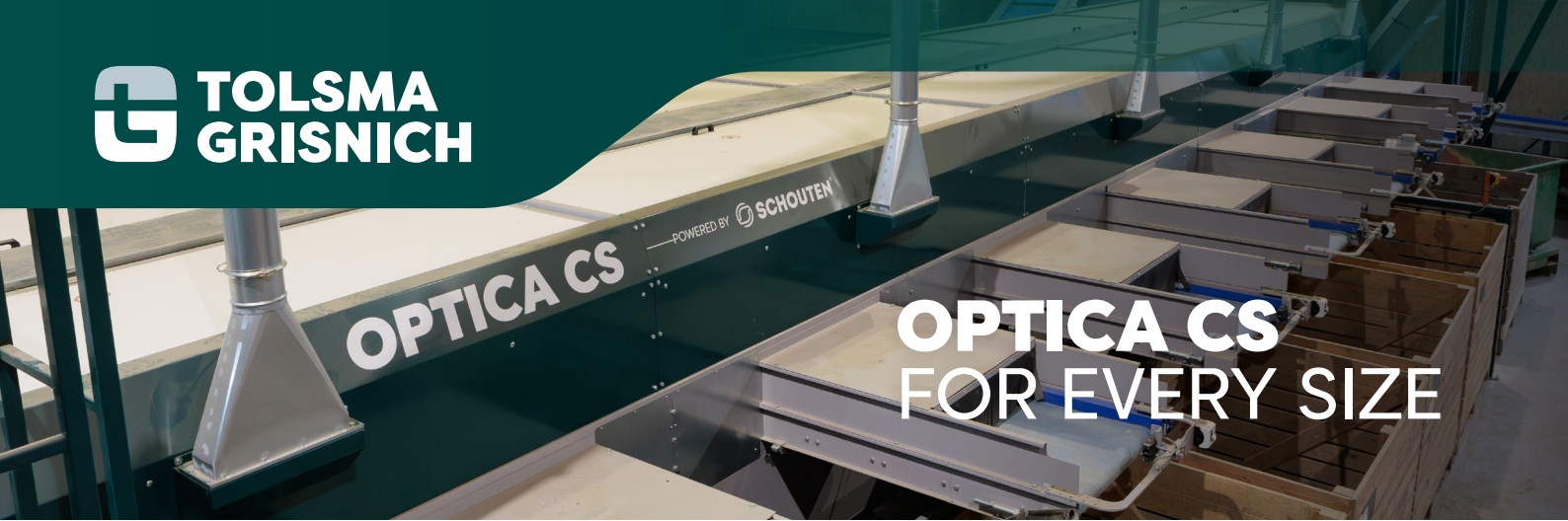




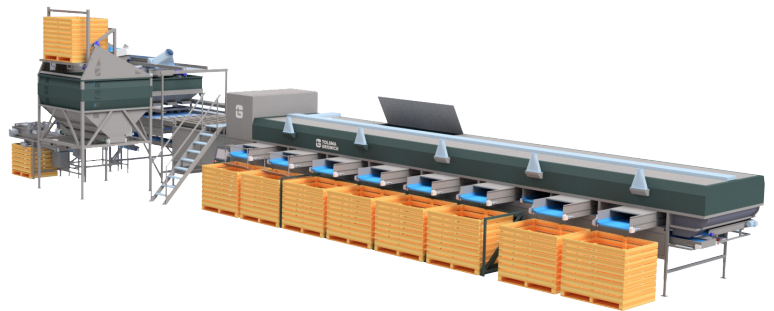
OPTICA CS

POWERED BY SCHOUTEN

OPTICA CS FOR EVERY SIZE

Up to 25% more accurate than mechanical sorting.

The patented Optica CS is an optical sorting machine that accurately sorts (S) based on square size and separates clods (C). The farmer earns money by sorting more accurately, with more tubers sorted into the more expensive main grade. Additionally, less attention needs to be paid to clods during sorting, resulting in significant labour savings.



What are the unique advantages of the Optica CS?

- ✓ Average capacity of 1.2 tons per lane
- ✓ In-house development of hardware and software
- ✓ Great user-friendliness
- ✓ All data is visible
- ✓ Minimal crop damage
- ✓ Clods and shape defects are sorted

Line-up System & Single-File System:

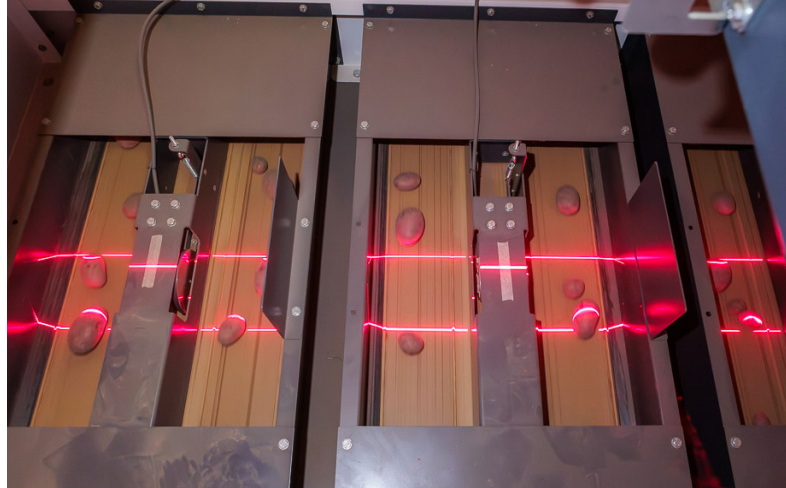
- After the discharge conveyor brings the product to the input side of the line-up system, the product is lined up on the strings one after the other. The excess quantity rolls sideways and is then returned to the beginning by the flat belts.
- A shaking bin ensures that the excess product is fed back to the strings. The applied shaking bin prevents potato buildup (bridging).
- The potatoes are then singled by the speed difference between the 3 string beds. The last string bed rotates at the same speed as the main transport and delivers the lined and singled potatoes to the Optica.

Vision:

- The singled potatoes then pass through the vision section where a 3D scan of the potatoes is taken.
- The software® generates a 3D model, allowing or highly accurate square size determination, and this data is quickly processed to achieve high throughput.
- In addition to this precise size determination, the Optica distinguishes a potato from a clod or a stone.
- The Optica CS assesses the external shape of the potato but not its internal properties.

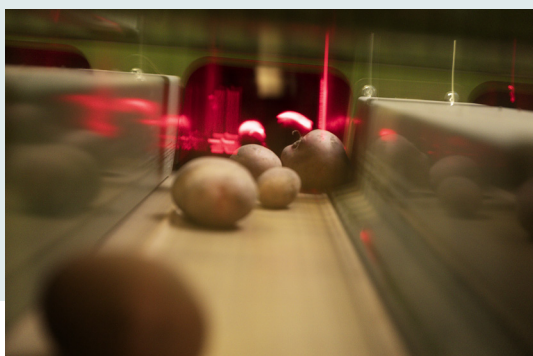
Size separation:

- The identified potatoes, clods, and stones are directed to the correct exit through phased air valves.
- The unidentified product is returned. For example, when the product is double-layered or moved while passing under the camera.



Your benefits:

- Average capacity of 1.2 tons per lane.
- Tests show that the Optica is up to 25% more accurate compared to mechanical sorting with elongated potatoes (such as Spunta's, Agria's). Seed potato growers can earn money by sorting more accurately.



- Schouten has been involved in the seed potato sector since 1937 and has developed and manufactured both the hardware and software of the machine itself. Therefore, quick (online) service can be provided.
- User-friendliness is high. The adjustment options are simple and clear.
- Schouten has built a history in sorting flower bulbs and seed potatoes. Minimal damage due to minimal drop heights is of great importance for these valuable crops. Therefore, minimal damage has been the main focus during the design phase.
- The Optica serves as an information source for weight, quantity, length, and tare.

Types	Lanes	Outputs	Capacity
Optica CS 08-08	8 lanes	8 outputs	12 tons per hour
Optica CS 08-09	8 lanes	9 outputs	12 tons per hour
Optica CS 12-08	12 lanes	8 outputs	18 tons per hour
Optica CS 12-09	12 lanes	9 outputs	18 tons per hour

N.B. The mentioned average is based on practical data from recent years. However, the capacity always depends on the coarseness of the gross batch. With a fine batch, the capacity decreases proportionally.

- Excluding discharge and/or turning belts for outputs (these are offered separately).
- Excluding return belt (offered separately).

Curious about the possibilities in your situation? **Call: +31 (0)527-636465** for more info.



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