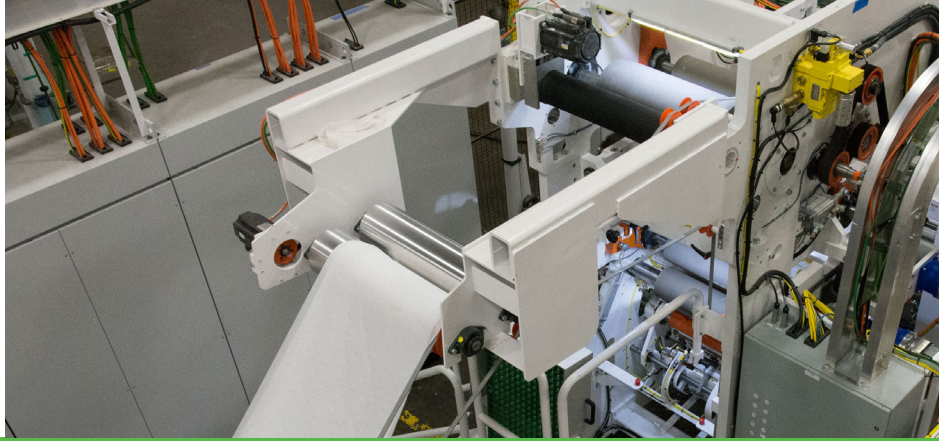


Lab Line



GET REAL-WORLD RESULTS BEFORE GOING TO MARKET

KEY ADVANTAGES

- Test new paper formulations, adhesives and coatings
- Develop new tissue, towel, napkin and nonwoven products on state-of-the-art rewinding equipment
- Optimize your product by testing embossing changes as you go
- Use a variety of embossing processes; nested, random nested, point-to-point, calendaring, matched steel, rubber to steel, heated or cooled embossing
- Develop samples for internal testing or larger runs for consumer use testing
- Strong relationships with key paper suppliers
- Latest Rockwell Automation control package with PF 755 sectionalized drives, Kinetix 6500 servos and Guard Logix PLC
- Flexible and knowledgeable operational test team to optimize products by incrementally testing and analyzing process changes on the fly

SPECIFICATIONS

Machine Performance

| | |
|-------------------|----------------------------|
| Maximum web speed | 650mpm (2132fpm) |
| Max cycle rate | 45 logs/min |
| Web width range | 203 - 650mm (8.0" – 25.6") |
| Unwinds: | 2 |

Product Characteristics

| | |
|---------------------|---------------------------|
| Core diameter range | 38 - 60mm (1.50 - 2.36") |
| Roll diameter range | 90 - 200mm (3.54 – 7.90") |

OPTIONAL

Product quality analysis

On-site test capabilities with detailed reports featuring:

- Bulk
- Strength
- Caliper
- Stretch