Endless Possibilities

- Wet end studies
- Filler studies
- Drying studies
- Wet laid non-woven capabilities
- Cellulose fiber
- Non-cellulose fiber
- Synthetic blends
- 100% synthetic
- Experience using non-cellulosic and non-wood plant fibers
- First pass retention studies
- Toll paper making

Fourdrinier

- Papers and boards 24 in. (610 mm) wide at speeds up to 120 fpm (36 m/min).
- Grades manufactured range from 16 to 400 lb (3,000 ft² ream size) or 26 to 750 gsm.
- Continuous operations practical at production rates up to 160 lbs per hour (72.5 kg/hr).

Paper Making Equipment

Size Press:
The paper machine has a flooded-nip horizontal size press. We also have the ability to run pre-made paper through our size press. Depending on how much paper you need, you can test as many as 35 different size press formulations in a single eight-hour day.

Spray Sizing:
The spray system allows you to apply starch/chemicals to the newly formed sheet before it hits the first dryer can.

Refining:
Western has two identical Beloit Jones 12 in. double disk refiners. One is located in stock prep and the other is located at the wet end of the paper machine. Each refiner has a disc speed of 1,200 — 1,800 rpms, a disc diameter of 12 in. (305 mm) and horsepower at 100 (74.5 kW). Both refiners can be used during a papermaking trial.

Pulping:
Wet pulp, dry lap, broke, or post consumer paper is repulped using a Black Clawson hydroulper. The hydrapulper is 6 ft (1.8 m) in diameter with a 500 lbs capacity and has the capability to run as high as 18% consistency. Deinking, bleaching, kneading, and cleaning also available.

The paper machine wet end can now be run as a closed-loop system as well.