



**UNIVERSE**

## **APPARATUS FOR SHEAR STABILITY OF LUBRICATING OILS CONTAINING POLYMERS AZA1329**

The AZA1329 Apparatus for Shear Stability of Lubricating Oils Containing Polymers from AZA Lab is a high-precision KRL-type friction tester designed for determining the shear stability of lubricating oils and polymer-containing pressure fluids.

The instrument operates in accordance with DIN 51350-6 – Testing of Lubricants: Testing in the Shell Four-Ball Tester, Part 6, which defines the KRL (Kugel Rollen Lager) method for evaluating viscosity stability under mechanical shear stress.

The AZA1329 utilizes SKF 32008 tapered roller bearings as the friction pair to simulate the severe mechanical shear conditions experienced by lubricants in gearboxes, transmissions, and hydraulic systems. The test accurately predicts permanent viscosity loss, helping manufacturers and laboratories evaluate lubricant durability, formulation stability, and long-term operational performance. Designed for continuous heavy-duty laboratory operation, the AZA1329 combines precision load application, stable temperature control, real-time monitoring, and rugged industrial construction for reliable and repeatable testing.



### **STANDARD CONFIGURATION**

- Main KRL testing unit
- SKF 32008 tapered roller bearing assembly
- Embedded test body and spindle system
- Temperature control and cooling system
- Digital monitoring interface
- Load application system
- Power cable



## UNIVERSE TECHNICAL SPECIFICATIONS

Parameter	Specification
Model	AZA1329
Product Name	Apparatus for Shear Stability of Lubricating Oils Containing Polymers
Applicable Standard	DIN 51350-6
Motor Speed	1475 ±25 RPM
Temperature Control Mode	Imported Compressor Cooling System
Sample Temperature	60 ±1°C
Sample Volume	40 ±0.5 ml
Test Load	5000 ±200 N
Total Revolutions	1.74 Million
Test Duration	Approximately 19 Hours 40 Minutes
Power Requirement	5.5 kW
Power Supply	AC 220V, 50Hz
Dimensions (L × W × H)	640 × 380 × 895 mm
Weight	150 kg



## UNIVERSE STANDARD TEST CONDITIONS

Parameter	Condition
Tap Speed	1500 RPM
Test Force	5000 N
Test Temperature	60°C
Test Duration	20 Hours
Total Revolutions	1.74 Million

