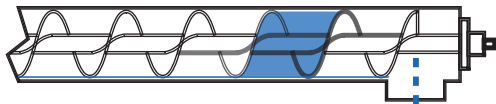


# Volumetric Metering Device Comparison

## Batch Accuracy Constraints



Device  
Screw Feeder

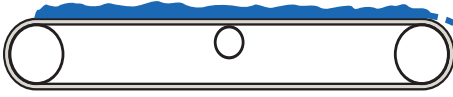
Accuracy

- The volume of one complete flight of the auger



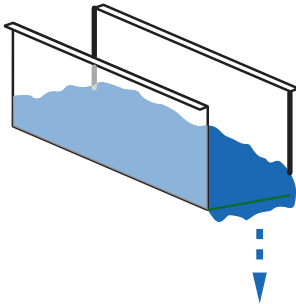
Rotary Feeder

- The volume of one complete pocket of the rotor



Belt Feeder

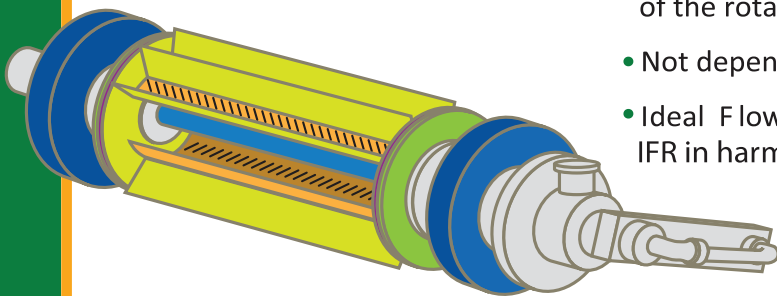
- Bed depth of material on the belt
- Diameter of the discharge rotor
- Belt speed



Vibratory Feeder

- The material delivered during dribble is not consistent due to bed depth of material and material characteristics
- The bed of the material must be deep in order to deliver fast/dribble feed

## Rotary Scalpel<sup>TM</sup>



- Large inlet opening fills rotary vanes uniformly
- Dribble feed is inherently most accurate due to the unique feature of delivering an adjustable finite volume of one vane of the rotating feed drum
- Not dependent upon angle of repose
- Ideal Flow Rate (IFR) since material inlet is configured to IFR in harmony with material flow characteristics
- Accuracies of  $\leq \pm 0.5$  grams are achievable

