

# Air Jet Erosion Tester

## test method

Covers the determination of material loss by gasentrained solid particle impingement erosion with jet nozzle type erosion equipment.

## air jet erosion tester

- Compliant to ASTM G76
- Instrumentation version
- Measurement of particle velocity
- Sample heating system
- Digital pressure regulator
- Variable particle speed
- Multiple result comparison and reporting
- Adjustment in X,Y,Z and tilt of specimen from 0 - 90° (continuously variable)
- Double disc arrangement for particle velocity measurement

The Koehler K93700 Air Jet Erosion Tester is used to test the erosion resistance of solid materials to a stream of gas containing abrasive particles.

Materials such as metals, ceramics, minerals, polymers, composites, abrasives and coatings can be tested with this instrument.

The test specimen, temperature, angle of incidence of the jet stream, abrasive particulate speed and flux density can be varied to best simulate actual conditions.

## included accessories

- Particle velocity meter (double disc arrangement)
- Pressure regulator and gauge
- Pressure Sensor
- Preset Timer
- Temperature Controller for specimen heating
- RPM Indicator for measuring double disc arrangement / conveyor speed
- Operating and Maintenance manual

## ordering information

| catalog no. | description                         |
|-------------|-------------------------------------|
| K93700      | Air Jet Erosion Tester 220V 50/60Hz |



K93700 Air Jet Erosion Tester

## specifications

Conforms to the specifications of: ASTM G76

Fluid – Air:

Temperature: Ambient

Pressure: 6 bar max.

Velocity: up to 300 m/s max

Nozzle: Tungsten Carbide

Particle:

Temperature: Ambient

Velocity: up to 100 m/s max

Feed Rate: 0.5 – 10 g/min continuously variable

Specimen Size: 25 x 25 mm max

3 – 5 mm max thickness

Specimen Heating Temperature: