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 | Max. 2,000 rpm |
| 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

**Test Modes**
- ASTM G65, G105

**Specifications**

| Loading Control | Max. 500 N |
| Wet Chamber | Sand/Water Mixing Wing |
| 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 |
| 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 |
| Water Jet Nozzle Gun | Flexible Plastic Nozzle |

+1-416-423-5590 | info@lprglobal.com | www.lprglobal.com | www.uskoreahotlink.com