

# Model 246 **Portable** Balancing Instrument

## IN-SITU BALANCING & ALL TYPES OF BALANCING MACHINES

The Model 246 is a portable, easy to use Balancing Instrument with automatic speed tracking of vibration amplitude and angle. It can be used to balance all types of rotors 'In Situ' and on Soft or Hard Bearing balancing machines. Use it to replace outdated instruments and improve the performance of older balancing machines with minimal training. Its small size and light weight make it very easy to hand carry to any job site.



## Quick & Portable **Results**



### LIGHTWEIGHT PORTABILITY

Briefcase configuration provides protection to the instrument in a small, compact design.



### SIMPLIFIED DISPLAY

Dual channel, backlit super-twist alphanumeric LCD with two lines and 40 characters per line.



### ADD-ON ACCESSORIES

Vibration sensors for both field and stand balancing, photocell speed sensor, and related cables.



### INCOMPARABLE ACCURACY

Dual, narrow band shaft-synchronous digital tracking filters with averaging provides unparalleled accuracy

## Standard **Features**



- Dynamic (Left/Right) Unbalance or Static/Couple Unbalance
- Display of correction angles to add or remove rotor balance weights
- Unbalance Display in Digital Format
- Non-Volatile Rotor Memory storage for up to 50 different rotors
- Automatic Vector Splitting of unbalance corrections
- Electronic Compensation for tooling errors, keys, and keyways
- Numeric keypad with 6 Function keys for data entry
- Switch selectable language option
- Angle encoder input for the display of the unbalance position
- Serial RS232 interface

# Applications



## FIELD BALANCING

- Balancing speeds from 60 - 80,000 RPM
- Unparalleled filter for quick and accurate balancing solutions
- Model 544 transducers with magnets for ease of sensor placement
- Accessory bag included for transportation of equipment

## SHOP BALANCING

- Use either trial-weight or permanent (hard-bearing only) calibration methods
- Utilize either 546DP or 544 velocity transducers
- Digital display to provide accurate balancing solutions
- Easily transportable to multiple machine and field balancing applications



# Product Specifications

<b>Balancing Speed Range</b>	60 to 80,000 RPM	<b>Vibration Readout</b>	micrometers, mils, mm/sec or in/sec
<b>Amount Readout</b>	0.001 to 5 000 micrometers p-p or 0.0001 to 228mm/sec pk	<b>Language Options</b>	English, German, French, Italian and Spanish
<b>Digital Angle Readout</b>	0-359 degrees	<b>Instrument Dimensions</b>	415 x 300 x 125 mm
<b>Balance Planes</b>	1 or 2	<b>Power Supply</b>	120/240VAC, 50/60Hz
<b>Calibration Methods</b>	Trial Weights or Permanent	<b>CE certification</b>	89/336EEC (EMC) and 73/23EEC
<b>Unbalance Readout</b>	g mm, g in, oz in, grams or ounces	<b>Electromagnetic Std</b>	EN61000-6.2:2001 and EN61000-6.3:2001



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## About IRD

For 75+ years IRD®, or Industrial Research & Development, LLC has specialized in highly technical machinery that assists in the repair of industrial equipment. IRD® Balancing equipment allows customers to balance rotors of all sizes via soft-bearing technology which is more versatile and safer than hard-bearing technology. IRD® Balancing technology has advanced with the purpose of providing top-of-the-line balancing machinery across the globe. IRD® believes that excellence in workmanship and a high level of productivity are the key components to building long-term relationships with our customers.

