

Recycler Guide, TOMRA S1 Rugged

90376000 & 90476000



Original

Contents

Disclaimer.....	3
About this guide.....	4
Safety instructions.....	5
Disassembly instructions.....	7
Disassemble the TOMRA S1 Rugged.....	7

Disclaimer

This Recycler Guide is intended only for information purposes. It does not guarantee the composition of any product or that the product will retain a specific composition for a specific period.

The Recycler Guide provides information on the disassembly process of a product to assign the components to the correct recycling channels. The values given are only valid in this specified context and cannot be used to create the environmental compatibility assessment of a product.

Reuse of disassembled components is not permitted. TOMRA therefore assumes no liability for errors or consequences that may result from the use of this information for anything other than assigning the product components to the correct recycling channels.

About this guide

This product contains electrical and electronic components that should be recycled by a specialist electronics recycler. Disposal and recycling of products containing electrical and electronic components may be governed by national environmental legislation.

This guide provides information pertaining to the decommissioning and recycling of TOMRA reverse vending machines and backroom equipment pursuant to the European Community directive 2012/19/EU on waste electrical and electronic equipment (WEEE).

This information shall identify the different EEE components and materials, as well as the location of dangerous substances and mixtures in EEE so that they can be properly handled. If you have any questions or feedback regarding this guide, please contact us on www.tomra.com.

Safety instructions

Introduction

TOMRA Systems ASA is not liable for any damage caused by incorrect actions taken during the disassembly of the product/system.

The recycler is responsible for ensuring the safety of its employees performing disassembly of TOMRA products.







Safety symbols

Safety symbols are used on the safety labels on TOMRA machines. The table below lists the commonly used symbols and explains what they mean. Not all warnings will be relevant for all products.



NOTE: These symbols are designed for machine use during operation. Not all warnings may be relevant for the purpose of recycling but may be useful to understand the components that are being disassembled.

Mandatory actions

Symbol	Description
	Refer to the instructions.
	Use protective gloves.
	Use ear protection.
	Use eye protection.
	Switch off power before carrying out maintenance or repair.
	Disconnect the mains power cable before carrying out maintenance or repair.

Prohibited actions

Symbol

Description



Do not reach in.



Do not clean with a hose or spray with water.



Do not step on this surface.

Warnings

Symbol

Description



General warning sign. Indicates a warning, caution or presence of a hazard, specified by text or symbol.



Electricity hazard:

- Disconnect power before opening or handling
- High voltage present
- No serviceable parts inside



The system can start without warning.



Drawing in and crush hazard. Keep hands and clothes clear.



Indicates an overhead obstacle.



Tip-over hazard. The machine is top-heavy and may tip over when transported.

Disassembly instructions

Disassemble the TOMRA S1 Rugged

Part ID

TOMRA S1 Rugged (90376000), TOMRA S1 Rugged 1ph (90476000)

Recommended tools

- Socket wrenches 10, 13 and 17 mm
- Torx screwdrivers T20, T25 and T30
- Hex key 4 mm
- Crosshead screwdrivers PZ1 and PZ2
- Side-cutting pliers



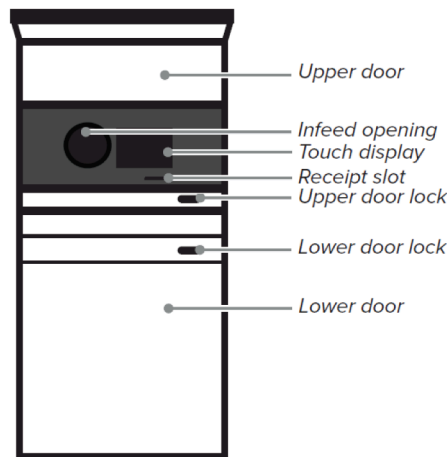
Disassemble all parts and sort the components per material types listed below. Do not mix material types.



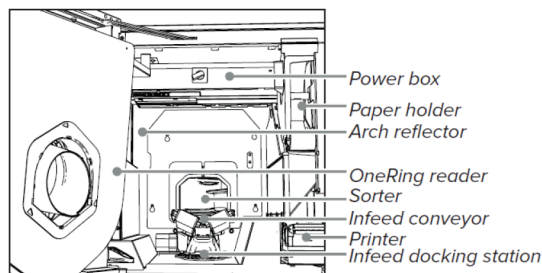
NOTE: Circuit boards shall be destroyed/ grinded.

Main parts

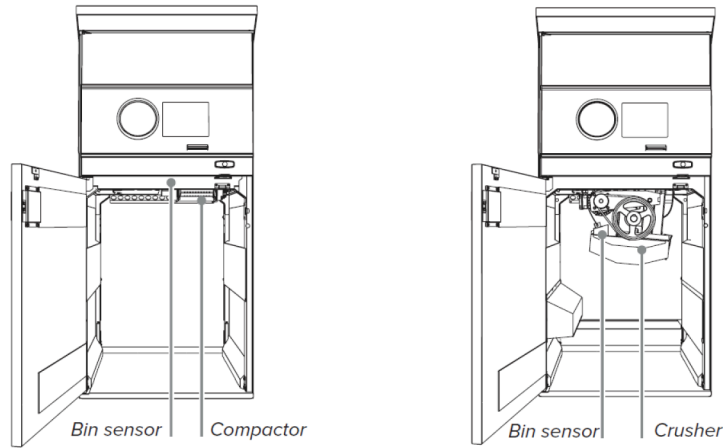
Outer cabinet



Inside upper cabinet



Inside lower cabinet



Material types



NOTE: There are variants of this machine, minor weight differences may occur.

Material	Weight (kg)
Steel and iron	263.0
Aluminium	3.0
Electrical, electronic and electromechanical (EEE) parts	25.0
Plastic	8.5
Rubber	0.2
Glass	5.2

Recommended disassembly procedure

Step	Materials
1 Remove all the doors and covers.	Steel
2 Remove the internal components: <ul style="list-style-type: none"> • Infeed conveyor • Infeed docking-station • Arch reflector • Paper holder • Printer • Camera unit • Power box 	Steel, EEE parts (cables, circuit boards), plastic
3 Remove the conveyors, the sorter and the compactor or glass crusher	EEE parts (cables)
4 Remove the cables.	Steel
5 Disassemble the framework	Steel, EEE parts (cables, circuit boards, motor), plastic

Step

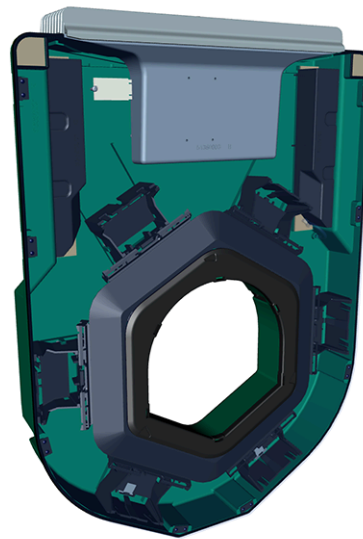
6 Disassemble the assembled units

- MMI unit (touch display)
- OneRing reader*
- Infeed conveyor
- Infeed docking-station
- Sorter
- Compactor or glass crusher
- Sorter conveyor

Materials

Steel, aluminium, EEE parts (cables, circuit boards, motor), plastic, glass

*The OneRing reader has a glass cover that shall be removed and recycled.





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