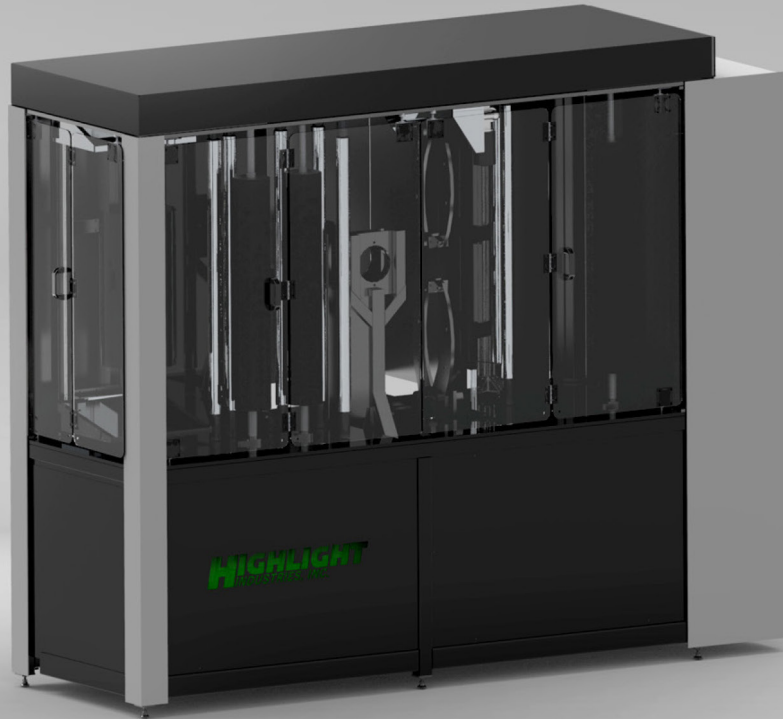# TS Revolution

Complete Stretch Film Testing System

The TS Revolution test stand is the most advanced stretch film testing system in the world. The TS Revolution tests all relevant film characteristics to create quick, easy, and accurate comparison and quality control records.

The TS Revolution was designed from the ground up based on Highlight's 25+ years of test equipment experience and features all the capabilities of previous designs plus several new features and tests, all at improved speed and accuracy.

KEY FEATURES:

- Precision servo controls and measurement
- Automatically transitions between and performs all tests
- Video playback of film breaks
- Simple interface, deep control
- Cloud data hosting and interface from any web-enabled device

The next generation of stretch film testing has arrived

	CURRENT TEST STAND	COMPETITION	TS REVOLUTION
FULLY AUTOMATED	✗	✗	✓
PRECISION SERVO CONTROL	✗	✓	✓
CLOUD DATA ACCESS	✗	✗	✓
COMPARE RESULTS TO INDUSTRY AVGS	✗	✗	✓
VISION BASED HOLE DETECTION	✓	✗	✓
VIDEO PLAYBACK FOR FILM BREAKS	✗	✗	✓
DIRECT TORQUE MEASUREMENT	✗	✗	✓
STRETCH WRAPPER SIMULATION	✗	✓	✓
S AND W THREADING PATTERNS	✗	✓	✓
MADE IN USA	✓	✗	✓
MAXIMUM TESTING SPEED	1000 fpm	800 fpm	1500 fpm

TS REVOLUTION TESTS INCLUDE:

- Ultimate Test
- Quality / Consistency Test
- Hole Detection Test
- Cling Test
- Puncture Resistance Test
- Tear Resistance Test
- Retention Test
- Transverse Direction Stiffness Test
- Stretch Wrapper Simulation Test

MEASUREMENTS TAKEN:

- Unwind force
- Ultimate stretch %
- Machine direction stiffness
- Transverse direction stiffness
- Film holes, size, position, pattern
- Edge issues
- Unwind noise
- Neck-down
- Testing temperature and humidity
- Film consistency / quality
- Tear resistance
- Cling
- Roll length
- Retention
- Puncture resistance