

FMT-310

Universal Tester for tensile and compression forces

Features

- Fully integrated force-travel measurements with a central control unit.
- Modular design with replaceable specimen stage and load cell
- Large work area for the fixture of the test samples.
- Programmable test sequences for optimal reproducibility.
- Display of load-displacement-diagrams



Details



The rugged, precise linear drive with ball screw gears coupled with a powerful high resolution stepper motor makes the FMT-310 Force Tester suitable for many applications.

This versatile bench top model is well suited for use in laboratory environments for validation and quality approvals, quality checks on the production floor, incoming goods inspection and much more.

Material tests and test of mechanical or electromechanical components can be performed as well as specific tests to monitor the product quality in the food industry (crispness, texture). Optional accessories and application-related test programs are available for all types of applications.

The 5,7" touch screen monitor utilizes interactive menu-driven screens in various languages (user selected), to control all functionality and data display. Measuring values can be displayed in numeric or graphic form.

Order Info

The test stand is completely assembled and will be delivered with installed operation Software. On-site installation is consequently not needed, the control unit has to be plugged to the test stand only. Please do not hesitate to contact our technical service to select application related tools or test sequences. The technical service can also be of assistance to take the test stand into operation, to train user and to recalibrate the instruments on site.

Further information can be found on our website www.alluris.de.

Standard

Scope of supply:
 Vertical test stand (Bench top model) with standard mounting plate and integrated force sensor. M4/M6 thread to connect appropriate tools for tensile or compression tests (tools not included).
 Control unit with 5,5" touch screen, incl. operation software and 8 predefined standard test cycles. RS232C connection cable, power cord, operation manual.

- Option**
- Fmt_Connect to transfer test results onto MS Excel.
 - Application specific test tools.
 - ModBus interface for communication with superordinated systems.
 - Calibration tools for force and distance.
 - Calibration certificate for force and distance.

Spec

		<i>FMT-310A5</i>	<i>FMT-310B5</i>	<i>FMT-310C5</i>
Max. Force	bidirectional	5 N	50 N	500 N
Stroke (Travel)	maximum	400 mm		
Speed	bidirectional	0,1...900,0mm/min		
Accuracy	Force	+/- 0,5% MW (+/- last significant digit) ISO 7500-1 Klasse 0,5		
	Distance / Travel	+/- 0,01 mm ISO 5893 Klasse A		
	Speed	+/- 0,5% (+/- last significant digit) ISO 5893 Klasse A		
Resolution	Force	0,001 N	0,01 N	0,1 N
	Distance / Travel	0,01 mm (intern 0,24µm)		
	Speed	0,1 mm/min		
	Measuring speed	Internally 1000 Hz Communication 100 Hz		
Workspace area	Width	Not limited		
	Depth	120 mm (Measuring axis to support column)		
	Height	0 ... 240mm (adjustable in 40mm increments) add 400mm stroke		
Test tool connection	Test object carrier	180 mm x 200 mm		
	Load cell	M4 standard thread	M6 standard thread	
Control Unit	Display / Operation	5,7" touch screen monitor		
	Controller	PLC 16Bit 20Mhz		
	Interface	RS232C, Baud rate 19200		
Power Supply		85...264 VAC (50...60Hz) 1,8A @ 230VAC		
Temperature range	Operation	10...35° C		
	Transport Storage	-10...60° C		
Weight	(without grips / tools)	20,5 kg (Control unit: 1,5kg)		
Dimensions	L x W x H	400 mm x 300 mm x 900 mm		