

# **EXTRUSION FACILITY AT RUTGERS UNIVERSITY**

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# Extruders in our pilot plant

## Single screw extruder

- ✓ A C.W. Brabender (Hackensack, NJ) single screw extruder
- ✓ L/D ratio for the barrel - 20:1
- ✓ Operating temperature range - 30 °C - 200 °C
- ✓ Maximum screw speed – 230 RPM
- ✓ Maximum power 6.1 kW
- ✓ Screw compression ratio – 1:1, 2:1, 3:1, and 4:1
- ✓ Variety of dies are available
- ✓ Typical throughput of 5 kg/h

## Twin screw extruder

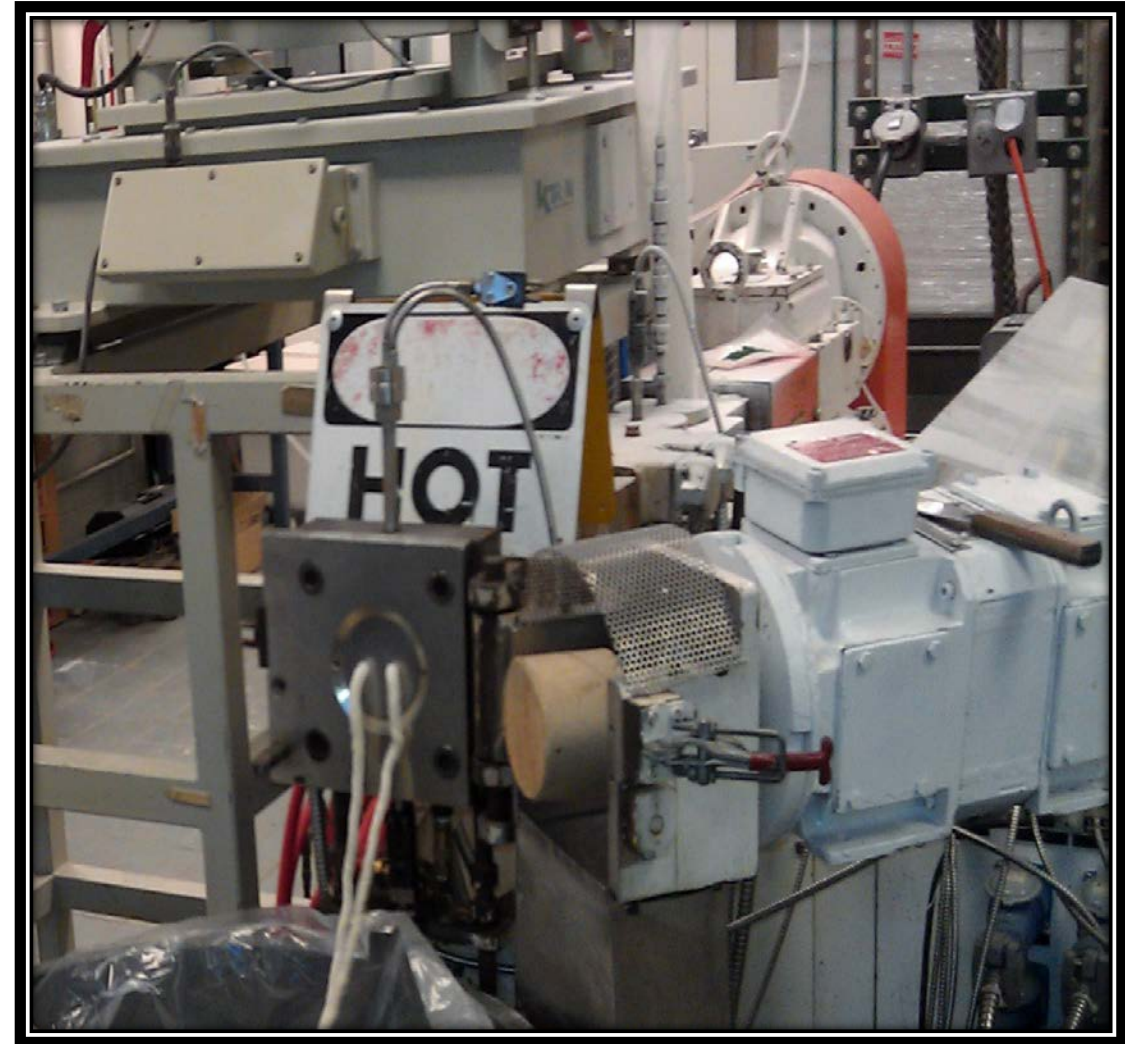
- ✓ Coperion (NJ) ZSK-30 co-rotating, self-wiping twin-screw extruder
- ✓ L/D ratio for the barrel - 30:1
- ✓ Operating temperature range - 30 °C - 200 °C
- ✓ Maximum screw speed – 500 RPM
- ✓ Maximum power: 9.1 kW
- ✓ Variety of screw configurations are available
- ✓ Typical throughput of 20 kg/h.

Laboratory scale dryer and tumble-coater available upon request.

# SINGLE SCREW EXTRUDER (LABORATORY SCALE)



# TWIN SCREW EXTRUDER (LABORATORY SCALE)



# Products extruded in our lab

