

Food Additive Dosing



For centuries, Food ingredients have served useful functions in a variety of foods. Our ancestors used salt to preserve meats and fish, added herbs and spices to improve the flavor of foods, preserved fruit with sugar, and pickled cucumbers in a vinegar solution. Today, consumers demand and enjoy a food supply that is flavorful, nutritious, safe, convenient, colorful and affordable. Food additives and advances in technology help make that possible

Modern Food production is a highly automated process that demands accurate dosing of additives often in tiny concentrations. Vitamins, colours, preservatives etc. all need to be added in a controlled repeatable manner.

Bronkhorst High Tech have responded to this need with the development of a compact Coriolis based liquid dosing system. Coriolis technology offers a mass flow measuring technique that offers high the highest level of accuracy independent of the additive's physical properties

Bronkhorst High Tech provides compact additive dosing modules designed to be incorporated into new machines or retrofitted to existing processes.

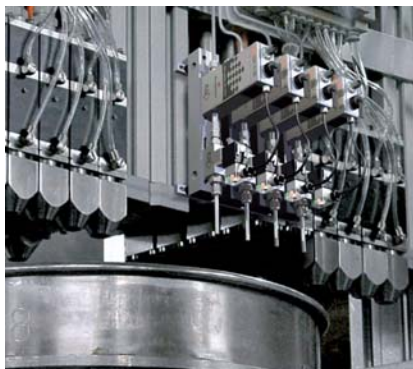
Each Compact Fluid Dosing Assembly consists of a Coriolis Mass Flow Meter of the mini CORI-FLOW™ or CORI-FLOW™ series and a valve or a (gear) pump. The onboard PID-controller of the flow meter is optimized for controlling a valve or dosing pump.



Inbuilt CORI-FILL™ firmware monitors and controls the weight of additive dosed. Dosing can be set a continuous low level or as a rapid shot dose as required

The Bronkhorst mini CORI-FLOW™ is a fully digital instrument and offers advanced communication features including Profibus-DP, ModBus and DeviceNet that allow the dosing modules be seamlessly incorporated into existing automation or DCS systems.

Each dose of additive is recorded and the information can be harvested for traceability and quality control purposes



Dosing modules are available to dose liquid additives from rates as low as 0.1g/hr up to 500kg/hr

CORI-FILL™ offers all batch dosing functionality in one component, in one assembly and from one supplier, without the need of complex programming of additional hardware.

To discuss your dosing requirements in greater detail Please contact us