

## DSM Microcompounder -Specifications

### Technical Specifications

Batch-volume: 5 ml (Vari-Batch™ batch size 2-5 ml multiple recirculation channels)

Divisible barrel (Hardness 65 HRc)

- Coating hardness: 2000 Vickers
- Chemical resistance up to 450 °C between pH 0-14
- Fluid-tight, so added liquid remains in barrel (also due to vertical position of barrel)

Easy to clean; real tough remains to be removed with a stainless steel brush without damaging

Detachable conical screws, fully intermeshing (Hardness 54 HRc)

- Coating hardness: 1000 Vickers
- Chemical resistance up to 450 °C between pH 0-14

Temperature control: Up to 6 heating zones or via melt thermo couple

Maximum operating temperature: 400 °C

Heating time (from 20 to 240 °C): 10 min.

Cooling time (from 240 to 80 °C): air 35 min., water 10 min.

Controlled heating zones: 2x3,

Heated by 8 thermo cartridges and controlled by 9 thermo couples (temperature gradient)

Mixing/Dispersion control: RPM or Axial Force

Maximum axial Force: (for mixing/dispersion) up to 5000 N

Screw speed: continuously variable 1 - 400 RPM

Hopper volume: 5 ml

Supply voltage: 208 - 240 V AC, others on request

Main drive: DC controlled; 550 Watt

USB Port

Maximum torque 6 N/m per screw

Overall dimensions: 80x70x40 cm

Weight: 95 kg

Optionally:

Counter Rotating Gearbox

Varibatch™

Pneumatic Feeder

Safety transfer coupling for our Injection moulding machine

Continuous mode

- special feeding screws
- cooled hopper