



## BIOMASS ANALYZER

# A new way to analyze biomass and wood chips

As the world is moving toward increased use of different types of biomass, a quick and reliable determination of the moisture is essential for a correct evaluation of the biomass.

### ✔ Biomass quality

To accurately and quickly determine the moisture content of "as received" chips and biomass at the scale house is very important. The Biomass Analyzer enables a mill to swiftly and precisely measure the moisture for feedback and valuation. Being able to verify the raw material within specification is critical.

### ✔ Ideal for CHPs and pulp, paper and pellets mills

The Biomass Analyzer is ideal for everyone involved in producing, selling, delivering and consuming wood-based biomass such as wood chips and saw dust. Not only will it analyze the quality of the biomass, but it will also help optimizing its use.

### ✔ Fast and easy

The Biomass Analyzer is incredibly easy to operate and it takes less than 2 minutes to analyze a sample container.

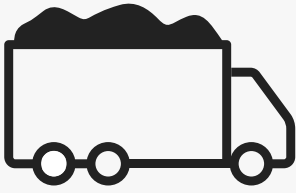
### ✔ Integration

The Biomass Analyzer is easy to integrate with existing ERP systems so that you can keep track of fuel quality. The system also has optional RFID labelling to make accurate automatic tracking even easier.

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# Usage areas



## At the arrival area

Measure the chip's or fuel's moisture content on an "as received basis" for valuation.



## At your storage area

Use the data from the moisture content measurements for improved mixing.



## In the laboratory

Replace conventional ovens for a quicker and more accurate measurement.

# Technical description and safety

The Biomass Analyzer is using the latest X-Ray technology in combination with artificial intelligence, AI, to do the analysis.

All emitting parts are encapsulated by lead plates, which contributes to a radiation leakage that is less than the surrounding natural radiation. It is equipped with sensors and safety systems to ensure that all systems are turned off immediately if any hatch or door is opened during operation.

The Biomass Analyzer is calibrated and verified against accepted measurement techniques such as the gravimetric (oven) method.

## Technical specification

<b>Weight:</b>	500kg, 1100lbs
<b>Size (WxDxH):</b>	80.0 x 80.0 x 180.0 cm, 31.5 x 31.5 x 70.9 in
<b>Power:</b>	230V AC, 50HZ, 700W in operation, 100W in standby
<b>Screen:</b>	20" touch screen
<b>Cabinet material:</b>	Powder coated steel
<b>Enclosed X-ray compartment:</b>	Steel and 2-3 mm lead shielding
<b>X-Ray leakage outside Biomass Analyzer:</b>	<0.2 µSv/h, <0.0002 roentgen/hour
<b>Operating temperature:</b>	15-25° Celsius, 59-77° Fahrenheit



The Biomass Analyzer is an X-Ray machine used to measure the moisture content of wood chips and sawmill by-products.

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