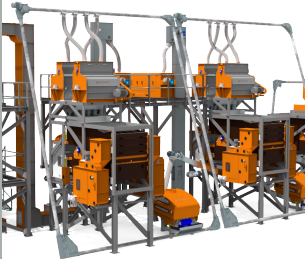**Elica ASM S.r.l.**

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ELICA systems solutions

MACHINES	**TRANSPORT EQUIPMENT**	**DEHULLING EQUIPMENT**	**TURN KEY SOLUTIONS**
Pre-cleaners	Bucket elevators	Dehullers for: - oil chrushing plants - installations for dehulling a sunflower seeds for kernels	Complete sunflower kernels processing installation
Fine cleaning and calibration separators	Z-elevators		Complete sunflower dehulling installation for oil-crushing plants
Destoners	Chain conveyors	High performance screen cleaner for separating into fractions	Complete feed mill installation
Gravity tables	Closed loop chain conveyors		Complete seed preparation installation
Paddy separator	Belt conveyors	Hulls beaters	Complete silo plant with handling equipment
Seed treaters	Screw conveyors		Complete pulses processing installation
Optical sorting machines	Flexible screw conveyors		
Hammer mills	Sweep chain conveyors		

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QUASAR
The Intelligent Optical Sorter

■ High-Resolution cameras

■ Advanced SWIR infra-red sensors

■ True-Shape technology

■ Advanced object feature analysis

■ Higher throughput

■ Sniper Ejector Logic

■ New user interface

■ IP65 rating

■ Fully designed in Italy

Elica ASM QUASAR
The Intelligent optical sorter

The ever-stringent quality standards are creating new technical challenges for big and small businesses alike. Helping our customers increase final quality has been the main drive behind the development of Elica ASM sorting technology and lead to the creation of an entirely new optical sorting machine, designed specifically to meet the new challenges in quality control: the Elica ASM QUASAR.

Total accuracy
We developed a completely new optical processing architecture called Logic, which is the heart of the machine. This is a combination of very powerful hardware and advanced software algorithms, that closely mimic how the human brain processes visual information.

QUASAR judges many different parameters at the same time, including colors, textures, shapes and size. Because QUASAR judges all of these parameters as a whole, rather than one by one, it is very accurate in deciding what to keep or reject, and incredibly easy to use.

| Model	Width	Height	Depth
QUASAR 1000	1910 mm	1821 mm	895 mm
QUASAR 2000	1910 mm	1821 mm	1368 mm
QUASAR 3000	1910 mm	1821 mm	1670 mm
QUASAR 4000	1910 mm	1821 mm	2068 mm
QUASAR 5000	1910 mm	1821 mm	2414 mm
QUASAR 6000	1910 mm	1821 mm	2820 mm

Performance features

- **High-Resolution** cameras with **True-Color** image processing technology can easily and reliably detect and reject off-color particles, color and black spot defects as well as scorched pellets.

- **Two-side analysis,** ensuring a complete coverage of the surface of each single object, thanks to cameras placed on both side of the product stream.

- **Advanced SWIR infra-red** sensors to detect foreign materials.

- **True-Shape** technology **differentiates objects by shape and size,** at high speed, enabling the detection of off-shape and off-size particles such as pellet doubles and protrusions.

- **Higher throughput thanks to a dedicated, upgradable optical processing architecture** with high-speed image analysis.

- **Sniper Ejector Logic reduces product loss** to a bare minimum by dynamically adjusting ejector activity according to contaminant type and size.

- **Even easier to use,** with a new user interface and intelligent-learning features.

- **IP65 rating,** fully dust-proof and water resistant, built for reliability in the most demanding environments.

- **Fully designed in Italy.**

Simplified user interface
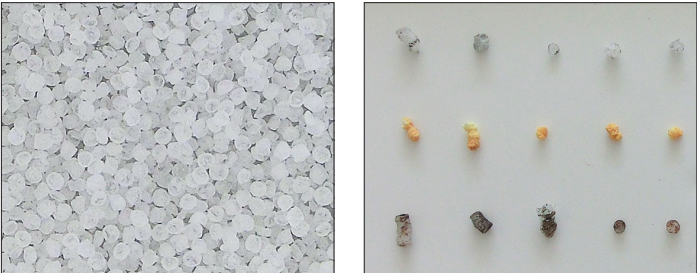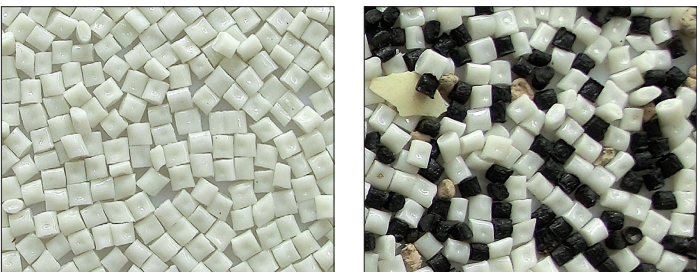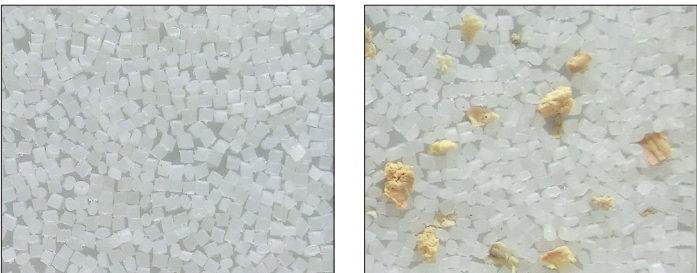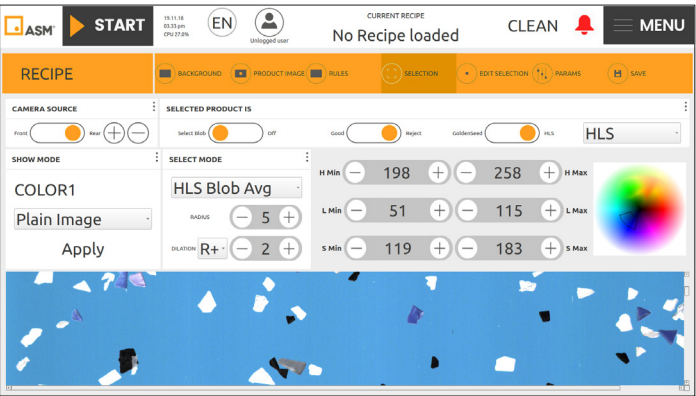
Tap to sort: create a sorting program in 5 minutes
Thanks to the Intelligent-Learning System, creating a program is as simple as taking a snapshot of a contaminated product sample.

The machine takes a picture of the product as it falls, the user can then tap with a finger the defects to be removed. Quasar does the rest, by dynamically creating the correct sorting parameters in order to achieve the best sorting results.

Higher throughput, increased yield
Quasar has the widest chutes on the market, paired with lightning-fast processing speed and unprecedented ejector accuracy. It can sort even the smallest products with minimal false-rejects. Available in models from 1 up to 6 chutes, to satisfy any production need.

Minimal operational costs
Quality construction, energy-efficiency, ease of use and incredible accuracy: these are the qualities that make Quasar a leader not only in performance, but in cost-effectiveness too.
Quasar provides a higher yield, higher throughput and increased up-time in a single, reliable sorting solution.