

The first name in materials testing

MP1500

Closed Loop Melt Flow Indexer



The new model MP1500 is a closed loop system. The load is applied by a motor and ball screw system with a PID control feedback, there are no dead weights.



Model MP1500

Tinius Olsen is proud to introduce the latest addition to its polymer testing line, the MP1500 Closed Loop Melt Flow Tester. The tester features the latest in melt flow measurement technology which works with closed loop where load is applied by a motor and ball screw system with a PID control feedback, there are no dead weights. The robust design that incorporates quality materials and components ensures that our reputation for superior system performance, ease of use, and longevity is maintained. Test machines become complete, powerful test systems with the addition of Tinius Olsen's Horizon Data Analysis software.

FEATURES AND BENEFITS

- Conformance to ISO 1133, ASTM D1238
- Weightless force application range: 0.325-21.6kg
- Capable to perform MFR & MVR in accordance with procedure A, B, C, D
- 7.1" LCD touchscreen display
- Three-zone band heater
- Sturdy base with four leveling feet and two rigid columns are the strengths in support of longevity
- Optional automatic cleaning function
- Adjustable display mount for optimal viewing angle and right & left hand swappable
- Large mirror with ergonomic viewing angle
- Buil-in, automatic material purge functionality
- Pneumatic cut-off and die release, standard



INTERFACE OPTIONS

This unit features a userfriendly color touch-screen LCD display.

Operators can configure the options available for the machine and program user settings (language, units, alarms, etc). Individual test protocols can be set and stored for rapid recall when needed. and can be used to control the machine by itself or in conjunction with Tinius

Olsen's Horizon software





Specifications

Frame specifications			
Part #			
Test loads	kg	0.325-21.6	
Table mounting		Yes	
Test zones	One		
Number of columns	Two		
Column material	Aluminium		
Column finish	Anodized		
Column color	Natural		
Base material	Aluminium		
Base finish	Pre-primed, top powder coat paint		
Base color	TO Cool Grey Web # E6 30 27		
Crosshead material	Steel		
Crosshead finish	Pre-primed, top powder coat paint		
Crosshead color	TO Green Web # 00 4C 45		
Feet material	Aluminium		
Feet finish	Anodized		
Feet color			
Maximum crosshead travel	mm	500	
	in	20	
Height	mm	1016	
	in	40	
Width	mm	511	
Width	in	20	
Depth	mm	511	
Берин	in	20	
Weight	kg	49	
Weight	lb	108	
Force protection system	Yes, digital		
Displacement protection system	Yes, mechanical and user programmable		
Ball screw type	High precision low backlash		
Ball screw cover/protection	Yes		
Crosshead drive system	DC servo motor		
Pneumatic air distribution	4mm OD hose with pushfit coupling, rated to 100psi maximum		
Noise at full crosshead speed 2m radius	18db		

NOTE – Software required for materials tests

Frame specifications				
CONTROLLER SPECIFICATIONS				
Max data processing rate		168MHz		
Data acquisition rate at PC		50Hz		
External PC connection	USB			
User interface connectivity	Horizon & USB Drive for data transfer			
FORCE MEASUREMENT				
Force measuring device type	45kg / 440N / 99lbf			
Resolution	1 part in 8388608			
Accuracy	±0.2% of applied force			
Range	0.2-100%			
Calibration standard	ISO 7500-1 & 1133; ASTM E4 & D1238			
Internal sampling rate	1000Hz			
STANDARDS				
ISO	1133, 7500-1			
ASTM	D1238, E4			
TEMPERATURE				
Range	up to 400°C			
Accuracy	±0.1°C			
POSITION CONTROL				
Test Speed	mm/min	0.0001-1,500		
	in/min	0.000004-60		
Resolution	μm	0.1		
	in	0.000004		
<u> </u>	Accuracy ±0.05% of indicated speed POWER REQUIREMENTS			
	REQUIREME			
Supply voltage options Frequency	115/230V 50/60Hz			
Power	50/60Hz 500W ±10%			
ATMOSPHERIC REQUIREMENTS				
Operating temperature	5-40°C (41-104°F)			
Operating humidity	10-90% non-condensing wet bulb method			
Storage temperature	-10-45°C (14-113°F)			
Storage humidity	10-90% non-condensing wet bulb			





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