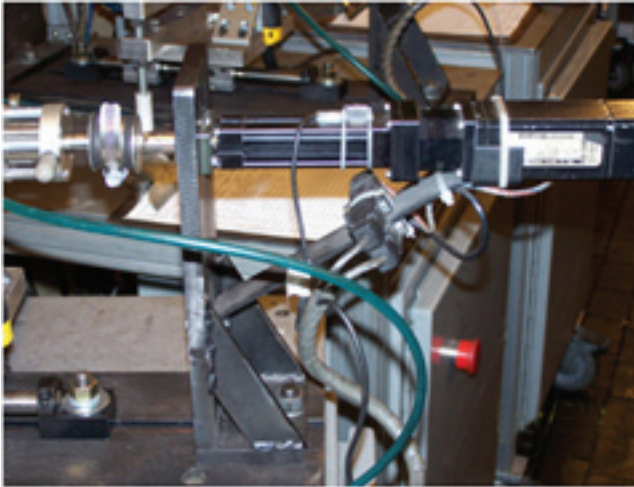


**APPLICATION SOLUTION: Life Testing Power Drill**



**Product Family:** Electric  
**Product Used:** RSA Screw Actuator  
**Product Type:** Standard

**Application Requirements:**

**Stroke:** 4 inches

**Speed:** 4 in/sec

**Load:** 20-200 lbs

**Motion Profile:** Triangular or Trapezoidal depending on test criteria

**Application Description:**

Life testing of power drill clutch force in drywall screw installation

**Challenge:**

A manufacturer of quality power tools needed a test fixture that would dynamically test clutch force of their power drill when applying drywall screws at a rate of 1 to 6 times per minute. The test fixture would require a long life, continuous testing on a multi-year basis (6 plus years) with sustainable performance. A thrust accuracy of +/- 1/4 lb would be required in controlling acceleration and velocity.

**Tolomatic Solution:**

A Tolomatic RSA rod-style screw actuator was selected to repeatedly apply force until the clutch engages.

**Customer Benefit:**

- Electric actuator provided repeatable and accurate thrust for continuous product testing
- Reliable performance with long life