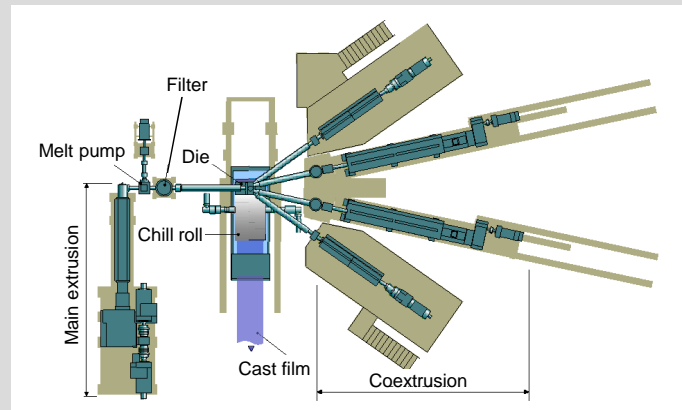


Upgrade to Multilayer Extrusion: „ready for future film types“

In today's competitive market situation, companies are in a constant search to increase their profitability. A proven way to achieve this target is the production of higher margin films, such as 5 layer films, on existing lines. Manuli Film, one of the largest BOPP producer in Europe, has made such a strategic decision. After extensive studies for market and feasibility, Manuli awarded the contract for upgrading one of their existing 3 layer line to a 5 layer performance to Brückner Servtec.



For this modification the raw material feeding with the necessary platforms and the raw material feeding of the new coextruder were completely renewed, the existing main extrusion and coextrusion just partly. Furthermore for a more exact flow of material, gravimetric dosing units were installed. These units work very exact and material flows are shown in the advanced visualisation system (PVSS2) of the Brückner Company.

Applications for 5 layer films:

- Self adhesive labels (matt or glossy)
- Wrap around labels
- High speed Form-Fill-Seal: Horizontal Form-Fill-Seal (HFFS) and Vertical Form-Fill-Seal (VFFS)
- In-Mould labels (Injection)
- In-Mould labels (Thermo forming)
- Film for lamination to paper, PE, or other films
- Overwrapping
- Pressure sensitive labels

Latest process technology

Two additional co-extruders with melt pipes, filter and adapter block and a new die with die lip adjustment were installed according to Brückner's latest state of the art process technology.

To achieve the best possible efficiency and control of the die lip adjustment with its fast reacting bolts, a new thickness gauge system was installed in connection with the profile control system "TCE" of Brückner.

TCE has been proven to achieve outstanding results regarding film flatness, roll and winding quality as well as speed of control.



Further information at:
 Brückner Servtec GmbH
 Königsberger Str. 5-7
 83313 Siegsdorf
 Germany
 Phone +49 86 62 63-9252
 E-mail servtec@brueckner.com



Top results with good team spirit

The total time for implementation and start-up was just 22 days. Manuli's project manager had established a team of own workers and local contractors for erection, assembly on site and electrical installation. From Brückner Servtec's side the on-site team consisted of one mechanical specialist, one electrical specialist, one electrical engineer, two engineers from sub suppliers and one process engineer.

"There was a good team spirit. Whenever there was an unforeseen situation, which happens in such a complex project, the team handled this with a high flexibility and motivation" said the plant manager of Manuli and: "The start-up date was exactly on schedule. This is essential for successfully going to market with the new products."

We wish Manuli a successful operation of their new 5-layer production!

Important facts about Manuli:

- **Established in 1983, one of the oldest BOPP manufacturer in Europe**
- **One of the largest BOPP manufacturer in Europe with a capacity of more than 100.000 tons/year**
- **Operates one of in total four 10m-lines in the world (all are made by Brückner)**
- **Operates 5 production lines in their plant in Sessa Aurunca, Italy**
- **www.manulifilm.it**

Benefits of a 5-layer-upgrading:

- **High flexibility**
- **Ready for new materials**
- **Ready for future film types**
- **3- and 5-layer film with the same equipment**
- **Wide application range for white-opaque films**
- **Low condensate**
- **Increase output**
- **Cost savings (no expensive additives in inside layer)**



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