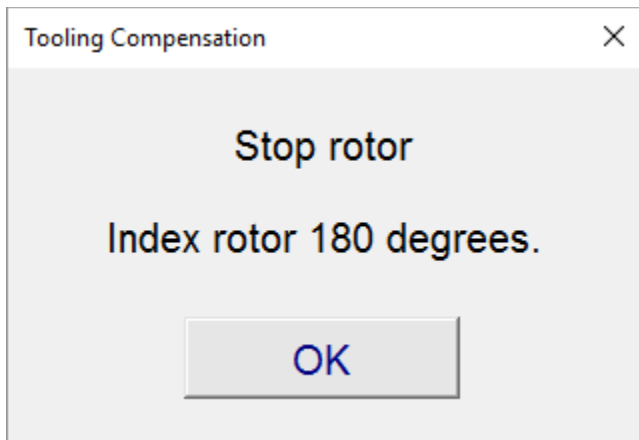
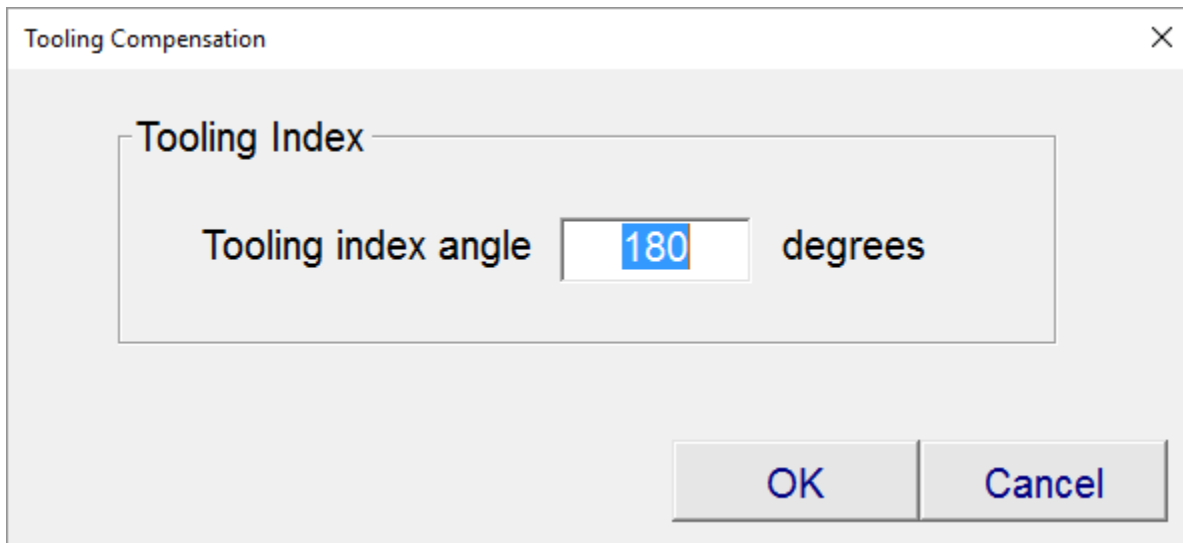


What's new in EasyBalance release 9.12.0.11

Release date 2017-01-11

Larger text in dialog boxes, easier to read from a distance

Examples:



New, easier Tooling Compensation Interface Dialog

EasyBalance - Tooling Compensation ×

Tooling Compensation

Use existing Tooling Compensation?	<input type="button" value="Existing"/>
Make new Tooling Compensation?	<input type="button" value="New"/>
Continue without Tooling Compensation?	<input type="button" value="Without"/>
Show existing tooling configuration?	<input type="button" value="Show"/>

Tooling Compensation Averaging: multiple measurements per tooling compensation step, with data averaging

(requires additional software license)

Tooling Compensation ×

Tooling Index

Tooling index angle degrees

Tooling Steps

Use a single measurement per Tooling Compensation step Single

Use multiple measurements per Tooling Compensation step, and use data averaging Multiple

Tooling Audit

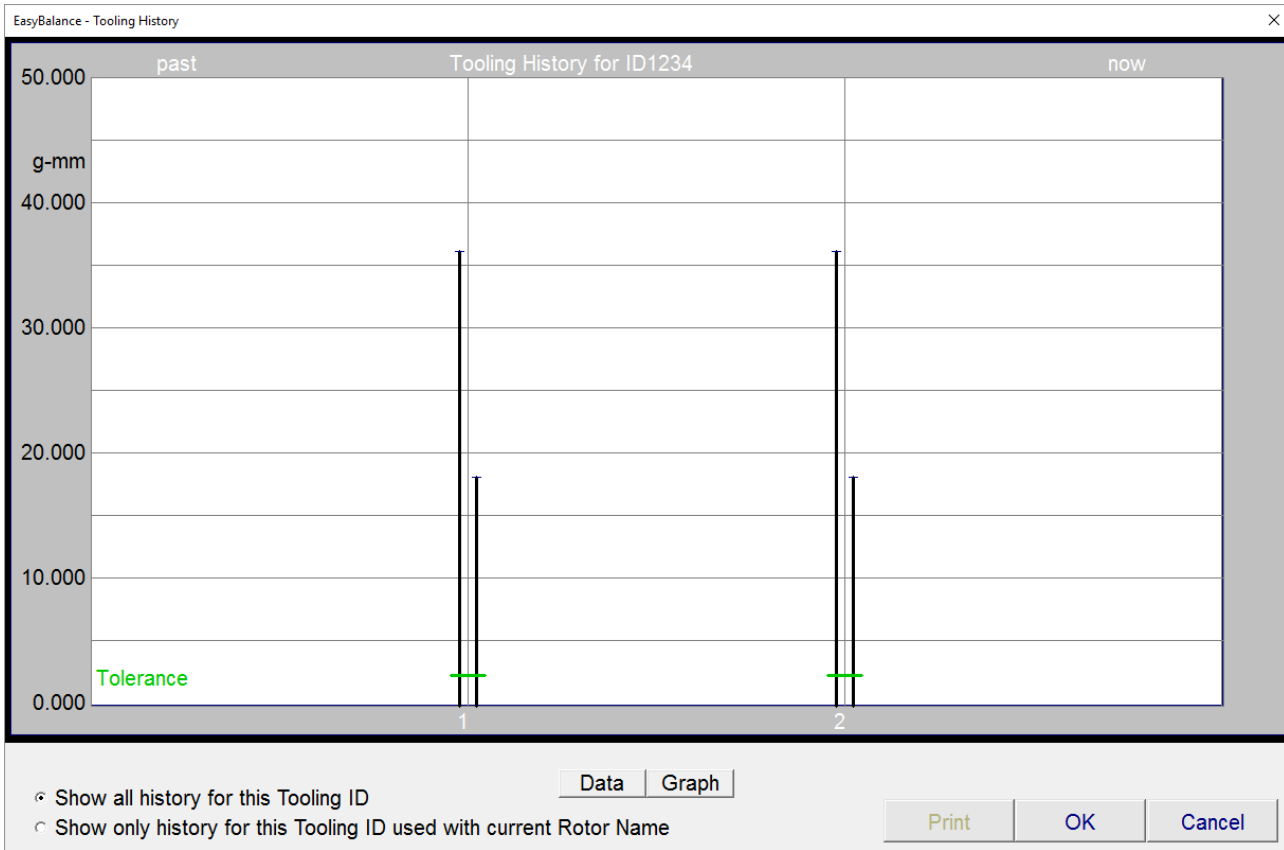
Tooling ID

Show Tooling performance history for this Tooling ID

Tooling Error limit
 in % of part tolerance

Tooling History shows past tooling compensation values, check for tooling performance over time (requires additional software license)

either as graph



or data

EasyBalance - Tooling History

Tooling History Report
ID1234
Units: g-mm

Line	Date	Time	Step 1		Step 2		Runs	Std Dev Left	Std Dev Right	Runs	Std Dev Left
			Tooling Left	Error	Tooling Right	Error					
1	15:06:47	17-01-11	36.23508	1449%	18.21477	729%	1	0.00000	0.00000	1	0.00000
2	15:16:53	17-01-11	36.23508	1449%	18.21477	729%	1	0.00000	0.00000	1	0.00000

Show all history for this Tooling ID
 Show only history for this Tooling ID used with current Rotor Name

Data Graph

Print OK Cancel

CANCEL button in Live Polar diagram returns user to previous screen (works like a “Back” button)

If Live Polar diagram was opened from Rotor Setup screen, CANCEL will go back to Rotor Setup screen

If Live Polar diagram was opened from Result screen, CANCEL will go back to Result screen and restore previous readings

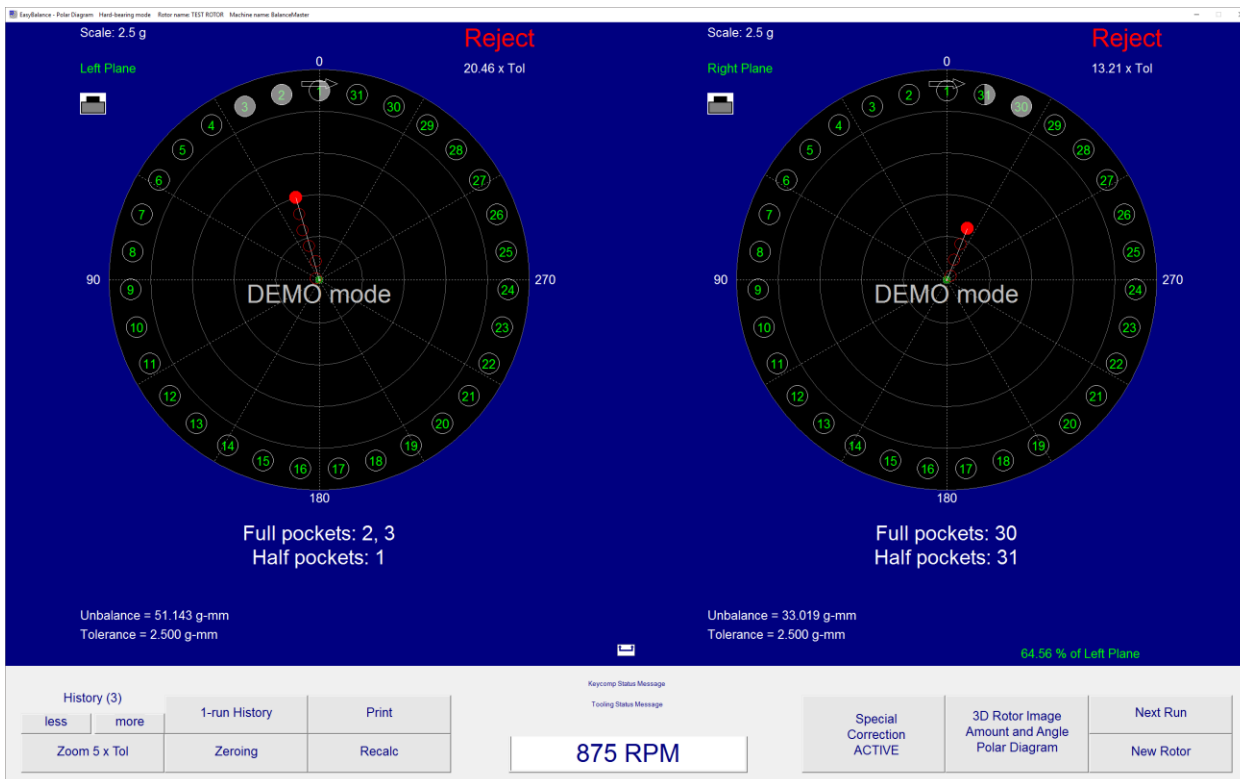
Special correction, new feature: Mass Pockets

Mass Pockets

Show expected results

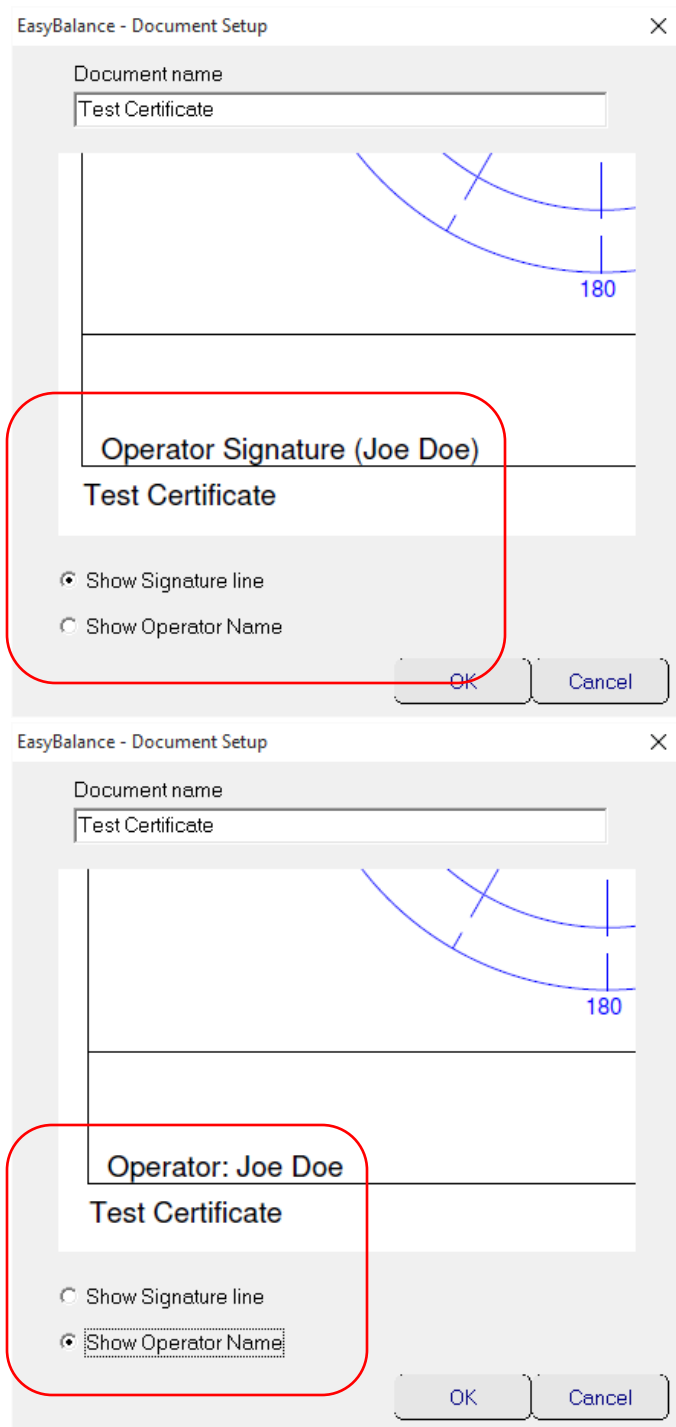
	Left	Right
	<input type="checkbox"/> Reverse numbering	<input type="checkbox"/> Reverse numbering
Number of pockets	<input type="text" value="31"/>	<input type="text" value="31"/>
First pocket at	<input type="text" value="0"/>	<input type="text" value="0"/>
Pocket fill mass (g)	<input type="text" value="0.2500"/>	<input type="text" value="0.2500"/>
Fill mode	<input checked="" type="radio"/> Fill full hole <input type="radio"/> Fill 1/2 hole	<input checked="" type="radio"/> Fill full hole <input type="radio"/> Fill 1/2 hole
	<input type="checkbox"/> Clean pockets start over	<input type="checkbox"/> Clean pockets start over

User can define series of holes to fill, either full pockets or half-pockets



Print reports, Document Setup Dialog

Select if Operator Signature or Operator Name should be shown in Print reports, shown with visual example:



Rotor direction

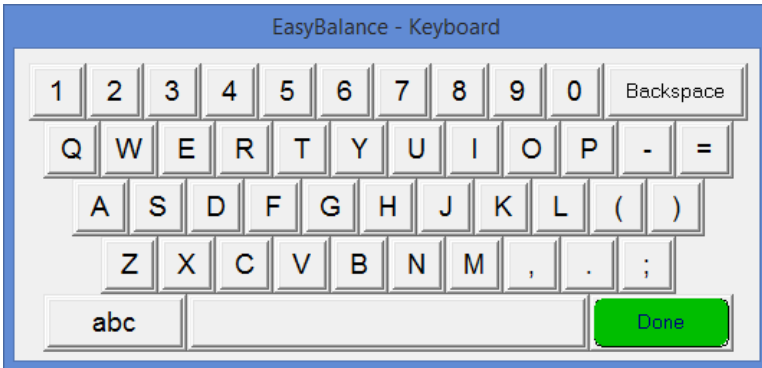
Easy-to-see directional arrow shows rotational direction in Rotor Setup image.

Click the directional arrow to toggle between FORWARD and REVERSE

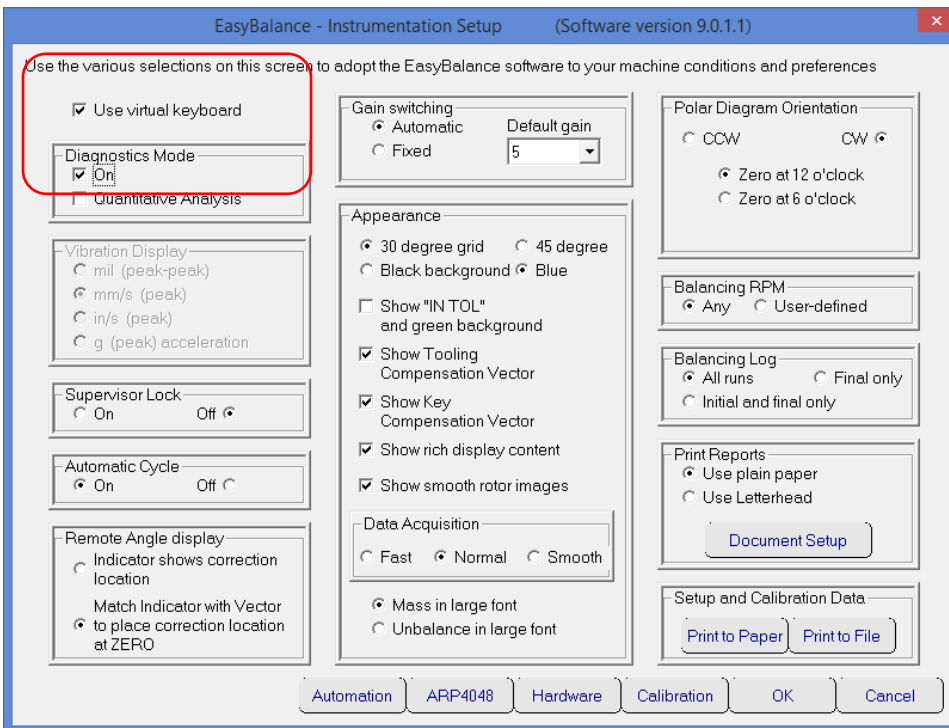
The screenshot displays the 'Rotor Setup' screen in the BalanceMaster software. The interface includes a top toolbar with icons for rotor types, a file selection area with 'Open Rotor File' and a dropdown menu showing 'TEST ROTOR', and a central diagram of a rotor assembly. The rotor diagram shows two masses of 50.000 mm each, with a tolerance of 2.500 g-mm. Dimensions include 10.000 mm, 90.000 mm, and 100.000 mm. A blue curved arrow on the rotor is highlighted with a red box, indicating the rotational direction. The left sidebar contains settings for Mass (gram), Distance (millimeter), and g-mm, along with radio buttons for Radius, Diameter, 1-plane, 2-plane, and Static/Couple. The right sidebar includes buttons for 'See Log', 'Search...', 'Delete Rotor', 'Tolerance Calculator', 'Journal plane', 'Correction plane', and 'Show Tolerance as mass at radius'. The bottom of the screen features 'Tooling Compensation', 'Key Compensation', and 'Result Display' dropdowns, a green 'START BALANCING' button, and an 'Exit program' button. The BalanceMaster, Inc. logo is visible in the bottom right corner.

Touch screen compatible

Optional built-in keyboard will pop up if numerical or alpha-numerical input is required

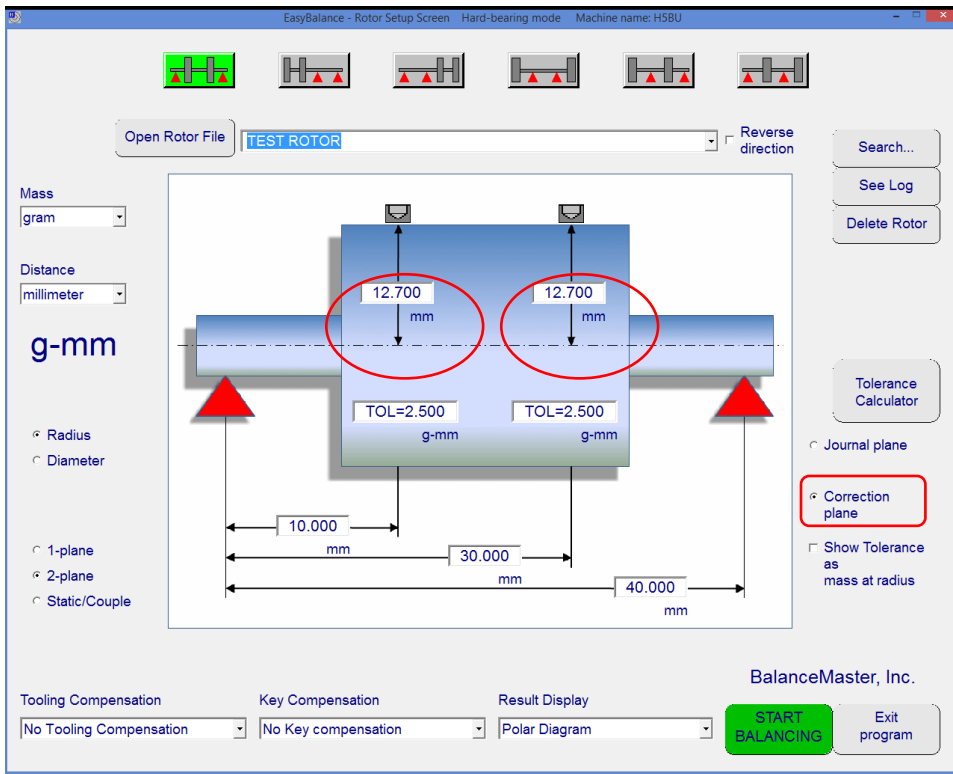


This option is user-selectable in the Instrumentation Setup screen

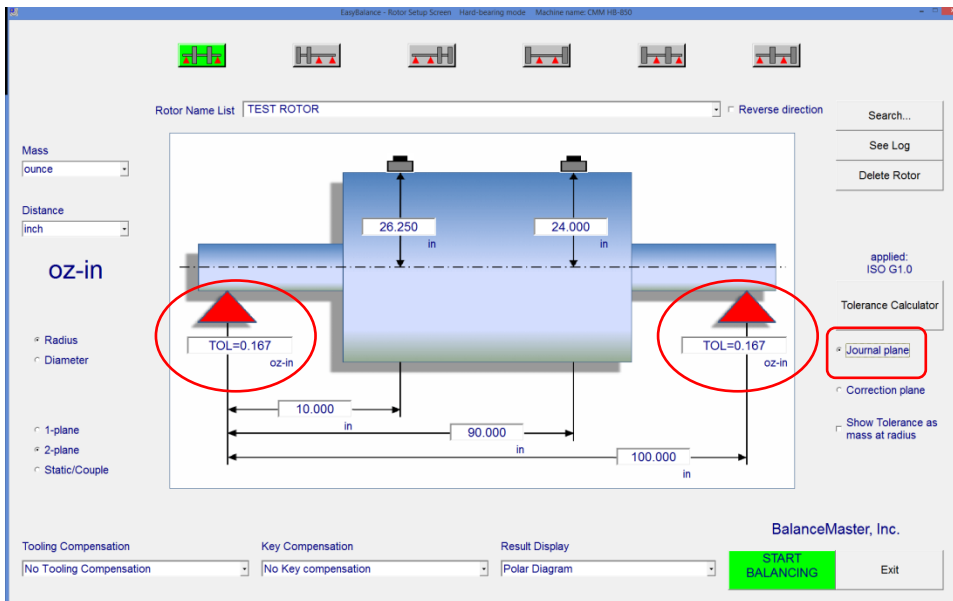


The Rotor Setup image will show the tolerance fields according to the selected setting for "Journal plane" or "Correction plane"

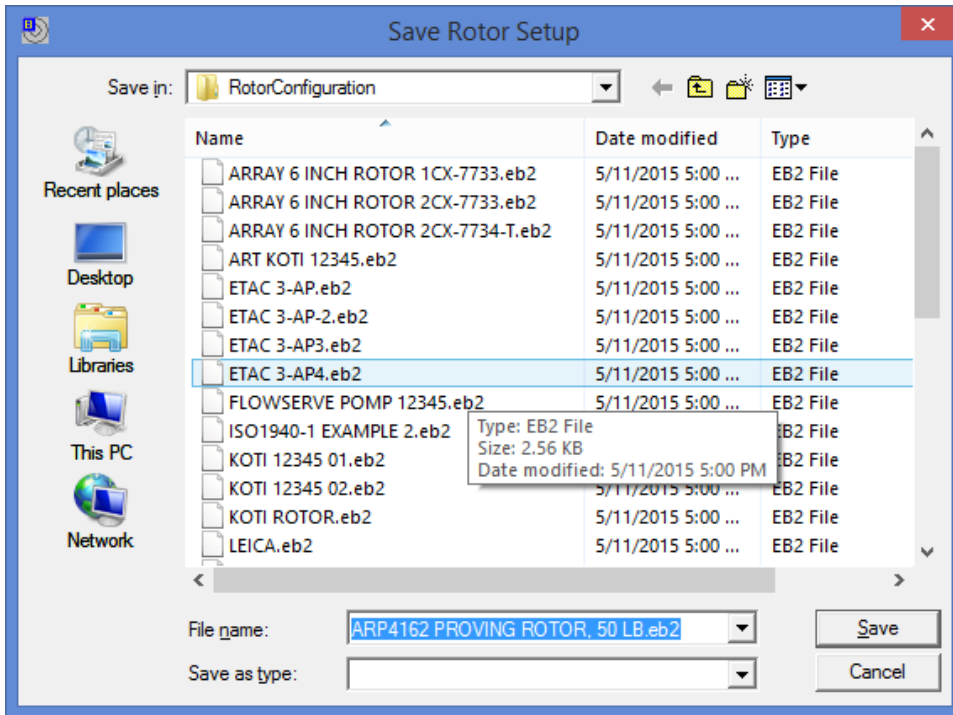
Correction planes:



Journal planes:



In addition to the built-in Rotor database, the new release will also store Rotor Setup data with the familiar **WINDOWS Save As and Open dialogs**



ARP tests and documentation for Horizontal, **Vertical 1-plane** and **Vertical 2-plane** machines are an integrated feature of the EasyBalance software (special license key is required)

EasyBalance - ARP4048 Test Setup

ARP Test Selection

- Umar Test
- URR Test
- Compensator Test
- Couple Separation Test

Machine Class Selection

- 30 (Load Capacity 60 lb)
- 100 (Load Capacity 150 lb)
- 300 (Load Capacity 450 lb)
- 1000 (Load Capacity 1500 lb)
- 3000 (Load Capacity 4500 lb)

Test Setup Information

Test Rotor: ARP4162 Proving Rotor, 50 lb

Test Speed Range: 1000 to 1600 RPM

1 A Unit: 10.0 microinch

Required URR: 95 %

10A mass (1): 1.0744 g

25A mass (2): 2.6860 g

125A mass (2): 13.4301 g

Test Information

Test performed by: HMC

Serial Number Instrumentation: 85-03589

Serial Number Machine: 85-03588

Machine make and model: Balancemaster

Test Location: Shop

Test Rotor ID: TR50-01

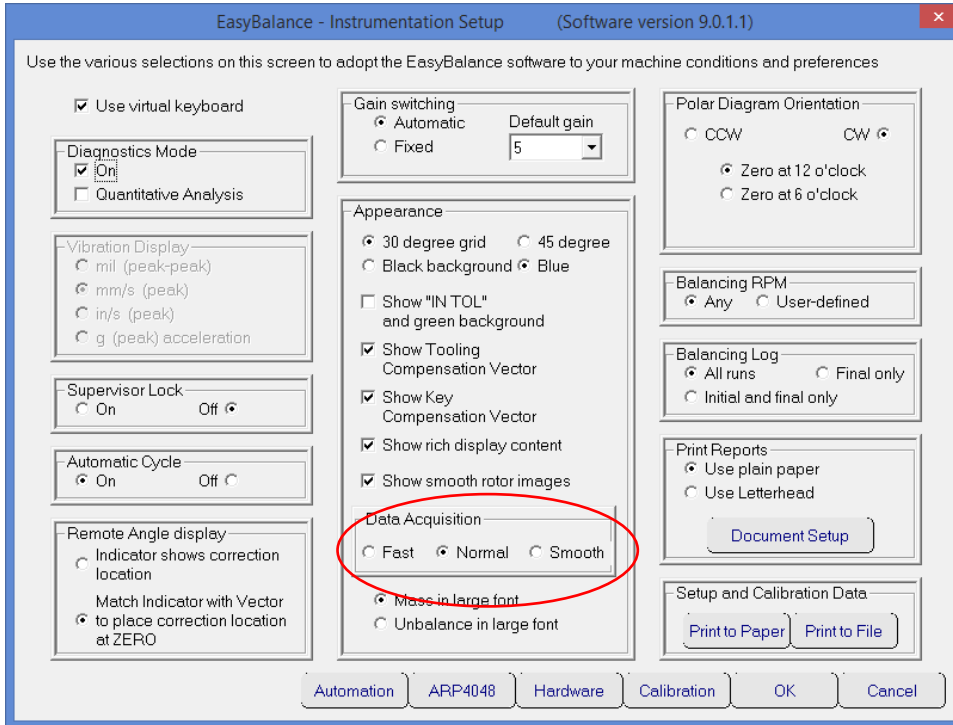
ARP Test Log

Umar Tests URR Tests

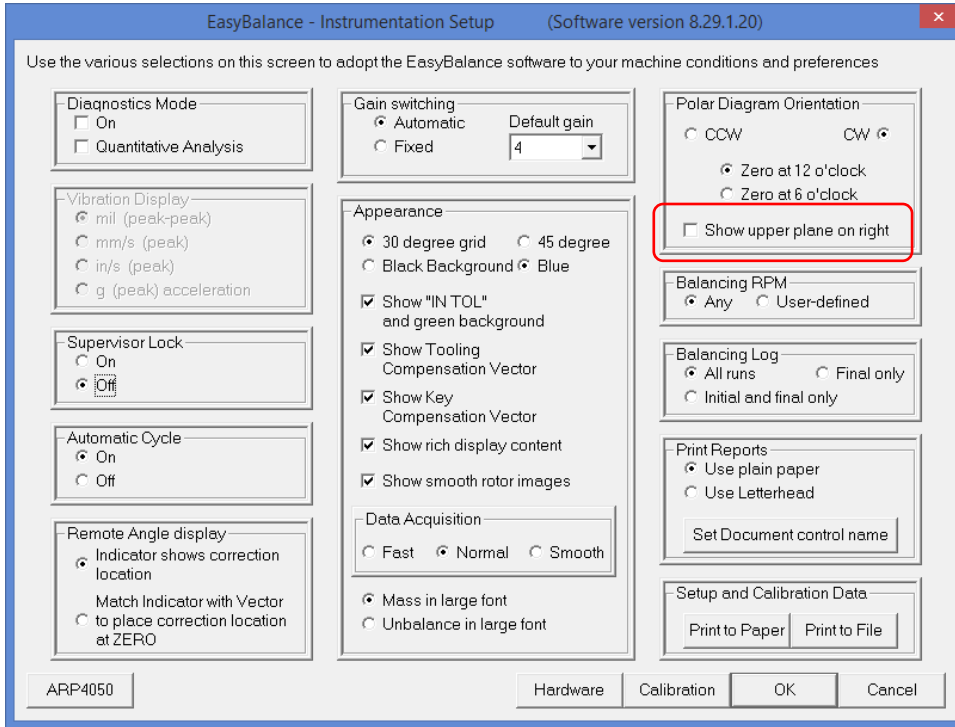
Compensator Tests Couple Sep. Tests

OK Cancel

Data acquisition behavior can be set to "Fast", "Normal" or "Smooth", to accommodate personal and application preferences (requires hardware version 8 and up)

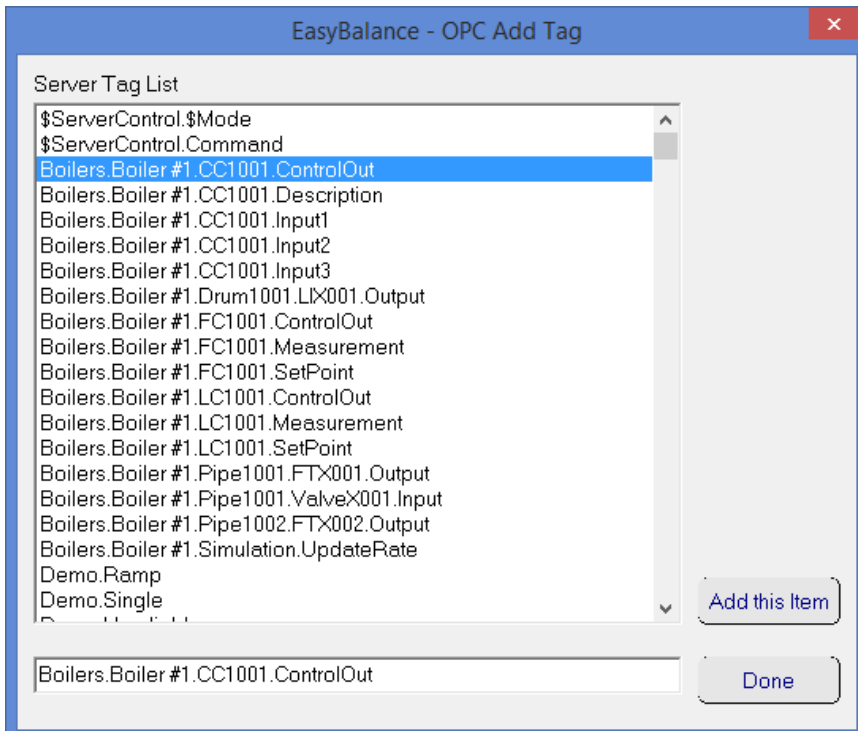
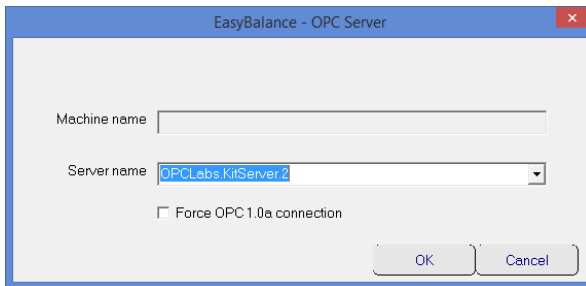
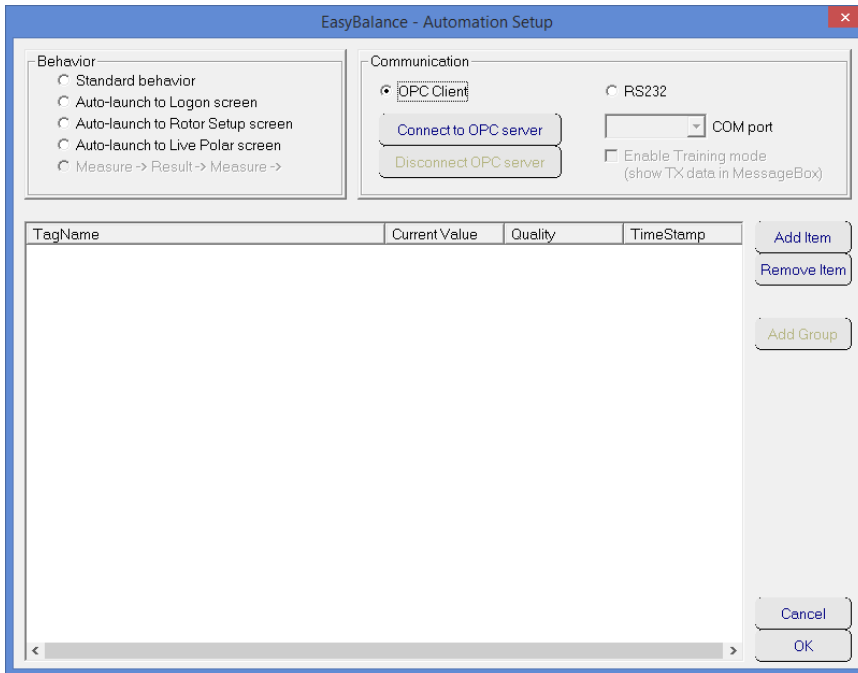


For Vertical 2-plane machines, the screen location of the upper and lower planes can be selected according to operator preference. This will accommodate operators who are used to **Schenck instrumentation**

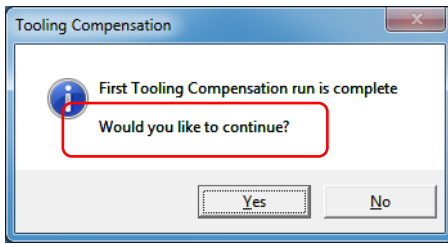


OPC client

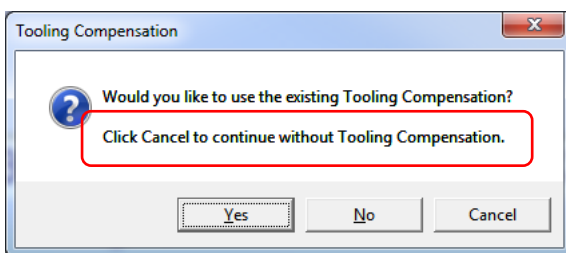
For semi- or fully-automatic balancing machines. The EasyBalance software has OPC capabilities to make integration with other devices and PLC simple and fast.



Tooling compensation allows to interrupt the 2-step process, and continue where you left off at another time. This is interesting for tooling compensation processes involving time consuming tooling change-over procedures. The balancing machine can be used for other balancing jobs while tooling is changed.



The Tooling Compensation dialog offers a 3rd choice: Click Cancel to continue without Tooling Compensation.



Key compensation now offers the option of using key compensation with a real key, in addition to using a simulated or virtual key. The advantage is that the print report will contain precise information about the real key used in the balancing process.

