



Vibratory Feeders vs Auger Feeders

Process Control (PCC) has been building Vibratory and Auger feeders since the late 70`s. As a result PCC has more experience with them than any other blender manufacturer.

PCC has set their standard with auger feeders and knife gates for the following reasons.

Since the brushless motors are available without an encoder they pretty much become maintenance free. The gear ratio on the older DC brush motors were at 30 to 1 and the newer brushless are at 100 to 1. This almost completely eliminates any need to change augers for different throughputs. PCC`s angled augers provide a good positive feed. PCC has an off the shelf PLC with open architecture with the ability to expand in the future and integrate.

Our experience with vibratory feeders is anytime you introduce vibration into the system, you create a potential problem with the harmonics of the control system. The system when installed has to be extra insulated to try and absorb the extra vibration that`s occurring. You also have to add extra filtering to eliminate the extra vibration. The vibratory feeders come straight into the blend chamber making it more of a dosing system. When trying to feed at low rates such as .25pph we have found that the heavier auger motors are more accurate. The vibratory trays have to be changed out as much as a brushless motor for large throughput changes. Since the supply hoppers are sized for low throughputs and high throughputs you are already limited to what throughputs you might want to run.

Our conclusion is that for us to supply the best most accurate blender we choose auger feeders.

PCC weighs better than anyone!

