Currently, Gore employees in Research and Development manually unwind large rolls of material in order to cut samples for inspection.

Key Features:
- Variable speed drive capable of handling many size rolls
- Adjustable tension control which maintains preset tension as diameter changes
- Precision distance counter with digital display
- Ergonomic consideration in sample collection

Testing:
- Machine completely rewound a 26" diameter, 60" long, 1020 lb roll with only 1.5" of lateral deviation.
- Set up / take down only took 6 minutes, and changeover between motor drive and hand crank only took 2 minutes.
- Hand crank operation only requires 1.5 – 2.5 ft-lb torque.
- Sample cutting height was between 17" and 49" from the ground.

Concept Validation:
Device exceeded expectations and will improve plant operations by saving ~260 hrs/year in R&D time. The machine is expected to pay for itself within 2-3 years.