GRADO

GRAVIMETRIC BATCH BLENDER

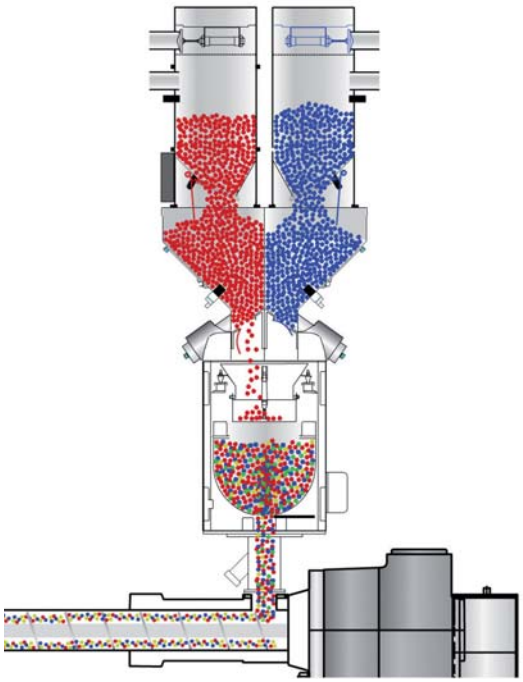
Gravimetric batch blender, designed to blend free flowing pellets in processes which require accurate dosing and repeatability with efficient mixing. Unaffected by vibrations, GRADO has been designed to be easily mounted directly onto the throat of the processing machine, to be installed either on a mezzanine, or on a vacuum take-off stand to feed one or more machines.

MAIN FEATURES

- GRADO is available in 14 models: 2, 4 or 6 ingredients, with throughputs up to 150, 300, 600 and 1000 kg/h.
- Partitioned hopper complete with cover prearranged for vacuum loader installation.
- Patented dispense valve, slide gate type.
- Drain spout for easy and quick complete partitioned hopper emptying.
- Mixer driven by AC motor, continuous or timed operation.
- Easy to use, simply set the dosing percentage.
- Material flow control valve, supplied when the batch blender is mounted on a mezzanine or a vacuum take-off stand.

INTEGRATED GRAVIMETRIC EXTRUSION CONTROL

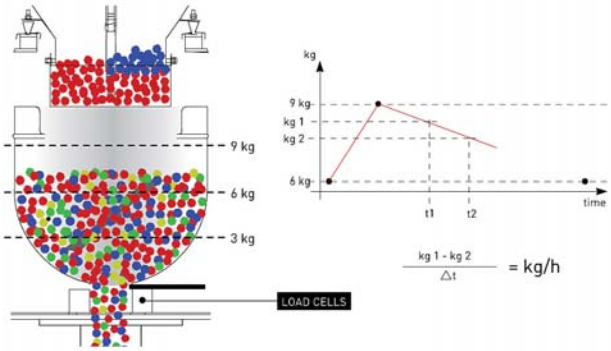
GRADO uses an internal LOSS-IN-WEIGHT mixing chamber with a hemispheric botton installed on a load cell which continuously weighs the materials used; the extruder becomes a gravimetric metering device. The system can measure and control the extrusion throughput or use this value to control line speed, or alternatively, perform both functions simultaneously. With multi-layer lines, each individual extruder throughput is measured and controlled to maintain a constant layer-to-layer percentage ratio in the end product.



GRAVIMETRIC BATCH BLENDER OPERATION

Batch gain-in-weight control.

- Each ingredient is fed, in sequence, into the weigh bin through slide gate valves.
- On reaching the preset batch weight, a special sensor signal causes the batch to be discharged into the mixing chamber.



MIXER WITH SEMI-SPHERICAL BOTTOM

As the mixer bottom is semi-spherical, there are no stagnation areas. The mixing paddle moves the entire mass of material resulting in a homogeneous blend and preventing the formation of preferential flows that would favor the separation of the ingredients into finer, heavier or more flowing granule sizes.

- Practical and easy access to all components with no need to stop or "dismantle" the machine!
- The feed hopper is completely emptied through a special drain spout built, under patent, in the dosing slide gate.
- Sight glass clean out ports for each compartment, for fast and easy removal of dust or ingredient residues and for visual inspection.
- Bridge breaker for non free-flowing materials.