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ALWAYS BE IN CONTROL OF YOUR QUALITY

ABOUT Q-SERIES

Based on UCY's proven Scalable Sorting Platform, Q-series is your ideal low-cost, high flexibility "quality policeman" enhancing your end product's quality and protecting your equipment. No matter if you're doing a small upgrade to your existing line or planning an entirely new layout, Q-series is your ideal solution everywhere a fully fledged sorter is not economical or compact enough.

BE PART OF THE SOLUTION



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PRECISE SEPARATION

Equipped with advanced technology and intelligent algorithms, specifically tuned to achieve an optimal quality level and providing adequate protection for your grinding mill.



INDIVIDUAL DESIGN

Depending on your individual space and budget requirements, Q-series can be adapted to your existing conveyors and line layout.



QUALITY INSPECTION

Your Q-series detection head doubles as a quality inspector and statistics aggregator. Get accurate long-term insights into your material stream wherever you employ your Q-series machine.



UCY Q-series Sorter Technical Overview

> PRINCIPLE AND AVAILABLE MODELS

- Working widths of 800 - 1200 mm
- Horizontal pneumatic ejection. Existing conveyors and chutes, for example in a manual sorting line, can be adapted in many cases.

> COMPRESSED AIR SUPPLY

- In accordance with ISO8573-1:2010 classes of at least [7:4:4], lubricated operation possible
- Operating pressure typically 4-8 bar (depending on existing conveyor and waste chute design)

> ENVIRONMENT CONDITIONS

- Space for the processing cabinet within a wiring radius up to 50 m
- Operating temperature: + 5 ... +40 *C
- Relative humidity: 5% - 95% (non-condensing)

> STANDARD FEATURES

- Inductive Metal Sensing Unit
- AI-based enhanced object detection, including black object detection without laser
- SWIR camera for distinction of polymers and foreign materials

> INTERFACES / PLC STATE SIGNALING

- Internet connection is optional and recommended
 - Obligatory for remote support via VPN as well as enhanced long-term quality statistics
 - Connection either via Ethernet to customer's network or alternatively via a built-in 4G/5G modem (extra fees may apply in the latter case)
- Signaling of machine state to PLC:
 - Three output bits (SORTING ACTIVE, ERROR and CHECK MANUAL SORTING BELT) connected directly via simple wires. "CHECK MANUAL SORTING BELT" is an optional signal for mill protection applications in cases where a detected heavy or jammed object cannot be reliably ejected.

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