

Universal Tensile Machine OIS-PC5000N

Precision Testing for Gloves, Rubber, Metals, and Composite Materials

The **OIS-PC-5000N** is a high-precision, computer-controlled universal testing machine designed for tensile, compression, bending, peel, shear, adhesion, puncture, and tear testing. With advanced measurement and control software, it delivers accurate, reliable results for a wide range of materials including **nitrile gloves, plastics, rubbers, metals, and composites**. The **OIS-PC-5000N** provides manufacturers, laboratories, and research institutions with a versatile and essential tool for quality assurance and product performance evaluation across multiple industries.

Applications

The OIS-PC-5000N is widely applicable for **metallic and non-metallic material testing**, ensuring compliance with **ASTM, ISO, and EN standards**. It is suitable for testing:

- **Gloves and Films** – tensile strength, elongation, puncture resistance
- **Rubber and Plastic** – stretching, compression, tearing, peeling
- **Wire and Cable / Optical Fiber Cable** – tensile and bending strength
- **Safety Belts / Leather Belts / Composite Belts** – load capacity and extension
- **Plastic Profiles / Waterproof Coils** – tensile and tear resistance
- **Metals** – including steel pipe, copper, stainless steel, spring steel, bearing steel, steel plate, casting materials
- **Other Tests** – shearing, two-point extension (with extensometer)

Specification

Test item	Power and selective elongation	display	PC display
Unit of force	Kg, N, Lb, g	Extension unit	mm, cm, in, %
Capacity selection	1, 2, 5, 10, 20, 50, 100, 200, 500kg		
Load element accuracy	Less than 0.5%	Force resolution	1/200000
Test maximum stroke	Maximum 650mm (1000mm for extended type) excluding jig	Effective test space	Diameter range 120mm
Test speed	Adjustable 0.1-1000mm/min		
Stop mode	Upper and lower limit safety setting, emergency stop key, program force and elongation setting and test piece breakpoint sensing		
Equip with power	Standard preparation fixture set, use help book and product warranty card each Ac servomotor		
Standard arrangement	PC connection kit (1 signal cable, 1 decryption lock, 1 program CD)		
Weight	50Kg		