



**Samarate (Milan), Italy - Techflow Design & Manufacturing Inc.** announces it's second open house to introduce the latest in Co-Extrusion technology commencing February 13<sup>th</sup> - 18<sup>th</sup>, 2006. The open house to take place again at our associated European headquarters in Samarate, Italy which is located just North of Milan. Running will be a 220mm 3 layer High Density IBC line with auto gauge control. To arrange a formal invitation contact Techflow Design & Manufacturing Inc. either by phone # 905-542-2064 or through email at [info@techflowdesign.com](mailto:info@techflowdesign.com)

**Provided below is a technical list of machinery that we will be presenting**

- **Integrated management system -** represents the more complete and technologically advanced INTEGRATED MANAGEMENT SYSTEM in the supervision of a film co-extrusion plant. It is a supervisor with functions of process regulator and data acquisition and analysis which is capable of running by itself an entire film co-extrusion plant, automatically regulating and controlling resin dosage and capacity, ratio, basic weight, thickness, width, speed, tensions, fan capacity, etc.
- **ZG Extruders:** All extruders are gearless, introducing Siemens new gearbox free motors. 26:1 L/D comprising of two 55mm, and one 70mm.
- **Control Panel:** A color touch screen terminal controller for all 20 zones
- **Automatic gauge control -** The system has a very sophisticated and powerful management software, thanks to the exclusive control and adjustment algorithms, makes the necessary corrections in order to keep the tolerance of the film at the minimum values
- **220mm 3 layer Die:** "Flow Mixing" channel concept is incorporated in the die in order to address the problem of cross sectional flow passage material property variations
- **Ultrasonic IBC System –** Multiple ultrasonic sensor configuration
- **Oscillating Haul Off –** 1800mm width & top nip with wooden slats
- **Automatic Edge guide -** Edge guide will maintain the web centered regardless of the width of the film
- **Single surface winder –** complete with magazine and hydraulic roll discharge
- **3 Layer Gravimetric feeding -** Microprocessor device that supervises the management of the gravimetric hopper levels, the loading cycles and adjusts the line and extruders speed.

**Revolutionary Featured Equipment:**

**Siemens Gearbox free Extruders:**

All extruders are equipped with Siemens liquid cooled motors (gearless).

**Major Advantages:**

- Eliminates gearboxes
- Eliminates belts and pulleys
- Extreme bearing life as motor runs at lower speeds (RPM)
- Extremely efficient as no mechanical power transmission losses
- Space saver, requires a much smaller extruder base

**2) Featured Special High Density IBC Hardware coating:**

Revolutionary, enhanced thermal spray composite coatings feature high levels of wear and corrosion resistance dry-lubricity and mold release not possible with conventional spray methods. Infused matrix of metals, ceramics, polymers and/or dry lubricants creates structural integrity and a non-porous, moisture-proof surface.