



Samarate (Milan), Italy - Techflow Design & Manufacturing Inc. announces it's third open house to introduce the latest in Co-Extrusion technology commencing November 13th - 18th, 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 400mm 3 layer LLDPE, LDPE lbc line with inline bag machine. To arrange a formal invitation contact Techflow Design & Manufacturing Inc. either by phone # 905-542-2064 or through email at 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:** Extruders are comprised of two 65mm for the skins and 90mm in the center. All extruders are 30:1 L/D
- **Control Panel:** A color touch screen terminal controller for all 28 zones. Panel is air conditioned
- **400mm 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 configurations.
- **Three Layer Rotating Block** – Precisely ground thrust bearings to suit proper mechanical seal requirements. Streamlined designed to improve dispersion of polymer flow at side block entry, producing a dramatic reduction in gauge bands.
- **Corona Treater** – Double sided treater to treat both sides of the film. High tension flashover bar divided into segment with variable width for every type of treatment.
- **Inline Bag Machine** - Bottom sealing bar with upper and lower profiles constantly heated by means of cartridge heating elements, the temperature are controlled by two independent electronic thermo regulators. Sealing bar support's cooled by closed circuit refrigerator unit. The machine operate with servo drive *BRUSH-LESS* motor to assure accurate material tension control in synchronism whit sealing bar movement, in order to avoid seal stretching. All machines' functions operated and controlled by on-board computer. All functional parameters as: speed, bag length, sealing time, photocell reading range are entered by means of keyboard and displayed on main panel's monitor. Photocell eye for production of printed materials.
- **Dual surface winder** – complete with magazine, terminal touch screen 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.
- **Two color printing unit** – To print films up to widths of 2000mm. Printer by Filippini & Paganini.
- **Tower and Overall Set up** - Total height of 11.8 meters (8 feet) comprised of 3 platforms, first one at 3.7 meter (12 feet) from floor. On first floor the platform is provided with an extra extension 4.3 meter x 6.5 meter (21' x 14') for installation of Corona treatment, flexo-printing machine 2 colours, and Split & seal unit including a gusseting device. A total of 10 tower idle rollers for material passage, plus a bypass for printing and slit seal when required. The tower is complete with stairs, kickplate and safety rails.