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STS Mc¹¹ Compounder



Compounders for considerable increases in throughput

With its specific torque of 11.3 Nm/cm³ STS Mc¹¹ compounders sets standards: it features up to 27% higher throughput rates than the preceding model, while the higher degree of screw fill results in a decrease of melt temperature, thus improving compound quality. It incorporates the full process and quality know-how of Coperion.

The STS Mc¹¹ series is exclusively equipped with European, Coperion branded gearboxes. Maximum screw speed has been increased from 800 to 900 min⁻¹. To improve cleaning and facilitate quick changeovers for masterbatch applications, the STS twin screw extruder also features optimized hoppers with inserts and a redesigned die head. The screw shaft coupling is similar to the one long proven in the ZSK Mc¹⁸ series. The optimized base frame withstands torsion under maximum stress.

The STS Mc¹¹ compounder covers most standard applications in process technology. It offers high productivity at an attractive price-performance ratio. Production of the STS Mc¹¹ is in Nanjing, China, in compliance with CE directives. The result: A high-performance compounding system with low investment costs which ensures a fast return on investment. The modular design of the process section allows maximum flexibility in production at process lengths of 24 to 68 D.

LABORATORY EXTRUDER STS 25 MC¹¹

Coperion's STS 25 Mc¹¹ extruder boasts all the advantages of the STS Mc¹¹ series, has a simple design, is operator-friendly and easy to clean. The base frame has a closed, simple to clean surface and is equipped with castors for easy movement of the extruder and fast installation. By having the same screw diameter ratio D_o/D_i of 1.55 and the same maximum specific torque M_d/a^3 of 11.3 Nm/cm³ as the whole STS Mc¹¹ extruder series, production parameters of the STS 25 Mc¹¹ can be reliably scaled up to larger STS sizes which makes it the ideal compounding system for recipe development and basic scientific research.



TECHNICAL DATA

STS Mc ¹¹	25	35	50	65	75	96	125
Specific torque Md/a ³ [Nm/cm ³]	11.3	11.3	11.3	11.3	11.3	11.3	11.3
Max. torque per shaft [Nm]	106	305	835	1,590	2,440	5,350	11,600
Max. screw speed [rpm]	1,200	900	900	900	900	600	600
Max. motor power [kW I Hp]	30 I 40	60 I 81	165 I 221	315 I 422	483 I 648	706 I 947	1,700 I 2,280
Max. throughput rate [kg/h I lbs/h]	110 I 243	260 I 573	800 I 1,764	1,400 I 3,086	2,200 I 4,850	4,200 I 9,259	8,000 I 19,030

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