Twin Screw
Auxiliary Devices
Twin Screw Auxiliary Devices

Auxiliary devices in twin screw technology
The principle of the co-rotating tightly intermeshing twin screw extruder has proved its capabilities also for auxiliary devices. Auxiliary devices designed corresponding to the principle of the “Erdmenger profile” help to increase the productivity and the job safety of compounding lines.

These devices are available not only for almost every type of co-rotating twin screw extruder, they are also available for our RingExtruder.

Sidefeeder
The devices of our DSB SF series ensure safe conveying of materials like filler, additives or glass fibers in either powder, pellet or in fiber form. The co-rotating tightly intermeshing screws are self-cleaning and have an improved conveying behaviour due to the forced conveying in the intermeshing section.

The Extricom devices have already proved their reliability in many long term operations. A high variety of materials regarding wear protection is available. Also available are several additional features like agitators, cooling shells or heated barrels for the side feeder. The complete DSB SF series is designed in modular units for highest possible flexibility.

Side feeders are commonly used due to following reasons:
- Reduction of wear costs in the melting section
- Gentle processing of additives, fillers and fibers
- Optimization of the throughput rate
- Optimization of the product quality
- Reduction of premix costs
**Vent port stuffer**

Stuffers are used quite commonly in many applications with frequent product changeovers or difficult process conditions. The Stuffer provides a safe devolatilization without encountering any withdrawing material out of the vent port.

The two co-rotating tightly intermeshing screws convey any withdrawing material back to the process section of the main extruder. Simultaneously the volatile components are devolatilized through the axially open screw channels of the 2-lobe “Erdmenger profile”.

**The use of vent port stuffer provides several advantages:**

- Minimization of labour costs
- Reduction of production down time
- Reduction of material trash due to cracked material in vent ports which causes black spots
- Optimization of the throughput rate, possibility of higher degree of fill/screw speed

From the point of long-term profitability the stuffer is the operator’s first choice. Also, the well known wear and tear of vent port plugs due to the processing of abrasive or corrosive materials is avoided by usage of the stuffer.

The modular design of our STB ST series enables the adaptation onto almost every main extruder. It doesn’t matter if it’s a twin screw extruder, RingExtruder or even just a simple single screw extruder.

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Special auxiliary devices

Based on our sidefeeder and stuffer series we also deliver several “customized” solutions:

- Sidefeeder with special machine frame/design for the reduction of product change-over times
- Twin screw stuffing screws for the vertical feeding of materials into main extruders
- Devices for the separation of liquid/solid phases
- Devices for the devolatilization of products during the filling process

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