

Slurry Erosion Test System – SEW190

◆ General Information

The **SEW190** system measures surface damage in dry, wet or corrosive conditions using SiC, Al₂O₃, SiO₂ powder or sand. This equipment measures the slurry erosion condition for various materials.

Related standards and test specifications that can be measured using this system are:

ASTM G73, G75 – Liquid Impingement Erosion Testing and Slurry

ASTM D3451 – Polymeric Powders and Powder Coatings

JIS H8503 – Wear Resistance for Metallic Coatings

ISO 7784 – Paints and Varnishes: Determination of Resistance to Abrasion



◆ Control Parameters

- Rotation Speed: max. 3,000 rpm (m/sec)
- Base Rotation Speed: max. 2,000 rpm
- Sand/Water Rate: cm³/cm³
- Impingement Angle Control
- Test Duration (hr/min/sec)

◆ Accessories

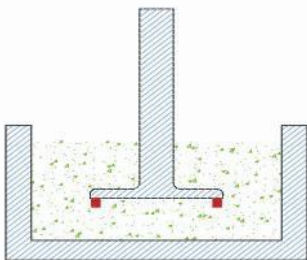
- Angular Plate
- Test Fixture
- Dryer

◆ Test Modes

- ASTM G73, G75, ASTM D3451, JIS H8503, ISO 7784

◆ Specifications

Rotating Speed	Max. 3,000 rpm
Slurry Pot	
Butterfly Propeller Speed	Max. 2,000 rpm
Sample Fixing and Orientation Angle	15°, 30°, 45°, 60°, 75°, 90°
Rotating Arm	
Sample Size	30 mm x 5 mm x 2 mm (2 ea.)



Dry Sand Erosion Test System – SEW190D

◆ General Information

The **SEW190D** system measures surface damages by projecting a specified amount SiC, Al₂O₃, SiO₂ powder or sand onto the surface sample. This equipment measures the sand erosion conditions for various materials.

Related standards and test specifications that can be measured using this system are:

ASTM G65 – Measuring Abrasion Using the Dry Sand Rubber Wheel Apparatus

ASTM G105 – Conducting Wet Sand Rubber Wheel Abrasion Tests



◆ Control Parameters

- Rotation Speed: max. 3,000 rpm (m/sec)
- Base Rotation Speed: max. 2,000 rpm
- Sand/Water Rate: cm³/cm³
- Impingement Angle Control
- Test Duration (hr/min/sec)

◆ Software

- System Control
- Data Record
- Data Save
- Graphic Display

◆ Specifications

◆ Test Modes

- ASTM G65, G105

Loading Control	- Max. 500 N - Compression type Load Cell
Wet Chamber	- Sand/Water Mixing Wing - View Port
Steel Disc	AISI 1020
Chlorobutyl Rubber Molded	dia. 228.6 mm X12.7 mm
Neoprene Rubber Molded	dia. 178 mm x 12.7 mm
Metal Wheel	- Wheel driving system: dia. 65mm - Wheel driving system: thickness. 12.7 mm
Sand Feeding System & Sand Hopper	Max. 400 rpm
Fabricated Sand Nozzle	300-400 g/min
Sample Holding Jig	Holding sample size: 25 mm x 76 mm x 12.7 mm - Enclosure frame and waste sand chamber
Water Jet Nozzle Gun	Flexible Plastic Nozzle
System Controller	