

Latest News from Applied Multilayers

No.7

New High Throughput Coating System with 0.75m diameter substrate drum and eight 1.2m magnetrons

Applied Multilayers has added another option to its line of CFM optical coating machines. The CFM950 is the latest addition and is the largest system on offer with super-high throughput. Its specification includes:

- Drum diameter of 0.75m.
- Up to eight internally mounted linear magnetrons up to 1.2m in length.
- Two door system for easy maintenance.
- Cylindrical drum available for coating polymer or metal sheet.
- Faceted drum available for glass and plastic parts.
- Fast insertion and retraction of drum for high throughput.
- Four 2200 litre/min Turbomolecular pumps fitted for fast pump-down to process pressure.
- Processes available for metals, metal-oxides, metal-nitrides and metal carbides.

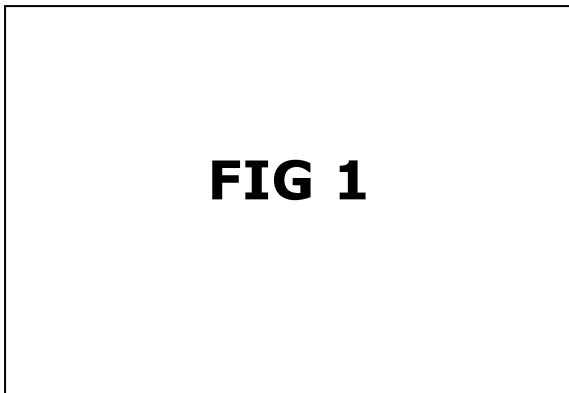


Figure 1. The CFM 950 uses 8 magnetrons in a closed field configuration. The CFM process produces dense films with low stress. The morphology can be controlled using substrate bias or process gas pressure.

The new system combines high throughput with process flexibility. The eight magnetrons can be used to sputter-deposit from eight separate materials or alternatively

the same materials can be used at in two positions to double the deposition rate. Applications of the new system include:

- Low temperature deposition of Indium Tin Oxide (ITO) or other transmitting conducting oxides on polymer sheet
- Thin film photovoltaics
- Electrochromic coatings
- Anti-reflection coatings
- Complex multilayer coatings on plastic or glass substrates.

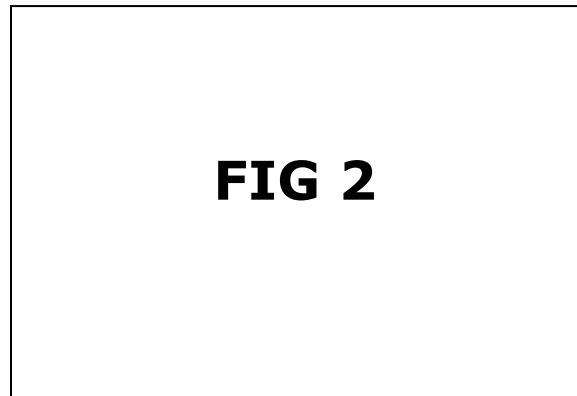


Figure 2 The CFM 950 is a high throughput optical coating system with a Meissner trap for fast pumping and a retractable 0.75m diameter drum.

Applied Multilayers supplies a range of batch systems to suit applications and budgets. In addition, Applied Multilayers has agreed licenses to its patented technology for specific processes for in-line and roll to roll configurations.

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