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Pharma Extruders



First-class twin screw extruders for continuous mixing of pharmaceutical active ingredients

Coperion is pioneer in the development of high-end closely intermeshing, co-rotating twin screw extruders. We possess a unique know-how and an extraordinary wealth of experience in this continuous production process. Since the beginning of pharmaceutical extrusion we have continuously set new standards in the continuous manufacturing of pharmaceutical products with our special ZSK pharma extruders. This begins with special applications on a laboratory scale and extends right through to continuous pharmaceutical production systems.

TECHNICAL DATA

ZSK	Max. torque per shaft [Nm]	Specific torque Md/a^3 [Nm/cm ³]	Max. screw speed [min ⁻¹]	Max. motor power N [kW]	Screw diameter [mm]
18 MEGALab*	38	11.3	1,200	10	18
26	140	15	1,200	37	25
32	315	18	1,200	83	32
40	510	13.6	1,200	135	40
70	3,500	18	1,200	924	70

* Laboratory extruder

Highest performance even for smallest batch sizes. Modular construction, GMP design, maximum speed, highest power density, safe scale-up, tailor-made controls – the ZSK 18 MEGALab laboratory extruder is the smallest member of the ZSK family. This targeted and further development of proven ZSK technology extends the performance range of the series for R&D and production of pharmaceutical materials in a minimum quantity range.

- $Md / a^3 = 11.3 \text{ Nm/cm}^3$
- $D_o / D_i = 1.55$
- Maximum speed = 1,200 rpm
- Maximum length of process section = 15 barrels (60 D)
- Throughput rates between 1 and 10 kg/h
- Quick plug & play commissioning
- Reliable, low noise drive concept
- Modular construction with exchangeable 4D barrels and all standard screw elements
- Flight depth of 3.2 mm enables pellet feeding
- Simple to operate via PLC control and touch screen
- Compact size – mobile stainless steel base frame with integrated controls and water cooling system with option for direct mounting of a Coperion K-tron solid feeder
- Proven scale-up due to geometrical constancy within the ZSK series

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