REVEGO
environmental solutions

THE TECHNOLOGY FOR SUSTAINABLE FUTURE

Member of
ÜÇGE
GROUP

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REVEGO

about us

REVEGO Environmental Solutions and Technologies, develops end-to-end solutions with product development, software systems, digital infrastructure and storage systems for the sector within the scope of environmental policies. It produces Deposit Reverse Vending Machines, Counting & Sorting Machines, Verification Facilities, Mobile Return Station whose system and software are implemented in-house. It operates in its factory with an area of 10.000 m2 with the aim of realizing all processes covering design, software, production, distribution, marketing, assembly and after-sales services in the national and international market.

REVEGO is one of the ÜÇGE Group Companies under which 10 companies operate.

With 48 years of deep-rooted history, ÜÇGE continues its activities as one of the world's major suppliers of retail shelves systems, warehouse racking systems, smart storage, digital system solutions, environmental solutions and a wide range of industrial products.

ÜÇGE Group is moving forward with the goal of creating more value for its industry, its customers and the world for a sustainable future. In this context, as of 2020, it has stepped into R&D, production and software activities in the field of recycling. Important projects were realized in a short time.

In the second half of 2023, REVEGO was established as a new company specific to its field of activity. All environmental solutions started to be implemented under REVEGO.

REVEGO also aims to use our planet's resources efficiently, to create a sustainable system to support the circular economy and to raise recycling awareness in society with its corporate citizenship approach.
It combines its goals with the vision of creating value for the future.

products

REVEGO Reverse Vending Machines, which can accept PET, Can and Glass bottles in certain volume ranges, is more than just an indicator of environmental awareness, it offers a solution that optimizes the recycling process.

Stand Alone RVMs

RVG-i10G

Only for Glass Bottles

RVG-i20

For PET and Can

RVG-i30

For Glass, PET and Can

Mobile Return Station

RVG-i100

For Glass, PET and Can

Bulk Feed Return Station

RVG-i10G

Designed for glass bottles within the scope of DRS, it maximizes bottle breakage with minimum footprint, offering higher storage volume.

Height: 1885 mm   **Width:** 750 mm   **Depth:** 955 mm
Weight: 355 kg   **Footprint:** 0,7 m²

Highlights:
- Only for 0,1-3,0-liter glass bottles
- Easy to use with a 15" touchscreen user friendly interface
- QR code reader for third part mobile applications
- Fast EAN Barcode Reading with 360 Barcode Scanner
- AI-powered Basic Shape Recognition capability
- Real-time weight measurement
- High strength glass crushing unit
- ~600 crushed glass bottles capacity
- Card top up, e-wallet, receipt reimbursement methods

Labels (right side of machine image):
- Upper Door
- Touch Screen
- Feeding Hole
- QR Reader
- Sorting Unit
- Crushing Unit
- Lower Door

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Technical Details

MATERIAL TYPES	Glass Bottles
CONTAINER SIZE	Max 3,0 litres
LOCATION	Internal
WEIGHT	355 kg.
DIGITAL SCREEN	15" touch screen
REWARD SYSTEM	Card Top Up, E-Wallet and Receipt
AUTOMATION	360° Barcode, shape, material and weight sensors
PRODUCTIVITY	40 units per min
CAPACITY	600 Glass Bottles (crushed) (120 lt euro wheelie bin)
COMPACTION	Crushing Unit (0,75 Kw)
POWER CONSUMPTION	Idle 61W – Max 1,1 Kw
POWER SUPPLY	230 V, 50 Hz, 13 A
NOISE	<83 db. (Glass)
TEMPERATURE	-10°C to 45°C
CONNECTION	LAN (Ethernet), Mobile

Usage Areas

- Market / Supermarkets
- Shopping Malls
- Cafe / Restaurants
- Factories
- Hotels
- Schools
- Public Domains
- Public Institutions

General Information

- For Glass Bottles
- Fast identification (360° Barcode reading)
- Shape (silhouette) recognition
- Material detection
- Weight measurement
- Capacity, 1 x 1/2 EU Palet
- Crushing unit
- Full coverage after sales service
- 7/24 remote monitoring

RVG-i20

Designed for PET and Cans within the scope of DRS, it maximizes compressing with minimum footprint, offering higher storage volume.

Height: 1885 mm **Width:** 750 mm **Depth:** 955 mm
Weight: 355 kg **Footprint:** 0,7 m²

Highlights:
· Only for 0,1-3,0-liter PET and Cans
· Easy to use with a 15" touchscreen user friendly interface
· QR code reader for third part mobile applications
· Fast EAN Barcode Reading with 360 Barcode Scanner
· AI-powered Basic Shape Recognition capability
· Real-time weight measurement
·High strength pressing unit
· ~ 460 PET – 800 Can capacity
· Card top up, e-wallet, receipt reimbursement methods

Labels (machine diagram):
- Upper Door
- Touch Screen
- Feeding Hole
- QR Reader
- Sorting Unit
- Pressing Unit
- Lower Door

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Technical Details

MATERIAL TYPES	Pet Bottles and Cans
CONTAINER SIZE	Max 3,0 litres
LOCATION	Internal
WEIGHT	355 kg.
DIGITAL SCREEN	15" touch screen
REWARD SYSTEM	Card Top Up, E-Wallet and Receipt
AUTOMATION	360° Barcode, shape, material and weight sensors
PRODUCTIVITY	40 units per min
CAPACITY	460 PET, 800 Can (compacted)
COMPACTION	Pressing Unit (0,75 Kw)
POWER CONSUMPTION	Idle 61W – Max 1,1 Kw
POWER SUPPLY	230 V, 50 Hz, 13 A
NOISE	<72 db. (Pet/Can)
TEMPERATURE	-10°C to 45°C
CONNECTION	LAN (Ethernet), Mobile

Usage Areas

- Market / Supermarkets
- Shopping Malls
- Cafe / Restaurants
- Factories
- Hotels
- Schools
- Public Domains
- Public Institutions

General Information

· For PET and Cans
· Fast identification (360° Barcode reading)
· Shape (silhouette) recognition
· Material detection
· Weight measurement
· Capacity, 1 x 1/2 EU Palet
· Pressing unit
· Full coverage after sales service
· 7/24 remote monitoring

RVG-i30

Designed for PET, Can and Glass bottles within the scope of DRS, it compacts maximum products in minimum space, offering a higher storage volume.

Height: 1885 mm   **Width:** 1485 mm   **Depth:** 955 mm
Weight: 495 kg   **Footprint:** 1,4 m²

Highlights:
• Only for 0,1-3,0-liter PET, can and glass bottles
• Easy to use with a 15" touchscreen user friendly interface
• QR code reader for third part mobile applications
• Fast EAN Barcode Reading with 360 Barcode Scanner
• AI-powered Basic Shape Recognition capability
• Real-time weight measurement
• High strength crushing and breaking unit
• 460 PET, 800 Aluminum Cans (compacted), 400 Glass Bottles (crushed)
• Card top up, e-wallet, receipt reimbursement methods

Upper Door
Touch Screen
Feeding Hole
QR Reader
Pressing Unit
Sorting Unit
Glass Crusher
Lower Door

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Technical Details

MATERIAL TYPES	Pet Bottles, Aluminum Cans, Glass Bottles
CONTAINER SIZE	Max 3,0 litres
LOCATION	Internal
WEIGHT	495 kg.
DIGITAL SCREEN	15" touch screen
REWARD SYSTEM	Card Top Up, E-Wallet and Receipt
AUTOMATION	360° Barcode, shape, material and weight sensors
PRODUCTIVITY	40 units per min
CAPACITY	460 PET, 800 Aluminum Cans (compacted) 400 Glass Bottles (crushed) (90 lt euro wheelie bin)
COMPACTION	Pressing (0,75 Kw) and Crushing Unit (0,75 Kw)
POWER CONSUMPTION	Idle 61W – Max 2,2 Kw
POWER SUPPLY	230 V, 50 Hz, 13 A
NOISE	<75 db. (PET/Can), <85 db. (Glass)
TEMPERATURE	-10°C to 45°C
CONNECTION	LAN (Ethernet), Mobile

Usage Areas

Market / Supermarkets   Shopping Malls

Cafe / Restaurants   Factories

Hotels   Schools

Public Domains   Public Institutions

General Information
• For PET, Can and Glass Deposit containers
• Fast identification (360° Barcode reading)
• Shape (silhouette) recognition
• Metal and material detection
• Weight measurement
• Capacity, 1 x 1/1 EU Palet or 2x ½ EU Palet
• Pressing and crushing unit
• Full coverage after sales service
• 7/24 remote monitoring

RVG-i100

Designed for PET, Can and Glass bottles within the scope of DRS, it compacts more than 5000 deposit containers in effective space offering highest storage volume.

Height: 2614 mm **Weight:** 8500 kg
Width: 2430 mm **Footprint:** 56 m²
Depth: 8810 mm

Highlights:
· High speed Bulk Feeding
· Identification speed is
  120 containers per minute
· Modular system
· Mounted on a collection truck
· Electrical feeding lid
· Plug&Play
· 27" touchscreen

Technical Details

PACKAGING TYPE	PET - Can - Glass		SHAPE (SILHOUETTE) RECOGNITION	Exist
HEIGHT (H) X DEPTH (P) X LENGTH (L)	2614 x 8810 x 2430		WEIGHT MEASUREMENT	Exist
FOOT PRINT (M2)	56		MACHINE IDENTIFICATION SPEED (PRODUCT/MİN)	120*
WEIGHT (KG)	8500		CONTAINER SIZES	Depend on project design
AREA	Indoor - Outdoor		CAPACITY BY PRODUCT TYPE	Depend on project design
REWARD SYSTEM	Receipt-Mobile wallet-Card application		OPERATING TEMPERATURE	Between (-)10C° - (+)40C°
USER RECOGNITION	Exist		POWER CONSUMPTION	StandBy 61 W - Max 3,5 kW
CRUSHER UNIT	Exist		MAINS	230 V AC- 1 Phase, 50 Hz****
GLASS BREAKER	Exist		CONNECTION	LAN (Ethernet), Mobile
POWER OF CRUSHER / BREAKER UNIT (KW)	0,75 kW x 3		NOISE	<72 (PET/Can), <83 (Glass)
DISPLAY (INC)	27" Touch Screen		MAIN SOFTWARE	Exist
THERMAL PRINTER	Exist		(instant reporting, occupancy rate, technical service records)	
360 DEGREE BARCODE READER	Exist		OPERATING SYSTEM	Linux

Installation

RVMs installation service offers seamless integration of Reverse Vending Machines (RVMs) into diverse locations, including supermarkets, public areas, and recycling centers. Our comprehensive service encompasses assessment, installation, configuration, testing, and training. We ensure optimal placement, functionality, and user experience, promoting recycling participation and environmental sustainability.

Repair

RVMs Repair service offers prompt and reliable solutions to ensure optimal performance of Reverse Vending Machines (RVMs). Our skilled technicians diagnose and address issues efficiently, restoring functionality and minimizing downtime. With a focus on quality repairs and customer satisfaction, we keep RVMs operating smoothly, promoting continuous recycling efforts.

Maintenance & Cleaning

RVMs Maintenance & Cleaning service ensures peak performance and hygiene standards for Reverse Vending Machines (RVMs). Our dedicated team conducts regular maintenance checks, including thorough cleaning and sanitization, to uphold operational efficiency and user satisfaction. With a focus on reliability and cleanliness, we ensure that RVMs continue to promote recycling efforts effectively.

collection

The eco-friendly solution for efficient recycling collection. Powered by electricity, this innovative vehicle minimizes carbon emissions while maximizing collection capacity.

Route Planning

Software-supported route planning for smart waste collection vehicles used in the collection of RVMs (Reverse Vending Machines) involves optimizing collection routes for maximum efficiency and effectiveness. By leveraging advanced algorithms and real-time data, our system intelligently plans routes, considering factors such as RVM locations, waste volume, traffic conditions, and vehicle capacity.

electrical collection truck

Designed for a sustainable micro transportation...

· Doors opening 90 degrees in both directions, a high seating position and a large ingress zone provide easy access into vehicle.

· You can enjoy silent, tailpipe emission free drive thanks to %100 electric power pack even on a 25% slope at fully loaded.

· Bad Weather? You don't have to compromise on your comfort and safety.

· Bee 1 offers reducing your operational costs by 90% with an affordable initial acquisition price.

· Charge your vehicle in 3.5 hours with nearest 220V household socket.

· 70-150 km electric range covers a daily usage of most customers, however also can be upgraded on your demand.

Range
70-150 km

Top Speed
55 kph

Charge Time
3.5 hours

Payload
350 kg

Load Capacity
1.350 L

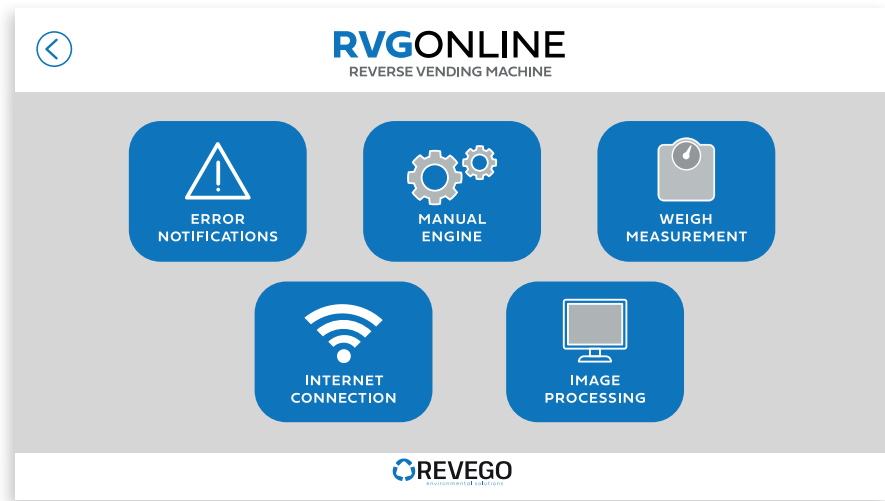Low
Operational
Cost

Charge From
Household
Outlet

100%
Electric

REVEGO SMART COLLECTION TRUCK

RVG Online / RVM Operating Software

RVG Online serves as the backbone of Reverse Vending Machines, managing key functions such as user interaction, transaction processing, and data management. This software ensures seamless operation and reliability, enabling efficient recycling and accurate deposit handling. With user-friendly interfaces and robust backend capabilities, our operating software optimizes RVM performance, enhances user experience, and facilitates effective waste management.

RVGONLINE
REVERSE VENDING MACHINE

ERROR NOTIFICATIONS

MANUAL ENGINE

WEIGH MEASUREMENT

INTERNET CONNECTION

IMAGE PROCESSING

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RVG Api's / Application Programming Interfaces

RVG APIs (Application Programming Interfaces) facilitate seamless integration and communication between Reverse Vending Machines and external systems or applications. By providing standardized methods for accessing RVM data and functionality, these APIs enable developers to build custom solutions, such as mobile apps, reporting tools, or backend systems. With RVG APIs, organizations can enhance operational efficiency, automate processes, and unlock new possibilities for recycling management and innovation.

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