TX120 Twin-screw extruder

- Barrel length to diameter ratio: 21 to 1.
- Barrel bore nominal diameter 110 mm

The extruder comprises:

21:1 one-piece frame constructed in mild steel plate and finished in high quality gloss paint. All welds are smooth and crevice free.

The drive of the extruder consists of the following:

- Zambello Riddutori splitter / reduction gearbox capable of transmitting in excess of 450kW, at a maximum screw speed of 500 rpm, for 24 hours/day operation. The gearbox will be equipped with an oil circulation pump that pumps the oil through a heat exchanger and filter, and back to the gearbox. The gearbox and motor will be connected through an overload protection coupling, which can be set to disengage at a specific torque.
- 400kW AC variable speed drive motor (ABB) capable of operating at full torque between 20% and 100% of full speed.

21:1 Barrel of segmented design. Equipped with the following:

- Barrel consists of 6 zones of heating and cooling, excluding the feeding zone.
- One set of through hardened 1.2379 material barrel liners with heating/cooling blocks.
- Zones of heating and cooling temperature control (Feed port has no heating elements).
- 1 Raw material feed port barrel segment, equipped with raw material feed chute
- One set of segmented screw elements, 21D long in total, suited for the products extruded, material 440C martensitic stainless steel
- 2-Off 21D high-torque shafts
- Zone heating through electric band heaters
- Temperature measurement via the use of PT100 RTD’s
- Profile die with product die-face cutter
- Barrel fitted with removable insulation shell with stainless steel covers.