NEW

TOMRA

TOMRA 4A

Optical Sorter for Potatoes



Have it all

CAPACITY

100 t/h

of potatoes

YIELD

3 way

sorting

ACCURACY

92 %

on foreign material

TOMRA 4A

HAVE IT ALL: capacity, accuracy and more to sell, from one robust machine. The TOMRA 4A sorts your potatoes going into storage at up to 100 tons per hour, taking out dirt, clods, stones and rot. When they come out of storage, the same machine sorts quality defects too.

- Robust mechanics, built to run at up to 100 tons per hour.
- Pulsed LED+ optics that check both sides of every potato, with infrared to see what the eye can't.
- The XCD user interface: clear, simple, easy to learn and adjust.
- Flexible threeway sorting: out of spec potatoes get their own stream, so you can still sell them.





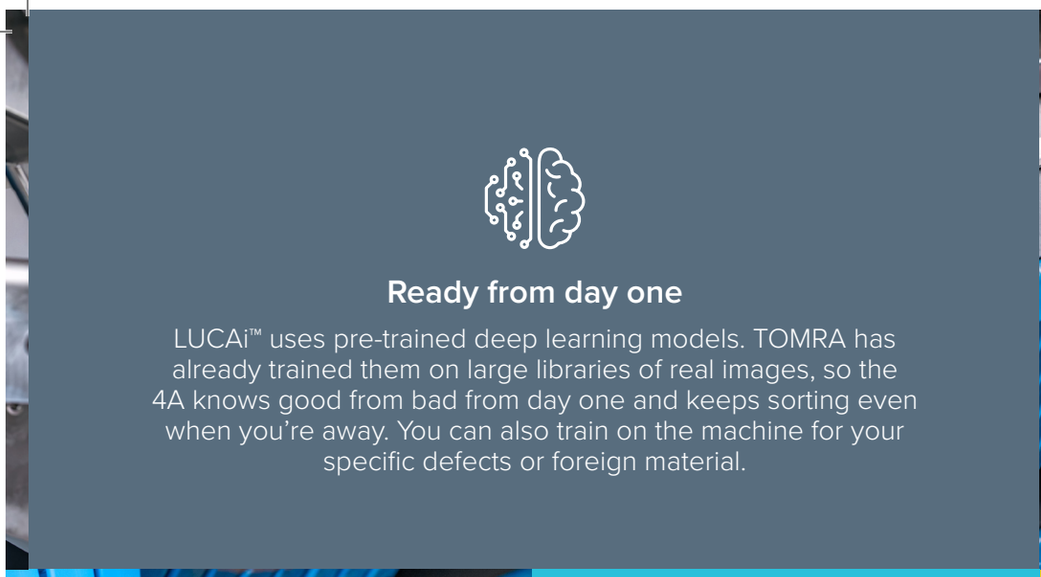


→ **More to sell from every crop**
Your contracts are based on volume, so every percent of yield counts. Worldwide, about 14% of food is lost between harvest and the shops.[1] The 4A helps you overcome rising costs by retaining out of spec potatoes in their own stream, so you can sell them.

→ **Stop paying to store dirt**
Wherever you farm, you pay for every ton in storage, dirt and stones included. Let the 4A take the dirt, stones and rot out first, so you only pay to store potatoes.

→ **Fewer hands on the line**
Sort up to 100 tons per hour with just one person instead of a full picking crew.

[1] FAO, The State of Food and Agriculture 2019 (global estimate, from harvest up to retail).
*Performance figures based on TOMRA internal testing



Ready from day one

LUCAi™ uses pre-trained deep learning models. TOMRA has already trained them on large libraries of real images, so the 4A knows good from bad from day one and keeps sorting even when you're away. You can also train on the machine for your specific defects or foreign material.





Easy to run

The XCD user interface is clear, simple, easy to learn and adjust. It's the same interface as on other TOMRA sorters, so your operators get up to speed fast.

Gentle on potatoes

Good potatoes get a soft landing. Cushioned ejection fingers are available as an option.



Key features

One machine, into and out of storage	Going into storage, it runs at up to 100 tons per hour and removes foreign material, clods, stones and rot. Coming out, it also sorts quality defects, at the lower throughput that job needs.
Capacity without compromise	Up to 100 tons per hour with 92% accuracy on foreign material, even at 20% incoming defect loads.*
Sees beyond the visible	Pulsed LED+ optics inspect both sides of every object in high resolution, and infrared channels see beyond what the eye can.
Powerful ejection	A robust, heavy-duty build with fast ejection fingers that knock out rocks, stones and other heavy foreign material.
Flexible threeway sorting	Two dedicated sets of ejection fingers, one for foreign material and one for out of spec potatoes. So you sell more of every ton you harvest, at full capacity.



Store potatoes, not dirt and stones

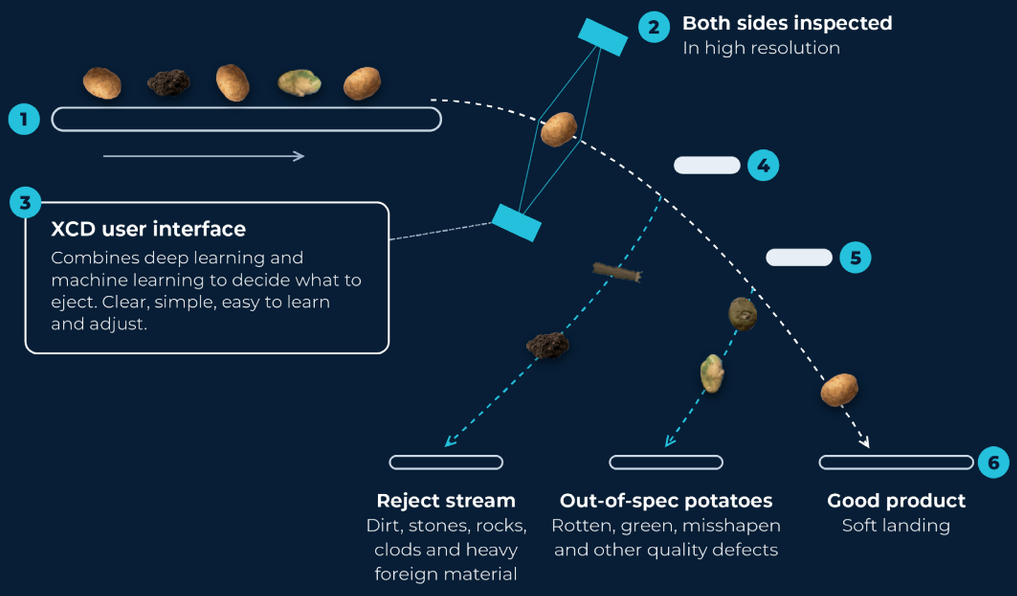
Sort with fewer people on the line

More to sell from every harvest

100 tons per hour without losing accuracy

One machine, into and out of storage

Working principle



1. Feed
2. Inspect both sides
3. AI decides
4. Eject foreign material
5. Eject out-of-spec
6. Land gently

DIMENSIONS

Width	Length	Height
3295 mm	**2359 mm**	**2658 mm**
129.7 in	**92.87 in**	**104.6 in**

SPECIFICATION

Capacity	Up to 100 tons per hour
Use	Into and out of storage
Sorting	Flexible three-way sorting: good product, outofspec, foreign material
Inspection	Two-sided Pulsed LED+, with infrared channels
AI	LUCAi™ deep learning + machine learning
Interface	XCD user interface
Handling	Soft landing, optional cushioned ejection fingers

Ready to get more from every crop?

Talk to our sorting experts at

www.tomra.com/food

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