

GH & GH-M SERIES

Extrusion Control Units



Technical Specifications

The GH extrusion control and GH-M extruder rate monitor units match the extruder throughput, track material usage, and can control extruder output with the optional control system. Weight per length control is also possible using haul off control.

Features

Standard Features

- Surge hopper with refill valve
- Mass flow weigh hopper design for first in/first out material flow eliminates segregation
- Weigh hopper with sight glass for visual check
- High accuracy, precision cantilever load cell
- PLC-based control system with color touch-screen
- Material inventory
- Line footage inventory
- Line and screw speed pickup
- DF-1 communications port (Ethernet optional)
- Haul off and extruder speed control software included; specify at time of order
- Weight per length control to $\pm 1/2\%$ of target
- Serial printer port connection
- Hopper lid arranged for Sterling receivers and loaders
- 115/1/60 supply voltage
- Weight per area control available

Optional Features

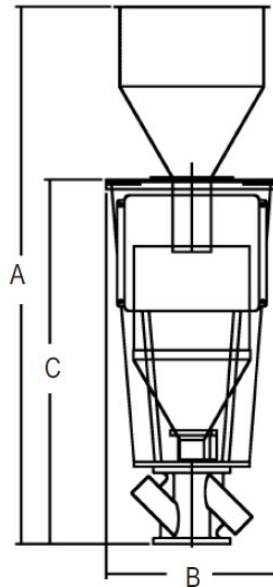
- Haul off Encoder
- Speed adjust module
- Lid for non-Sterling loader/receiver

GH Series Basic Operation

The Sterling GH Series extrusion control system tracks extruder screw speed, and continually learns the rate of each extruder screw revolution. The unit then adjusts the extrusion line haul-off speed (or optional extruder speed) to keep product weight per length consistent. The GH unit adjusts for varying product weights, flow characteristics, and varying extrusion pressures, such as plugged screen packs and other factors.

You can adjust the GH unit to a preset weight/length (grams/meter or pounds/foot) specification, or you can set it to hold the existing extrusion parameters set.

You can also configure the GH unit to communicate with a co-extrusion controller to provide a complete layer and overall yield control and monitoring system.



GH-M Series Extruder Monitor Units Standard Features

- Surge hopper with conical refill valve
- PLC-based control system with color touch-screen
- Weigh hopper with sight glass for visual check
- Mass flow weigh hopper design for first in, first out material flow
- Network communications
- Precision cantilever load cell
- Hopper lid arranged for Sterling receivers and loaders
- 115/1/60 supply voltage

Extrusion Control Options

Model	Description
COEX-AB	CoExpert-AB co-extrusion A-B VersaView™ based industrial graphical control system with touch-screen. Includes an integrated Touch-Screen controller, significantly easing installation and operator usage. For use with up to eight (8) GH “flow control” units without a haul-off control. Controls extruder speeds, layer percentages, and blender recipes. Complete with all necessary hardware, software, and communications requirements. Communication wires and cables not included.
COEX-AB-LS	CoExpert-AB with line speed control (haul-off). Required when using a CoExpert-AB package to control the haul-off. For use with up to eight (8) OL blending systems or GH “flow control” units and a haul-off control. Encoder included for interfacing to the CoExpert-AB control system. Controls overall yield (weight/length), weight per area. Communication wires and cables not included.

Specifications

Model	Feed rate, lbs./hr (kg/hr)	Dimensions, in. (cm)		
		A	B	C
GH-10	50-500 (22-250)	60 (153)	18 (46)	37.75 (96)
GH-20	300-1,000 (135-455)	69 (176)	24 (61)	37.75 (96)
GH-40	600- 2,000 (272-910)	74.5 (189)	30 (76)	47.5 (121)
GH-100	1,500 - 5,000 (680-2,268)			