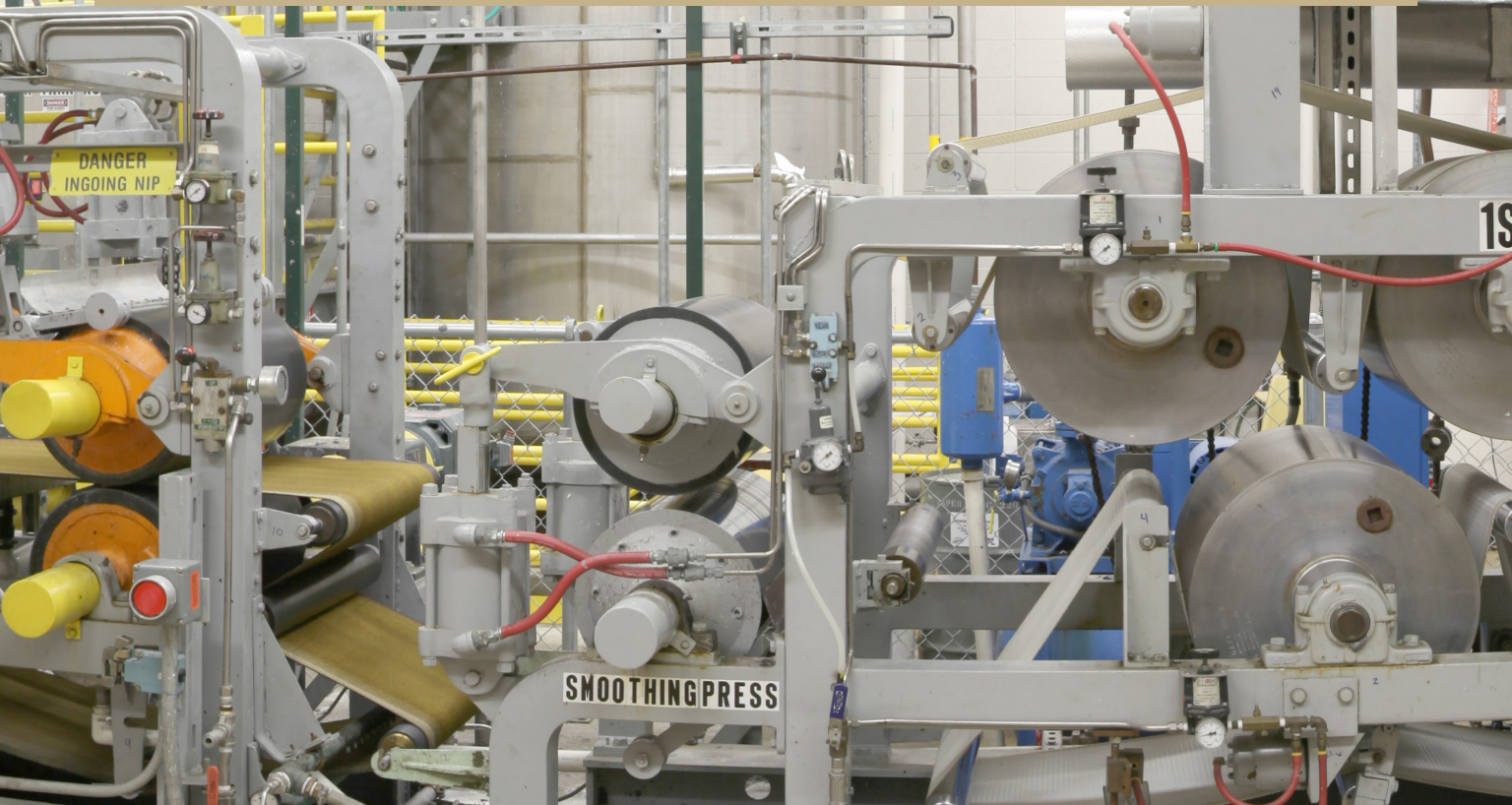


# Fourdrinier Pilot Paper Machine



- Raw material and/or chemical additive studies
- Retention studies
- Furnish studies including non-cellulosic and non-wood fibers
- Pulping and bleaching
- Commercial grade development
- Production runs
- Equipment evaluation
- Recyclability and repulpability studies

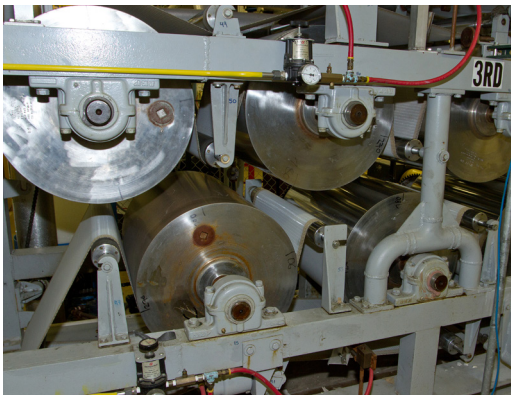


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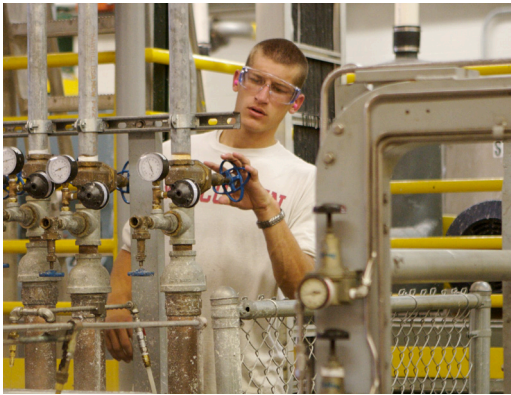
# Pilot Plant Specifications

- Fourdrinier machine
- Speeds up to 200 fpm
- Produces a 20-inch sheet in basis weight from 25 to 400 gsm
- Chemicals can be metered in at seven locations
- Wet end includes a dandy roll, single-felted two-nip wet press and a smoothing press
- Dry end features two independent dryer sections, horizontal size press and calender stack
- Stock preparation area features a hydropulper, two-stage cleaner system, slotted pressure screen and automated temperature control



# Pulping and Bleaching

- Trials for wood and non-wood biomass, including food-processing byproducts and agricultural residual materials
- Benchtop equipment sized 50-360 grams dry product weight
- Tank volume pulping and bleaching tests with 5-liter, 10-liter and 100-liter vessels
- Quantum mixer allows bleaching experiments with chlorine dioxide, hydrogen peroxide and ozone



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