

FLOW TECHNOLOGY™

360° RECOGNITION



Tomra Flow Technology™ is the first technology worldwide to incorporate a 360 degree instant recognition system into a reverse vending machine.

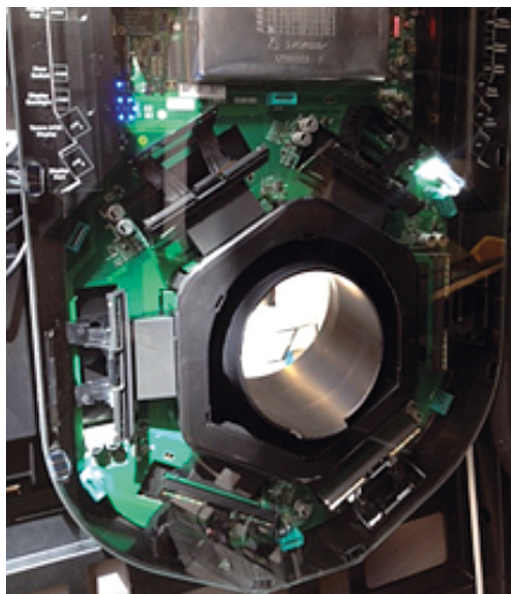
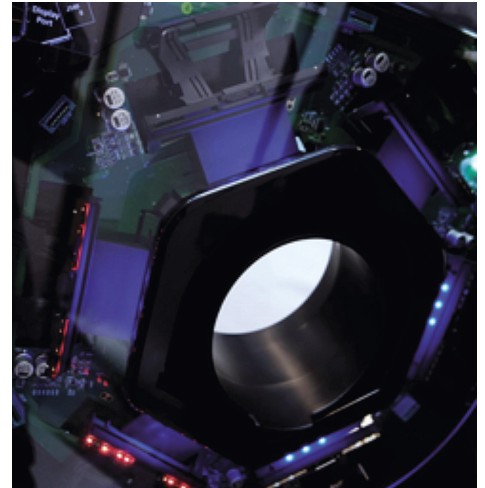
Flow Technology™ features

Faster: Detection of barcodes and security marks instantly.

Multi Shape: Allows to manage and receive containers, impossible to be recognized with other technologies.

More Reliability: State of the art technology.

Cleaner: Its intelligent design and intuitive interfaces reduce and simplify the need for cleaning.



FASTER

The Ring is the brain and eyes of **TOMRA** Flow Technology™

OneRing cameras:

- The OneRing reads barcodes and security markings using six cameras with a 360-degree combined visual field. There is no need for container rotation.
- Reading of the bar code and safety markings is done instantly. It does not slow down the RVM.
- A triple reflection mirror system ensures that both small diameter and large diameter containers can be recognized.
- The high degree of redundancy of the recognition system optimizes the recording quality.
- The recognition system generates 1GB of data that is processed every second, providing protection against fraud.

MULTI SHAPE

- Thanks to barcode and safety marks 360 degree reading, most containers can be recognized, even those that cannot be rotated.
- The conveyor is designed without surfaces where containers can rest. Therefore, regardless of the shape, the containers are carried through the RVM.
- All surfaces that eventually get physically in contact with the containers are smooth, to avoid unintentional stops.



MORE RELIABILITY

- TOMRA Flow Technology™ reduces the number of processors in the system, thus minimizing the risk of failure.
- TOMRA Flow Technology™ is produced with modern manufacturing technologies that require fewer parts, with more functionality per part.
- A modular design with standardized (but proprietary) parts contributes to reduced RVM downtime when service is required.

CLEANER

- TOMRA Flow Technology™ does not require rotation, therefore, the liquid spills and odors from the containers are reduced.
- Spills and dirt accumulated in the machine can be easily removed as surfaces are smooth and easy to clean.
- The OneRing is designed so that dirt cannot fall / accumulate on optical surfaces. This device tilts five degrees (in relation with vertical axis) to avoid a greater accumulation of dirt.

NEW CONVEYOR:

- RVM with TOMRA Flow Technology™ has a conveyor that can be easily removed without tools.
- A metal sensor inside the conveyor is driven and communicates wirelessly with the conveyor docking station.
- There are few parts and surfaces on the conveyor where dirt can accumulate.
- All surfaces where dirt can be accumulated are accessible by a towel.

