



TORONTECH

PRESTRESSED CONCRETE STRAND TESTING



PC Strand Testing Equipment - Comprehensive Solutions for Prestressed Concrete Applications

Torontech offers a complete range of testing machines for PC Strand (Prestressed Concrete Steel Strand) to ensure compliance, durability, and structural performance in construction and infrastructure applications. Our advanced systems support the testing of 7-wire PC strands, low-relaxation strands, and high-tensile steel wire in accordance with the most recognized international standards.

Common Test Methods & Standards

Torontech's PC Strand testing equipment complies with leading standards such as:

1. ASTM A416 / A416M – Standard Specification for Low-Relaxation, Seven-Wire Steel Strand
2. ISO 15630-3 – Steel for the reinforcement and prestressing of concrete – Prestressing steel
3. EN 10138-3 – Prestressing steel – Strand

Key Testing Applications

To meet the demanding quality requirements of prestressed concrete components, we offer solutions for:

1. Tensile Testing – Evaluate yield strength, tensile strength, and elongation using Universal Testing Machines (UTMs)
2. Stress Relaxation Testing – Assess long-term load-bearing capacity of strands under constant strain
3. Axial Fatigue Testing – Simulate cyclic loading for bridges, buildings, and infrastructure durability
4. Deflection and Ductility Testing – Analyze deformation behavior under controlled loading
5. Stress Corrosion Testing – Detect susceptibility to failure in corrosive environments, especially for marine and underground applications

Complete Product Range

Torontech's portfolio includes:

1. Stress Relaxation Testers
2. Universal Testing Machines (UTMs)
3. Deflection Tensile Testers
4. Axial Load Fatigue Testing Machines
5. Stress Corrosion Cracking Testers

Our equipment delivers high accuracy, robust performance, and user-friendly operation, making Torontech the trusted partner for quality control and R&D in PC strand production, inspection, and structural engineering.



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