



TORONTECH

FOUR BALL GRINDING SPOT MEASUREMENT SYSTEM - TORON4BGS™



Four Ball Grinding Spot Measurement System – Toron4BGS™ is a specialized system designed to measure wear spots in our MRS series four-ball friction tester. This advanced tool combines optical, microelectronic, and computer technologies to deliver accurate, repeatable results with speed and ease.

It streamlines the entire process—wear measurement, data analysis, inspection reporting, file management, and report printing—all in one solution. Additionally, it allows for image processing, annotation, editing, and saving in standard image file formats.

APPLICATIONS

- **Lubricant & Additive Industry** - Precise measurement of wear scar diameters in lubricants and additives testing to evaluate anti-wear and extreme pressure performance.
- **Automotive & Transportation** - Assessment of engine oils, gear oils, and transmission fluids under standardized wear testing conditions to ensure reliability and durability.
- **Aerospace & Defense** - Advanced wear analysis of specialty lubricants and coatings used in high-stress aerospace applications for performance validation.
- **Industrial Machinery & Manufacturing** - Quality control of lubricants and materials used in heavy-duty machinery to minimize wear, extend service life, and improve operational efficiency.
- **Chemical & Petrochemical Industry** - Evaluation of specialty lubricants and base stocks for refining, chemical processing, and petrochemical applications under tribological stress.

- **Research & Academic Institutions** - High-precision wear measurement for tribology studies, material science research, and the development of new lubricants and additives.
- **Quality Assurance & Certification Labs** - Standardized wear testing in compliance with ASTM, ISO, and other international protocols for product validation and certification.

TECHNICAL SPECIFICATIONS

No.	Product Performance	Technical Parameter
1	Measurement range	2.5× objective lens, maximum 2mm
2	Measurement error	Not greater than ±1%
3	Working distance of 3 objective lenses	2.5× objective lenses approximately 33mm
4	Camera specifications	UCMOS03100KPA



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