

EasyBalance 2.2 software update - What's new

Additional OPC Tags

EasyBalance_Result_Display

To control the Result Display mode, which can be either
Amount and Angle (numeric display)
Polar Diagram
3D (3-dimension rotor representation)
Bode Diagram for increasing RPM
Bode Diagram for decreasing RPM

EasyBalance_Result_Left

Unbalance result in percent of tolerance

EasyBalance_Result_Right

Unbalance result in percent of tolerance

EasyBalance_Result_Static

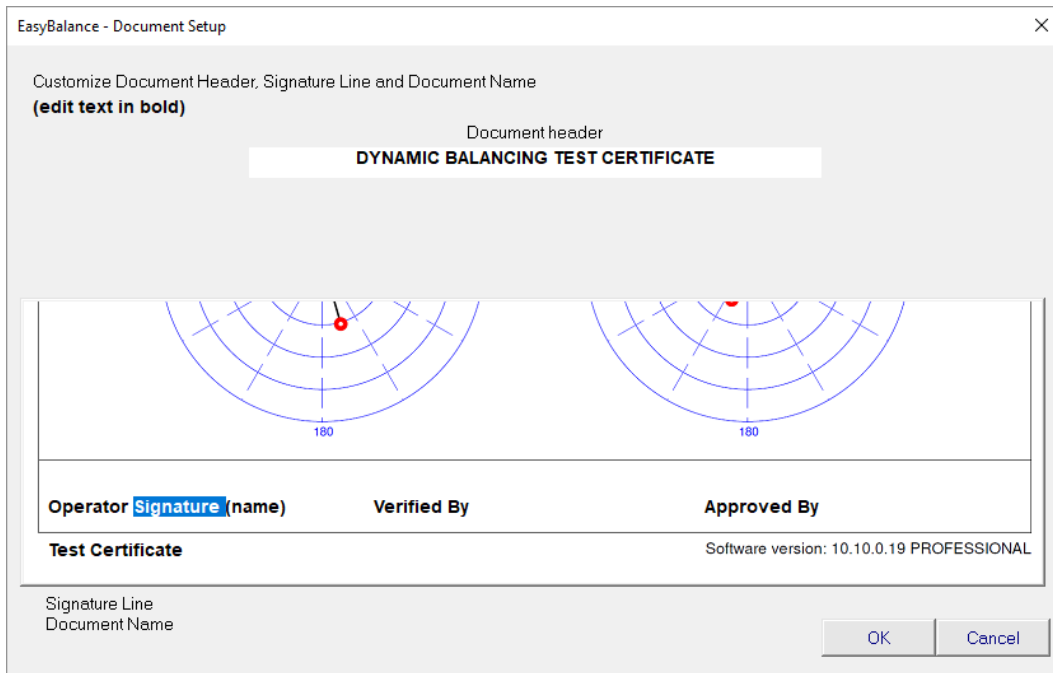
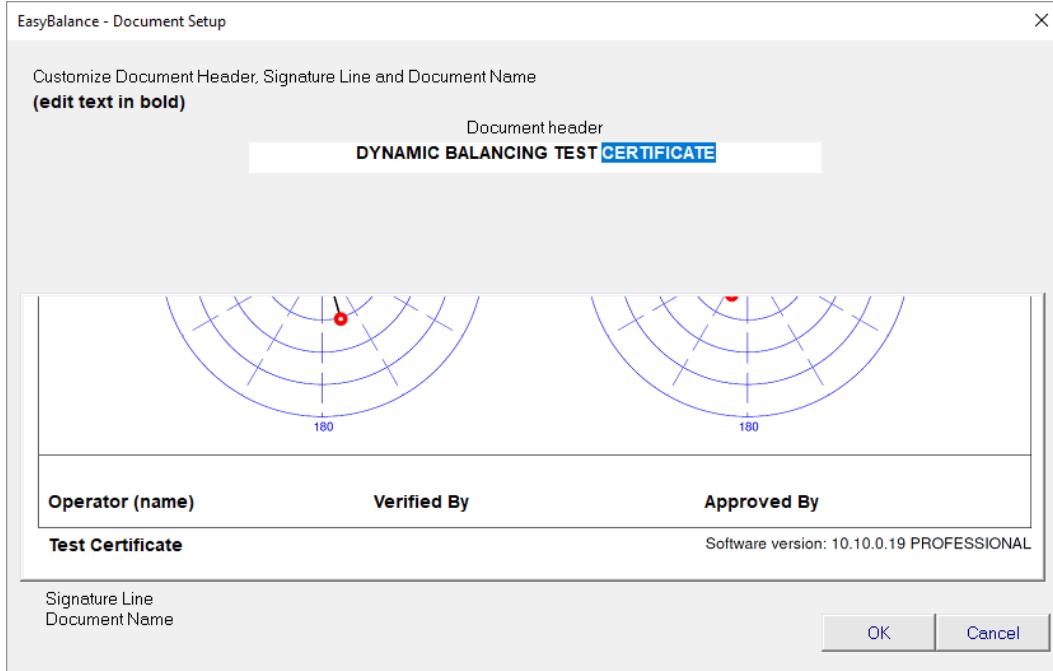
Unbalance result in percent of tolerance

Reference: Tag List, release date 2017-11-11

Print Report, Document Setup dialog:

Previously, two choices for signature line appearance have been available.

Now, the operator can freely edit the Document Header, Signature Line and Document Name by simply editing the text in the Document Setup Dialog:



Print Report, add company-specific text, fully customizable:

Example:

Add a DISCLAIMER text to the Balancing Certificate.

Save a text file in the EasyBalance root directory. Name the text file "ReportText_1.txt"

Text will automatically be added to the Balancing Print report.



DYNAMIC BALANCING TEST CERTIFICATE

BalanceMaster EasyBalance 2.2, Date: 2017-10-16, Time: 14:33
Machine name: BalanceMaster

BalanceMaster, Inc.

2246 Toll Gate Road

Concord, VA 24508

Phone: 434-258-5078

Fax: 434-473-6763

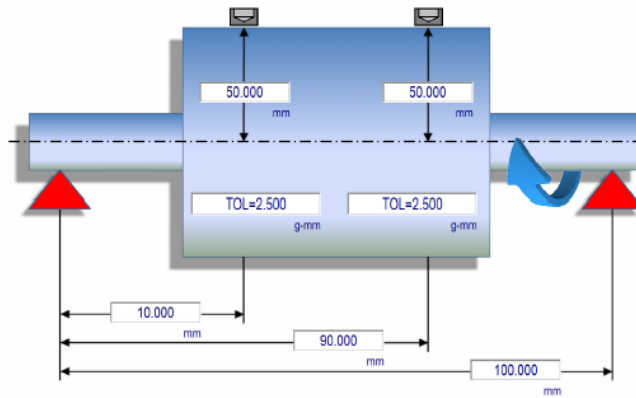
We hereby certify that the impeller(s) are balanced in accordance with requirements of the latest revisions to MA015 REV.10 MMS325 REV.7 and QAI-405 REV.

TEST ROTOR

No Key compensation

No Tooling Compensation

Balancing Quality Standard:
User-defined



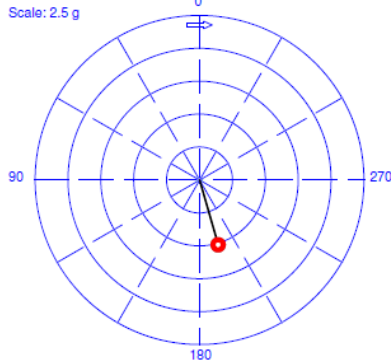
CURRENT RESULT:

875 RPM

Correction mass:

Unbalance:

Scale: 2.5 g



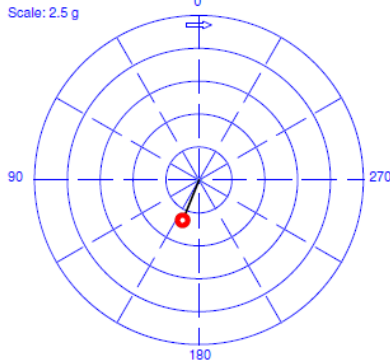
Reject (20.46 x Tol)

Left

- 1.023 g at 196°

51.143 g-mm

Scale: 2.5 g



Reject (13.21 x Tol)

Right

- 0.6604 g at 158°

33.019 g-mm

Operator

Verified By

Approved By

Test Certificate

Software version: 10.10.0.20 PROFESSIONAL

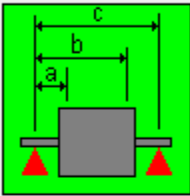
Balancing Tolerance Calculator:

Updated with revision ISO 21940-11-2016, which has replaced ISO 1940.

EasyBalance - Tolerance Calculator ✕

Rotor configuration

Check here if the rotor bearing configuration in service is different from the configuration in the balancing machine setup



The diagram shows a grey rotor on two red triangular bearings. Dimension 'a' is the distance from the left bearing to the center of the rotor. Dimension 'b' is the distance from the right bearing to the center of the rotor. Dimension 'c' is the total distance between the two bearings.

Both correction planes between bearings

mm

mm

mm

Left journal load

Right journal load

lb
 kg
 g

Service Speed

Balancing Standard

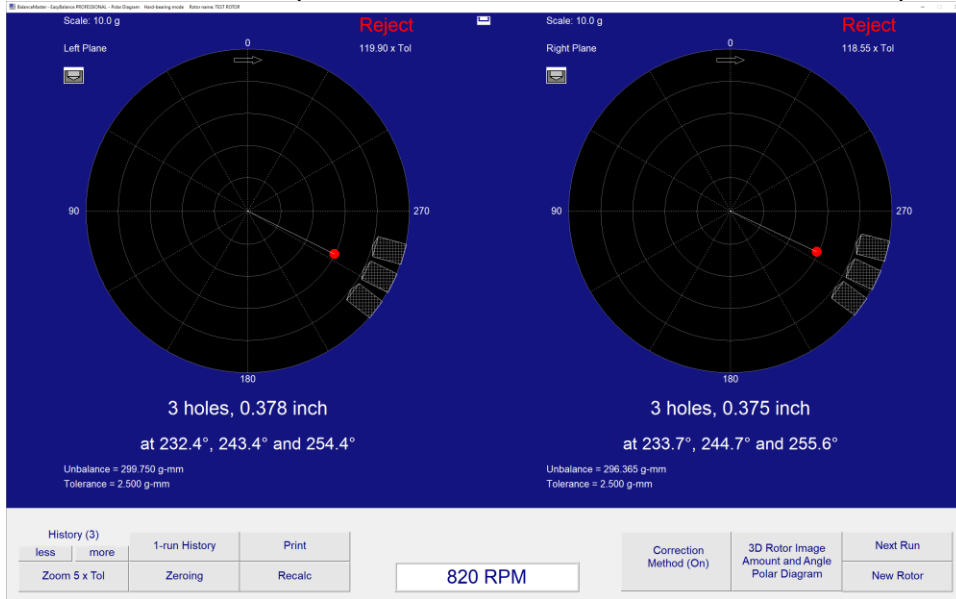
Apply strict (worst-case) allocation rule

Additional OPC tags for Drill Correction info:

Allowing automatic drill correction for up to 8 holes per plane

Also available: avoid double-drilling (allows to make multiple correction runs by automatically avoiding drilling into existing holes)

First run calculates required drill correction: number of holes, hole depth, hole location:

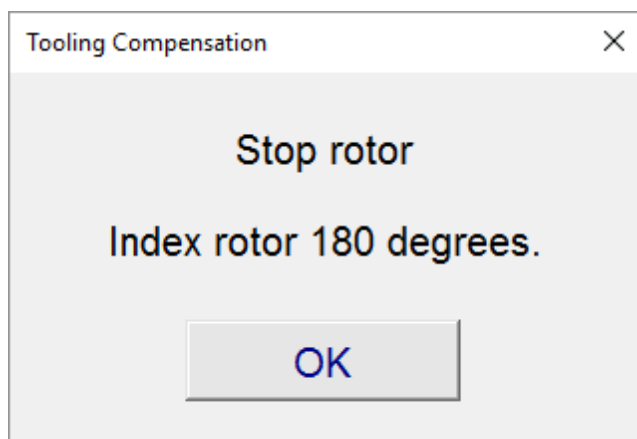
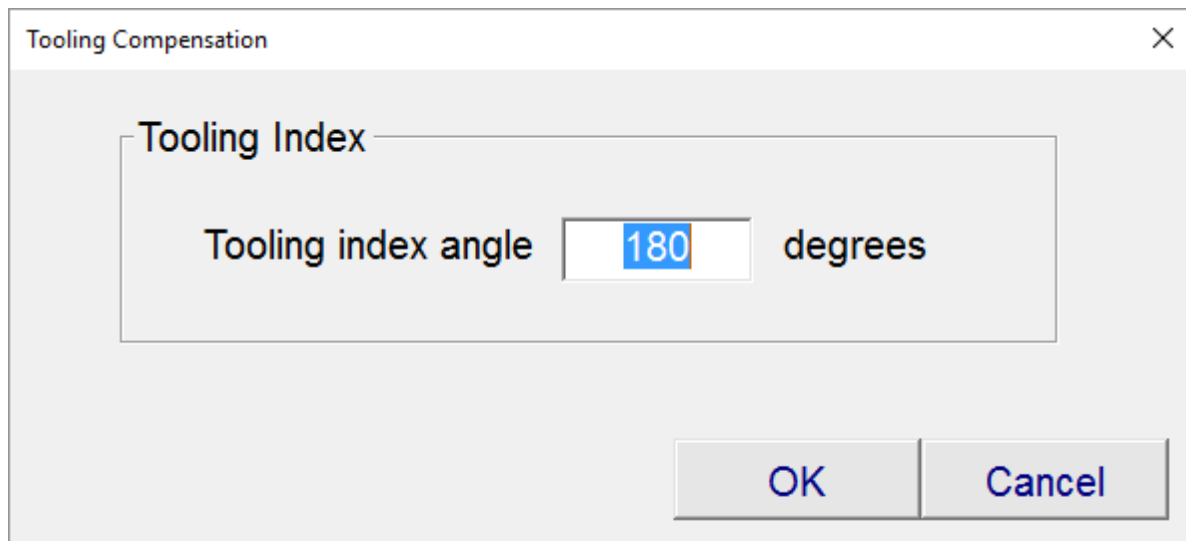


Next run automatically avoids existing holes and calculates new number of holes, hole depth and hole location:



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 (*EasyBalance PRO* only)

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 (*EasyBalance PRO* only)
shows past tooling compensation values

Show tooling performance over time, as graph



or data

EasyBalance - Tooling History

Tooling History Report
ID1234 Units: g-mm

Line	Date	Time	Step 1				Step 2				
			Tooling Left	Error	Tooling Right	Error	Runs	Std Dev Left	Std Dev Right	Runs	Std Dev Left
1	15:06:47	17-01-11	36.23568	144%	18.21477	72%	1	0.00000	0.00000	1	0.00000
2	15:16:53	17-01-11	36.23568	144%	18.21477	72%	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

Special correction: **Mass Pockets**

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

Mass Pockets

Show expected results

Left

 Reverse numbering
 Number of pockets:
 First pocket at:
 Pocket fill mass (g):
 Fill mode: Fill full hole
 Fill 1/2 hole
 Clean pockets start over

Right

 Reverse numbering
 Number of pockets:
 First pocket at:
 Pocket fill mass (g):
 Fill mode: Fill full hole
 Fill 1/2 hole
 Clean pockets start over

