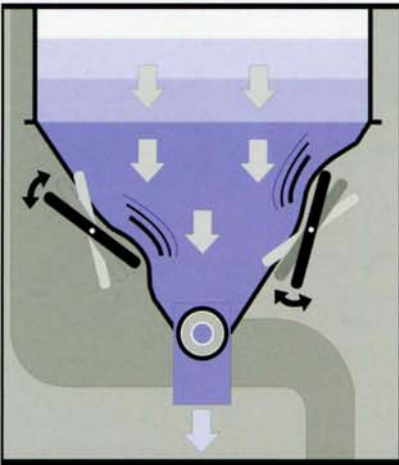


# Brabender Technologie

## FlexWall® Feeder Classic Design



FlexWall® Volumetric Feeder



FlexWall® Loss-in-Weight Feeder

For Feeding:



Flakes



Powders



Fibers

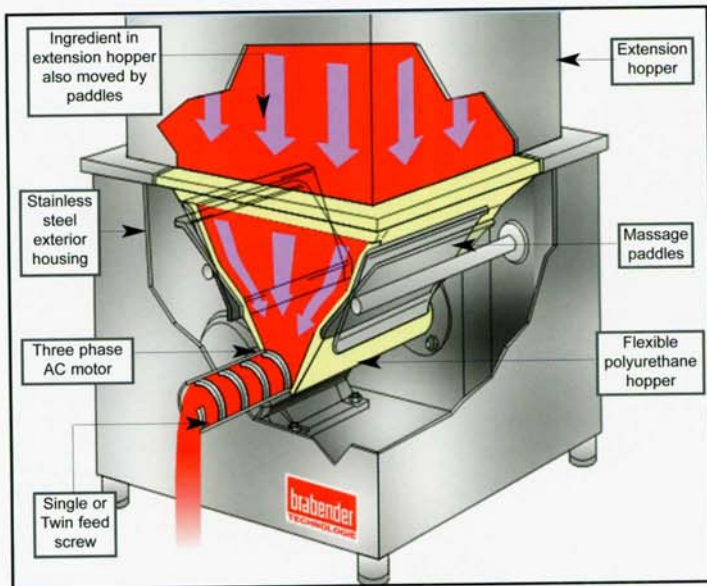


Pellets



# FlexWall® - Volumetric Feeder

Brabender offers high feeding reliability in a screw feeder without an internal stirring agitator.



Brabender FlexWall® - Classic Design (paddles are parallel)

## The Brabender FlexWall® Feeder

is used for feeding powders, granules, pellets, flakes, chips and fibers. The flexible polyurethane hopper, with massage paddle agitation is often preferred over internal stirring agitation (screw feeders) for poor flowing ingredients.

The FlexWall® external massage paddle agitator promotes natural ingredient flow. By fully activating the ingredient in the flexible polyurethane hopper and in the extension hopper, bridging is eliminated and flow occurs into the screw without compaction.

With the screw in the bottom of the flex hopper, the feeder is completely emptied on discharging.



Massaging Paddles, Motor and Screw Connection

The FlexWall® polyurethane hopper is removed exposing the paddle and drive chassis which is also removable from the external housing.



Paddle Drive Adjustable Linkage Easily Accessible From Rear of Feeder

To accommodate varying flow characteristics, the flexible hopper paddle agitation can be adjusted by:

- amplitude - 3 easy settings to adjust paddle linkage;
- frequency - optional second independent drive motor.



### 4 Standard Models:

FW18, FW33, FW79 and FW120.  
Also available the FW155.  
(0.02 cu.ft. to 853 cu.ft.)

## Variable Frequency Drive Sealed Keypad and Display



Volumetric feeders have adjustable feed rates by varying the screw speed.

FlexWall® feeders are driven by 3-Phase, TEFC, inverter duty AC motors. A variable frequency drive is used to vary the motor frequency from 90 Hertz to 6 Hertz (standard), 120 Hertz (optional).



# FlexWall® - Loss-in-Weight Feeder

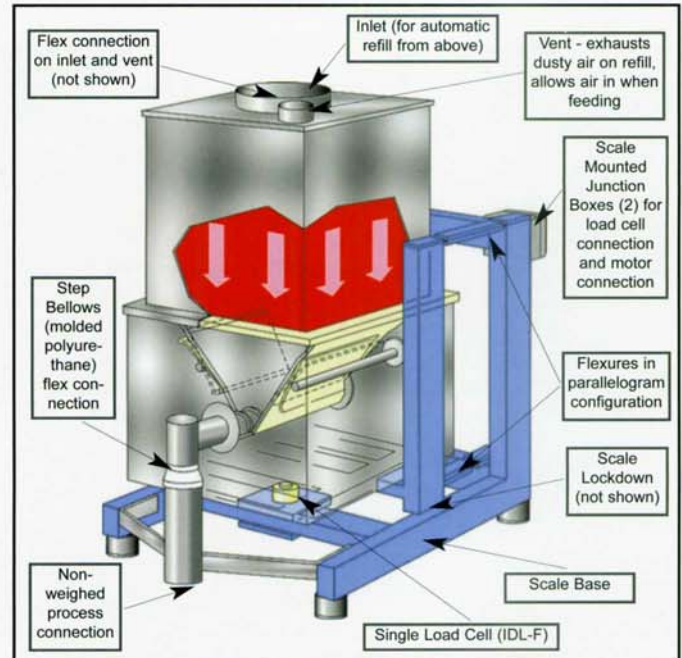
All Brabender feeders are easily converted to gravimetric loss-in-weight by simply mounting the feeder onto a scale.

## Brabender's Unique Flexure Frame

**Scale** concentrates the load onto a SINGLE load cell (IDL-F). In contrast to configurations employing 2 or 3 load cells, the Brabender design presents advantages for trouble-shooting, maintenance, and spare parts inventory.

## Fast, Reliable Installation

Each feeder is fully assembled, factory tested, pre-wired to terminal boxes and locked down for load cell protection. All you need to do at installation is put the feeder in place, wire it to the controller, and unlock the scale.

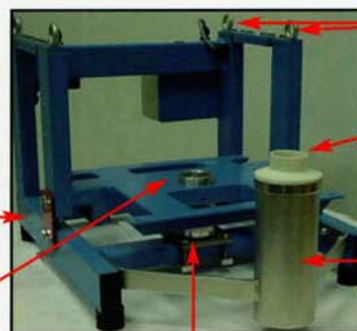


Loss-in-Weight Feeder - FlexWall® Screw Feeder mounted on Brabender's unique Flexure Frame Scale

Easy scale lock-down during maintenance and shipping provides a 100% load cell protection.



A mechanical overload protection spring provides overload protection as an integral part of the scale. The filtered digital load cell offers stable weight values.



Lifting Rings.

Step Bellows molded for highly efficient weighing isolation and dust sealing.

A stainless steel fixed process connection is mounted on the scale base to ensure weighing integrity is not affected at this very sensitive interconnection point.



### Intelligent Digital Load Cell-Filtered (IDL-F)

A single vibrating wire digital load cell with microprocessor filtering, RS422 serial connection from Load Cell Terminal Box to controller.

## LOSS-IN-WEIGHT FEEDER CONTROL

Brabender offers controllers tested to the highest standards of interference suppression, electrostatic discharge and radio frequency interference.



**Congrav S**  
Single Feeder  
Controller



**Congrav LM/3**  
Up to 16 feeders  
controlled by one  
operator interface



### Single Cable Connection (SCC)

Controls up to 32 feeders from scale-mounted controllers and drives (ISC-CM and ISC-FC) all on a Single Cable Connection Bus (SCC).

**NOISE PROTECTED, SELF TUNING CONTROLLERS**



# Quick Dismantle, Hopper Change and Easy Cleaning

The unique design of the Brabender FlexWall® Feeder allows easy disassembly and cleaning. Therefore it is particularly suitable for any processes where ingredients are frequently changed. Dismantling and cleaning has a few simple steps:



**STEP 1** - Remove the screw tube (3 bolts) and screw (threaded connection).



**STEP 2** - Vacuum ingredient residue.



**STEP 3** - If necessary, remove the flexible polyurethane hopper by simply pulling the sealing lip off the upper edge of the housing for further dry cleaning or washing.



**STEP 4** - Washing the polyurethane hopper, if necessary.

## Quick Ingredient Changeover - Leaving Ingredient in the Hopper (Optional)

For processes requiring frequent ingredient change-over the Brabender FlexWall® Feeder is available in a version allowing exchange of the entire feed unit together with its contents, without emptying the hopper and without time consuming cleaning.

Changeover is accomplished in 3 easy steps:

- removal of the feed unit consisting of hopper, screw and screw tube together with the ingredient - without spillage.
- Storing the unit and its contents for later re-use.
- Replacement by another pre-assembled unit with new ingredient and ingredient suited screw.

*(Please Note:* The removable housing cut out is required and is available as an option).



## Polyurethane Flexible Hopper - Materials of Construction

The polyurethane hopper is very tough - virtually wear-free - handling ingredients with temperatures to 80°C. It has four construction types:

- Standard.
- Conduction: anti-static (light grey).
- USDA accepted (3A Dairy).
- High Chemical resistance.

Leading Manufacturer of Feeding, Weighing and Discharging Equipment with Over 50 Representative and Service Centers Worldwide

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