feedback and ongoing engineering optimization, R7 preserves the core Rovlocker principles, vandal-resistant construction, in-house security electronics, and full system control, while applying a clear “less is more” design approach.

The result is a more compact, efficient, and easier-to-deploy system without compromising structural strength or reliability.

R7 reflects disciplined engineering: optimized components, simplified architecture, improved serviceability, and maximum performance with minimum complexity.

Rovlocker R7

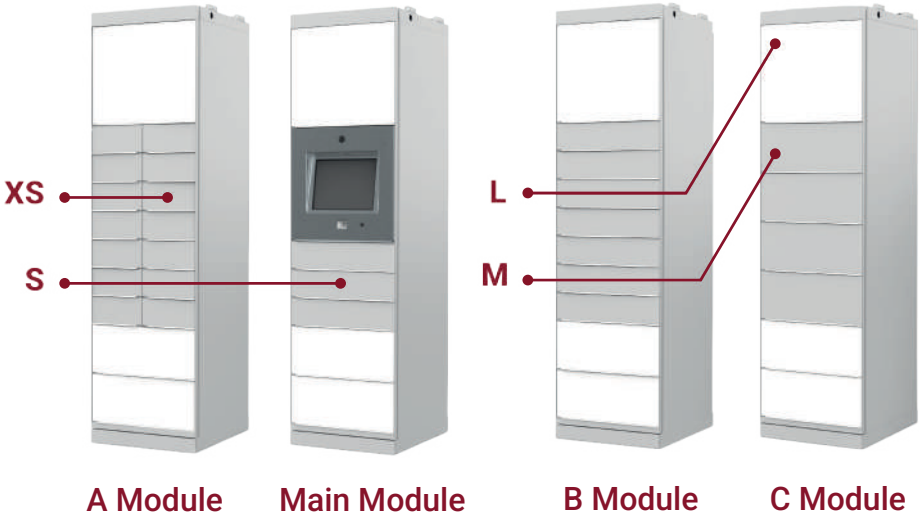
R7 combines structural strength, intelligent electronics, and optimized system architecture within a compact and efficient platform.

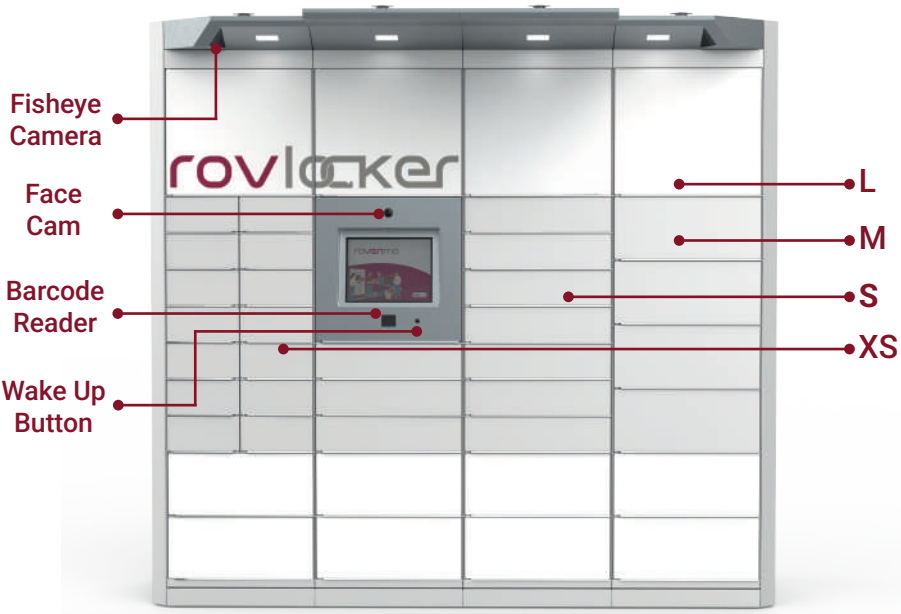
- Vandal-resistant mechanical construction
- In-house engineered electronic locks and control boards
- Front-access service architecture
- Composite roof system
- Grid-powered or battery-powered configurations
- Optimized component structure

Rovlocker R7

With its scalable modular structure and four door sizes (XS, S, M, L), Rovlocker R7 adapts to different parcel volumes and installation environments, maximizing operational efficiency while optimizing investment costs.

Its composite roof design enables easier installation, transportation, and maintenance, while integrating a night-vision fisheye camera and low-energy lighting within a compact, space-efficient structure.





Dimensions of 1 set (4 modules) with accessories (roofs and side walls)

Height	2190 mm
Width	2235 mm
Depth	655 mm
Weight	~580 kg

Inside dimensions of the doors

	XS	S	M	L
Height	95 mm	95 mm	210 mm	440 mm
Width	200 mm	425 mm		
Depth	610 mm			

Dimensions of 1 module without accessories (roofs and side walls)

Height	2020 mm
Width	540 mm
Depth	655 mm

Rovlocker R7

Mechanical Strength and Service Optimization

Rovlocker R7 is engineered for high-traffic urban environments, combining high-strength mechanical construction with in-house electronic architecture and controlled system design. It supports both grid-powered and battery-powered configurations, enabling flexible deployment across diverse locations.

Vandal-Resistant Architecture

Engineered with high-strength construction, the cabinet ensures structural integrity and protection against impact and forced access.

Electronic locks and control boards are fully developed and manufactured in-house, enabling secure hardware–software integration and complete system control.

Composite roof and HMI door structures provide high impact resistance while reducing overall weight. The roof integrates low-energy lighting and a night-vision fisheye camera within a compact and optimized footprint.

Built to Scale. Designed to Secure.

Rovlocker R7

Patented Frontal Maintenance Architecture

All service operations are performed entirely from the front, eliminating the need for rear or side access.
This patented architecture reduces intervention time, lowers operational costs, and simplifies field maintenance. It also enables installation in space-constrained urban environments where rear access is not possible.

Rovlocker R6

Proven Performance. Trusted Reliability.

Rovlocker R6 is a field-proven parcel locker system developed to meet the operational demands of last-mile delivery networks. Designed and engineered entirely by Rovenma, it combines durable mechanical construction with in-house electronic architecture in a stable platform built for long-term reliability.

Deployed across diverse environments, R6 delivers consistent, secure, and reliable parcel operations.

Technologies of Rovlocker R6

R6 features a reinforced, vandal-resistant cabinet engineered for high-traffic public environments. Electronic locks and control boards are fully developed and manufactured in-house, ensuring secure hardware–software integration.

The system incorporates Rovenma's patented frontal service architecture, enabling all maintenance to be performed entirely from the front. This reduces service time, lowers operational costs, and simplifies installation in space-constrained locations.

- Bluetooth connectivity
- Remote management
- Modular architecture
- Front-access service design

Inside dimensions of the doors

	S	M	L
Height	100 mm	160 mm	336 mm
Width	360 mm		
Depth	550 mm		

Screenless Battery Powered Rovlocker

Simplified Architecture. Independent Operation.

Rovlocker operates without a screen, PC, electricity panel, or external modem.

All user interaction is handled via mobile devices, consuming approximately 1 kB of data per parcel transaction.

This minimalist architecture reduces hardware complexity, lowers energy consumption, and simplifies installation requirements.

- Bluetooth-operated access
- Integrated onboard battery management
- Swappable battery system
- Up to 10 years of operational life
- Optional solar charging
- Indoor and outdoor deployment
- Silent operation (0 dB mechanical noise)

Designed for locations without fixed infrastructure, the system enables fast deployment with minimal operational overhead.

Intelligent In-House Electronics

Engineered for Secure System Control

All electronic locks and control boards are designed and manufactured by Rovenma as part of our patented system architecture.

Developed by our multi-dicipliner engineering team, this platform is continuously improved through ongoing R&D, ensuring long-term reliability, security, and system performance.

- In-house engineered lock and control boards
- Grid-powered or Battery-powered operation
- Intelligent sleep mode with instant wake-up button

Secure and Future-Ready SaaS Platform

Rovlocker operates on a secure AWS-based cloud architecture designed for compliance, availability, and operational continuity. The platform integrates front-end, back-end, and remote management within one unified system.

Built on AWS infrastructure, it provides:

- GDPR compliant data processing
- End-to-end encryption and role-based access control
- Continuous monitoring and automatic updates
- High availability with minimized downtime
- 24/7 remote management
- Cloud or on-premise deployment

Developed and continuously refined by Rovenma's in-house engineering team, the platform evolves with operational needs while maintaining security and performance.

The cloud-based model eliminates on-premise infrastructure dependency and ensures uninterrupted remote support.

Intelligent Platform. Continuous Performance.

Remote control, offline resilience, adaptive capacity.

Rovlocker is designed as a continuous service system, not merely a connected device.

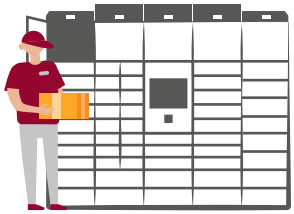
Even in the absence of network connectivity, locker operations remain fully functional. Transactions are securely stored and automatically synchronized once the connection is restored. Central management, monitoring, and configuration adjustments can be performed remotely without physical intervention.

The system incorporates a wake-up button configuration and intelligent sleep mode, activating only when required and optimizing energy consumption.

User interaction is enabled through secure mobile authentication, allowing fast and contactless parcel access without reliance on fixed terminals.

Smart Investment. Measurable Impact.

Rovlocker creates value across every level of the delivery ecosystem.

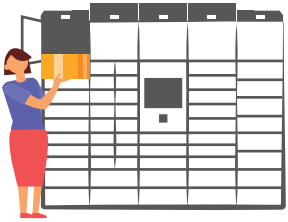


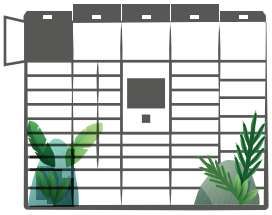
For Operators

- Increased distribution capacity
- Lower operational costs
- Reduced infrastructure burden
- Long-term technology stability

For End Users

- 24/7 access
- No missed deliveries
- Safe and contactless experience
- Fast mobile-based interaction





For Cities

- Reduced traffic congestion
- Lower carbon emissions
- Decreased fuel consumption
- Sustainable urban logistics support

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Technical Specifications

CATEGORY	SUBCATEGORY	FEATURES
COMPUTER	PC	Linux, Windows, I/O-free, outdoor industrial motherboard
	I/O Rovenma Board	Outdoor industrial I/O motherboard, OS-free with embedded programming
HMI (Human-Machine Interface)	LCD Screen (O)	10" & 15" capacitive touch screen for outdoor use
	Front Camera (O)	1.3 MP (1280×960), 1/3-inch lens sensor, USB
	Barcode Reader (O)	1D and 2D barcodes readable from paper or mobile phone
	I/O Rovenma Board	Outdoor industrial I/O board
SECURITY	Camera (O)	IP camera or low-power camera
	NVR (O)	Software or hardware-based with HDD
	Software	Encrypted communication
	Electronic Lock System	Unique Rovenma design
	Vandal-Proof Mechanics	Compartment doors, compartment locks and latches, composite HMI cover
ENVIRONMENTAL RESISTANCE	Ventilation Fan	Energy-saving continuous airflow for grid lockers
	Operating Temperature	Between -30°C and +65°C
	Relative Humidity Range	10% to 90%
SOFTWARE	SaaS / On-Premise (O)	Linux-based operating system, management portal, and application
		Physical and cloud-based server capability
		Online and offline operation scenarios
NETWORK	GSM Module (Single/Dual)	GSM module: 3G, 4G
	Modem/Router (O)	Subject to change depending on the project
ENERGY MANAGEMENT	Power Source (UPS) (O)	230V AC
	Annual Consumption	Approximately 3560 kWh (with one IP camera and NVR for 7 modules)
	Battery (O)	Optional: alkaline or lithium
	Leakage Relay	Standard 30 mA for human health and safety
	EMC Filter	Prevents damage caused by current and voltage fluctuations in grid lockers
	Fuse	3-10A
EXTERNAL BODY	Materials	Steel and durable materials (composite plastic)
	Compartment Door	Optional: high-quality aluminum injection, galvanized metal, and composite plastic
	Painting	Environmentally resistant polyester paint, compatible with RAL colors; optional cataphoretic coating

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Built for today. Ready for tomorrow.

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