Tensile Tester

vertical

Code: E.202.xxx.xxx

Usage

To determine the force, tensile resistance, elongation and tensile energy absorption (TEA) in paper, board, tissue or other materials.

Applicable standards

- ISO 1924-1/-2/-3
- TAPPI T456, T494
- PAPTAC D34
- BS4415/2
- etc

Device description

This tensile tester is intuitive and easy to operate via touchscreen and clear control buttons. The software is configured with the standards acc ISO, ASTM and DIN and customized configurations are possible. It comes with one load cell (on customers choice) and the customer can choose manual or pneumatical clamping version. There are separate Start/Stop buttons for easy use and control. The maximum distance between the clamps is 300 mm and the test speed is adjustable from 0.2 to 330 mm/min. The unit has a RS-232 using ASCII and super high-speed binary mode, USB and Ethernet RJ45 10/100 connector for maintenance work and printer connection. All the parameters like testing speed, testing length, breaking and pre-load levels can be adjusted individually.

Process description

The test to be performed is chosen on the touchscreen. The clamps automatically move to the starting position and the sample is clamped between the upper and lower clamp, either manually or pneumatically. By pressing the start button, the upper clamp moves and the test stripe is stretched until it breaks. The figures like force, elongation, curves, statistic with max, min, etc. are shown on the touch display and can instantly be printed. The clamps return automatically to their initial position after testing.

Specifications

- top quality and manufacturing
- easy and intuitive operation via touchscreen
- automatic return to initial position
- adjustable test speed from 0.2 – 330 mm/min
- maximum travel between clamps: 300 mm
- display of tensile force, elongation, breaking length, TEA (tensile energy absorption), curves, statistical functions like arithmetic mean, max, min, standard deviation, etc.
- accuracy: <1% of applied force
- resolution: force: 0.004%, travel: ±0.01 mm
- available sample width: 15, 25 or 50 mm
- different load cells available depending on type of tests
- pneumatic clamps available
- Windows based software
- RS-232 and USB connection
- CE certificate

Connections

- Electricity: 110 - 230 V, 50/60 Hz AC
- Air: 600 kPa, Ø6 mm tube

Accessories

Code	Article
E.202.FINCH	finch wet test attachment
E.202.PP	pressure plates attachment
E.202.FRICT	friction test device
E.202.BALL	ball burst attachment
E.202.ZDIR	Z-direction test attachment incl. sample preparation station

Models

Code	*type of clamping	Clamps	Load cell	max. travel without jaws
E.202.x15.010.L	*manual or pneumatic	15 mm	10 N	low (500 mm)
E.202.x15.020.L	*manual or pneumatic	15 mm	20 N	low (500 mm)
E.202.x15.050.L	*manual or pneumatic	15 mm	50 N	low (500 mm)
E.202.x15.100.L	*manual or pneumatic	15 mm	100 N	low (500 mm)
E.202.x15.250.L	*manual or pneumatic	15 mm	250 N	low (500 mm)
E.202.x15.500.L	*manual or pneumatic	15 mm	500 N	low (500 mm)
E.202.x15.1000.L	*manual or pneumatic	15 mm	1 000 N	low (500 mm)
E.202.x15.2000.L	*manual or pneumatic	15 mm	2 000 N	low (500 mm)
E.202.x15.5000.L	*manual or pneumatic	15 mm	5 000 N	low (500 mm)
E.202.x25.010.L	*manual or pneumatic	25 mm	10 N	low (500 mm)
E.202.x25.020.L	*manual or pneumatic	25 mm	20 N	low (500 mm)
E.202.x25.050.L	*manual or pneumatic	25 mm	50 N	low (500 mm)
E.202.x25.100.L	*manual or pneumatic	25 mm	100 N	low (500 mm)
E.202.x25.250.L	*manual or pneumatic	25 mm	250 N	low (500 mm)
E.202.x25.500.L	*manual or pneumatic	25 mm	500 N	low (500 mm)
E.202.x25.1000.L	*manual or pneumatic	25 mm	1 000 N	low (500 mm)
E.202.x25.2000.L	*manual or pneumatic	25 mm	2 000 N	low (500 mm)
E.202.x25.5000.L	*manual or pneumatic	25 mm	5 000 N	low (500 mm)
E.202.x50.010.L	*manual or pneumatic	50 mm	10 N	low (500 mm)
E.202.x50.020.L	*manual or pneumatic	50 mm	20 N	low (500 mm)
E.202.x50.050.L	*manual or pneumatic	50 mm	50 N	low (500 mm)
E.202.x50.100.L	*manual or pneumatic	50 mm	100 N	low (500 mm)
E.202.x50.250.L	*manual or pneumatic	50 mm	250 N	low (500 mm)
E.202.x50.500.L	*manual or pneumatic	50 mm	500 N	low (500 mm)
E.202.x50.1000.L	*manual or pneumatic	50 mm	1 000 N	low (500 mm)
E.202.x50.2000.L	*manual or pneumatic	50 mm	2 000 N	low (500 mm)
E.202.x50.5000.L	*manual or pneumatic	50 mm	5 000 N	low (500 mm)
E.202.x15.010.H	*manual or pneumatic	15 mm	10 N	high (750 mm)
E.202.x15.020.H	*manual or pneumatic	15 mm	20 N	high (750 mm)
E.202.x15.050.H	*manual or pneumatic	15 mm	50 N	high (750 mm)
E.202.x15.100.H	*manual or pneumatic	15 mm	100 N	high (750 mm)
E.202.x15.250.H	*manual or pneumatic	15 mm	250 N	high (750 mm)
E.202.x15.500.H	*manual or pneumatic	15 mm	500 N	high (750 mm)
E.202.x15.1000.H	*manual or pneumatic	15 mm	1 000 N	high (750 mm)
E.202.x15.2000.H	*manual or pneumatic	15 mm	2 000 N	high (750 mm)
E.202.x15.5000.H	*manual or pneumatic	15 mm	5 000 N	high (750 mm)
E.202.x25.010.H	*manual or pneumatic	25 mm	10 N	high (750 mm)
E.202.x25.020.H	*manual or pneumatic	25 mm	20 N	high (750 mm)
E.202.x25.050.H	*manual or pneumatic	25 mm	50 N	high (750 mm)
E.202.x25.100.H	*manual or pneumatic	25 mm	100 N	high (750 mm)
E.202.x25.250.H	*manual or pneumatic	25 mm	250 N	high (750 mm)
E.202.x25.500.H	*manual or pneumatic	25 mm	500 N	high (750 mm)
E.202.x25.1000.H	*manual or pneumatic	25 mm	1 000 N	high (750 mm)
E.202.x25.2000.H	*manual or pneumatic	25 mm	2 000 N	high (750 mm)
E.202.x25.5000.H	*manual or pneumatic	25 mm	5 000 N	high (750 mm)

E.202.x50.010.H	*manual or pneumatic	50 mm	10 N	high (750 mm)
E.202.x50.020.H	*manual or pneumatic	50 mm	20 N	high (750 mm)
E.202.x50.050.H	*manual or pneumatic	50 mm	50 N	high (750 mm)
E.202.x50.100.H	*manual or pneumatic	50 mm	100 N	high (750 mm)
E.202.x50.250.H	*manual or pneumatic	50 mm	250 N	high (750 mm)
E.202.x50.500.H	*manual or pneumatic	50 mm	500 N	high (750 mm)
E.202.x50.1000.H	*manual or pneumatic	50 mm	1 000 N	high (750 mm)
E.202.x50.2000.H	*manual or pneumatic	50 mm	2 000 N	high (750 mm)
E.202.x50.5000.H	*manual or pneumatic	50 mm	5 000 N	high (750 mm)
Please choose the desired clamping, clamp width, load cell and height at order *E.202.Mxx.xxx.x - M =manual clamping, E.202.Pxx.xxx.x - P = pneumatic clamping				

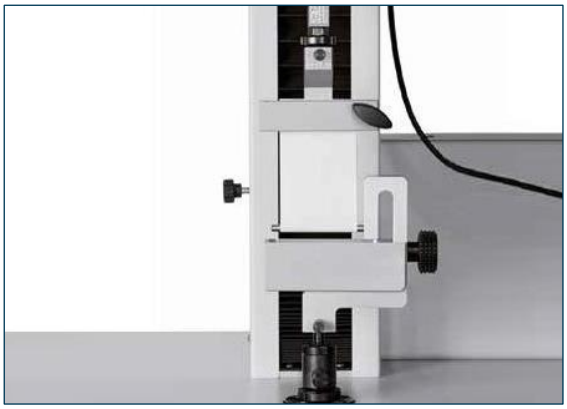
Accessories

for Tensile Tester vertical

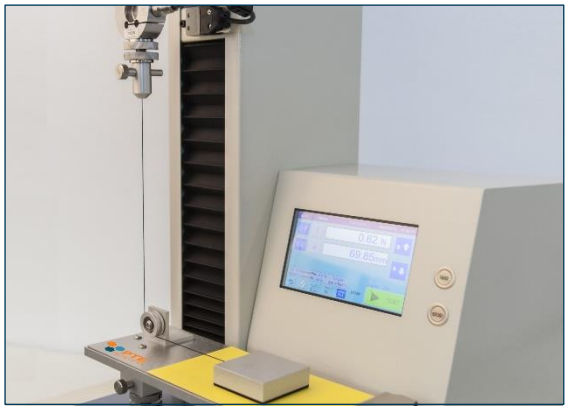
Usage

To perform different kinds of tensile tests on paper, board, tissue and other similar material.

Ball burst attachment (tissue)



Finch clamp device (tissue)



Friction table for static and dynamic friction tests

Pressure plates

Sample preparation station with Z direction attachment