

# >> WEIGH BATCHING SYSTEMS

## >> FEATURES:

- Accurate dosing systems
- Flexibility for variable recipes
- Sanitary and dust-free systems
- Recipe management



## Weighing & Batching

If your production process requires the accurate weighing of bulk materials and multiple ingredients, weigh batching IS must system. A weigh batching system will improve efficiency, accuracy and sanitation.

**Pro-Quip Solutions** offers a wide variety of weigh batching systems and components, and can be customized to meet your requirements.

## Applications

- Gain-in-weight, loss-in-weight and continuous weighing systems
- Fast/bulk fill & slow/dribble filling with self-tuning pre-act systems
- Multiple ingredient dosing systems for major, minor and micro ingredients

## Recipe Management

Recipe management PLC automation using SCADA/HMI process visualization, inventory control, and reporting functions for management information systems.

### Gain-In-Weight Systems

Gain-in-weight systems measure the weight of the material as it arrives at the receiving hopper. It can be used with a wide variety of feeding and conveying systems including pneumatic transport, screws, rotary feeders and vibratory feeders.

### Loss-In-Weight Systems

Loss-in-weight systems measure the weight of the material as it is discharged from the weighing hopper. It can be used with a wide variety of feeding and conveying systems including pneumatic transport, screws, rotary feeders and vibratory feeders.

### Suitable for

- Can be combined with pneumatic conveying systems
- Multiple ingredient and recipe systems
- Major and minor ingredient dosing capabilities
- Batch weights checked and confirmed during discharge

### Suitable for

- Generally used with gravity discharge, but also can be integrated with pneumatic transport systems
- Ingredients can be weighed simultaneously into the same vessel and hence saves time
- Suited for minor and micro ingredients with high accuracies.



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## >> FEATURES:

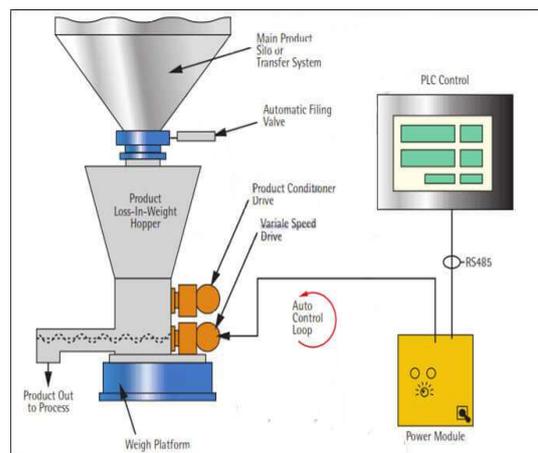
- Integrated into gain-in-weight batching systems
- Applicable to major ingredient dosing
- Typical accuracies +/- 1% to 2%

## FEATURES:

- Integrated into loss-in-weight batching systems
- Applicable to minor and micro ingredient dosing
- Typical accuracies +/- 0.25% to 0.5%



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## Volumetric Feeding System

Volumetric feeding systems transport powder by use of a volumetric metering device that runs at a constant speed to then discharge the powder at a constant volumetric rate. Accuracy is contingent on the consistent bulk density of the powder and the ability to fill the device. Other components may be involved that ensure the bulk density of the material is in optimal condition to maintain a consistent product flow. Typical accuracies are +/- 1% to 2%.

Volumetric feeding systems may include:

- Rotary feeders and air locks
- Screw feeders with single or multiple augers
- Customized feeding systems.

## Gravimetric Feeding Systems

Gravimetric feeding systems are feeders used in conjunction with weighing systems to discharge the powder at a controlled weight per unit time. A scale control system is utilized to constantly monitor the feed rate, adjusting the speed to achieve the desired rate. Typical accuracies are +/- 0.25% to 0.5%.

Gravimetric feeding systems may include:

- Weigh hoppers
- Load cells
- Platform scales
- Systems are optimized and customized to meet customer and plant requirements.

