ABL Friction Machine
Standard Features

SPECIFICATIONS
Complies with:
- UN Test Manual, Test 3 (b) (iii): Friction Sensitivity Test, and Test 3 (b) (iv)
- TB700-2, Section 5-3c
- MIL-STD 1751A, method 1021

OPERATING RANGE
- 0 - 3 ft / sec velocities using low speed drive
- 3 - 8 ft / sec velocities using pendulum
- 0 - 1000 pound hydraulic force
- 1-inch friction plate travel with adjustable guides for drift reduction

STANDARD HARDWARE
- Low speed drive system
- High speed drive system
- Digital force read-out
- Calibration kit
- Adjustable wheel and anvil allows for new testing surfaces for each trial
- Friction Plates (5) with certified flatness, hardness, and surface finish
- Friction Wheels (10) with certified cylindricity, flatness, hardness, and surface finish
- 3-phase, 220V or 110V power

OPTIONAL HARDWARE
- Reaction detection system
  - High speed video
  - Data acquisition system including laptop
  - GoDetect software (inquire for more details)
- Economic SMS ABL Tabletop Friction Machine without low speed drive

SAFETY FEATURES
- Electromagnetic safety brake with logic controls for operator safety
- Pendulum safety bar
- Operator shielding

STANDARDIZED OPERATING INSTRUCTIONS
Explosives Testing Users’ Group (ETUG) approved:
- Owner’s Manual
- Operating Manual
- Testing Procedures
- Calibration Protocol:
  - hydraulic force
  - plate velocity
  - Procedure for resurfacing friction wheels and plates

INCLUDED SERVICES
- On-site setup, calibration, and training
- 1 year parts and workmanship warranty

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