



TOMRA
S1
Rugged

Up to the challenge, in any conditions



STANDALONE LINE



Make more time for your store

Minimize staff interruptions with a more efficient reverse vending machine. The TOMRA S1 Rugged's storage bin can hold one-third more than the previous model, which means fewer bin changes, more uptime, and less staff time spent managing your machine.



Choose the super-durable solution your environment requires

The TOMRA S1 Rugged is specially designed to withstand demanding use and exposure to the elements in metropolitan areas. With top-of-the-line system integrity and resistance to wet conditions in semi-outdoor locations, your reverse vending machine is up to the challenge.

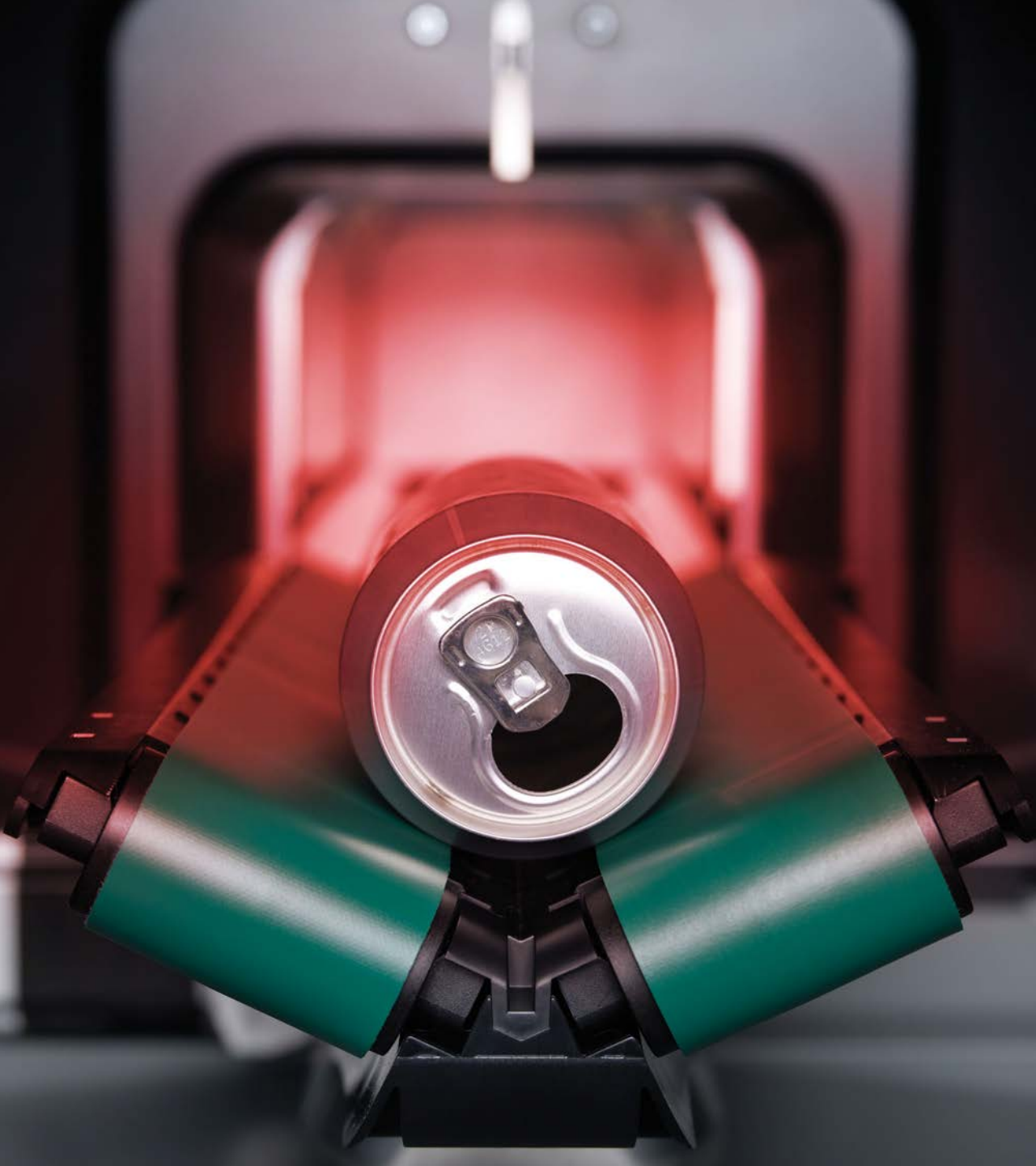


Create a smoother user experience

Satisfied redeemers will keep coming back and will spread the word about the best recycling experience in town. Powered by TOMRA Flow Technology™, the TOMRA S1 Rugged accepts containers in a smooth, fast flow, with simple on-screen instructions that are easy to read – even in bright sunlight.

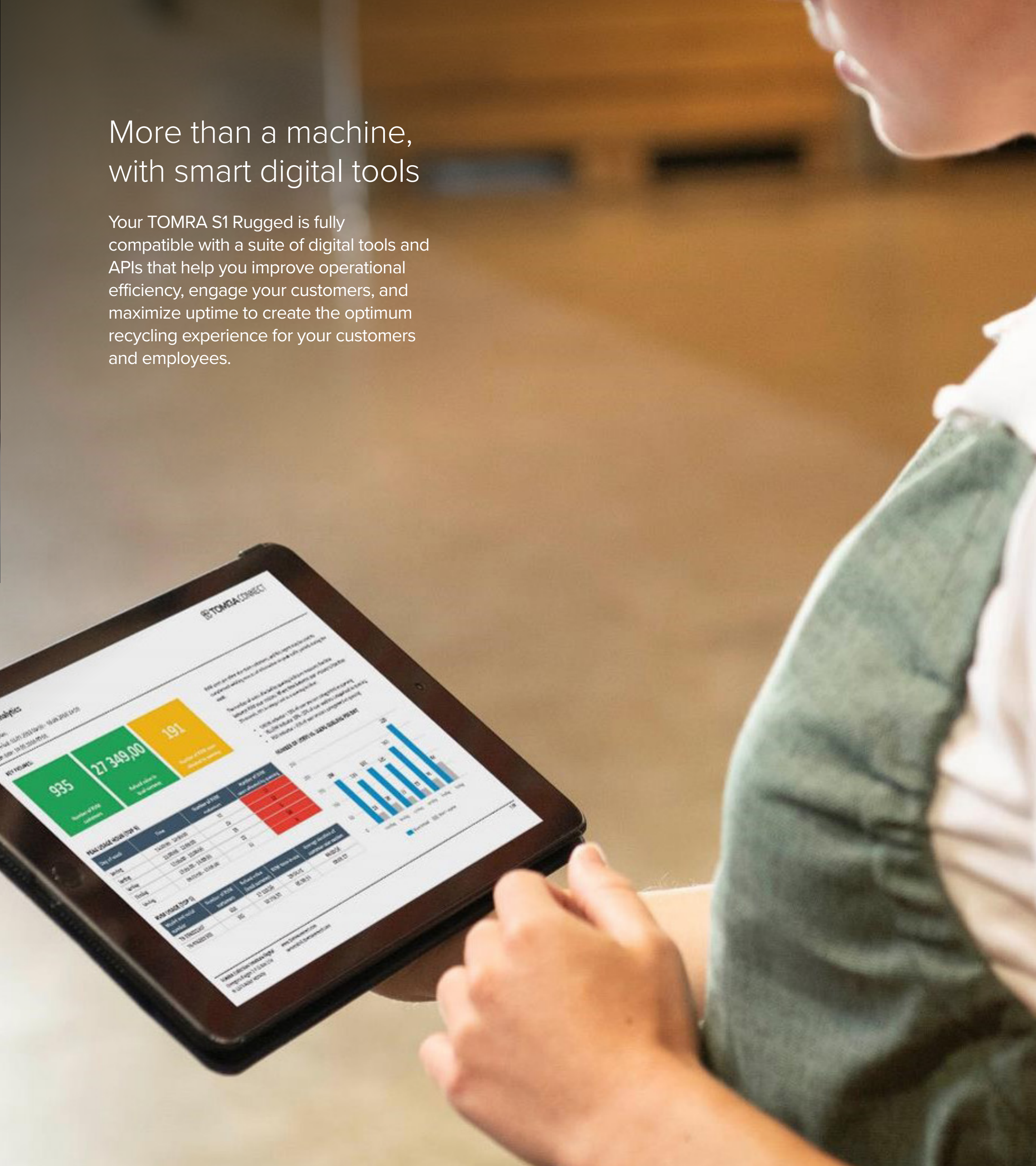
Be ready to go
when redeemers
come to recycle

Collect more cans, plastic bottles and glass bottles with a machine that's easy to keep up and running. Between the TOMRA S1 Rugged's smooth user experience, high-capacity and a support team that's always at your service, redeemers can count on you to be ready for them whenever they're ready to recycle.



More than a machine,
with smart digital tools

Your TOMRA S1 Rugged is fully compatible with a suite of digital tools and APIs that help you improve operational efficiency, engage your customers, and maximize uptime to create the optimum recycling experience for your customers and employees.



Retailers help the world recycle

Deposit return systems (DRS) for beverage container recycling help keep valuable resources in a continuous loop of use and reuse. At TOMRA, we call this process Clean Loop Recycling.

As a retailer, you're at the heart of Clean Loop Recycling. You play a critical role at the point where consumers buy and return their containers.



Let's put recycling to work for you

Choosing to partner with TOMRA means creating a **great recycling experience for your customers**, making a **smart investment for your store**, and choosing a solution that brings **peace of mind and excellent support for your operations**.

TOMRA S1™ Rugged

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MEASUREMENTS*

Dimensions [W x D x H]	816 mm x 1100 mm x 1792 mm
Infeed height	1210 mm
Adjustment range for height	+25 mm
Footprint	0.9 sqm
Weight ¹	323 kg ¹

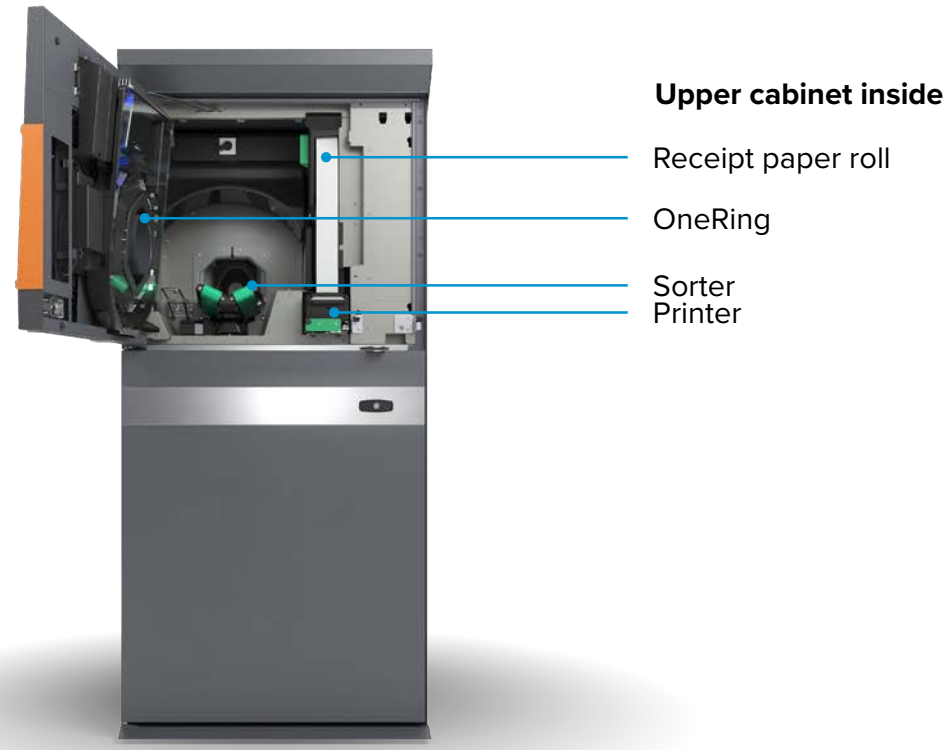
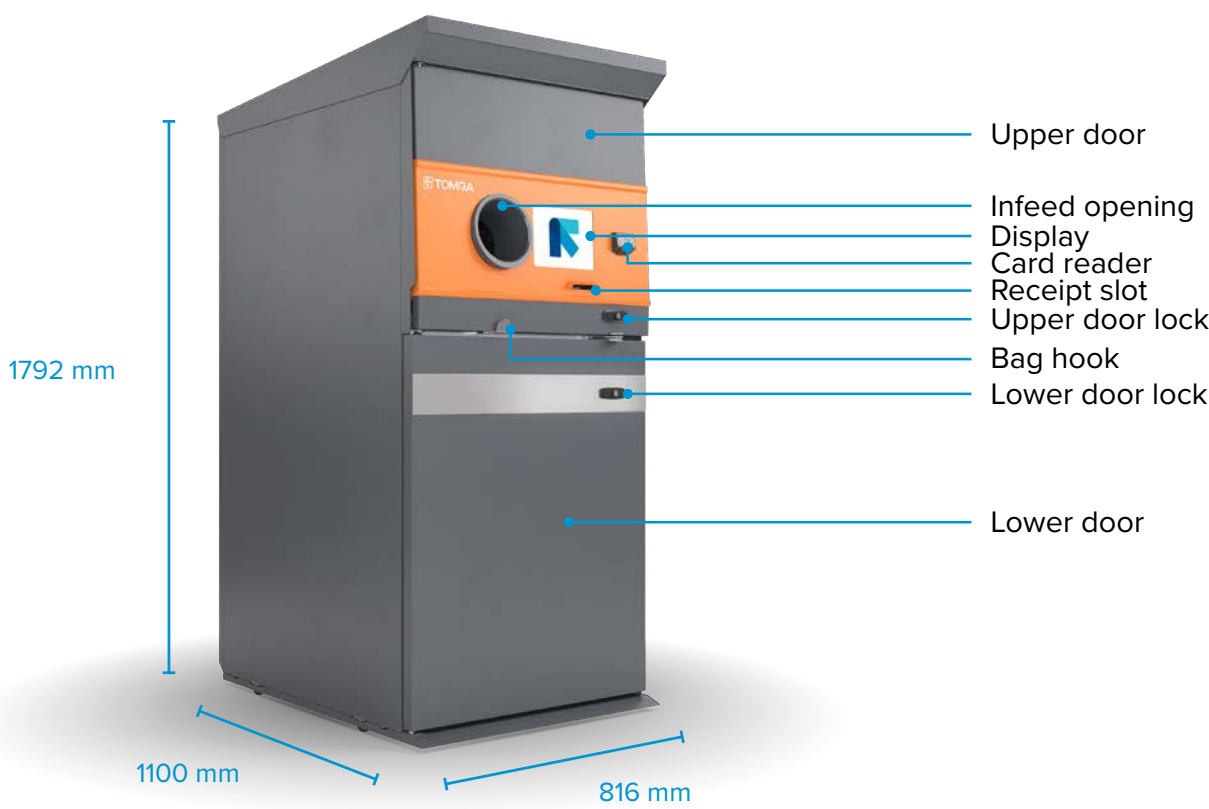
STANDARD CONFIGURATION*

Machine type	Standalone reverse vending machine
Bin unload direction	Front unload
Number of cabinets & bins	1 cabinet, 1 bin
Compactors *	PET crusher / Can crusher / Mix crusher (cans, PET bottles), Glass crusher. Drop for one-way glass bottles or refillable PET bottles *
Colors	RAL 7042 [possible to wrap machine for a custom look]
User interface	Display: 10,4” touch display with high brightness, suitable for direct sunlight exposure, video and sound capabilities, user guidance on machine screen
Printer:	Thermal printer

* Compactor selection may depend on the selected type of power supply on the machine (1ph/3ph).

RECOGNITION

Recognition technology	TOMRA Flow Technology™ (360° instant recognition, shape recognition, full container detection, barcode recognition, metal detection)
Speed capability ²	Up to 45 containers per minute ²



STORAGE CAPACITY*

Accepted containers	Up to 3 types of non-refillable containers (plastic bottles, cans and glass bottles), and 1 type of refillable container (PET)
Storage capacity per bin ³⁻⁴	PET bottles: Up to 1100 (compacted, 0,5l) ³ Cans: Up to 3200 (compacted, 0,33l) ³ Glass bottles: Up to 350 ⁴
Container sizes (min/max size)	Bottles: 50-130 mm x 85-380 mm (D x H) Cans: 50-100 mm x 80-200 mm (D x H)

ENVIRONMENTAL

Humidity	Maximum 90% relative humidity, non-condensing
Temperature	+0°C to +40°C / +32°F to 104°F
Noise *	Glass bottles: Lw,d = 90.8 + 4 dBA / Lp,d@0.5m = 77.5 + 4 dBA PET bottles: Lw,d = 81.1 + 4 dBA / Lp,d@0.5m = 67.8 + 4 dBA Aluminum cans: Lw,d = 80.3 + 4 dBA / Lp,d@0.5m = 67.0 + 4 dBA IPX4 according to EN 60529
IP code	

* Measurements were performed based on ISO 9614-2.

ELECTRICAL

Power consumption Mains *	Idle 59 W – Max. 2 kW 400 V 3 ph 50 Hz, 16 A fuse / 208 V 3 ph 60 Hz, 20 A fuse, C-characteristics (dedicated grounded mains supply) 230 V 1 ph 50 H, 13-16 A fuse, C-characteristics (dedicated grounded mains)
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* Depending on compactor selection.

CONNECTIVITY

External IT interface	LAN (Ethernet TCP/IP), POS compatible
Digital tools	Fully compatible with TOMRA's portfolio of digital products and APIs

* May vary in different countries due to variations in beverage container materials, shapes and sizes.

¹ May vary according to packaging.
² Performance vary across markets, deposit regulations and system requirements.
³ Capacities will vary with object mix, type and system configuration.
⁴ Weight limited.



Get in the Loop at tomra.com/reverse-vending



TOMRA CERTIFICATION
TOMRA SYSTEMS ASA has implemented and maintains a Quality and Environmental Management System which fulfils Nemko's provisions for Management System Certification and the requirements of standards NS-EN ISO 9001:2015 and NS-EN ISO 14001:2015, with the scope described by the organization on 2018-05-29. The certification covers the development and delivery of automated systems for recycling.



LEGAL COMPLIANCE
The CE mark on this product confirms compliance with the following European Directives: 2006/42/EU, Community Legislation on Machinery. 2014/30/EU, Electromagnetic Compatibility (EMC). 2011/65/EU, Restrictions of Hazardous Substance (RoHS). 2012/19/EU, Waste Electrical and Electronic Equipment (WEEE).

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TOMRA Collection

TOMRA Collection is part of the TOMRA Group, which is Leading the Resource Revolution by transforming how we obtain, use, and reuse our world's resources.

With approximately 85,000 installations across more than 60 markets, retailers and consumers around the world rely on our reverse vending machines to collect more than 46 billion used bottles and cans each year, which can be recycled into new containers.

Clean Loop Recycling is the easy and rewarding way to make choices that make change.

Get in the Loop at tomra.com

