

# THE HIGH CAPACITY DOUBLE VISION SORTER

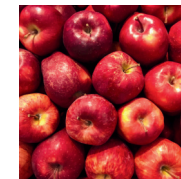


AN **ATS** COMPANY

**INGENUITY** is a **double-vision sensor sorter**. It is equipped with Visible Color and NIR technology (Near Infra Red).

The system detects soil clods, stones, and green potatoes in unwashed potatoes, and for washed potatoes, it identifies rotten products and color defects. Thanks to the 100 channels configuration, **INGENUITY** allows a capacity up to **100 t/h**, for a large agro and industrial production.

The machine is available in a **2WAY** or **3WAY configuration** and the ejection system is by mechanical fingers in a special high-resistance and anti-abrasion material.



**RAYNBOW STD**



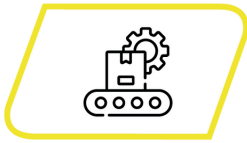
**RAYNBOW High Speed**



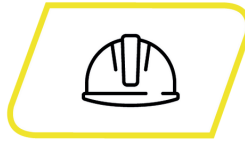
| Model      | Launch year | Double vision | Channels | Resolution | Capacity      | Conveyor speed |
|------------|-------------|---------------|----------|------------|---------------|----------------|
| Raynbow 50 | 2003        | ✓             | 50       | 4x4 mm     | up to 40 t/h  | 50 - 75 m/min  |
| Raynbow HS | 2006        |               |          |            | up to 60 t/h  | 120 m/min      |
| Ingenuity  | 2022        |               | 100      |            | up to 100 t/h | 50 - 70 m/min  |



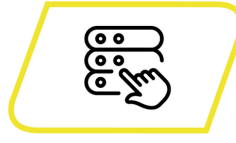
# Benefits



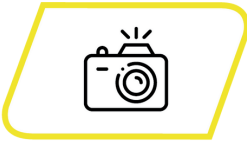
**High production capacity**



**Low maintenance costs**



**Constant selection over time**



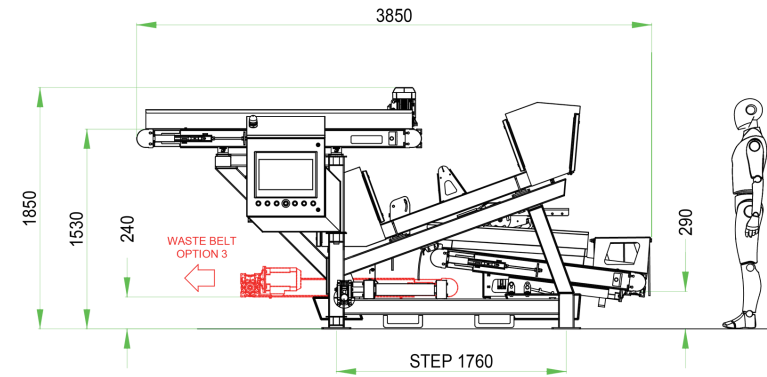
**Automatic capture of images**



**Real time detection**



**User friendly software**



| TECHNICAL FEATURES                        |   |
|---|---|
| Sorting channels                          | 100   |
| Vision area width (L)                     | 2500 mm (100")                                |
| Pixel dimension                           | 4x4 mm  |
| Control and diagnostic device             | Interactive LCD touch-screen monitor          |
| Rejection channel width                   | 25 mm (1")                                    |
| Rejection type                            | Mechanical fingers                            |
| External and/or remote connection         | Ethernet and/or modem                         |
| Conveyor speed                            | 50-70 m/min                                   |
| Power supply and consumption              |   |
| Power supply                              | 3-Ph + Gnd                                    |
| Voltage                                   | 400/480 V                                     |
| Frequency                                 | 50/60 Hz                                      |
| Installed power                           | 4.5 kW  |
| Applied air treatment (pneumatic circuit) | Dehumidification - Filtration - Lubrification |
| Lubricating system (pneumatic circuit)    | Food grade and pharmaceutical compatible      |
| Working pressure (pneumatic circuit)      | 6÷8 bar [87÷116 psi]                          |
| Typical consumption (pneumatic circuit)   | 300 NI/min (10.5 cft/min)                     |
| Max. air flow rate (pneumatic circuit)    | 1200 NI/min (42 cft/min)                      |

