CU-120 100% CONTENT UNIFORMITY







API's



WEIGHT



HARDNESS



THICKNESS



≤ OEB3

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

The **CU-120** analyses individual dosage from each single tablet up to a speed of 120.000 tablets per hour. The data can be used to control an upstream process application, e. g. a tablet press, continuous mixer in a QbD (Quality by Design) approach and all non-compliant products will be rejected.

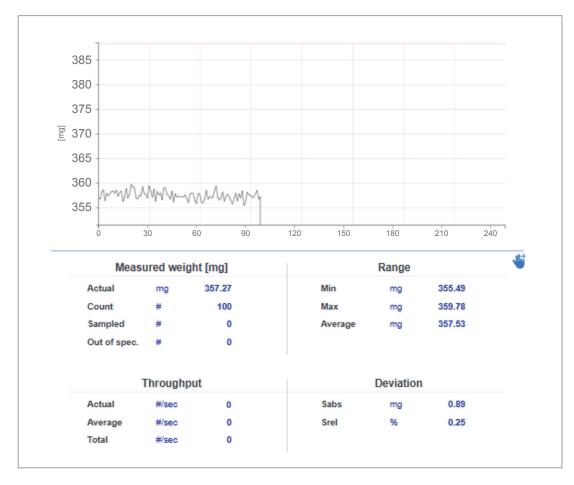
The ideal tool for Content Uniformity Inspection and RTD (Real Time Decision).

NIR-SRS AND 3D MICROWAVE: TWO POWERFUL TOOLS FOR YOUR PROCESS SAFETY

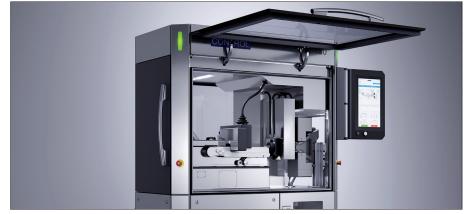
Each product is inspected by the multipoint NIR-SRS "near-Infrared spatially resolved technology" probe to predict APIs fraction, and a 3D microwave resonator allowing to measure individual weight. Various extensive repeatability tests campaigns and industrial case studies have shown that the predictions are within the required 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 weight 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 highspeed processors and stored in an user-friendly "step by step" CFR21 acquisition software. Data can easily be exported, 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).







Embedded 4-P tester





WEIGHT



THICKNESS



HARDNESS



DIAMETER

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



Equipped with the fastest NIR-SRS technology and an highly precise 3-D microwave weight measurement station this equipment is dedicated to provide you a **very accurate 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.

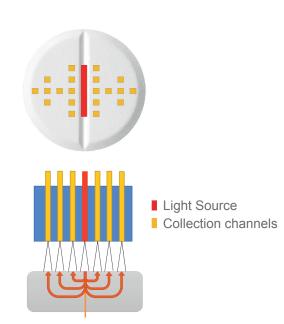
The unit has been developed with an utmost care to the mechanical design allowing fast changeover and affordable format changes.

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.

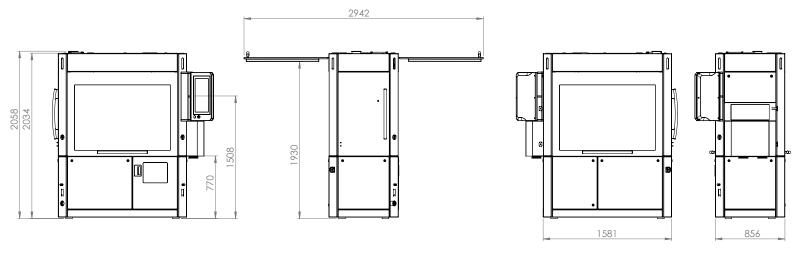
- 100% Content Uniformity test of your products
- 100% Thickness and Diameter/Length measurement by Laser Scanner
- 100% Advanced Hardness measurement
- Quality by Design approach
- Permit Real Time Decision
- Ideal for proving final quality on batch or CM
- Shorten your reject strategy process
- Test 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

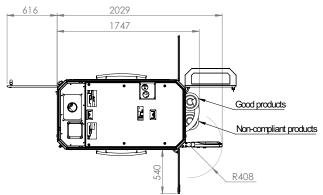


NIR-SRS multipoint tablet illumination



ADVANCE BY TECHNOLOGY





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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