



DynaCup Rotating Sample Stage

Harness the Power of Dynamic Sampling

The DynaCup rotating sample stage is a great choice for measuring inhomogeneous or irregular samples with reflectance spectroscopy. Many solid samples such as corn, coffee beans and pharmaceutical ingredients are particularly challenging to measure. By rotating the samples and collecting an average of many acquisitions, it is possible to gather a more repeatable, reliable and representative result.





At a Glance

Dynamic sampling – ideal for diffuse reflectance of non-homogeneous samples such as grains

Easy to operate – onboard control buttons for on/off and direction of rotation

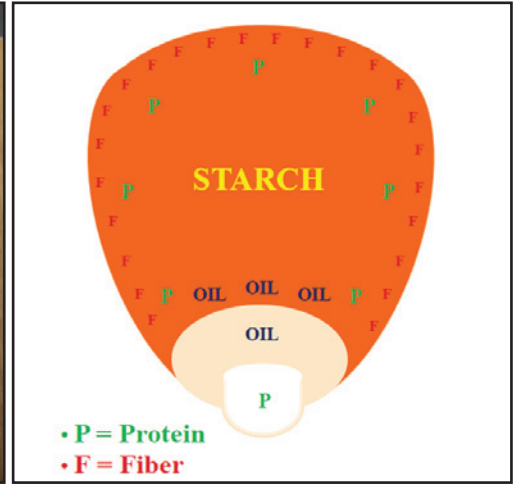
Rugged – designed for industrial environments

Reliable – 110/240 VAC power with internal line filters to provide protection against power surges

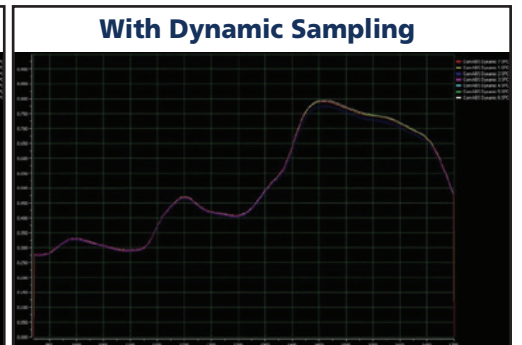
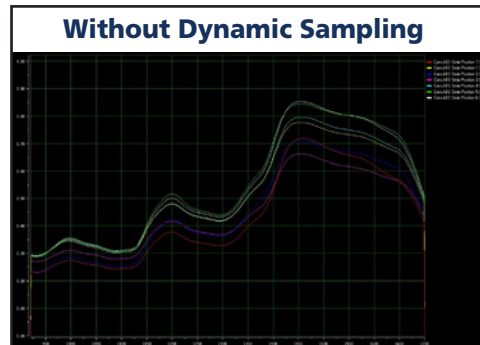
Software – USB connection for external software control

The Power of Dynamic Sampling

Dynamic sampling is a technique where rotational or linear motion is used to remove variance from spectroscopy measurements via more representative sampling. It is a simple yet powerful method to improve the repeatability and accuracy of reflectance and other measurements.



The images above illustrate the challenge of measuring irregular samples. At left, a sample of corn kernels reveals a highly heterogeneous arrangement. The adjacent diagram shows the distribution of components within an individual corn kernel. This highlights the variance in concentration expected when sampling various parts of the corn. Dynamic sampling techniques can address these issues, as demonstrated below.



NIR diffuse reflectance measurements of a single corn sample are more repeatable using dynamic sampling techniques (right graph) than using single-point averaging.

Easy to Control, Easy to Use

- Bi-directional control with onboard buttons
- USB connection for automated or remote control
- 110/240 VAC external power supply with surge protection

Contact an application sales engineer today to find out more.



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