TrueBlend[®] Gravimetric Extrusion Blender



The TrueBlend EXT[™] yield control option adjusts the extruder screw speed to compensate for material variations and other process variables while monitoring / controlling the haul-off speed - continually delivering precise dimensional stability at minimal tolerances.

TrueBlend EXT[™] can control the extrusion process, as well as gravimetrically blend material. Throughput and haul-off control options allow to:

- Monitor and control line haul-off and extruder throughput to provide yield

Line control options include weight-per-length, weight-per-area and thickness;

TrueBlend EXT[™] can control mono-extrusion line consisting of a homogenous

For co-extrusion lines, the optional TWC layer ratio control system supervises



weight-per-length.



Unique Features

Safety first

All major electrical components are UL and CE approved. Material bins are provided standard with finger guards or optionally with bin access door interlocks. The mixing chamber access door is interlocked with the power supply to the blender motor and compressed air solenoids.

No spills, no leak chassis

Rugged, closed chassis assures all weighed pellets move from the weigh pan to the mixer to the machine. No pellets escape the chassis, improving operator safety and ensuring blend integrity.

100% visibility into the materials bins

Material levels, ingredient type, and position are quickly identified and confirmed

Internal, protected, no-stick vertical valves

Internal 2-way pneumatic valves are away from external operator access and are separated from the pellet flow by protective shrouds.

Blend up to 12 components

Comes standard with 4 or 6 bins. The blender can be upgraded to 12 positions for material staging or complex recipes.

Options



Reports Used to track and document material usage, alarms, batch and shift reports and recipes. Constant data logging to customers PC, and can be opened in Excel format.

Material level alarm control

Eliminate costly material shortage problems and machine downtime with this early warning system. The control monitors bin material levels at one blender. Individual switches can be adjusted to monitor high or low material levels. See Level Alarm Control specification sheet.





The blender home screen offers instant viewing of recipe set points and the actual by bin position and total inventory processed since last reset. Touch buttons provide easy access to blender recipes, total materials, reports, loader settings and more.



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Any material from any bin

Any bin can be set up for any material type. Bin sequencing is automatic or can be set manually.

No-tools cleaning

Clean-out for materials and color changes is fast and easy. No hang-up or hiding places in material bins. Weighing and mixing components remove in seconds.

Paddle mixer

Aggressive paddle mixer assures homogeneous blending. Relief notches in the mixer blades prevent trapping of pellets. All models are supplied with electric mixing motors for complete 360 degree mixing rotation.

Mass flow loss-in-weight hopper

60° cone angle assures mass flow to prevent separation in the weigh hopper.

Weigh hopper precision load cell

High accuracy precision cantilever load cell allows extruder output control to +/- 0.5%.



Air blow-off for mix chamber level sensor This feature is integrated into the blender mix chamber to blow excessive dust and fines away from the sensing device and ensure accurate level sensor reading.

Remote mixer demand sensor

This sensor provides a fill-to-level option in a surge bin or other material receptacle that sits below a remote mounted blender.

Self clean

Hands-free cleanout. No equipment teardown. TrueBlend self-clean system sequences compressed air nozzles to evacuate material from all contact surfaces, providing fast material changeovers.

Other available options include

- TrueBlend high heat models
- Remote blender mounting
- Regrind flow enhancers
- Major component flow restrictor
- Minor component flow restrictor
- Dry air blanket





Blender recipe simply asks for component as a percent or part of the batch. Up to 1000 recipes can be stored in the recipe book for quick set-up and assured repeatability. Options allow quick setup of any position for any material and allow automatic or manual bin sequence selection.