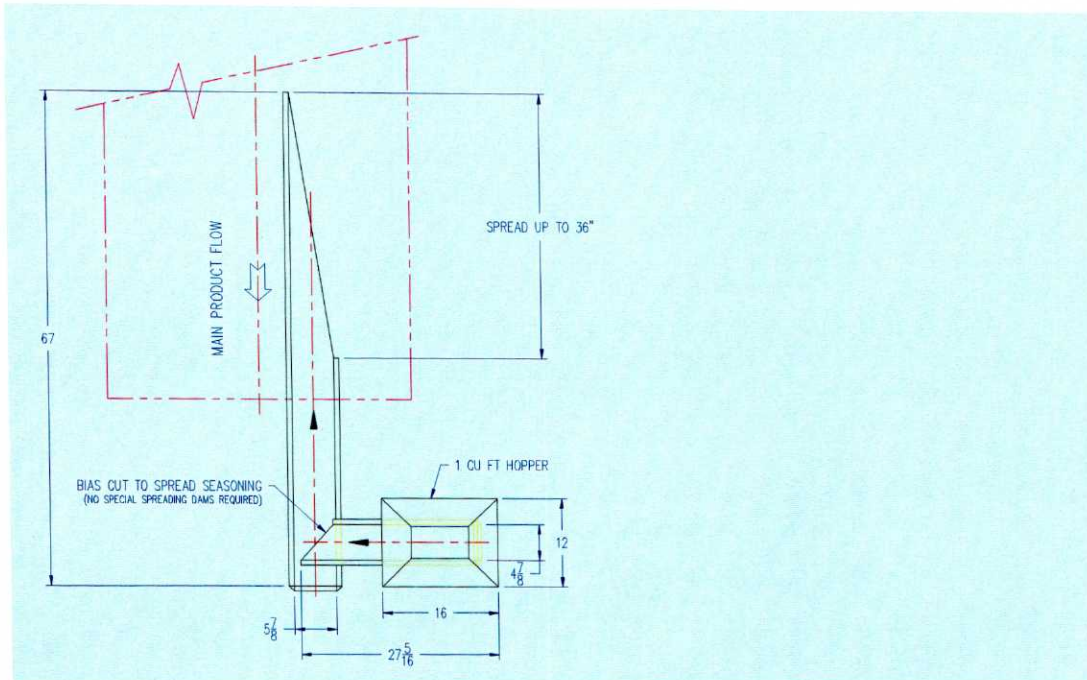


Crescent Electromagnetic Vibratory Spreader Feeder:

The purpose of this feeder is to take product from the LIW feeder and evenly spread it over a distance of 36" inside a tumbler drum. Normally this function is performed by a screw feeder tube with teardrop holes to drop a curtain of seasoning over tumbling product. However there are many problems associated with such a design including plugging of tube, product buildup, and uneven distribution. The vibratory feeder eliminates these problems by dispensing an even curtain of spice throughout the full length of the spread. This would yield a uniform application of spice to the product for a better quality and appearance.



The profile of the conveyor is very low to fit inside the tumbler drum. The frame stays outside whereas the bias cut section of the feeder cantilevers on the inside of the drum to spread seasoning evenly over tumbling product. The drive is easily accessible and is on the infeed end. The isolation mounts minimize vibration transmission to the structure. The construction is all stainless steel including drive components and frame to allow complete wash down.

Since there are no moving parts in these feeders, the operation is trouble free. Couple this with our completely sealed drives and all stainless steel construction and you have a system that will operate for years without much maintenance.

Features:

- **Construction.** All Stainless Steel construction
- **Drive.** Sealed Electromagnetic Drive for wash down application
- **Reliability.** No moving parts. As opposed to screw and belt LIW feeders, this system is very simple and has no moving parts. The gentle vibration of the tray moves the product.
- **Constant Stroke.** A sensor less feedback system allows constant stroke under varying load conditions. No more bogging down with increased amount of product in the pan.
- **Low Profile.** The overall height and width of the feeder is kept to a minimum to enable it to easily feed product inside the tumbler drum. A special design allows extra overhang to spread product for up to 36".
- **Custom Design.** Each application is unique and therefore each system is designed for its own requirements. Spreading requirements may dictate a 24", 30", or 36" bias cut. Conveyor width and length may be adjusted depending upon the application.
- **Even distribution of seasoning.** The LIW feeder on the infeed end spreads product over full width of the spreading feeder. As a result no dams or diverters are required to spread product over the width of the feeder. Also the vibratory motion is very consistent throughout the width and length of the feeder allowing very little variation of seasoning application as measured inch to inch over the full width of the spread.
- **Power Requirements.** 208/1/60. The system operates at resonant frequency and therefore it operates at optimum efficiency. The stroke and current draw are constantly monitored and therefore the power consumption is minimized.