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TIMKEN LOAD TESTER AZA1330A

The AZA1330A Timken Load Tester from AZA Lab is a highly reliable and precision-engineered instrument designed for evaluating the load-carrying capacity and extreme-pressure (EP) properties of lubricating oils and greases.

Widely used in tribology laboratories, lubricant manufacturing facilities, research centers, and quality control departments, the AZA1330A accurately determines the capability of lubricants containing EP additives to withstand increasing loads without failure, scoring, or seizure.

The system complies fully with internationally recognized testing standards:

- ASTM D2509-93 – Measurement of Load-Carrying Capacity of Lubricating Grease (Timken Method)
- ASTM D2782-94 – Measurement of Extreme-Pressure Properties of Lubricating Fluids (Timken Method)

Designed with robust mechanical construction, advanced control systems, and precision monitoring functions, the AZA1330A delivers stable, repeatable, and highly accurate test performance for demanding industrial and research applications.





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Applications

The AZA1330A Timken Load Tester is widely used for:

- Determining load-carrying capacity of lubricants and greases
- Measuring extreme-pressure properties of lubricating fluids
- Evaluating anti-wear and EP additive performance
- Comparative lubricant formulation studies
- Quality control in lubricant manufacturing plants
- Tribological research and development
- Testing gear oils, turbine oils, hydraulic oils, and bearing greases
- Academic and industrial laboratory applications

Installation Requirements

Power Supply

- AC 220V \pm 10%, 50Hz

Installation Environment

- Level and vibration-free installation area
- Proper ventilation required
- Dust-free and dry surroundings recommended

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UNIVERSE TECHNICAL SPECIFICATIONS

Parameter	Specification
Model	AZA1330A
Maximum Test Force	5000 N
Test Force Accuracy	±1%
Maximum Friction Force	300 N
Friction Force Accuracy	±2%
Spindle Speed Range	100 – 3000 r/min
Spindle Speed Error	±2%
Spindle Speed Display Range	0 – 9,999,999
Time Display Range	0 – 9999 s or min
Test Temperature Range	Ambient to 300°C
Temperature Control Accuracy	±2%
Overall Dimensions (L×W×H)	1000 × 700 × 1470 mm
Weight	700 kg
Power Supply	AC 220V ±10%, 50Hz