

# BUSS KNEADER TECHNOLOGY



## COMPEO LAB Compounder

The COMPEO LAB is a versatile laboratory and pilot compounding line for development, process optimisation and small production runs. It is suitable for a wide range of applications, from shear-sensitive materials to demanding engineering plastics. This user-friendly laboratory compounder rounds off the COMPEO series with throughputs of 50-100 kg/h at the lower end. The COMPEO LAB opens up completely new process engineering possibilities thanks to the possibility of combining three- and four-flight screw elements. The temperature-controlled screw shaft ensures reliable scale-up to production conditions.



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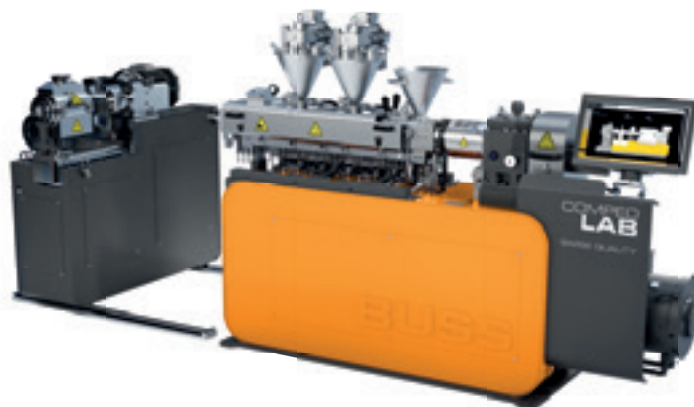
excellence in compounding

## Performance features and specific advantages

- ✓ Throughputs 50-100 kg/h
- ✓ Optimum accessibility to the process zone
- ✓ Combination of 2-, 3-, 4 flight-elements
- ✓ Screw shaft temperature controlled (liquid)
- ✓ Precise temperature control
- ✓ Compact ergonomic design
- ✓ Intuitive HMI touch panel
- ✓ Reliable scale-up to production conditions
- ✓ Various options for optimising process parameters

### Options

- ✓ Dosing units
- ✓ Side feeder
- ✓ Additional inlet screw
- ✓ Melt pump
- ✓ Melt filter
- ✓ Air/water pelletizing
- ✓ Strand pelletizer



## Technical Data

### Kneader

Process length	25 L/D
Screw diameter	45.5 mm
Screw speed	up to 600 rpm
Drive power	27.5 kW
Throughput range	50-100 kg/h

### Inlet hopper

Hopper volume	4 dm <sup>3</sup>
Dosing connections (plus separate venting)	2

### Inlet screws

Hopper volume	4 dm <sup>3</sup>
Speed (frequency converter as option)	140 rpm
Drive power	each 0.37 kW

### Discharge extruder

Screw diameter	70 mm
Process length	6 L/D
Drive power	5.5 kW

### Heating media

Low temperature (up to 200 °C)	Water
Medium temperature (up to 300 °C)	Oil
High temperature (up to 400 °C)	Electric

