



Gram Equipment



INGREDIENT FEEDERS

Add any ingredient to your ice cream

- Operator-friendly, convenient fill height
- Recipe for over 150 operating settings.
- Color touch screen for programming and selection of operating parameters.
- Automatic calibration of load cells
- Load cell loss-in-weight feed-back system ensures consistent feed.
- Piston type pump for adding ingredients.

...ice cream the way you like it

IF SERIES

Ingredient feeders for every purpose

It could not have been long after the first dish of ice cream in history was served that the idea of placing something colorful and delicious on top of the ice cream took form. Not much later the thought of putting the topping into the ice cream produced history's second ice cream flavor. Ice cream has been inspiring creativity in this way ever since.

Today, the content of ice cream products is limited only by the human imagination. In the food business, however, successful production of the consumer's favourite multi-ingredient ice cream requires reliable and consistent ingredient feeding equipment.

Gram Equipment manufactures ingredient feeders and variegating equipment designed to provide precise control for feeding particulate and fluid ingredients. They contribute to consistent, repeatable ice cream products favoured by consumers around the world.

The ingredient feeders of Gram Equipment can be found at work on other food production lines besides frozen desserts. These versatile and reliable devices also can be found bringing variety to blended bases, cake mixes, pancake batters, peanut butter and many other flowable base products.



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IF SERIES

Ingredient feeders for every purpose

Precise control, high reliability and maximum efficiency: These are the qualities that distinguish the performance of Gram Equipment Ingredient Feeders.

IF Series Ingredient Feeders provide controlled insertion of a wide range of particulate ingredients into a continuous flow of base product.

Digital read-outs allow the operator to accurately monitor and direct the auger and pump speeds. Optional load cell loss-in-weight controls are available with tracking interface for continuous ice cream freezers.

IF models are designed with:

- All stainless steel frames and electric drives.
- Operator-friendly, convenient fill height hopper with agitation and lift-back cover.
- Compact design and small footprint conserve valuable floor space.

Featuring the piston style feedpump

- No metal to metal wearing contact.
- Reciprocating plastic pistons gently insert added ingredients into the flow of ice cream.
- Handles high line pressures.
- Depending on model size, it can handle the largest common inclusions. Whole Oreo cookies with IF1230 model shown below in picture to scale.



Loss-in-weight automation features

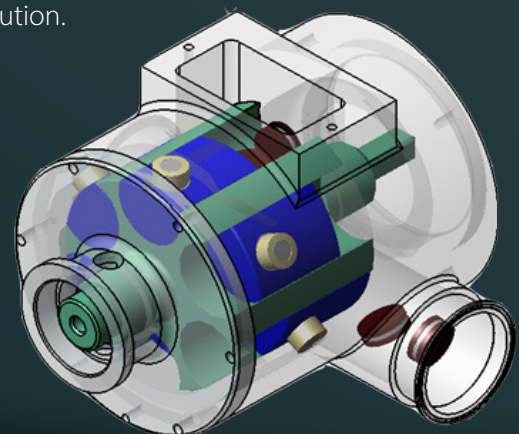
- Color touch screen for programming and selection of operating parameters.
- Load cell loss-in-weight feed-back system ensures consistent feed.
- Rate of ingredients over a wide range of flow rates and hopper levels.
- Recipe for over 150 operating settings.
- Automatic calibration of load cells and feed rate.
- Operator alert for low hopper condition requiring refill.

Additional features

The IF models are designed to reduce maintenance and enhance cleanability. This includes the use of stainless steel in the open frame construction, and free draining surfaces.

The agitator in the main hopper turns slowly to prevent breakage of delicate ingredients, but the movement ensures the ingredients free flow into the cavities of the feed auger below.

After the ingredients are injected into the stream of ice cream by the piston pump, the mixture flows through a vertical blender that ensures uniform ingredient distribution.



IF 2000

Ingredient feeders for smaller productions

For dosing different types of dry and semi liquid inclusions into ice cream. The ingredient feeder is a manually controlled and compact, versatile unit.

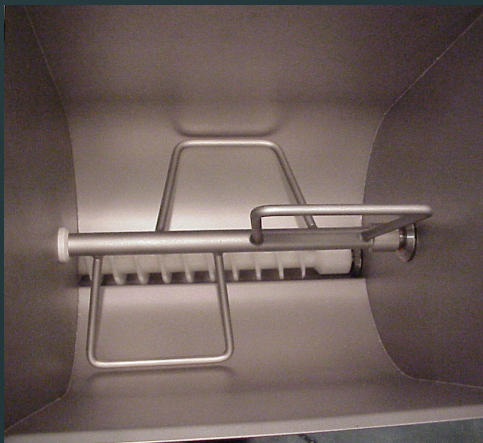
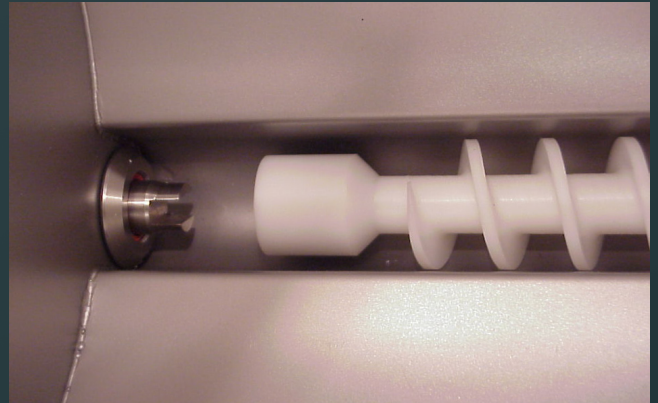
The versatility of the IF 2000 ingredient feeder extends over a wide range of both dry and soft ingredients, as well as those with special large sizes.

Feed pump:

- 3 blades for better tightness
- Special alloy for scrapers/rotor.
- 2" in- and outlet for ice cream.
- 75x55mm ingredient inlet, no sharp edges, no clogging up

Hopper:

- Hopper with agitator and auger.
- Inclined hopper bottom.
- No ingredient clogging.
- Hopper volume ~25 l.



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IF 205

Ideal for managing low capacity

Gram Equipment's newest family member. With our unique piston pump design it's ideal for low capacity needs.

The new IF-205P ingredient feeder is Gram Equipment's newest member of the family. The IF-205P is the "little brother" of the popular IF-410P model, featuring the same unique piston pump design. The new IF 205 has a lower capacity range and is therefore much more suitable and compatible with operations that run with a capacity of up to 528 GPH or 2000 LPH.

Capacity

- Up to 528 GPH (2000 LPH) in combined ice cream and injected ingredients.

Features:

- Piston type pump for adding ingredients.
- Touch screen for digital control of auger, pump, and blender speeds.
- 26 litres hopper.
- All stainless steel frame construction.
- All electric drive.



IF 410

Flexibility and efficiency are the keywords

Highly efficient, flexible and reliable - for a large variety of ice cream products.

The IF-410P ingredient feeder provides controlled insertion of a wide range of particulate ingredients into a continuous flow of ice cream or other viscous base products such as cake mixes, pancake batters and peanut butter.

Ingredients are augered from the main hopper to a five-pocket rotor and piston pump that gently incorporates the ingredients into the continuous flow of base product. The combined ingredients and base product are blended together and evenly distributed by the variable speed blender agitator unit. An agitator in the hopper prevents any ingredients from bridging.

The ingredient feeder model IF-410P is designed for the feeding of a wide variety of ingredients, (i.e. fruits, nuts, candies, sugars, confectioneries, cookies, etc.) into a continuous flowing stream of ice cream.

Capacity

Rated from 105 GPH to 1050 GPH (400 LPH to 4000 LPH) of ice cream flow.

Rated from 8 GPH to 184 GPH (30 LPH to 700 LPH) of ingredient flow.

Features:

- All stainless steel frame construction.
- All electric drive. Variable frequency control of auger, blender, and enrober motors.
- Piston type pump for adding ingredients.
- Display of feed rate in kg per minute or fully automated control.



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IF 820-1230

High capacity with flexibility

Highly efficient, flexible and reliable - for a large variety of ice cream products.

The high capacity ingredient feeders from Gram are designed for the feeding of a wide variety of ingredients, (i.e. fruits, nuts, candies, sugars, confectioneries, cookies, etc.) into a continuous flowing stream of ice cream.



Capacity:

Combined basic product and ingredients:

IF-820P

Minimum throughput 105 GPH or 400 LPH

Maximum throughput 2,113 GPH or 8,000 LPH

IF-1230P

Minimum throughput 105 GPH or 400 LPH

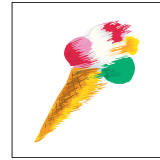
Maximum throughput 3,170 GPH or 12,000 LPH

The above capacities are based on a combined product, i.e. basic product and added ingredients. The capacities vary depending on the basic formulation and/or ingredients, which may be fed. (The above capacities should be used as guidelines only).

Features

- All stainless steel frame construction.
- All electric drive. Variable frequency control of auger, blender, and pump motors.
- Piston type pump for adding ingredients.
- Display of feed rate in kg per minute or fully automated control optional.
- Possibility of adding a Pony hopper for adding two ingredients





Gram
Equipment

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