

# Gravimetric Blenders

## Micro Blender

The Maguire Weigh Scale Blender™ (WSB) range of gravimetric batch blenders are for all plastics converting businesses, extrusion, injection and blow moulding applications.

The Micro Blender consists of 4 removable hoppers fitted with materials dispense valves for metering all materials. A loader lift door option is available.

### Features and Benefits

- ▶ Ideal for small processing machines
- ▶ Reduced weight and footprint
- ▶ Overall precision of  $\pm 0.1\%$  of specified blend
- ▶ Compressed air gun for quick cleanout included
- ▶ Easy access to all material contact surfaces of the machine including hoppers, weigh bin, and mixing chamber permits rapid colour change without the use of tools
- ▶ Proprietary 12-12 microprocessor-control technology monitors and confirms the weight of each ingredient (touch-screen optional)
- ▶ Compensation is made when a variation in dispense weight is detected
- ▶ Additional standby materials hopper
- ▶ Vibration management
- ▶ Improved documentation capabilities
- ▶ 5 year warranty

### Operation

- ▶ Default hopper size = 400g batch size
- ▶ System tares weigh bin, then dispenses in sequence e.g. regrind, natural, colour and additive, weighing after each dispense
- ▶ Batch released to mixing chamber and mixed, with previous batch
- ▶ Sensor in upper mix chamber becomes covered, blender waits
- ▶ Material consumed, sensor uncovered, next batch cycle commences

### Control

- ▶ Packed with standard features and functions
- ▶ Continuous material calibration for accurate blend
- ▶ Controller updates flow rate every dispense for accuracy
- ▶ User friendly settings entry via thumbwheels or keypad
- ▶ Password protected keypad for security
- ▶ Alarm and strobe light with silence function, to alert to incomplete batch
- ▶ Setup and operation reports print direct to USB key
- ▶ Remote access and monitoring
- ▶ Integrates to other control or ERP systems



### Dispense valve options

- ▶ **Corner valve** - high flow side gate valve for poor flowing materials
- ▶ **Carousel valve** - slower operating dispense valve for very small settings - 0.2 - 1 %
- ▶ **Standard Micro Blender** is equipped with 1 corner valve for regrind and 3 pivot valves for natural, colour and additives



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