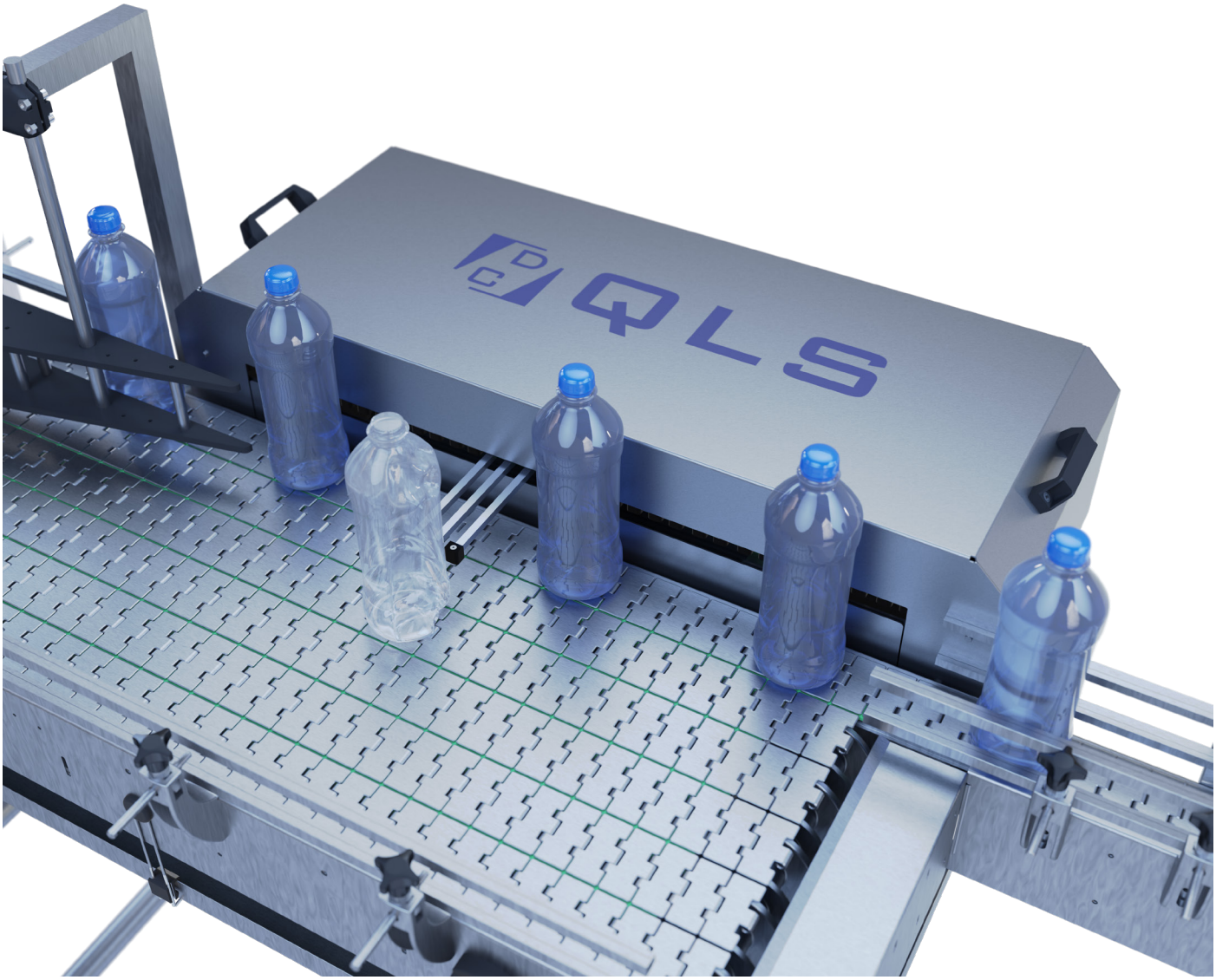
DIGITAL CONTROL

Inspection Systems
Smart Motion Devices



QLS

Quantum Linear Sorting

QLS

This system is designed to reject non-compliant products from the production line or divide production flows, even across multiple separate lines.
Based on multiple diverter segments actuated by an advanced electronic cam system—which move while staying synchronized with the reject conveyor belt—it enables the system to perform precise and smooth rejections. Thanks to the option of setting the number of output segments, the QLS adapts to various container types. This ensures that products are always gently guided during diversion, preventing tipping and avoiding subsequent slowdowns on the production line.
Advanced engineering allows the system to reach speeds of up to 90 meters per minute while maintaining excellent rejection performance, even at high speeds.
Three series are available to meet every customer requirement: **007, 015, and 015/2 Series.**
It also features a dedicated HMI to easily configure all necessary parameters.

007 Series

This QLS series is identifiable by the length of its handling section, which is 700 mm. Inside it, there are 69 segments synchronized with the belt movement via precise Digital Control drivers. The movement cam is fixed and has a stroke of approximately 160 mm, enabling accurate product displacement onto the reject line. The 007 series is recommended for production lines with lower speeds and restricted spaces, thanks to its compact dimensions. The remote electrical panel includes a 7" touch-screen HMI to configure all system parameters.



015 Series



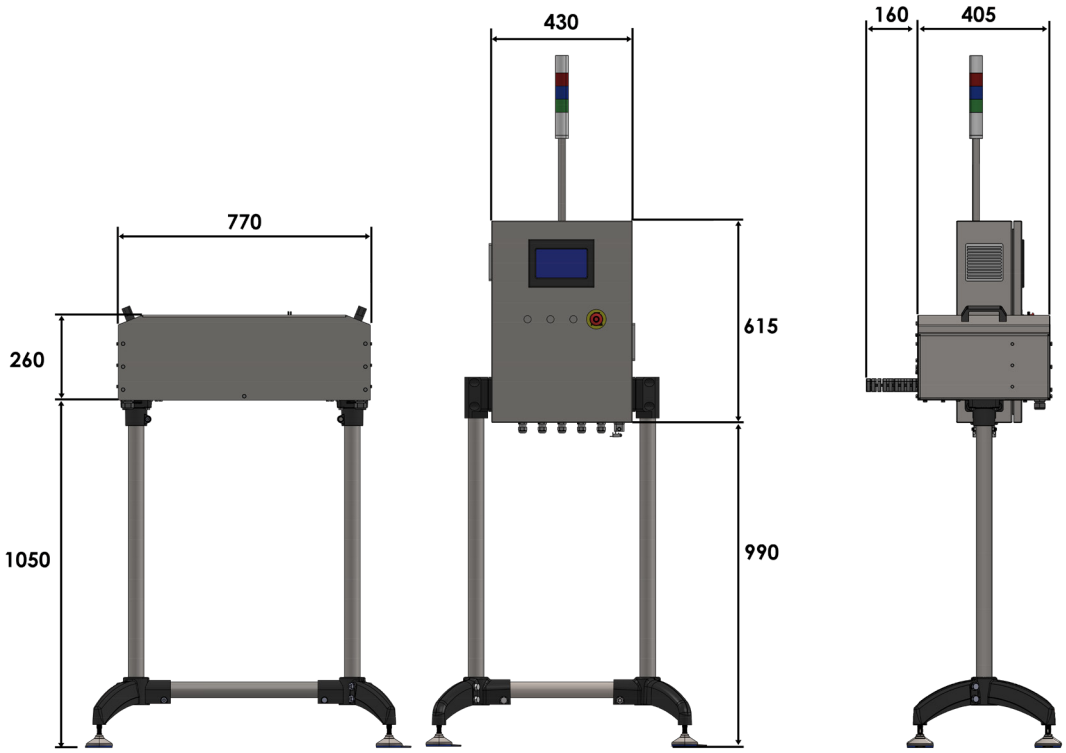
This second series is also identifiable by the length of its handling section, which measures 1500 mm. Inside, there are 118 segments synchronized with the belt movement via precise Digital Control drivers. The 15 Series features a cam that can be modified according to specific requirements, with the various positions saved directly within the format profiles. This rejector is ideal for high-speed lines—tested on belts up to 90 m/min—as it ensures a more gradual rejection process. All systems are equipped with a remote HMI to configure all rejector parameters.

015/2 Series

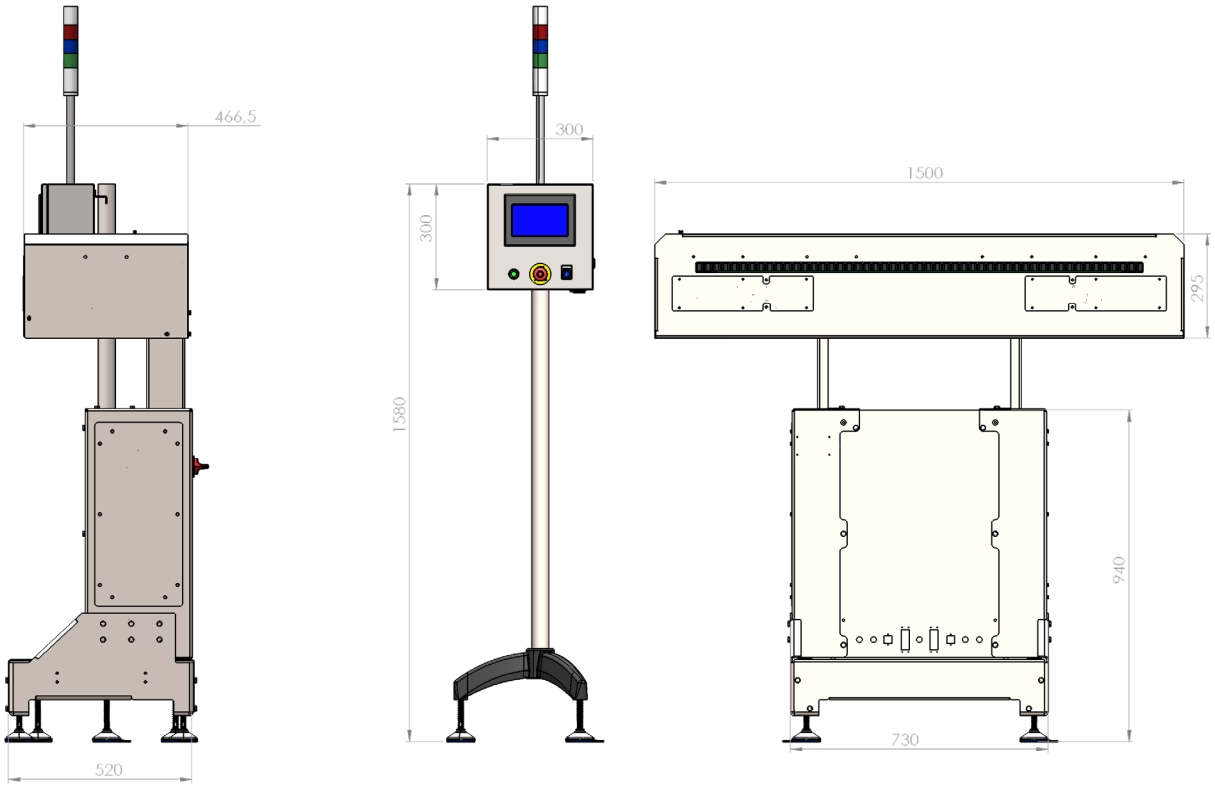
This final series enables rejection or diversion across two different conveyor belt sections. The length of the handling section is also 1500 mm, but thanks to its double cam, it allows for separate rejections. Both cams are length-adjustable to ensure greater adaptability to the production line. The 015/2 Series is recommended for production lines operating at lower speeds compared to the 015, and especially where there is a requirement to reject onto two separate conveyor belts.

Dimensions (mm)

007 Series



015 Series



Technical Specifications

Power Supply	230 Vac 50-60 Hz + Ground
Current Absorption	300 W
Protection	according to EC
Maximum Speed	up to 90 meters/minute
Weight	140 Kg
Display	Optional | TFT 7" Touch Screen
Interface	Ethernet for local connection and internet, OPC-UA, MQTT and Modbus for Industry 4.0
Working Temperature	0 - 45 C°
Order Codes	QLS 007 QLS 015 QLS 015/2



Discover More

QLS

I nostri social

DIGITAL CONTROL S.r.l.
Regione Leiso 113/C, 14050, San Marzano Oliveto, (AT), Italy
Isc. al Reg. Imp. di Asti, C.F. e P.IVA: 01219490057
Tel. +39 0141-856007 Fax. +39 0141-856821
www.digitalcontrol.it email: info@digitalcontrol.it

DIGITAL CONTROL
Inspection Systems
Smart Motion Devices