CU-120 100% CONTENT UNIFORMITY







API's



WEIGHT



≤ OEB3

New and innovative in-line solution designed to ensure the quality of each individual tablet or capsule, by combining two main control methods: API's fraction and weight.

The **CU-120** analyses individual dosage from each single tablet or capsule up to a speed of 120.000 tablets per hour and rejects all non-compliant products.

The ideal tool for Content Uniformity Inspection and RTD (Real Time Decision).

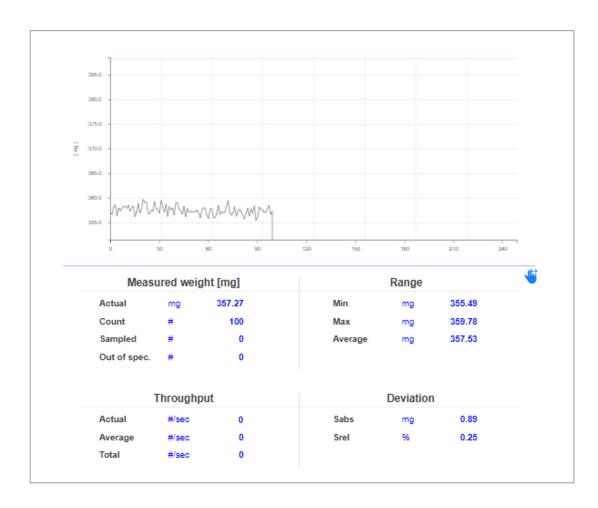
ADVANCE BY TECHNOLOGY

3D MICROWAVE RESONATOR FOR WEIGHT MEASUREMENT

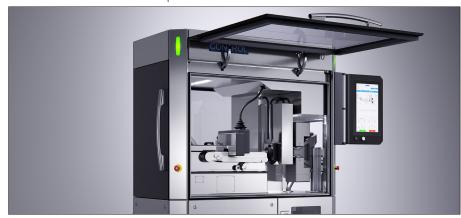
Each product is inspected by the multipoint NIR-SRS "near-Infrared spatially resolved technology" probe to predict APIs concentration, and a 3D microwave resonator allowing to measure individual weight. Various extensive repeatability tests campaigns and industrial case studies have shown that the predictions are within the predicted error boundaries.

The unit include an **encapsulated weighcell**, or a **highly accurate 4-P tester** (measuring weight, thickness, hardness, and diameter), for automatic calibration of the measurement instrument. A linear regression is performed to warranty that the accuracy remains inside the **machine accuracy of +/-1mg (3 Sigma)**.

Data are processed and analysed by hi-speed processors and stored in a user-friendly "step by step" CFR21 acquisition software. Data can easily be exported to an USB memory device, and process data can easily be exported to an up-stream machine or software through OPC UA (e.g. connection to a SIPAT infrastructure or a third-party process equipment).



NIR-SRS probe and 3D microwave resonator



Embedded 4-P tester





WEIGHT



THICKNESS



HARDNESS



DIAMETER

NIR SRS TECHNOLOGY SPATIALLY RESOLVED SPECTROSCOPY FOR **API'S FRACTION PREDICTION**



Equipped with the fasted NIR-SRS technology and an highly precise 3-D microwave weight measurement station this equipment is geared to provide you a very precise Content Uniformity prediction, and to remove 100% of non-compliant products from good products, allowing RTD (Real Time Decision)

The machine can also be used for **R&D** developments, batch recovery/saving, mix-up and counterfeit products.

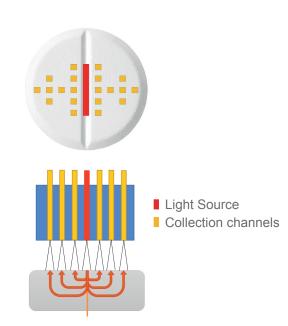
The unit has been developed with an utmost care to the mechanical design allowing fast changeover and affordable format changes.

An utmost care has been taken to simplify the equipment to allow use in a production environment.

Designed to comply with the European Union's CE Guidelines, they are supplied with a manual, safety instructions and wiring diagram.

Our company can assist you for installation on site and help you to develop chemometric models.

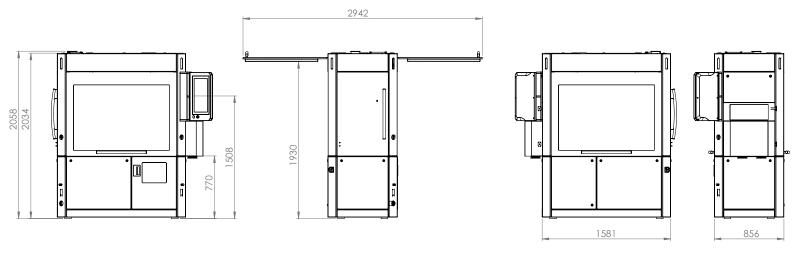
- 100% Content Uniformity test of your products
- Permit Real Time Decision
- Ideal for proving final quality on batch or CM
- Shorten your reject strategy process
- Test physical attributes of your tablets based on conventional sampling methods (weight, thickness, hardness, and length/diameter)
- Inspection machine for batch recovery, prove global batch quality, detect counterfeit product

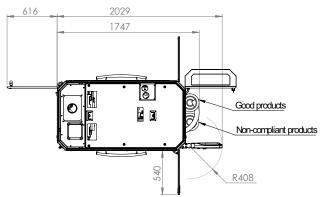


NIR-SRS multipoint probe



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| Technical data : | CU - 120 |
|--------------------------------|---------------------------------|
| Maximum throughput | 120.000 tabs/h |
| Minimum product width | 6 mm |
| Maximum product width | 24 mm |
| Maximum product height | 9 mm |
| Weighing range | 20mg to 2000 mg |
| 3D weight measurement accuracy | +/- 1mg (3 Sigma) |
| Air extraction | Integrated with Hepa filter H13 |
| Requested compressed air | 500L/min - min. 6 bar |
| Noise level | ≤70 dB (A) |
| Power supply | 380V 3ph + N + PE |
| Frequency | 50 Hz / 60 Hz |
| Polymer contact parts | FDA approved |



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