SmartPull
Tensile Tester

SmartPull Tensile Tester is AC servo-driven and equipped with ball screws to provide stable pulling force and achieve higher testing accuracy. The software of the tester is compatible and powerful by outputting comprehensive test indexes, such as displacement, maximum force, elongation, stress, etc.; and there are various safety designs to protect the instrument and the operator's safety. It is a tensile machine specially built for textiles, leather, footwear, etc. It can do tension, compression, bending, tearing, shearing, peeling and top breaking tests. It is applicable to many international standards, such as ISO 9073-3, ISO13934-1/2 , ASTM D5034, ASTM D5035, ISO 3377-2, ISO 13937-3 ,FZ/T 01030 , GB/T 19976 and so on.

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	Power
⚡	220/110V 50/60Hz
⚖	**Weight**
	90kg
📏	**Dimension**
	630*460*1470 mm(D*W*H)

The Specification of SmartPull

Testing capacity	250kg,(500kg is optional and the appearance will change)
Test level	class1
Max Travel	800mm (without fixture)
Travel accuracy	≤1%
Travel speed	1mm/min ~500mm/min
Speed accuracy	≤1%
Test force range	0.2% ~ 100%FS
Force accuracy	≤1%

Software configuration (standard)
A version of the test system, with a single-step test

Software configuration (optional)
The C version of the test system can achieve a multi-step test

Fixture and standards
Version A :
ISO 9073-3,ISO 13934-1,ISO 13934-2,ASTM D5034,
ASTM D5035,GB/T 3923.1, GB/T 3923.2
GB/T13773.1,GB/T13773.2,GB/T 24218.3,
ISO 13937-2(sample with 50mm wide), ISO13937-3,
GB/T 3917.2(sample with 50mm wide), GB/T 3917.5
(The standards above are matched with: clamps by 25x25 mm, 25x50 mm, 25x75 mm)

Optional fixture and standards
Version A :
ISO 9073-4,GB/T 3917.3 (clamps by 25x100 mm)
ASTM D5587   (clamps by 50x75 mm)
ISO 13937-4,ISO 4674-1, GB/T 3917.4 (clamps by 25x200 mm)
Leather tearing fixture: ISO 3377-2
Top breaking fixture: ASTM D6797 FZ/T 01030 GB/T 19976
Yarn fixture: ISO 2062
Version C: ISO 13936-2, ASTM D4964 (U type fixture)
VersionC+: ASTM D434 ASTM D1683 ISO 13936-1
(The standards above need to be programmed according to the test requirements provided by customers.)
ISO 20932-1(with linear clamps, or choose other fixtures and replace the clamps)

Computer Configuration of SmartPull
CPU for the Intel Celeron (Celeron) 2GHz or more CPU

Memory at least 512MB, more than 1GB is better

Hard disk space of more than 2GB

Display resolution of 1024 × 768 or more.

Printer compatible with the operating system (if output reports are required)

The applicable operating system for Microsoft's Windows XP, Windows 7, Windows 8, Windows 10

If you need to output the report in Word and Excel format, you should install Microsoft's Microsoft Office 2003, 2007, and 2010 versions of the software.

- **Higher testing accuracy**
  AC servo drive and ball screw achieve stable and constant pulling force, with force accuracy within 1%, ensuring the reliability and repeatability of test results.

- **Safety guarantee for the whole testing process**
  Equipped with an intelligent and active displacement and torque alarm system, overload and emergency stop device, and up and down travel limiting device, SmartPull always keeps the testing process safe and stable.

- **Powerful software**
  The test software can be applied to different languages and can present the displacement, maximum force, elongation, stress, maximum stress, bending stress, speed, and other test results. That is, getting more comprehensive test indexes.

- **Applicable up to a series of standards**
  Such as ISO 3377-2, ISO 13934-1/2, ISO 13937-2/3, ISO 20932-1, ASTM D5034, ASTM D5035, ASTM D5587, GB/T3917.2, FZ/T 01030, ISO 9073-4, ISO13934-1/2, ISO 9073-3, ISO 13937-2/3, ISO 4674-1, GB/T 3917.4, GB/T 3923.1, ISO 2062, ASTM D6797, GB/T 19976.

- **Easy operation**
  Multi-functional pneumatic gripper, just replace the clips to complete different tests, easy and quick to replace. Tensile tests and top breaking tests do not need to replace the sensor.

- **Unique design**
  SmartPull Tensile Tester has a unique appearance design combined with a sense of technology, scratch-resistant surface, and it is durable.

- **User-friendly**
  Side cutting design, more user-friendly.