SYDOR

TECHNOLOGIES



AUTOMATIC PAPER TARGET

COMPLEX MEASUREMENTS—CRITICAL RESULTS

FEATURES

- High capacity paper rolls
- Automatic operation with shot-detectors available
- Sturdy framework design
- Portable with locking wheels

APPLICATIONS

- Barrel Erosion Testing
- Automatic Paper Target System

ABOUT THE AUTOMATIC PAPER TARGET

The Automatic Paper Target is primarily designed for barrel erosion tests where the paper is moved during bursts of fire to detect the onset of yawing projectiles from barrel wear, (for example as in NATO AEP-97 s.16). However the system has also been paired with Sydor's Digital Camera Target to provide a rolling baseboard which target sheets can be affixed too.

The target paper rolls can be up to 1 meter wide and over 500 meters long (depending on paper weight selected).

Two versions are manufactured - the first provides automatic paper advancement and the second provides remote manual control.

The automatic option is most suitable for barrel erosion tests, where the system detects shots and automatically advances the paper (typically at speeds of 20 cm/sec). An electronically controlled brush-less AC motor is used to drive the paper rolls and the rotation speed is automatically adjusted as paper is used.

One available design is ideal for simple target applications. With this design, the unit can be remotely controlled by a cable and switch up to 200 meters from the target upon requst.

PRODUCT SPECIFICATIONS

- Paper Width: Up to 1 m
- Paper Target Area Height: 960 mm
- Paper Roll Holders: Lift off rollers with adjustable ends for different paper widths
- Paper Capacity: Up to ~580 m of 95 gsm paper
- Paper Loading & Removal: Integral multi-part hoist to aid with lifting
- Paper Speed: ~20 cm/s (adjustable)
- Motor Start: Manual or trigger
- External Trigger: Acoustic, flash, or contact closure
- Motor (for controlled speed version): Electrically controlled
- Shot Detector: Solid State Blast Switch when automatic operation included
- Controls: Local & remote
- Power: 220 V AC 50 Hz approx. 200VA, (110 V AC to special order)

PHYSICAL & ENVIRONMENTAL SPECIFICATIONS

- Framework: Sturdy aluminum section frame that can be disassembled
- Dimensions: 2.2 m (H) x 1.55 m (W) x 0.80 m (D)
- Weight: 90 kg (without paper)
- Operating Temperature: 0 – 40°C (extended temperature possible)
- Relative Humidity: Paper grade dependent