



# TSM

CONTROL SYSTEMS

GRAVIMETRIC BLENDING

CSGBMB011008

## MULTI-BLEND

**One Blender Centrally Located, Supplying any Number of Extruders**

TSM Control Systems has recently developed the New Multi-Blend™ Gravimetric Blending Systems for the Hi-Spec, Hi-Quality Co-Extrusion Market. Based around years of TSM experience in the extrusion industry, the system allows the end user to centrally locate the blending of all materials and recipes in a high throughput gravimetric blender, the TSM3000. This gravimetric blender can handle up to 12 individual material components at any given time with total automatic cleaning between recipes.

### Features

- One blender up to 3000 kg/hr maximum throughput
- Up to 12 material components
- Multiple recipes database
- Automatic cleaning between recipes
- No contamination between recipes
- Batch to batch consistency of 0.02%
- Rapid job changes
- Material usage / Inventory control reporting
- Less manpower required
- Easy cleaning – only one blender to clean



TSM Multiblend

The new TSM Multi-Blend™ design offering has many advantages. Firstly, the use of centralized off-line blending to feed multiple extruders has many cost advantages such as the elimination of gravimetric blenders for each layer. Thereafter individual extruder layer material recipes are simply entered into the TSM central blender control panel. When the vacuum loader on individual layers requests a material fill, the TSM blender prepares the required job recipe, mixes the material, before conveying it off to its respective extruder. Finally, the blender's automatic Self-Cleaning feature is initiated in anticipation of the next fill request.

All material consumption is logged for traceability/ accountability purposes, which contributes to the overall increased production efficiency by using TSM control solutions.

### Advanced Mixing Technology



- Perfect homogenous mixing independent of percentage settings or material density
- No separation – guaranteed – materials mixed to perfection
- No dead areas in mixing Chamber – all materials, in all areas blended by screw

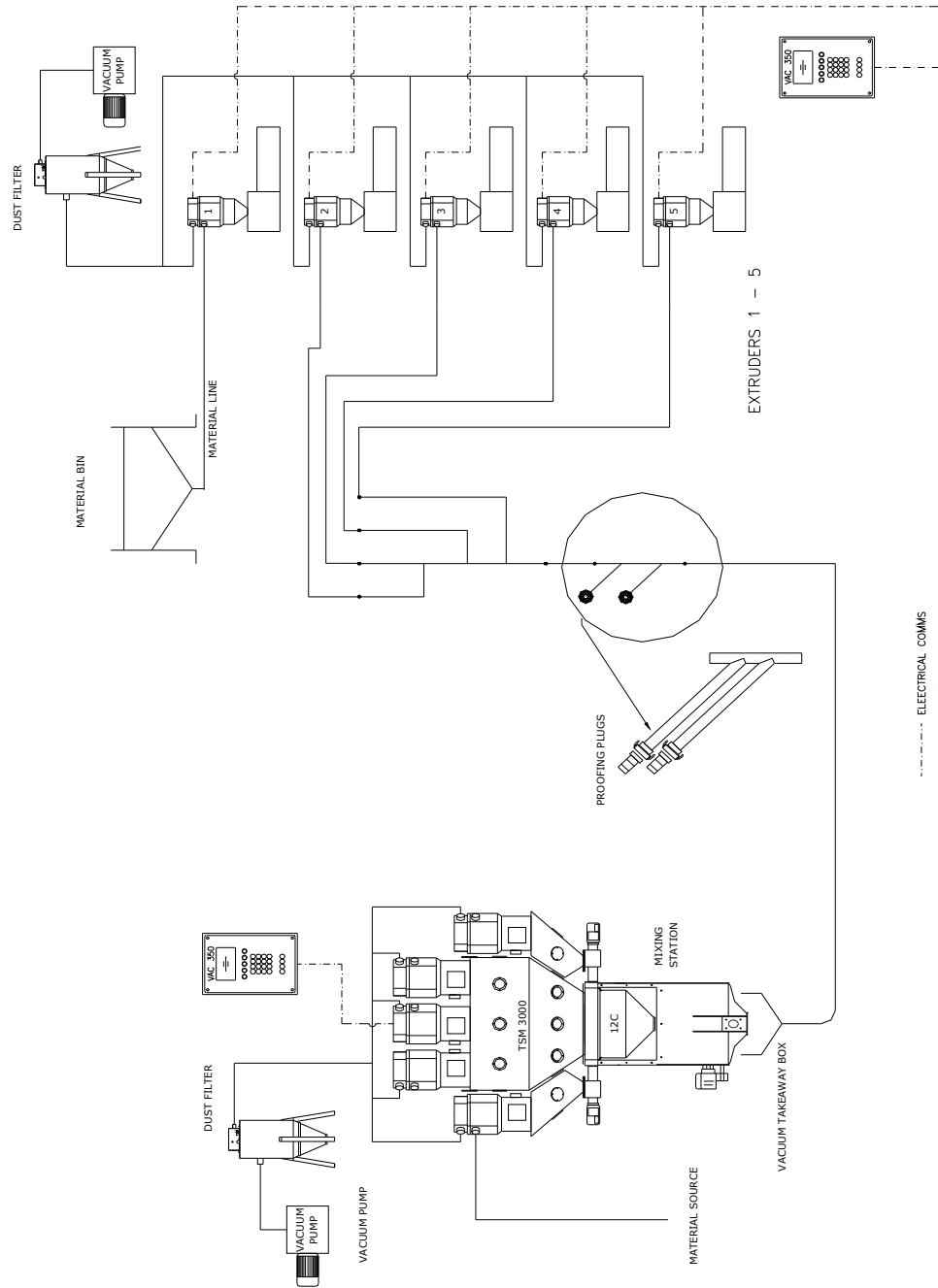


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www.tsmcontrols.com



### Ethernet Interface Option

TSM offer a dedicated web server & Ethernet Interface as part of each blender. This option allows access to each System via a factory network (Intranet) or the Internet. Thus, blenders can be monitored, analyzed and problems diagnosed from anywhere on the globe (SERVICE) or from any PC connected to the factory Intranet (PRODUCTION).

- TSM Control Systems HQ • Ireland
- Tel: (353) (42) 9335560 • Fax: (353) (42) 9334422
- E-mail: info@tsm-controls.com

- TSM Control Systems Inc • USA
- Tel: (01) (770) 886-6630 • Fax: (01) (770) 886-2395
- E-mail: info@us.tsm-controls.com

- TSM Control Systems Asia
- Tel: (886) (2) 26575090
- E-mail: info@tsm-controls.com.tw