Balancing Instrumentation
Road Map

In 3 easy steps from Setup to Result

1. Setup rotor

2. Measure...

3. Show result...

Rotor Setup screen
Live Polar screen
Result screen
Travel to Instrumentation City

Instrumentation

Hardware

Calibration

“Right-click” anywhere

Must have Password

Rotor Setup

Must have Password

“Right-click” anywhere

Hardware

Calibration
In the Neighborhood
Instrumentation Setup

- Diagnostics Mode
- Supervisor Lock
- Automatic Cycle
- Remote Angle Display
- Gain switching
- Appearance
- Polar Diagram Orientation
- Balancing RPM
- Balancing Log
- Print Reports
- Setup and Calibration Data
In the neighborhood

Hardware Setup

- Machine Type
- Instrumentation Speed Range
- Input Configuration
- Encoder Polarity
- Encoder Data
- Machine Name
- Internal Dimensions
- Transducer Selection
- Simulated Strobe
- Blade Counting
- Automatic Backup

![Hardware Setup Screenshot]
In the neighborhood

Calibration Setup

Automatic Calibration
Calibration Data
Calibration Data 2
Testweight definition
Calibration Sticker
RPM Range calibration
What’s my Tolerance?

Tolerance Calculator (ISO 21940)

1. Click Tolerance Calculator
2. Enter Rotor Info
3. Select Balancing Standard
4. Click “Calculate”
5. Done!
Special Places

ARP Test

ARP4048
ARP5323
ARP4050

Umar Test
URR Test
Compensator Test
Couple Separation test

Internal data base for all machine classes

ARP Test Log
Special Places

Umar Test

Follow screen prompts and get Umar test results.
Special Places

URR Test

Follow screen prompts and get URR test results
Special Places
ARP Test Documentation

Generate ARP Test Print Reports
Use any printer connected to PC
Must Have Items

Tooling Compensation

Select Tooling Compensation

Define Indexing Angle

Tooling Compensation

Please define the indexing angle you wish to use

Index to: 100 degrees

[Cancel] [OK]
Must Have Items

Key Compensation

Select Key Compensation

Define Key Shaft or Bore Key Location Key Convention
Special Places

Drilling, Milling, Clips, Welding, Spreading... How do I get there?

Click Special Correction

And take your pick...
Special Places

Drilling, Milling, Clips, Welding, Spreading...

Select Correction Method

See result
Forbidden Places

Rotor Segments
Forbidden Places
Exclusion Zones

Define Exclusion Zones
Show Correction Locations
I like it different

3D Rotor Image

Results are shown in a 3D Rotor Image (Yes, it moves if you have an Encoder)
I like it different

Amount and Angle

Click Amount and Angle

Results are shown in Large Numbers Amounts and Angles
I like it different

Multiple Run Averaging

Click Run History

Multi Run Averaging
Include / Exclude individual runs
Show Standard Deviation
Continue with Result Average
I’m a Neat Freak

Clean up a Rotor

Enter existing unbalance corrections...

and combine old and new corrections into one
The Doctor will see you now...

**Built-in Diagnostics**

Directly look at Sensor signal strength
Easily identify bad cables, bad sensors

Built-in multi-channel Oscilloscope:
Raw signals and various filter stages
Super-imposed over Live Results