LMI6000 SERIES

MELT FLOW INDEXER BASE AND AUTO-LIFT MODELS

- Integration of electromechanical auto-lift for automatic weight handling.
- Units capable of Method A, A/B, B, & C testing. Auto-lift is also capable of Method D testing.
- The units will also preform Intrinsic Viscosity (IV) testing for PET and ASTM D3364 for PVC materials
- Adjustable Side Mounted Touchscreen Display (Left-Mounted or Right-Mounted Display Options Available)
- Updated Hardware Architecture for a faster and smoother performance.
- Dedicated Front-Facing Power Switch to ensure all data is saved before shutdown.
- LMI6000 auto-lift is capable of being configured in Single or Multi-Weight versions

IMPROVED PERFORMANCE

The LMI6000 marks a new generation in convenience, accessibility, and performance. A new electromechanical lift mechanism option automates the placement of weights . Additionally, a larger adjustable and repositionable touchscreen interface, upgraded hardware architecture, and software automation for running tests with a single press of a button, the LMI6000 is as convenient as ever.

ADVANCED SOFTWARE

Tests can now be run manually lifting weights with the assistance of the optional electromechanical lift feature, allowing for simultaneous test runs between multiple machines. The addition of the auto-lift option increases operator safety through mitigating the amount of repetitive weightlifting. While also improving test accuracy though the automated loading and unloading of weights.

INCREASED ACCESSIBILITY

Additionally, a new hardware architecture allows for a faster and smoother navigation experience. The dedicated power switch ensures that the LMI is shut down safely, saving all data before cutting the power. Lastly, the larger side mounted display allows for a better user experience with its ambidextrous screen mounting, vertical adjustability to conform to operator height and reduced risk of damage from falling weights.

FEATURES

- Gravitational correction is enabled on LMI6000 (see manual). Gravitational forces differ in countries that are closer to equator latitudes such as Malaysia, Indonesia, and India
- Windows 10 IoT touch screen native interface
- Performance meets international standards: ASTM D1238 & D3364, ISO 1133-1, BS2782, DIN 53735, JIS K7210
- Built in WIFI and ethernet
- Increased access to die for sample cutting with a strategically placed mirror to easily view the die and cutting area
- Automatic sample cutter for ease and consistency in sample cutting.
- Intrinisc Viscosity (IV) measurement included as standard on all devices.
- Supports multiple languages (English, French, German, Dutch, Spanish, Portuguese, Italian, Polish, Czech)
- Printing & Flash Strorage Available
- Customer can connect Dynisco's High Resolution 3-digit scale to the LMI6000 through one of the 4 USB Ports on the unit.

LMI6000 SERIES OPTIONS	
DIGITAL ENCODER	The Digital Encoder provides a high precision measurement of piston displacement during method A/B and B tests.
AUTOMATIC SAMPLE CUTTER	Cuts samples automatically at defined cut times of Method A and Method A/B Testing. Will also cut sample at end of pre-heat melt time of a test, regardless of method. Leads to more consistent sample cutting than cutting by hand.
AUTO-LIFT	The electromechanical lift mechanism option automates the placement of weights while removing the need for a dedicated filtered air supply, instead running on 110V power alone. All while increasing operator safety.
SINGLE OR MULTI-WEIGHT STACK VERSIONS	The Auto-Lift unit can be configured as a Single or Multi-Weight System. The Automated Weight Lift System is more Automated, Ergonomic, Safe & Efficient than loaded systems.

PERFORMANCE CHARACTERISTICS	
COMPLIANT STANDARDS	ASTM D1238 & D3364, ISO 1133-1 & 1133-2, BS2782,DIN 53735, JISK7210
OPERATING TEMPERATURE	Ambient to 400 °C
TEMPERATURE CONTROL	±0.1 °C
TIMER ACCURACY	0.001 S
DIGITAL ENCODER ACCURACY	±0.025mm over 25.4 mm
COMMUNICATION	USB x 4, PC Connectivity, Scale Interface, Printing and Flash Storage
WEIGHTS	Range of 0.325 Kg to 31.6 kg
USER INTERFACE	10.2” Touch Screen with Capacitive Touch Screen
DIMENSIONS	
OVERALL DIMENSIONS, BASE MODEL	18Wx 21D x 27H in. (44.704W x 52.832D x 68.326H cm)
OVERALL DIMENSIONS, AUTOLIFT MODEL	18W x 21D x 51H in. (45.72W x 53.34D x 129.54H cm)
WEIGHT, BASE MODEL	
WEIGHT, AUTOLIFT MODEL	152 lbs. (68.946Kg) without weights 31.6kg Full stack ASTM 21.6Kg Full stack ISO
CRATED MACHINE SHIPPING DIMENSIONS, BASE MODEL	(LMI6000 w/lift will ship horizontally)
ELECTRICAL SPECIFICATIONS	
SYSTEM VOLTAGE	100-120Vac 50/60Hz or 220-240Vac 50/60Hz
POWER	500W max, 100W typical at set point

LMI6000 ORDERING GUIDE

CONFIGURE YOUR EXACT PRODUCT DESCRIPTION WITH THE TABLE BELOW.

LMI6000	X	X	X	X	N	X	X	X

VOLTAGE

- 1 = 120v/1/60hz
- 2 = 220v/1/50 or 60hz

WEIGHT LIFT STYLE

- N = Base Model Not Equipped With Auto-Lift
- S = Single Weight Lift
- L = MULTI Weight Lift

DIGITAL ENCODER

- N = Standard No Digital Encoder
- E = Digital Encoder Installed
  Note: Digital Encoder is required for Method B, A/B, C & D Testing and PET IV correlation

BARREL TYPE

- N = Standard Tool Steel
- H = Haynes 242 Lined Barrel Installed *
  Note: Recommended for Corrosive Applications

AUTOMATIC SAMPLE CUTTER OPTION

- N = NO Automatic Sample Cutter
- C = Automatic Sample Cutter Installed *
  Note: Consult factory for feasibility check on High Melt Flow Rate or Extremely Hard Materials.

TEST STANDARD COMPLIANCE

- N = Standard ASTM1238 or 1133-1 or Similar
- I = Certified & Tested for 1133-2 Requirements

TEST STANDARD COMPLIANCE

- H= 500°C
- N = Standard 400°C

DYNISCO

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Refer to www.dynisco.com for access to Operator Manual and other support documentation.

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