

# ANALEX<sub>rpd</sub>

## Rotary Particle Depositor

The RPD Particle Depositor offers a rapid and simple method of debris separation. A measured volume of sample is applied, by pipette, to a glass substrate located on a rotating magnet assembly. Particles of debris are deposited radially as three concentric rings by the combined effects of rotational, magnetic and gravitational forces.

Removal of the lubricant by solvent washing and drying gives a stable well-separated deposit pattern ready for examination by optical or electron microscope. The 'Guide to Wear Particle Recognition', which is supplied with the RPD, provides users with an indication of the type of wear taking place by observation of the distinctive features or compositional aspects of the debris being produced. The separated debris can also be measured quantitatively by placing the substrate in an ANALEX PQ Ferrous Debris Monitor.



## Features

- Simple method of both ferrous and non-ferrous metallic debris separation, enabling you to effectively analyse the results of your oil sample
- Suitable for lubricating oils, hydraulic fluids and greases
- Supplied complete with a comprehensive 'Guide to Wear Particle Recognition'
- Excellent particle separation - deposition path length is equivalent to a linear 160mm
- The separated debris can also be measured quantitatively by placing the substrate in an ANALEX PQ Ferrous Debris Monitor



The ANALEX<sub>rpd</sub> is quick and easy to operate - typically one sample per 6 minutes. Sampling costs are low - the equipment uses untreated glass slides and inexpensive solvents. In addition, dilution or any special treatment of the oil sample is rarely required.

## Ferrography

The RPD combines magnetic and centrifugal separation. The instrument is faster than other recognised ferrography techniques and does not suffer from interference due to carbonaceous material in the sample. Particles of debris are deposited radially as three concentric rings. There is no particle deformation and a wide particle size range - typically 1 to 2000 microns.

## Technical Specification

<b>Product Code:</b>	FG-K19026-KW
<b>Rotational Speed:</b>	30 - 200 rpm (4 preset speeds)
<b>Operating Temperature Range:</b>	10°C to 30°C
<b>DC Power Input:</b>	15 V DC
<b>AC Power Input to DC Supply:</b>	100 - 240 V AC
<b>Display:</b>	Alphanumeric LCD
<b>Dimensions:</b>	360 mm x 220 mm x 500 mm
<b>Weight:</b>	4.5 kgs

**KITTIWAKE**  
monitoring innovation

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