Tinius Olsen

An Introduction

Contents

- Overview of Horizon
- Easy test “Just 4 clicks to a test report”
- Consolidated test reports
- Solving problems – *on line support*
- Selling Model
- Flexibility in connection options
- Hardware Requirements
- Competition
- Launch Plan
- Practical – Use of software

Can Horizon

Q. Is Horizon easy to use? **YES**

Q. Is Horizon XP and or Vista compatible? **YES**

Q. Can I set up Pass\Fail limits? **YES**

Q. Is there embedded traceability of results? **YES**

Q. Can I operate all my machines from one PC? **YES**

Q. Is Horizon network compatible? **YES**

Q. Can Horizon communicate with my ERP system? **YES**

Q. How quick to test and report? **4 mouse clicks**

Q. Can I develop my own test methods? **YES**
or will I be required to pay more? **NO**

Q. Can I replace my existing TO software with Horizon? **YES**

Can Horizon

Q. Is there on line support? **YES**

Q. Are there built in Tutorials to support operator training? **YES**

Q. Does Horizon use a centralised data base? **YES**

Q. What is the data base structure **SQL Express 2005**

Q. Can I have a graph not locked to zero i.e. 4 quadrant? **YES**

Q. Can I save in PDF and or Microsoft XPS? **YES**

Q. Can I have multiple extensometers and gauge lengths for one test **YES**

Q. ? **YES**

Overview


Testing & Recall
Method Editor
Output Editor
Results Editor
Library Tools
Configura tion
Help Desk
HORIZON

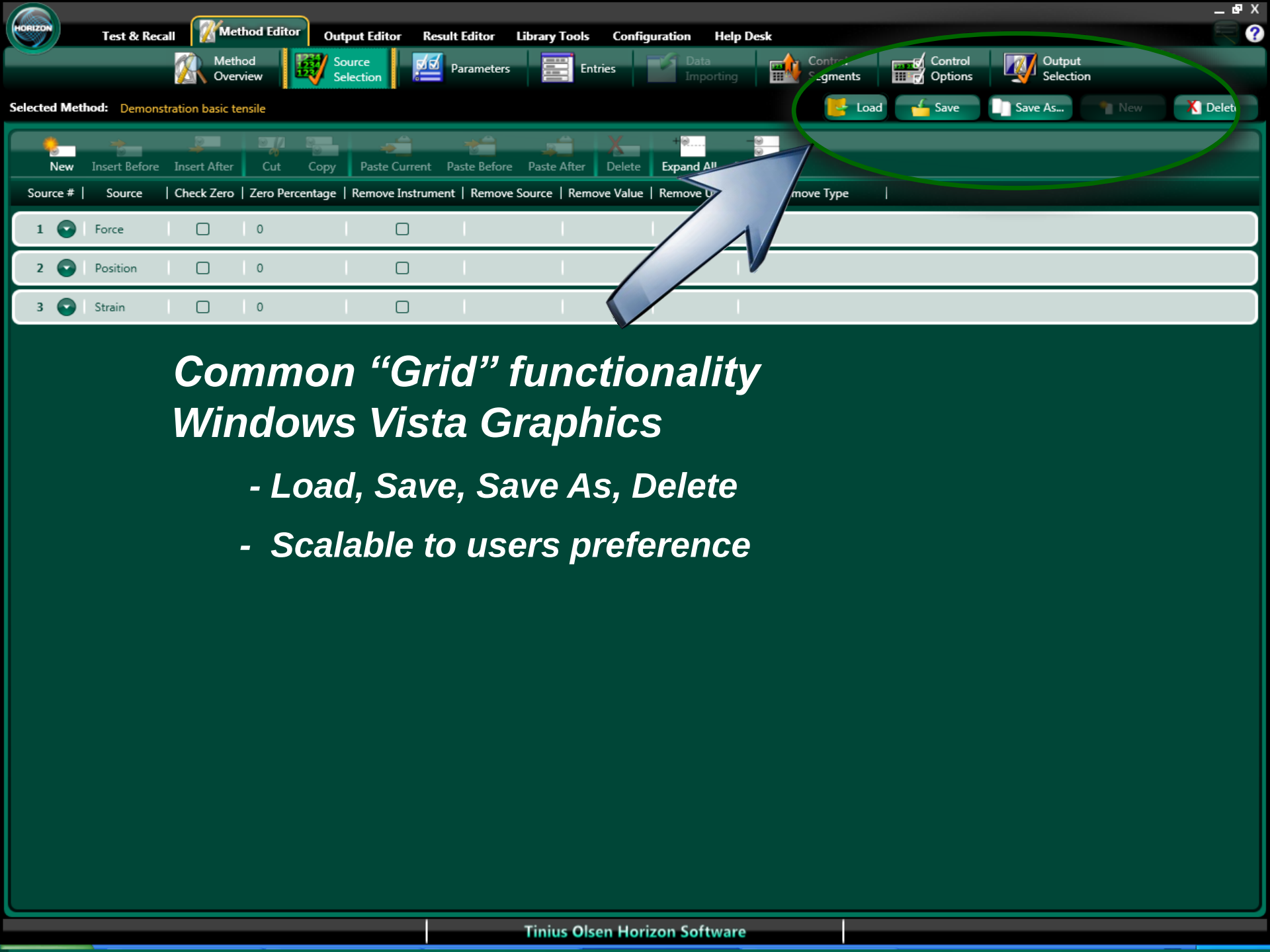
Launch Screen

User Interface Overview

Attempt to flatten and consolidate	• Navigator had multiple tabs • QMAT had multiple separate programs
Common grid for editor pages	• Easier to learn • Same functionality throughout
Ultimate menu for overall functions in a given area	• Intro page • Different functions for each major section • Microsoft Standard
Multiple reports, graphs, exports, imports	• Complete flexibility

Testing & Recall

Adjustable	• Panel size • Panel position
Multiple Testing and Recall tabs	• Machines • Recall
Tab Settings	• Demo • Method • Machine • Testing mode


Test & Recall
Method Editor
Output Editor
Result Editor
Library Tools
Configuration
Help Desk
Method Overview
Source Selection
Parameters
Entries
Data Importing
Control Options
Output Selection
Selected Method: Demonstration basic tensile
Load
Save
Save As...
New
Delete
New
Insert Before
Insert After
Cut
Copy
Paste Current
Paste Before
Paste After
Delete
Expand All
Source #
Source
Check Zero
Zero Percentage
Remove Instrument
Remove Source
Remove Value
Remove Type
1 Force 0
2 Position 0
3 Strain 0
Common "Grid" functionality
Windows Vista Graphics
- Load, Save, Save As, Delete
- Scalable to users preference
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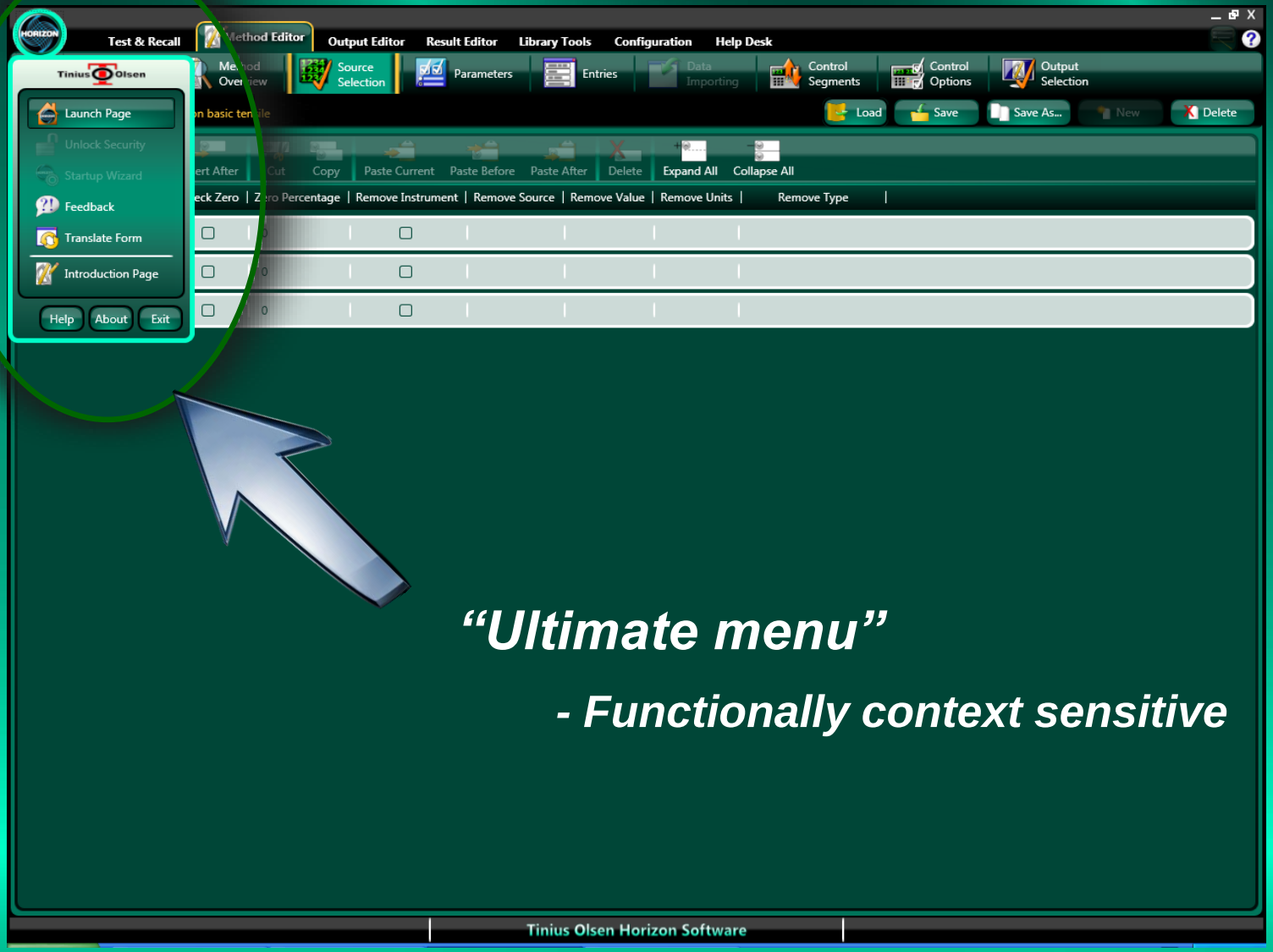
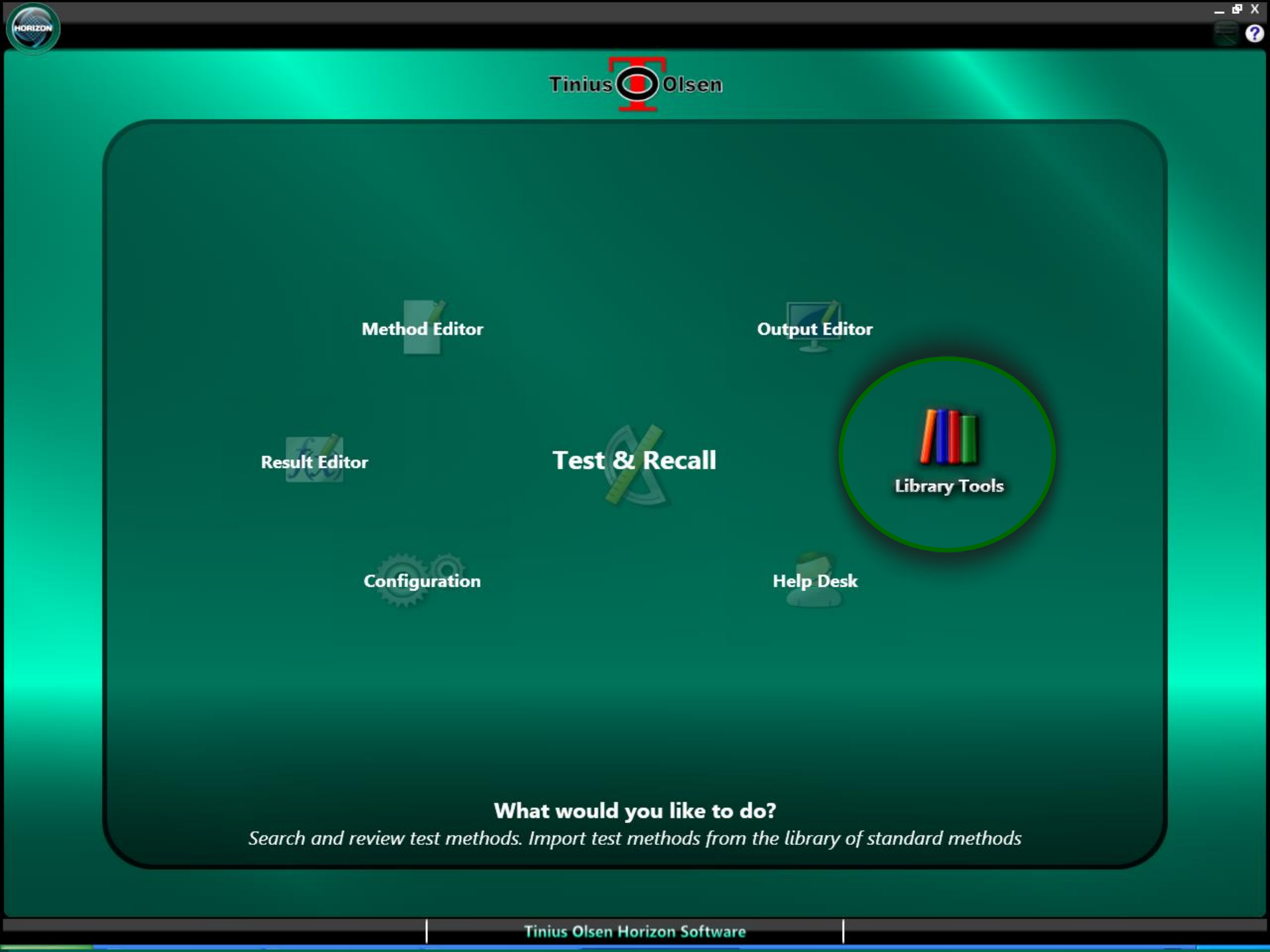


“Ultimate menu”

- Functionally context sensitive

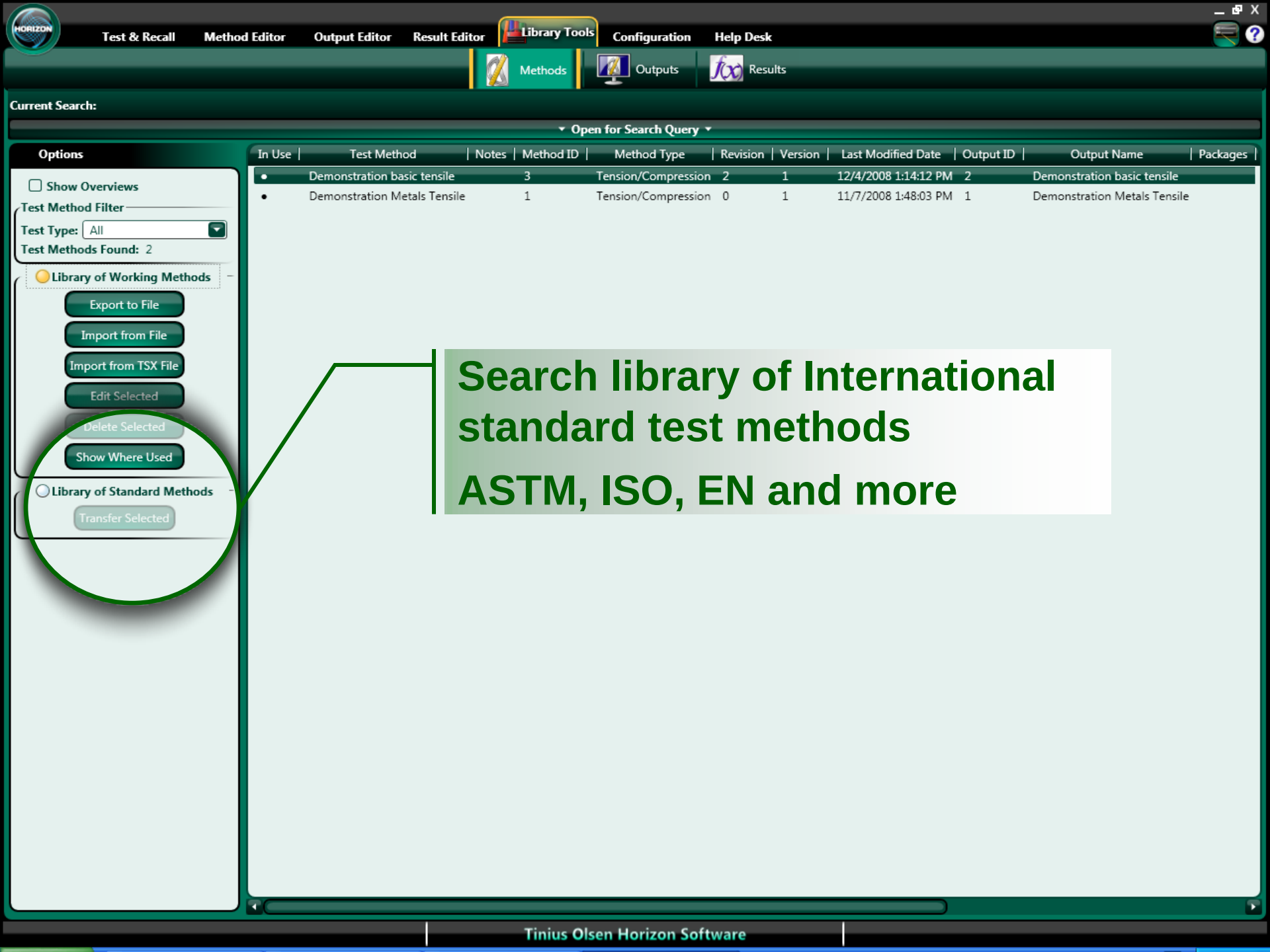
"Overviews"

- *Summary of function set up – at a glance*
- *History review*
- *Revert and restoration of settings*


Tinius Olsen
Method Editor
Output Editor
Result Editor
Test & Recall
Library Tools
Configuration
Help Desk
What would you like to do?
Search and review test methods. Import test methods from the library of standard methods
Tinius Olsen Horizon Software

Library Tools

Standards Library	• Search and Transfer
Import/Transfer to working methods	• Automatic transfer of company heading information • Result definition conflict validation • Editable library methods (after being transferred)
Delete Methods, Outputs, and Results	• Centralized area for deleting software constructs
At a glance information	• Overviews • In - use


Test & Recall
Method Editor
Output Editor
Result Editor
Library Tools
Configuration
Help Desk
Methods
Outputs
Results
Current Search:
Open for Search Query
Options
Show Overviews
Test Method Filter
Test Type: All
Test Methods Found: 2
Library of Working Methods
Export to File
Import from File
Import from TSX File
Edit Selected
Delete Selected
Show Where Used
Library of Standard Methods
Transfer Selected
In Use | Test Method | Notes | Method ID | Method Type | Revision | Version | Last Modified Date | Output ID | Output Name | Packages
Demonstration basic tensile 3 Tension/Compression 2 1 12/4/2008 1:14:12 PM 2 Demonstration basic tensile
Demonstration Metals Tensile 1 Tension/Compression 0 1 11/7/2008 1:48:03 PM 1 Demonstration Metals Tensile
Search library of International standard test methods
ASTM, ISO, EN and more
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Method and Output

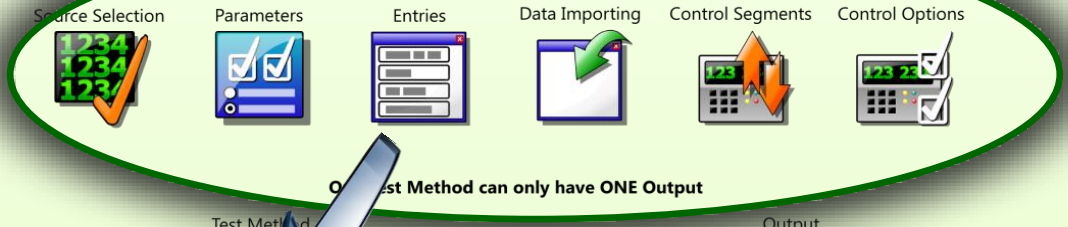
Each method must have an output

An output can be standalone which will provide eventual “cross-module” reporting functionality

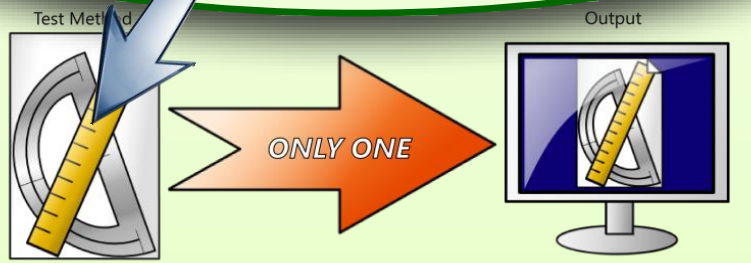
Each method in the standard library will have an output that will transfer with it

Test Method/Output Relationships

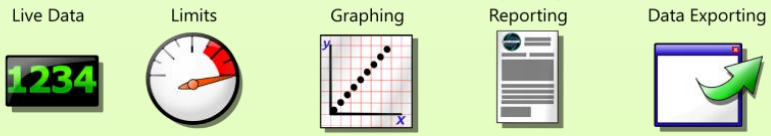
A Test Method contains information regarding:



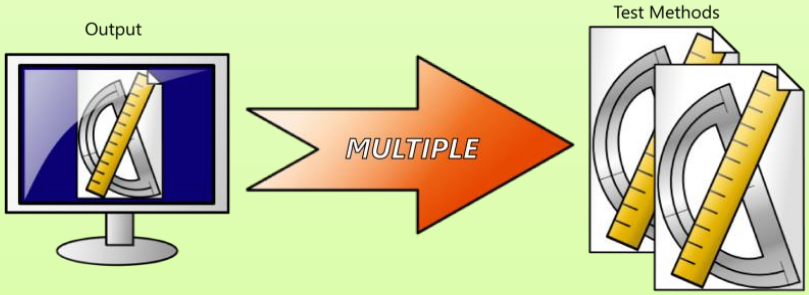
A Test Method can only have ONE Output



A Output contains information regarding:



One Output can be used by multiple Test Methods



Test Method/Output Relationships

A Test Method contains information regarding:

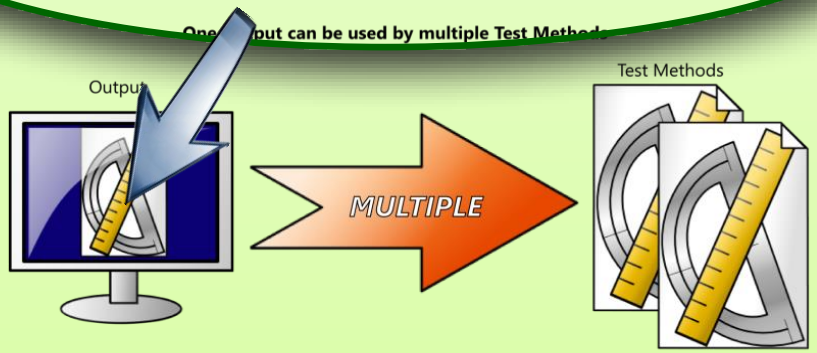
Source Selection | Parameters | Entries | Data Importing | Control Segments | Control Options

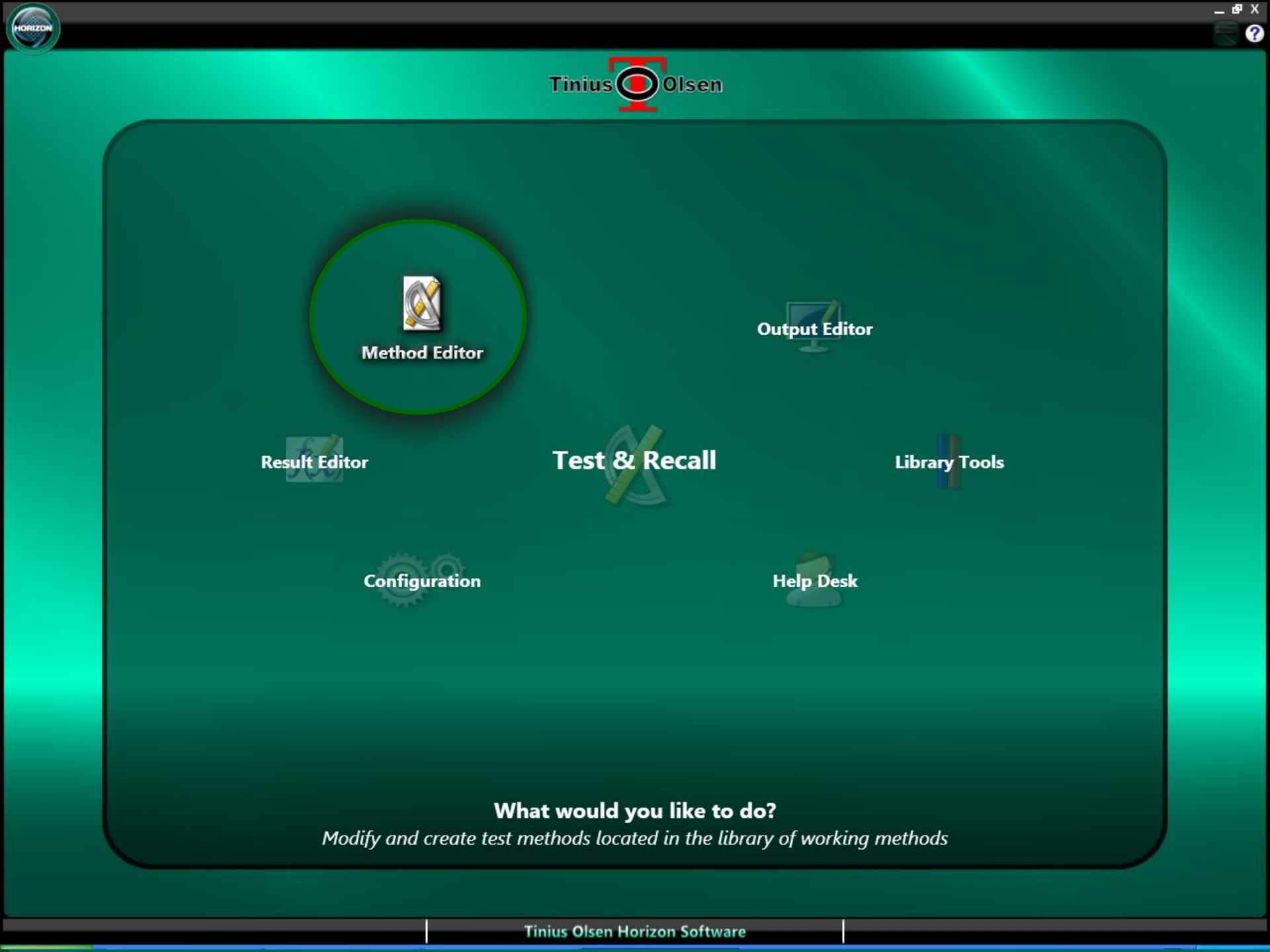
One Test Method can only have ONE Output

A Output contains information regarding:

Live Data | Limits | Graphing | Reporting | Data Exporting

One Output can be used by multiple Test Methods




Tinius Olsen
Method Editor
Output Editor
Result Editor
Test & Recall
Library Tools
Configuration
Help Desk
What would you like to do?
Modify and create test methods located in the library of working methods
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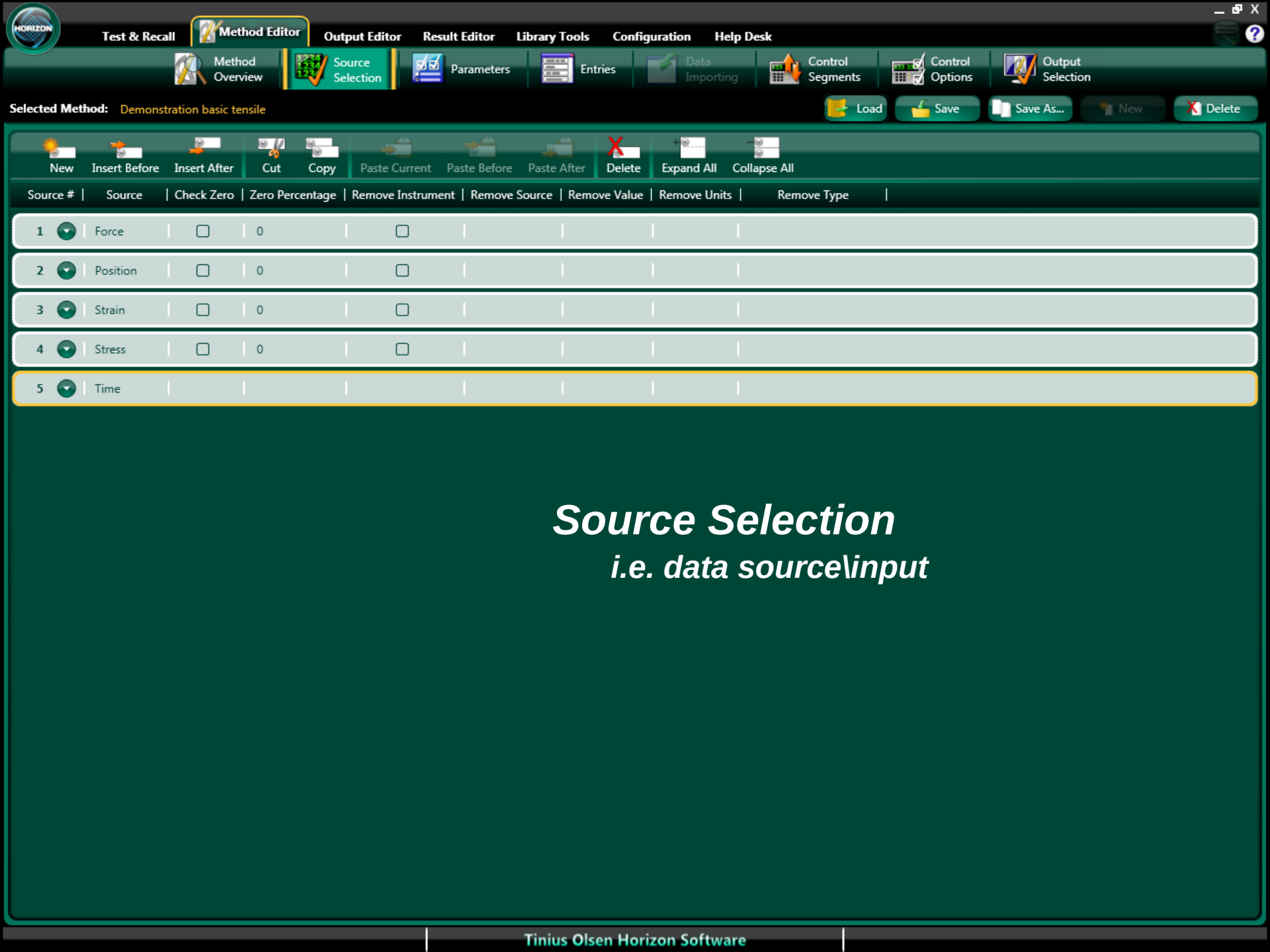
Method Editor

Contains details/settings that must be in place **before the start of the test**

- Overview
  - History
- Source Selection
- Parameters
- Entries
- Importing
- Control Segments
- Control Options
- Output Selection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Control Options
Output Selection
Selected Method: Demonstration basic tensile
Load
Save
Save As...
New
Delete
New
Insert Before
Insert After
Cut
Copy
Paste Current
Paste Before
Paste After
Delete
Expand All
Collapse All
Source # | Source | Check Zero | Zero Percentage | Remove Instrument | Remove Source | Remove Value | Remove Units | Remove Type
1 Force 0
2 Position 0
3 Strain 0
4 Stress 0
5 Time
Source Selection
i.e. data source\input
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Test & Recall | Method Editor | Output Editor | Result Editor | Library Tools | Configuration | Help Desk

Method Overview | Source Selection | Parameters | Entries | Data Importing | Control Segments | Control Options | Output Selection

Selected Method: Demonstration basic tensile

Load | Save | Save As... | New | Delete

Testing Options

SHAPE SELECTION

<None>

TEST DIRECTION

- Tensile
- Compression

Modulus

MODULUS OPTIONS

Modulus Result: Debug Modulus
Modulus Offset Result:
Modulus Cutoff Source: <None>
Cutoff Value: 0.5
Lock First Calculation

ZERO STRAIN DETERMINATION

Extrapolate from Modulus
Zero Source:
Load Trigger
Load Trigger Source:

LIVE POINTS

Source:
Start Point (%): 10
Stop Point (%): 20
Range Value: 50

POST POINTS

Entered Values
Source:
Start Point (%): 10
Percent of Yield

Parameters

- Specimen type
- Modulus
- Curve data
- Stiffness compensation

Curve Storage

- Actual Points
- Entered Points

Source: <Auto>
Distribution: Even
Number of Points: 1000

Stiffness Correction Factor

Stiffness Correction Factor: 0
Force Source: Force
Force Units: N
Position Source: Position
Position Units: mm

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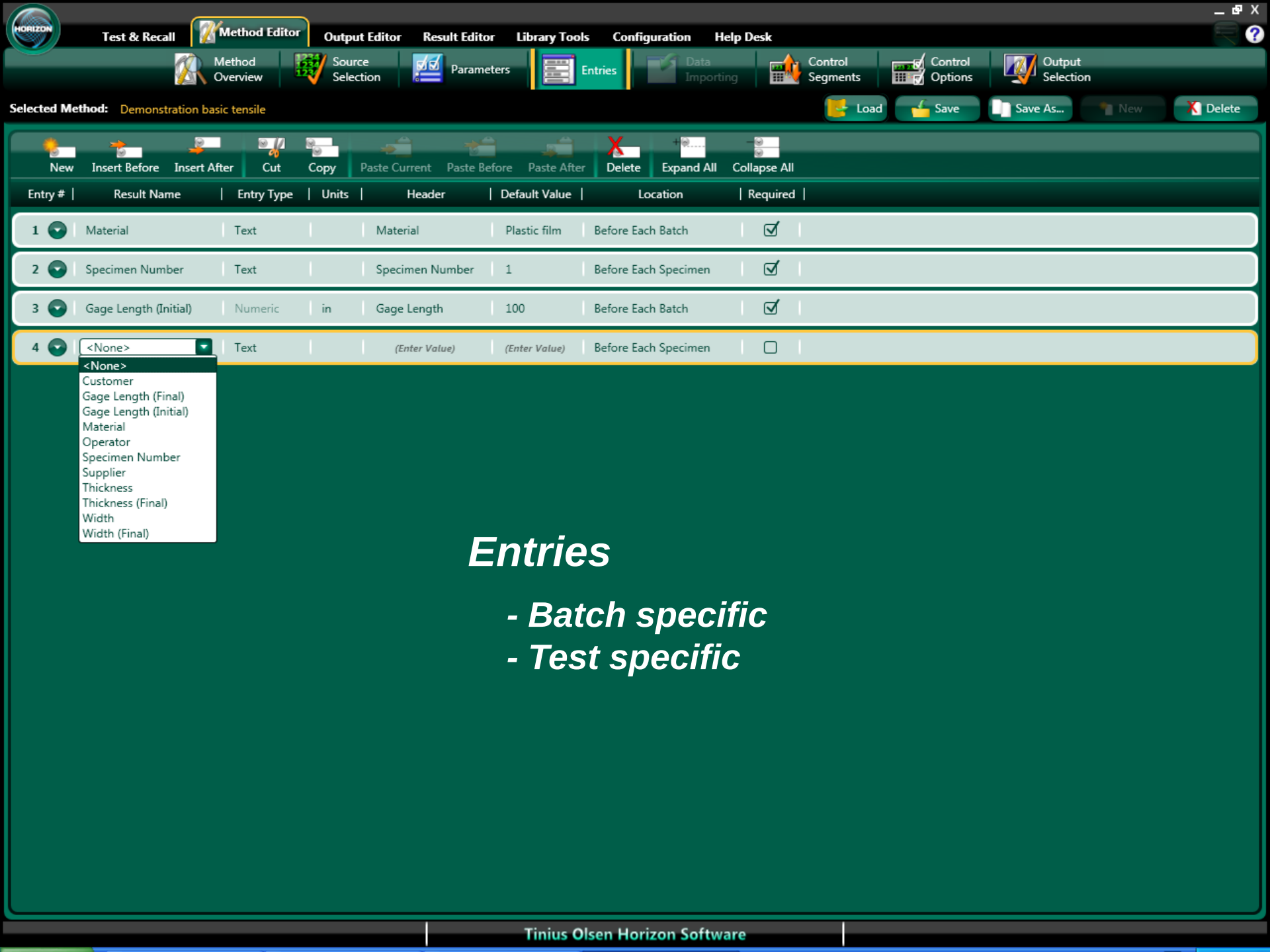
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Data Importing
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Control Options
Output Selection
Selected Method: Demonstration basic tensile
Load
Save
Save As...
New
Delete
New
Insert Before
Insert After
Cut
Copy
Paste Current
Paste Before
Paste After
Delete
Expand All
Collapse All
Entry # | Result Name | Entry Type | Units | Header | Default Value | Location | Required
1 Material Text Material Plastic film Before Each Batch
2 Specimen Number Text Specimen Number 1 Before Each Specimen
3 Gage Length (Initial) Numeric in Gage Length 100 Before Each Batch
4 <None> Text (Enter Value) (Enter Value) Before Each Specimen
<None>
Customer
Gage Length (Final)
Gage Length (Initial)
Material
Operator
Specimen Number
Supplier
Thickness
Thickness (Final)
Width
Width (Final)
Entries
- Batch specific
- Test specific
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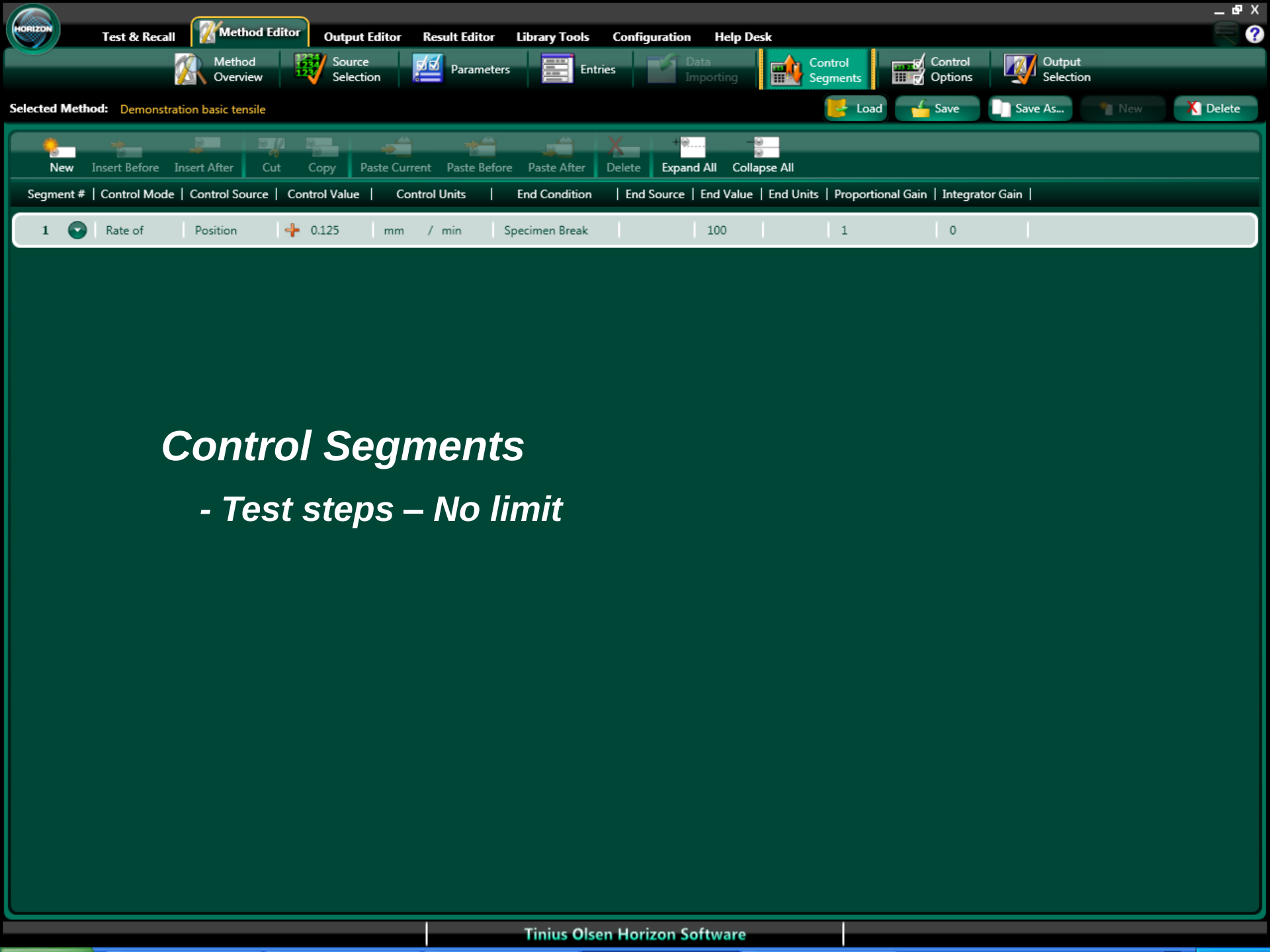
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Control Options
Output Selection
Selected Method: Demonstration basic tensile
Load
Save
Save As...
New
Delete
New
Insert Before
Insert After
Cut
Copy
Paste Current
Paste Before
Paste After
Delete
Expand All
Collapse All
Segment # | Control Mode | Control Source | Control Value | Control Units | End Condition | End Source | End Value | End Units | Proportional Gain | Integrator Gain
1 Rate of Position 0.125 mm / min Specimen Break 100 1 0
Control Segments
- Test steps – No limit
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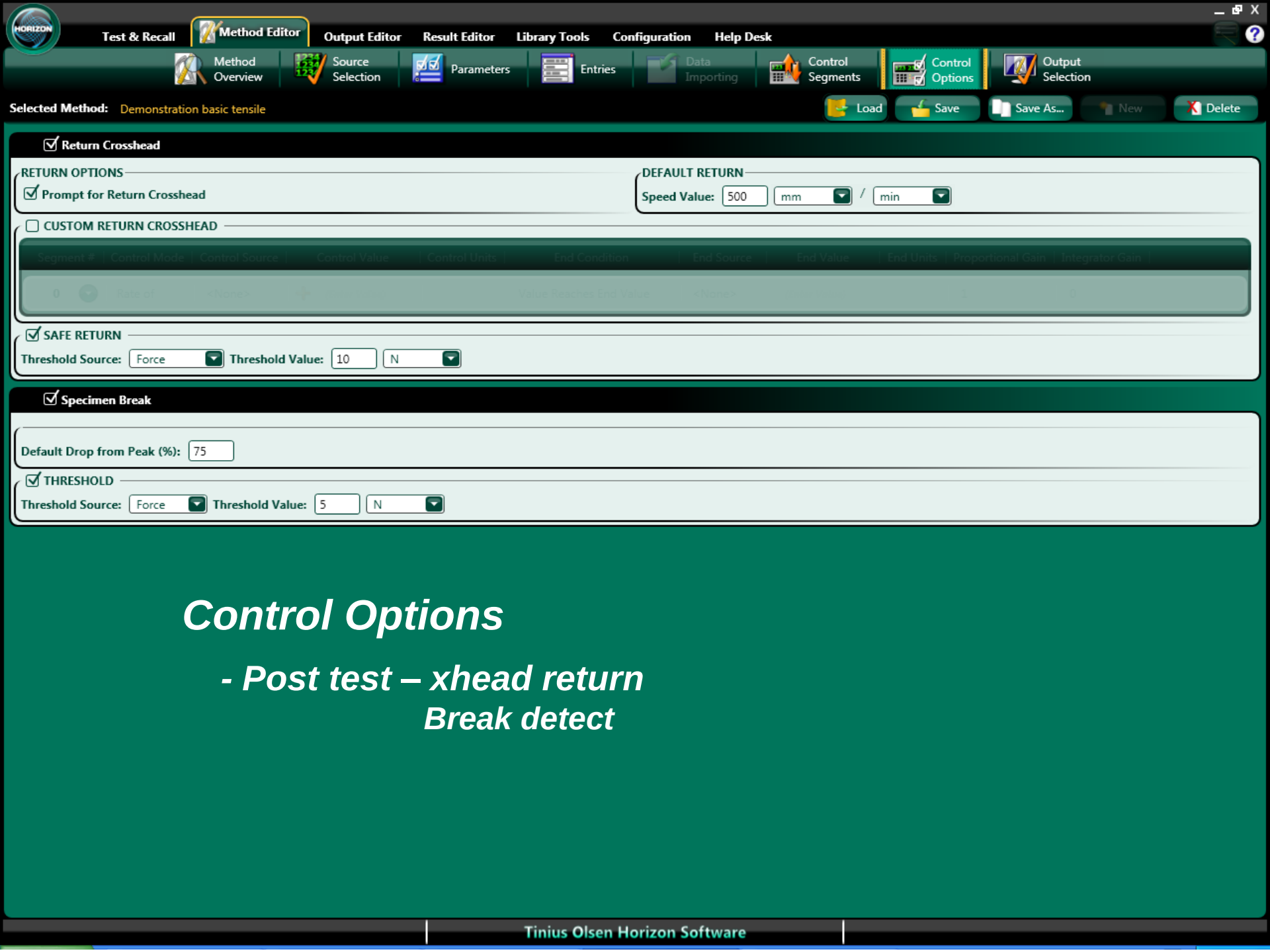
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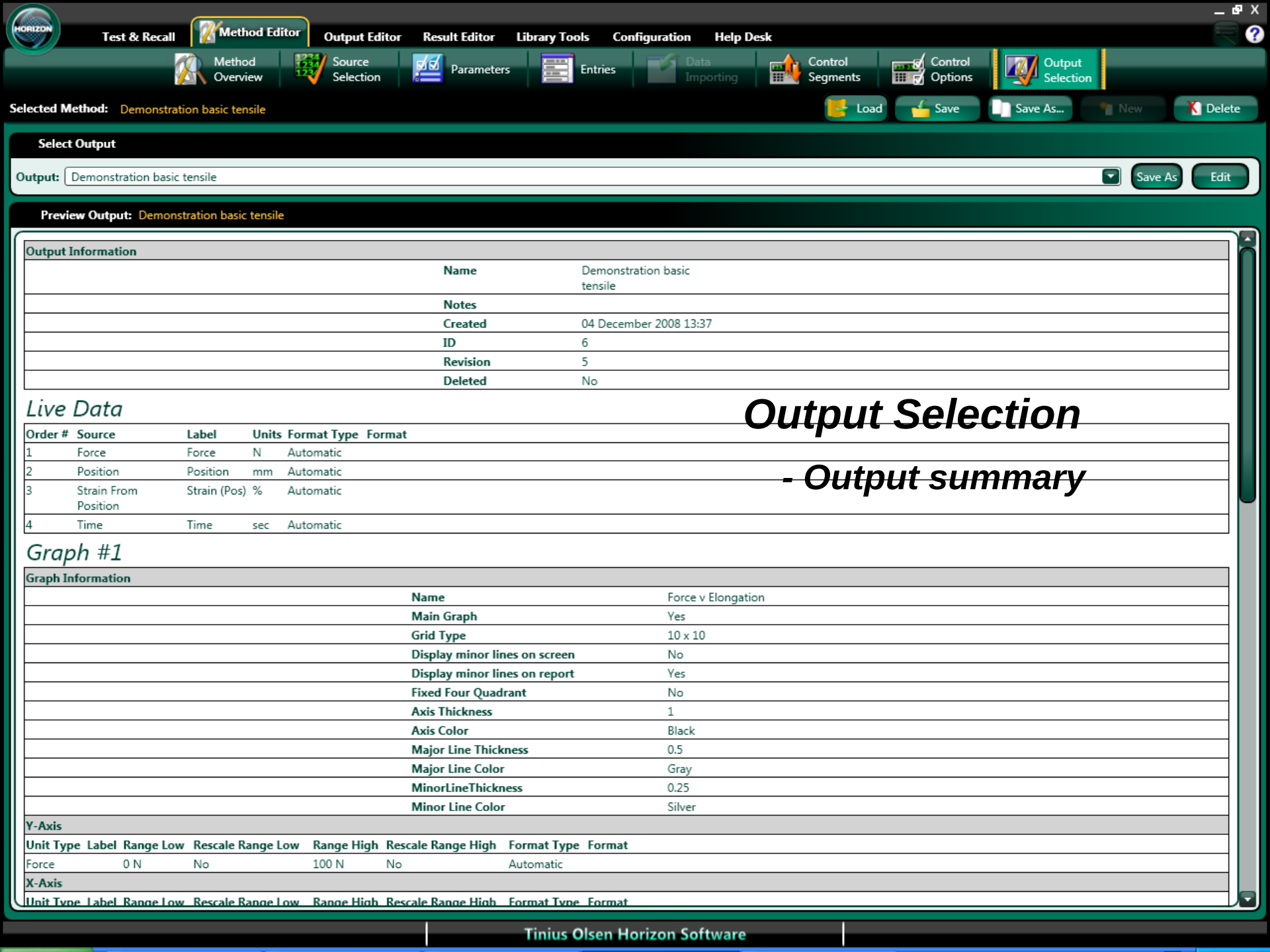
Method Overview
Source Selection
Parameters
Entries
Data Importing
Control Segments
Control Options
Output Selection
Selected Method: Demonstration basic tensile
Load
Save
Save As...
New
Delete
Return Crosshead
RETURN OPTIONS
Prompt for Return Crosshead
DEFAULT RETURN
Speed Value: 500 mm / min
CUSTOM RETURN CROSSHEAD
Segment # | Control Mode | Control Source | Control Value | Control Units | End Condition | End Source | End Value | End Units | Proportional Gain | Integrator Gain
SAFE RETURN
Threshold Source: Force Threshold Value: 10 N
Specimen Break
Default Drop from Peak (%): 75
THRESHOLD
Threshold Source: Force Threshold Value: 5 N
Control Options
- Post test – xhead return
Break detect
Tinius Olsen Horizon Software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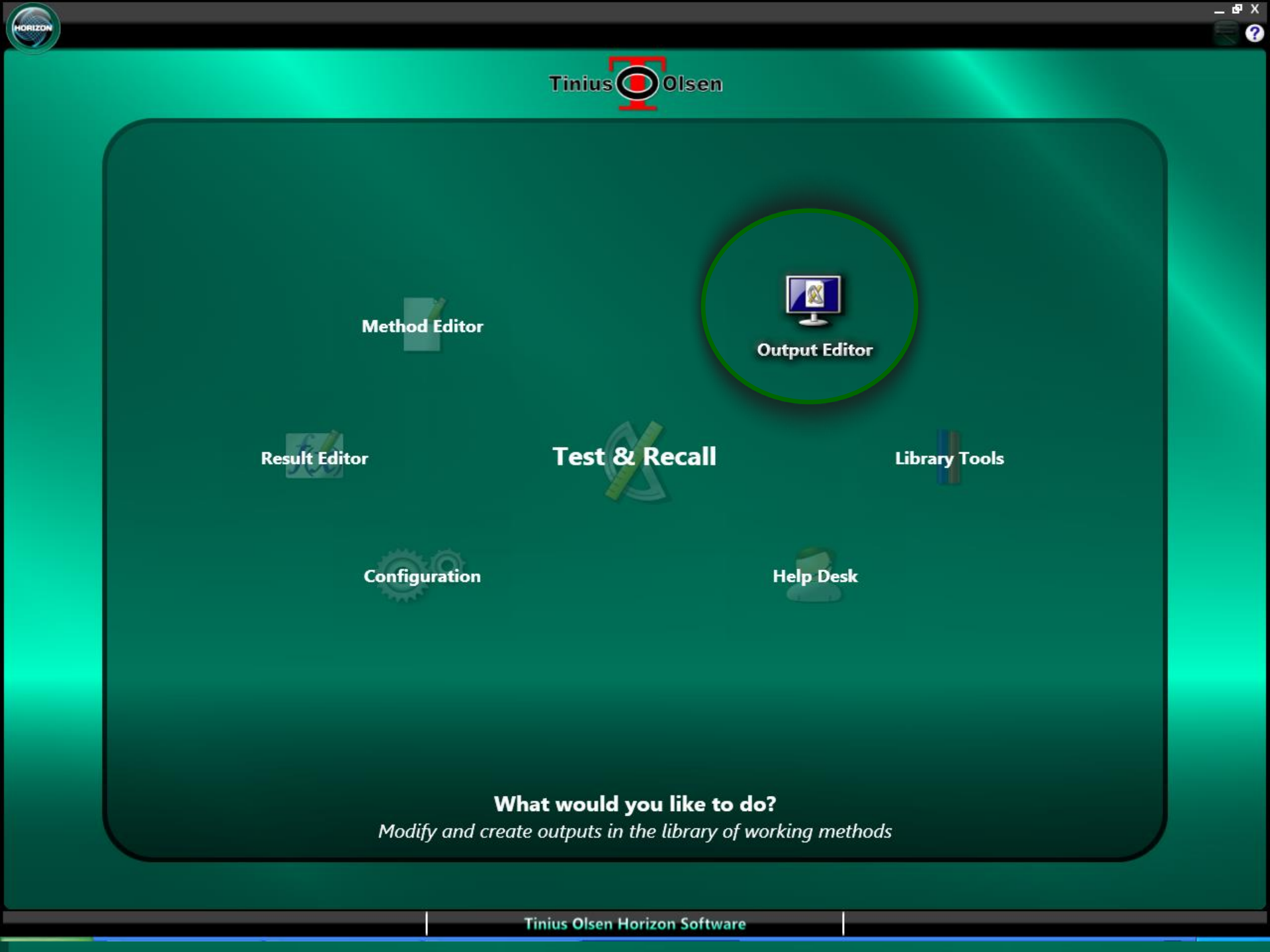
Entries
Data Importing
Control Segments
Control Options
Output Selection
Selected Method: Demonstration basic tensile
Load
Save
Save As...
New
Delete
Select Output
Output: Demonstration basic tensile
Save As
Edit
Preview Output: Demonstration basic tensile
Output Information
Name Demonstration basic tensile
Notes
Created 04 December 2008 13:37
ID 6
Revision 5
Deleted No
Live Data
Order # Source Label Units Format Type Format
1 Force Force N Automatic
2 Position Position mm Automatic
3 Strain From Position Strain (Pos) % Automatic
4 Time Time sec Automatic
Graph #1
Graph Information
Name Force v Elongation
Main Graph Yes
Grid Type 10 x 10
Display minor lines on screen No
Display minor lines on report Yes
Fixed Four Quadrant No
Axis Thickness 1
Axis Color Black
Major Line Thickness 0.5
Major Line Color Gray
MinorLineThickness 0.25
Minor Line Color Silver
Y-Axis
Unit Type Label Range Low Rescale Range Low Range High Rescale Range High Format Type Format
Force 0 N No 100 N No Automatic
X-Axis
Unit Type Label Range Low Rescale Range Low Range High Rescale Range High Format Type Format
Output Selection
- Output summary
Tinius Olsen Horizon Software


Tinius Olsen
Method Editor
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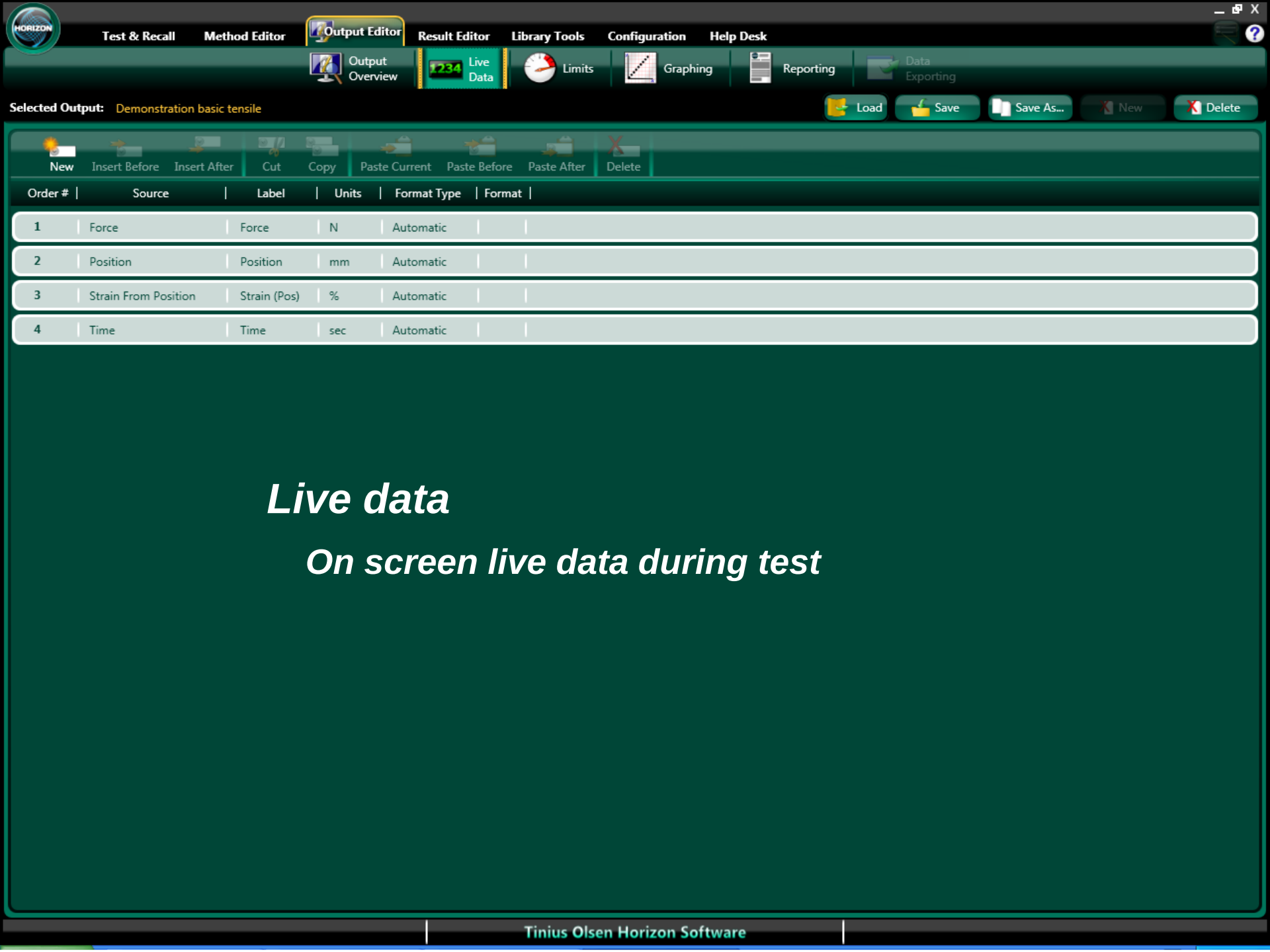
Help Desk
What would you like to do?
Modify and create outputs in the library of working methods
Tinius Olsen Horizon Software

Output Editor

Contains details/settings that must be in place **after the start of the test**

- Overview
  - History
- Live Data (UTM Only)
- Limits
- Reporting
- Graphing (UTM Only)
- Exporting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Output Overview
Live Data
Limits
Graphing
Reporting
Data Exporting
Selected Output: Demonstration basic tensile
Load
Save
Save As...
New
Delete
New
Insert Before
Insert After
Cut
Copy
Paste Current
Paste Before
Paste After
Delete
Order # | Source | Label | Units | Format Type | Format
1 | Force | Force | N | Automatic
2 | Position | Position | mm | Automatic
3 | Strain From Position | Strain (Pos) | % | Automatic
4 | Time | Time | sec | Automatic
Live data
On screen live data during test
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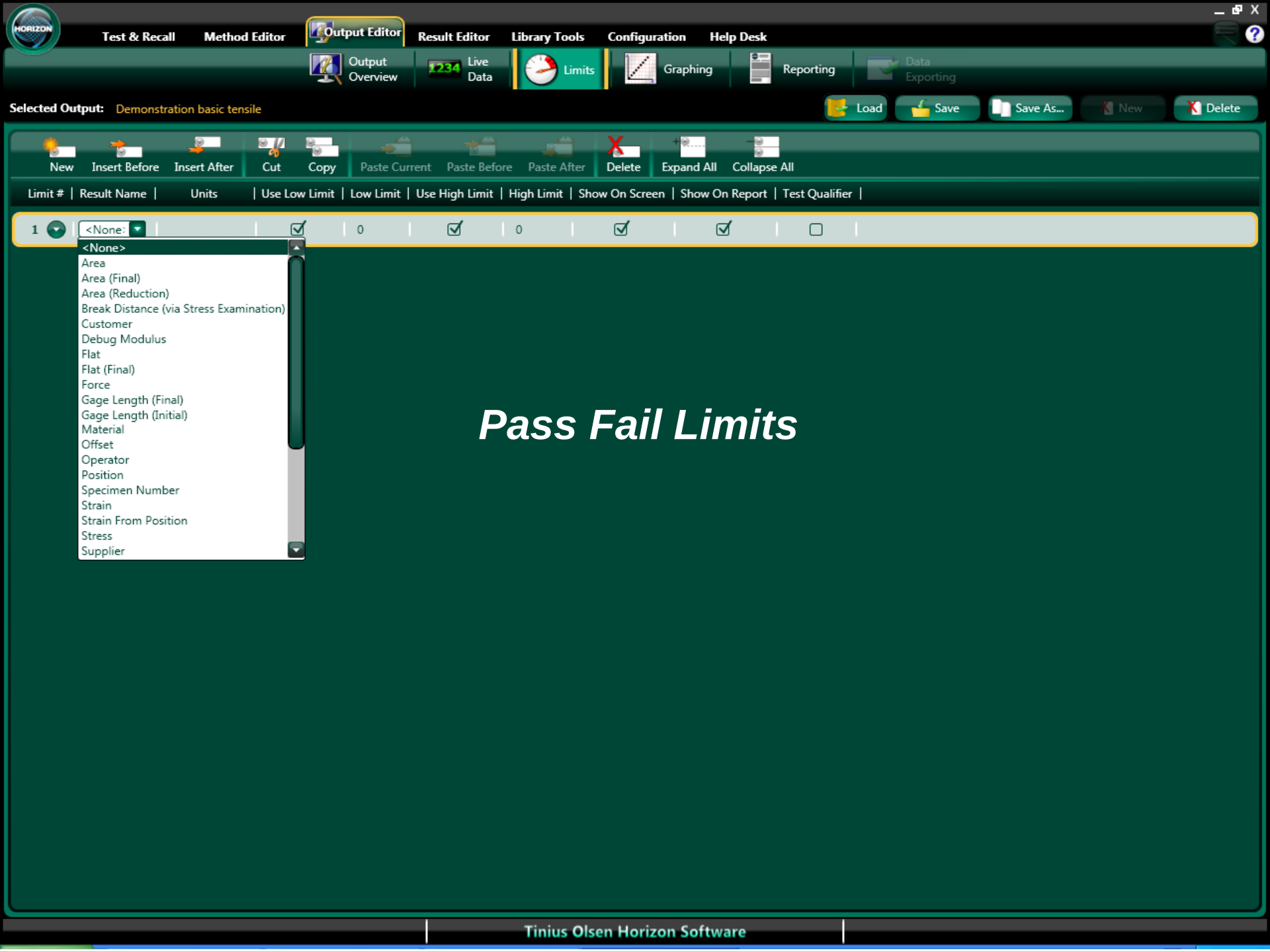
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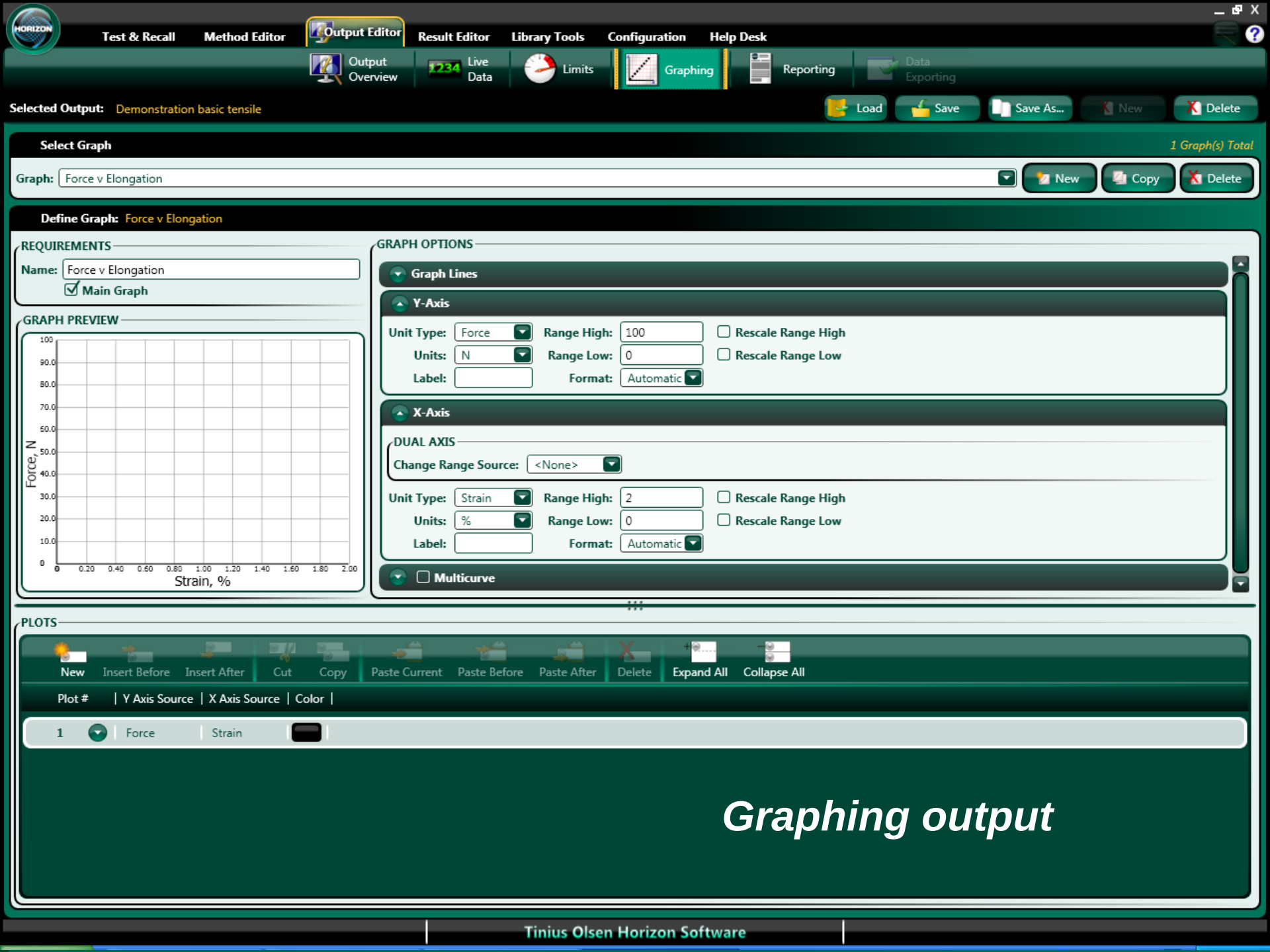
Load
Save
Save As...
New
Delete
New
Insert Before
Insert After
Cut
Copy
Paste Current
Paste Before
Paste After
Delete
Expand All
Collapse All
Limit # | Result Name | Units | Use Low Limit | Low Limit | Use High Limit | High Limit | Show On Screen | Show On Report | Test Qualifier |
1
<None>
0
0
<None>
Area
Area (Final)
Area (Reduction)
Break Distance (via Stress Examination)
Customer
Debug Modulus
Flat
Flat (Final)
Force
Gage Length (Final)
Gage Length (Initial)
Material
Offset
Operator
Position
Specimen Number
Strain
Strain From Position
Stress
Supplier
Pass Fail Limits
Tinius Olsen Horizon Software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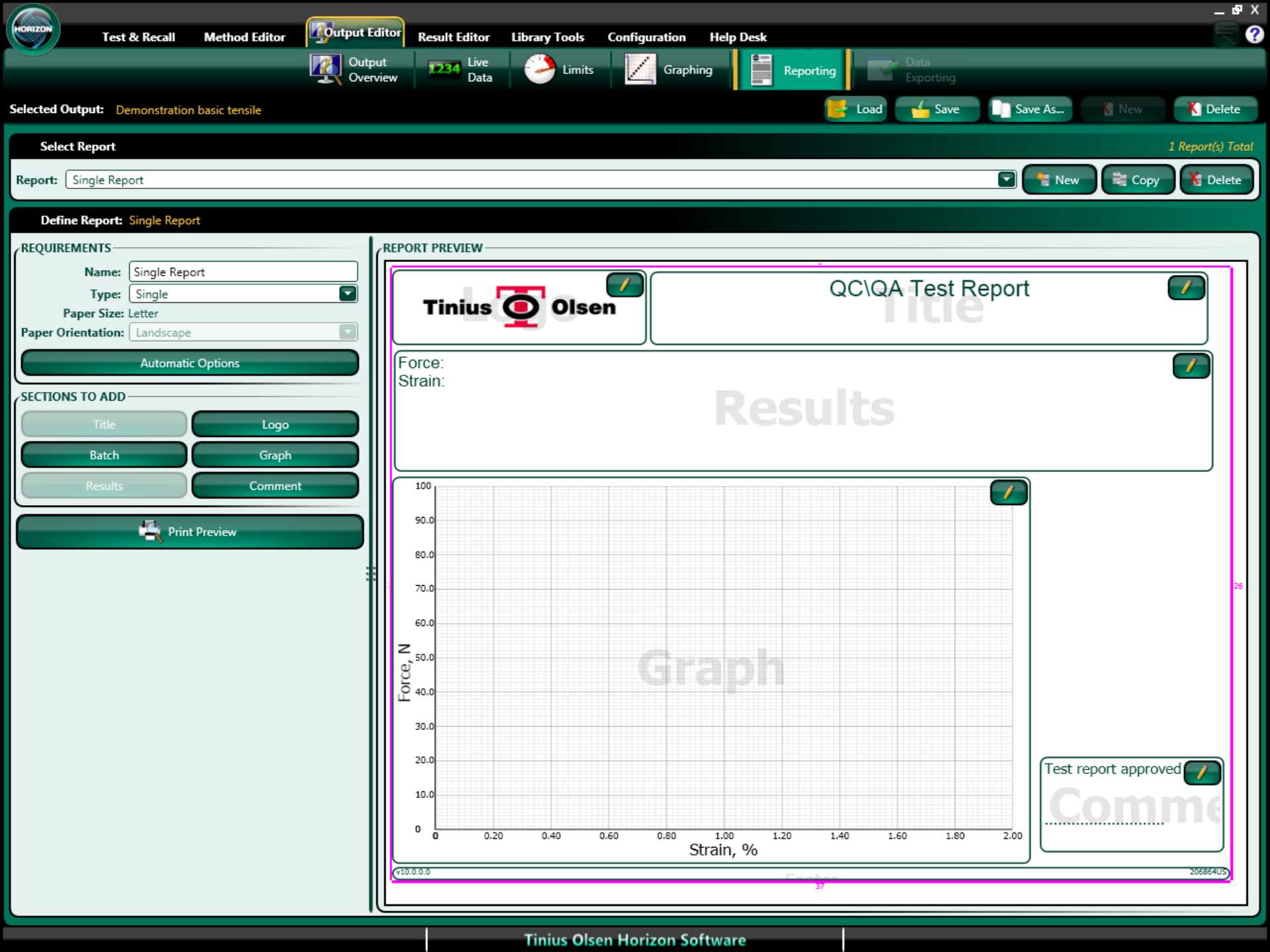
Selected Output: Demonstration basic tensile
Load
Save
Save As...
New
Delete
Select Graph
1 Graph(s) Total
Graph: Force v Elongation
New
Copy
Delete
Define Graph: Force v Elongation
REQUIREMENTS
Name: Force v Elongation
Main Graph
GRAPH PREVIEW
Force, N
Strain, %
GRAPH OPTIONS
Graph Lines
Y-Axis
Unit Type: Force
Units: N
Label:
Range High: 100
Range Low: 0
Format: Automatic
Rescale Range High
Rescale Range Low
X-Axis
DUAL AXIS
Change Range Source: <None>
Unit Type: Strain
Units: %
Label:
Range High: 2
Range Low: 0
Format: Automatic
Rescale Range High
Rescale Range Low
Multicurve
PLOTS
New
Insert Before
Insert After
Cut
Copy
Paste Current
Paste Before
Paste After
Delete
Expand All
Collapse All
Plot # | Y Axis Source | X Axis Source | Color |
1 Force Strain
Graphing output
Tinius Olsen Horizon Software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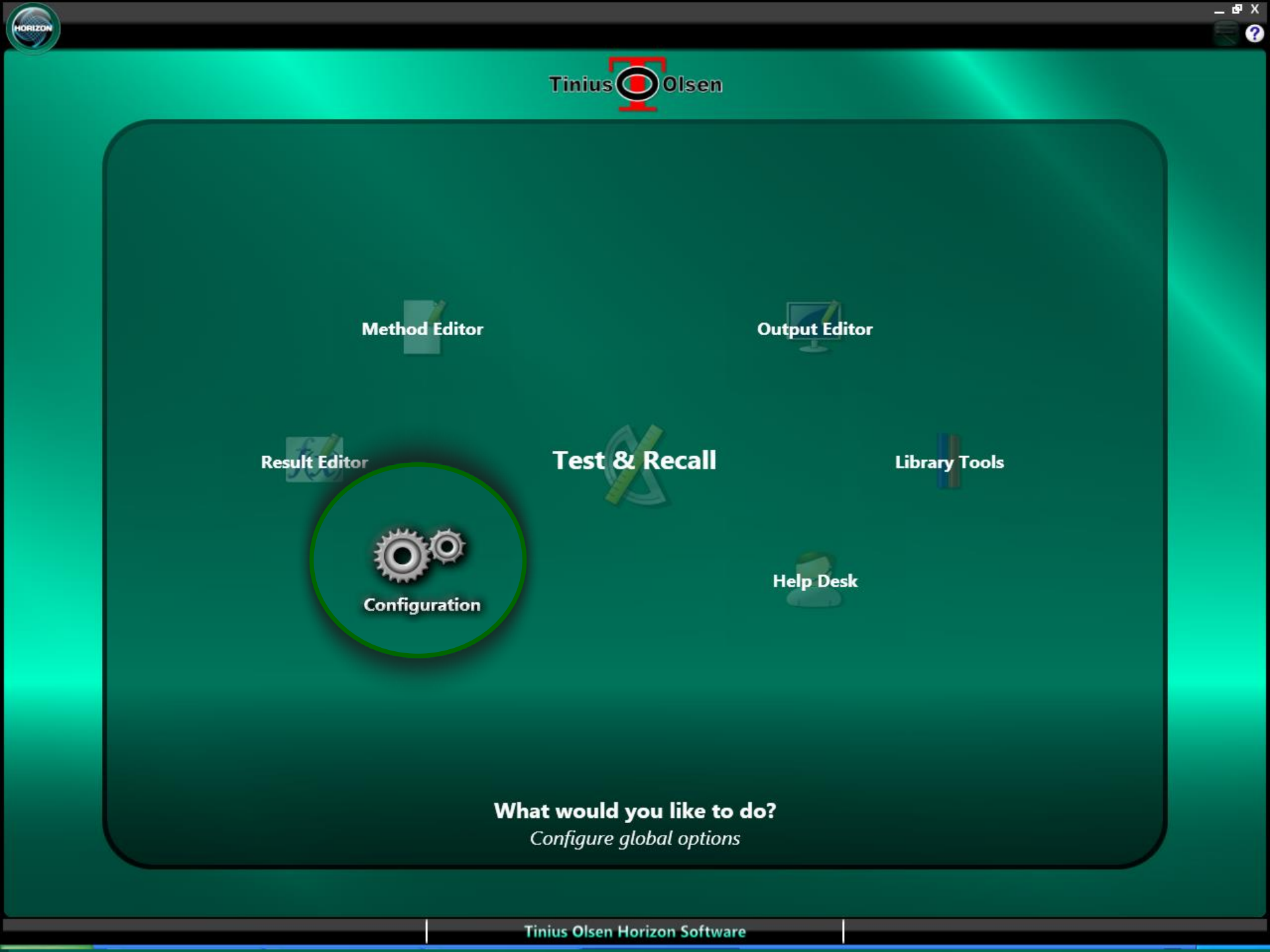
Selected Output: Demonstration basic tensile
Load
Save
Save As...
New
Delete
Select Report
1 Report(s) Total
Report: Single Report
New
Copy
Delete
Define Report: Single Report
REQUIREMENTS
Name: Single Report
Type: Single
Paper Size: Letter
Paper Orientation: Landscape
Automatic Options
SECTIONS TO ADD
Title
Logo
Batch
Graph
Results
Comment
Print Preview
REPORT PREVIEW
Tinius Olsen
QC\QA Test Report
Force:
Strain:
Results
Graph
Force, N
Strain, %
Test report approved
Comme
v10.0.0.0
206864US
Tinius Olsen Horizon Software


Tinius Olsen
Method Editor
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What would you like to do?
Configure global options
Tinius Olsen Horizon Software

Configuration Introduction Page

Mouse over the icons below for a description of each section. Click a button in the toolbar above or an icon below to navigate to that area.





Configuration

Preferences	• Application options stored per user
Security	• Select and manage security model
Database Setup	• Select and manage database connection
Machines Setup	• Create and manage machines
RS232 Setup	• Create and manage RS232 devices
Result Editor	• Create and adjust results for all methods and outputs
Translations	• Edit translation strings

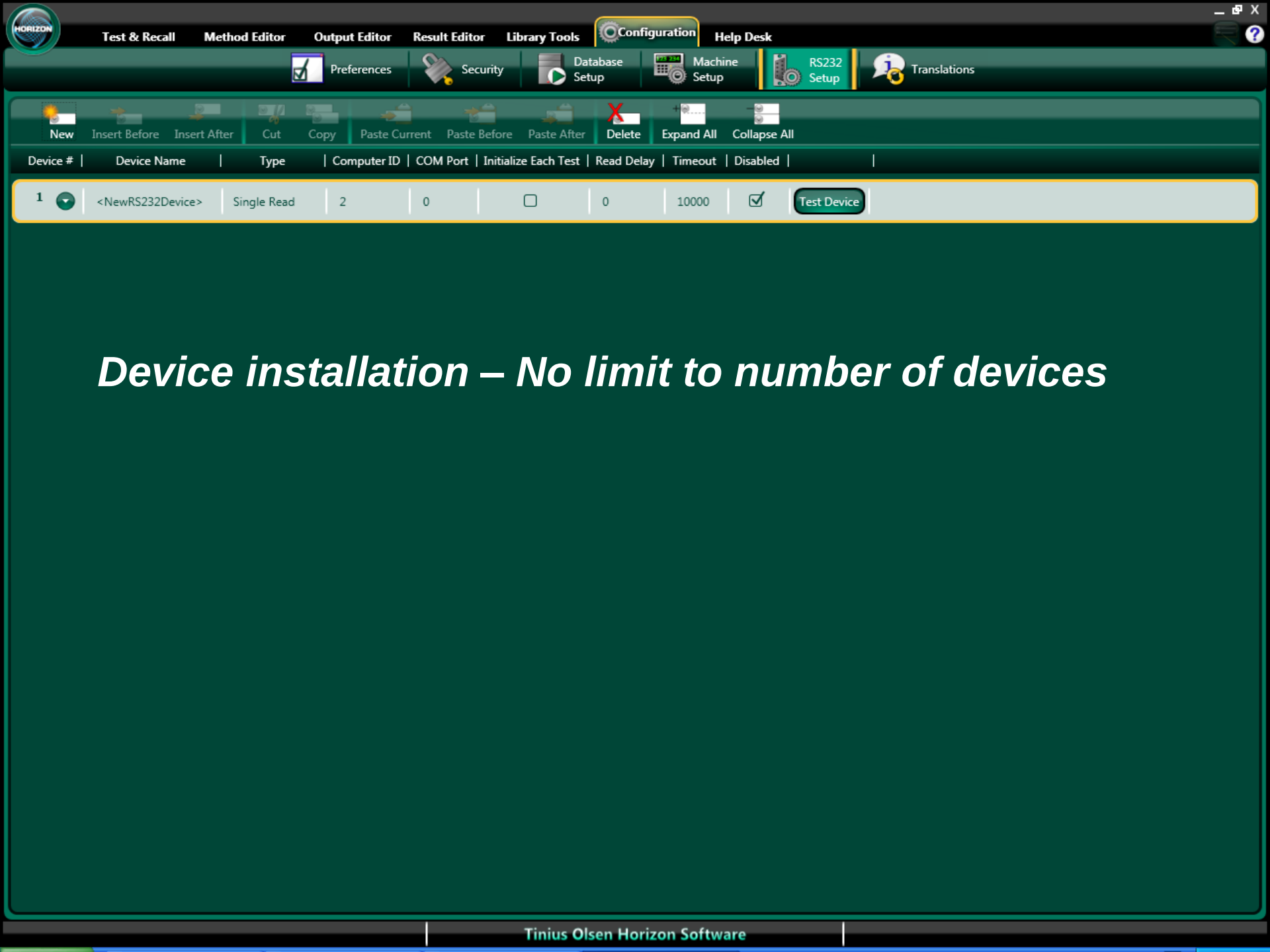
"Windows Security Model"

Security

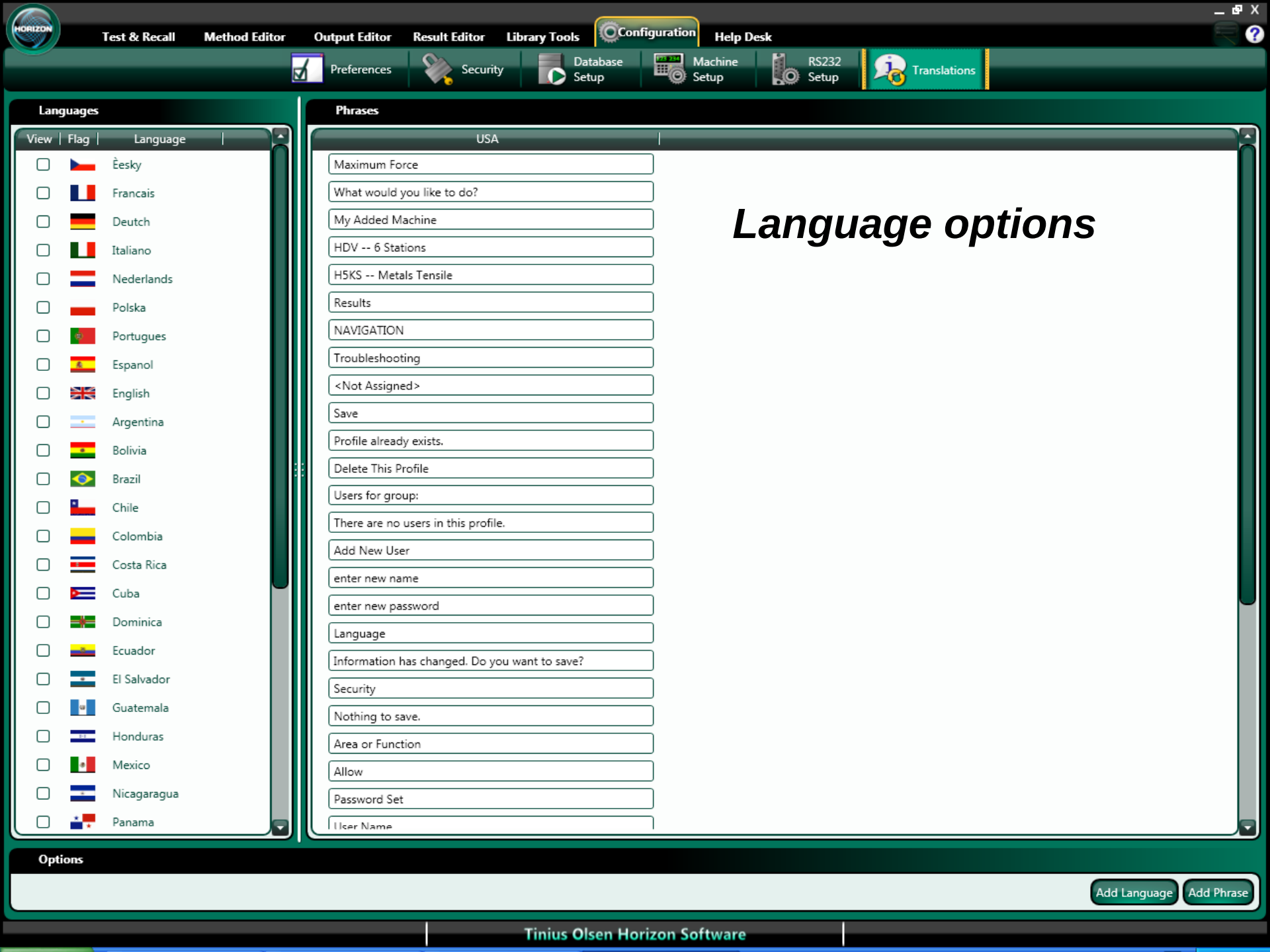
Unrestricted (default)	• One user • No restrictions
Restricted User	• One user • Can restrict areas using passwords
Multiple Users	• Many Users • Grouped Based on Permissions • Login to software with password

Machines Setup

Machine management	• Machines displayed for the current computer • Allows for easy disabling/enabling of machines where necessary
Machine specific information editing	• Channels • Calibration (602, 603, MI) • Speeds and Gains



Device installation – No limit to number of devices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Machine Setup
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Languages
View
Flag
Language
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Polska
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Espanol
English
Argentina
Bolivia
Brazil
Chile
Colombia
Costa Rica
Cuba
Dominica
Ecuador
El Salvador
Guatemala
Honduras
Mexico
Nicagaragua
Panama
Phrases
USA
Maximum Force
What would you like to do?
My Added Machine
HDV -- 6 Stations
H5KS -- Metals Tensile
Results
NAVIGATION
Troubleshooting
<Not Assigned>
Save
Profile already exists.
Delete This Profile
Users for group:
There are no users in this profile.
Add New User
enter new name
enter new password
Language
Information has changed. Do you want to save?
Security
Nothing to save.
Area or Function
Allow
Password Set
User Name
Language options
Options
Add Language
Add Phrase
Tinius Olsen Horizon Software

Test & Recall | Method Editor | Output Editor | Result Editor | Library Tools | Configuration | Help Desk

Selected Result: Area

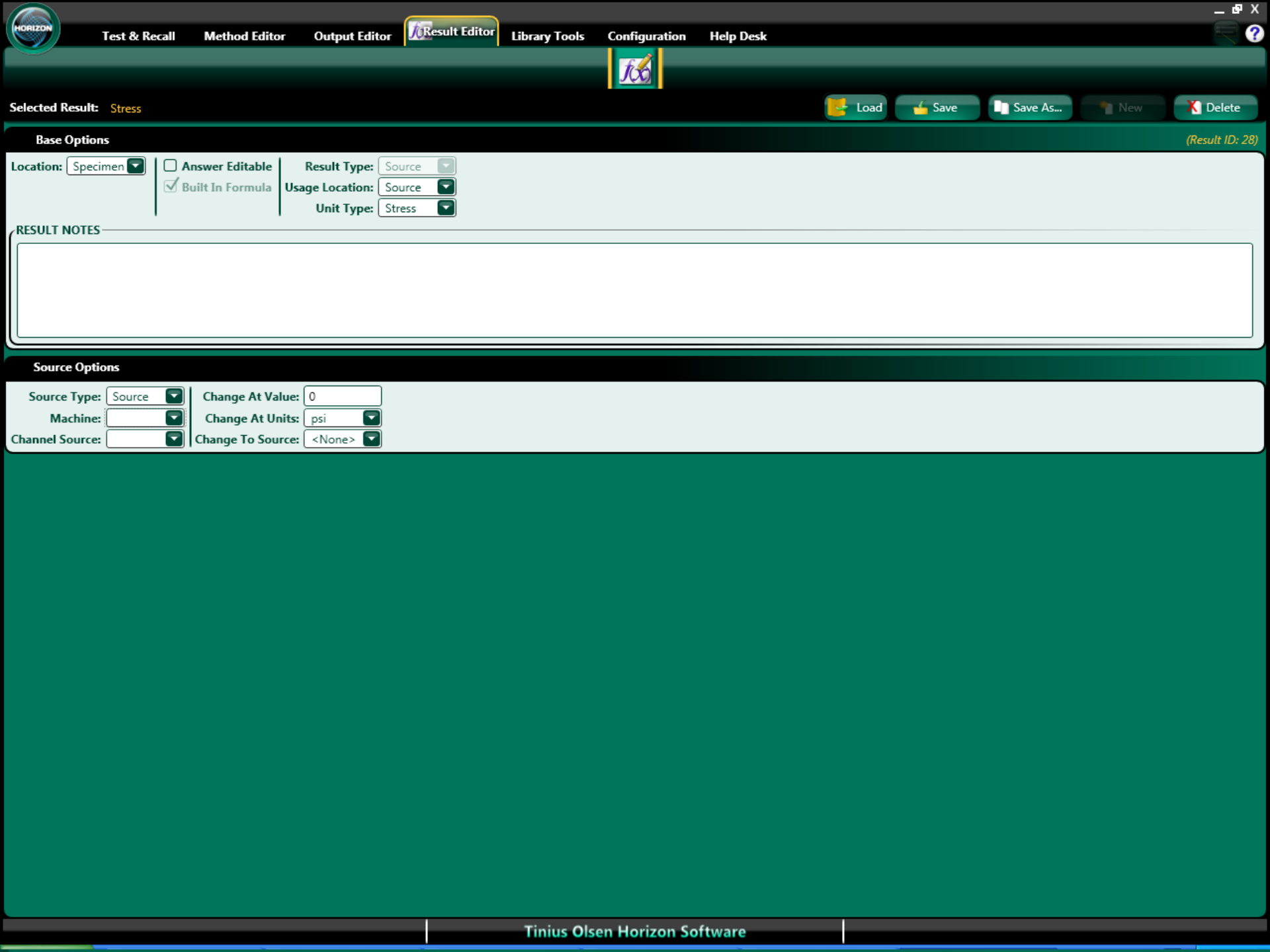
Load | Save | Save As... | New | Delete

Result Editor Introduction Page

Mouse over the icons below for a description of each section. Click a button in the toolbar above or an icon below to navigate to that area.

Result Editor

- Central Area to view/edit result definitions
- Save As from existing result base
- Formula Editor
- Sources defined here as well
- Eventual Result Wizard


Test & Recall
Method Editor
Output Editor
Result Editor
Library Tools
Configuration
Help Desk
Selected Result: Stress
Load
Save
Save As...
New
Delete
Base Options
(Result ID: 28)
Location: Specimen
Answer Editable
Built In Formula
Result Type: Source
Usage Location: Source
Unit Type: Stress
RESULT NOTES
Source Options
Source Type: Source
Machine:
Channel Source:
Change At Value: 0
Change At Units: psi
Change To Source: <None>
Tinius Olsen Horizon Software

Easy test just **4 mouse clicks** to a test report

Test & Recall | Method Editor | Output Editor | Result Editor | Library Tools | Configuration | Help Desk

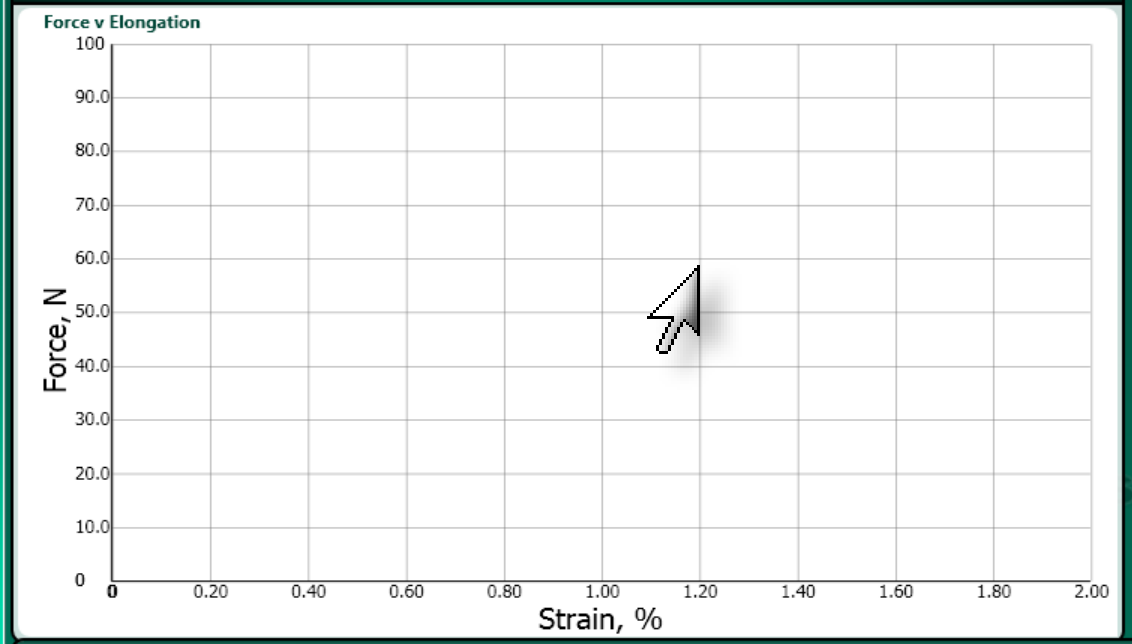
H5K-T | Recall Tab

Machine Status: (Demonstration Mode)

Panels | Default Layout

Open for Testing Tab Options

Graph



Live Data

Force	474 N
Position	67.1 mm
Strain (Pos)	0.0 %
Time	0.0 sec

Machine Controls

Entries / Results - Single Test Mode

Show All Entries | New | Delete | Specimen Comments | Reset | Clear Completed | Devices

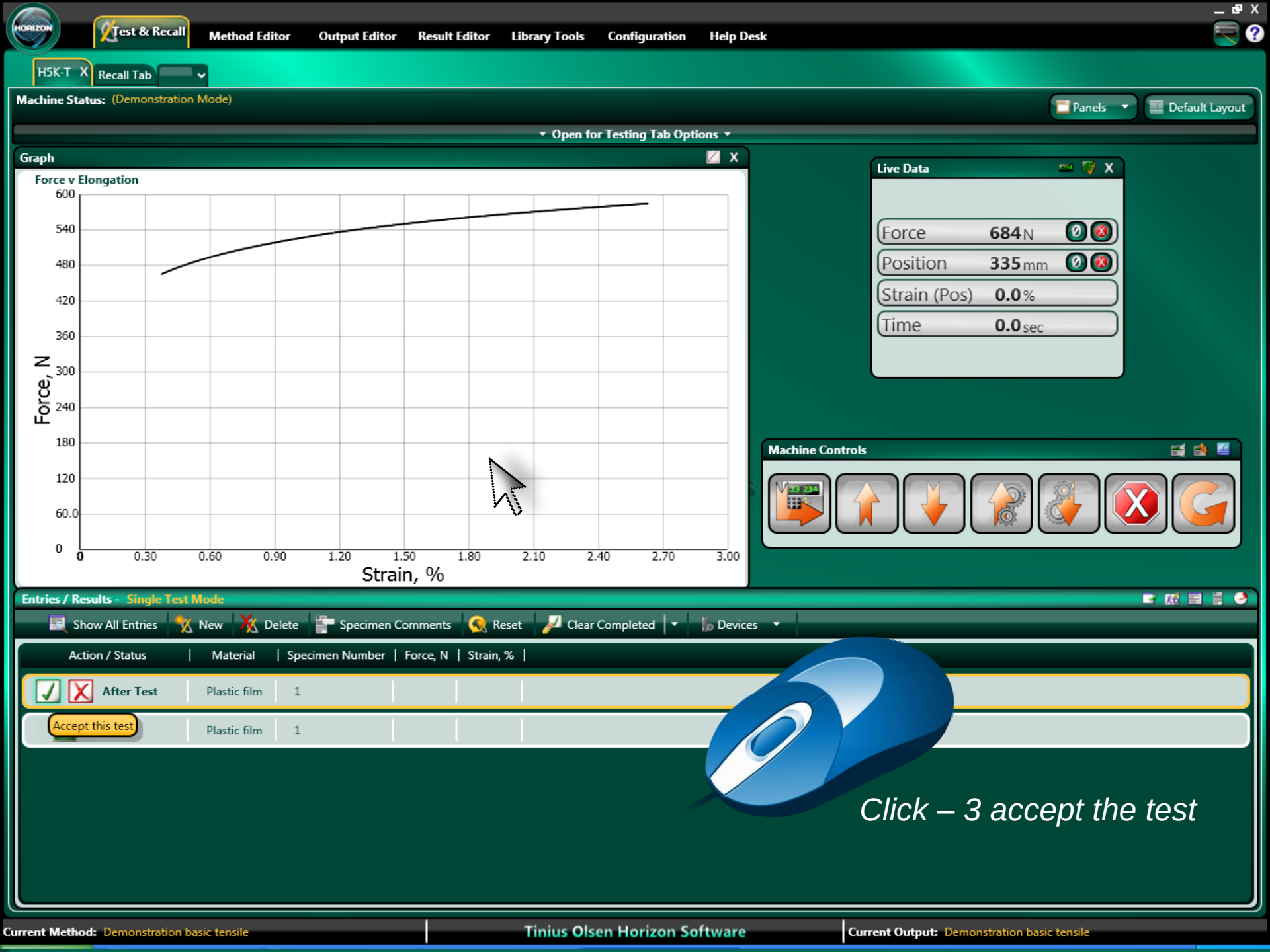
Action / Status	Material	Specimen Number	Force, N	Strain, %
New	Plastic film			

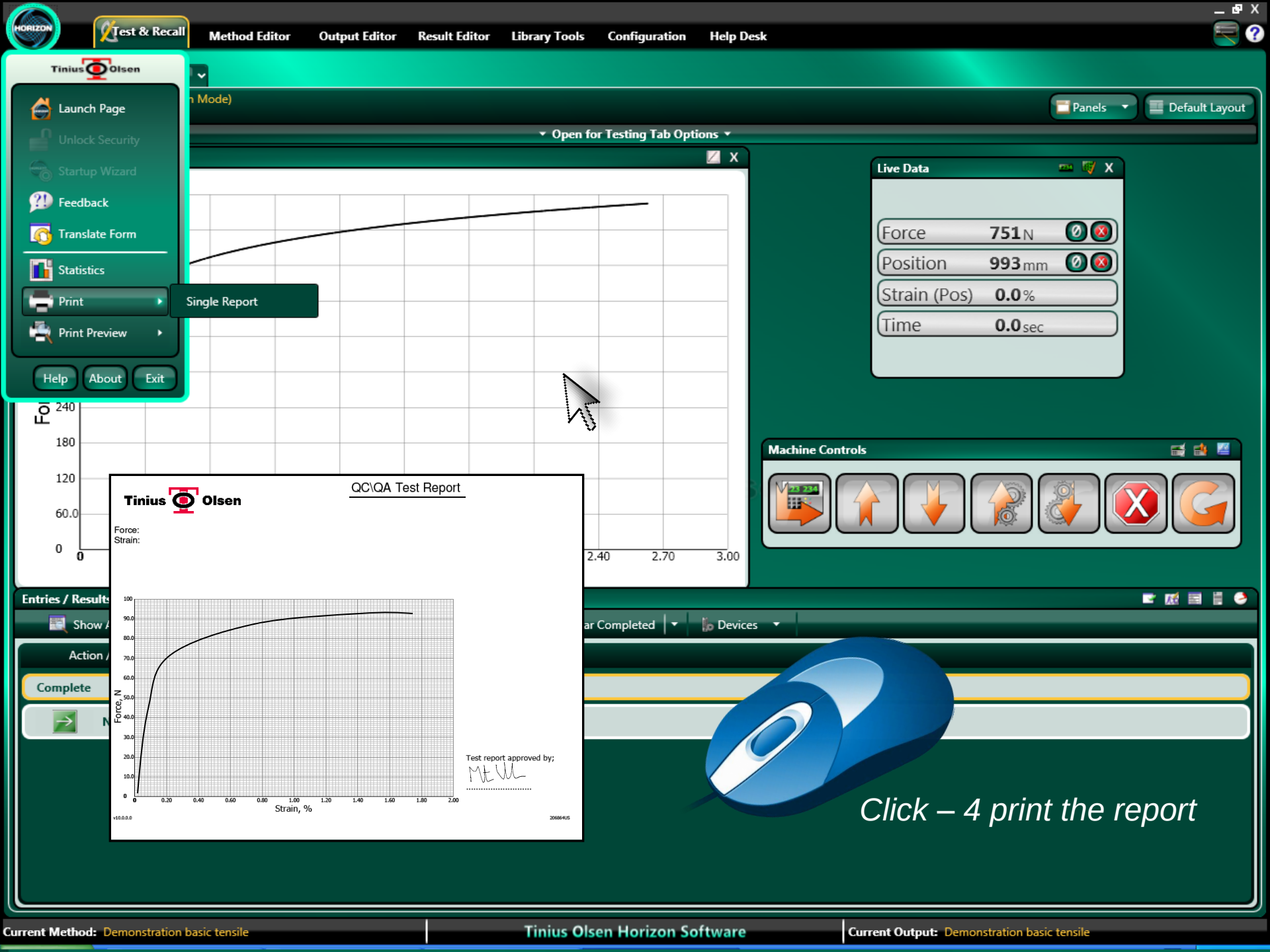
Start this test

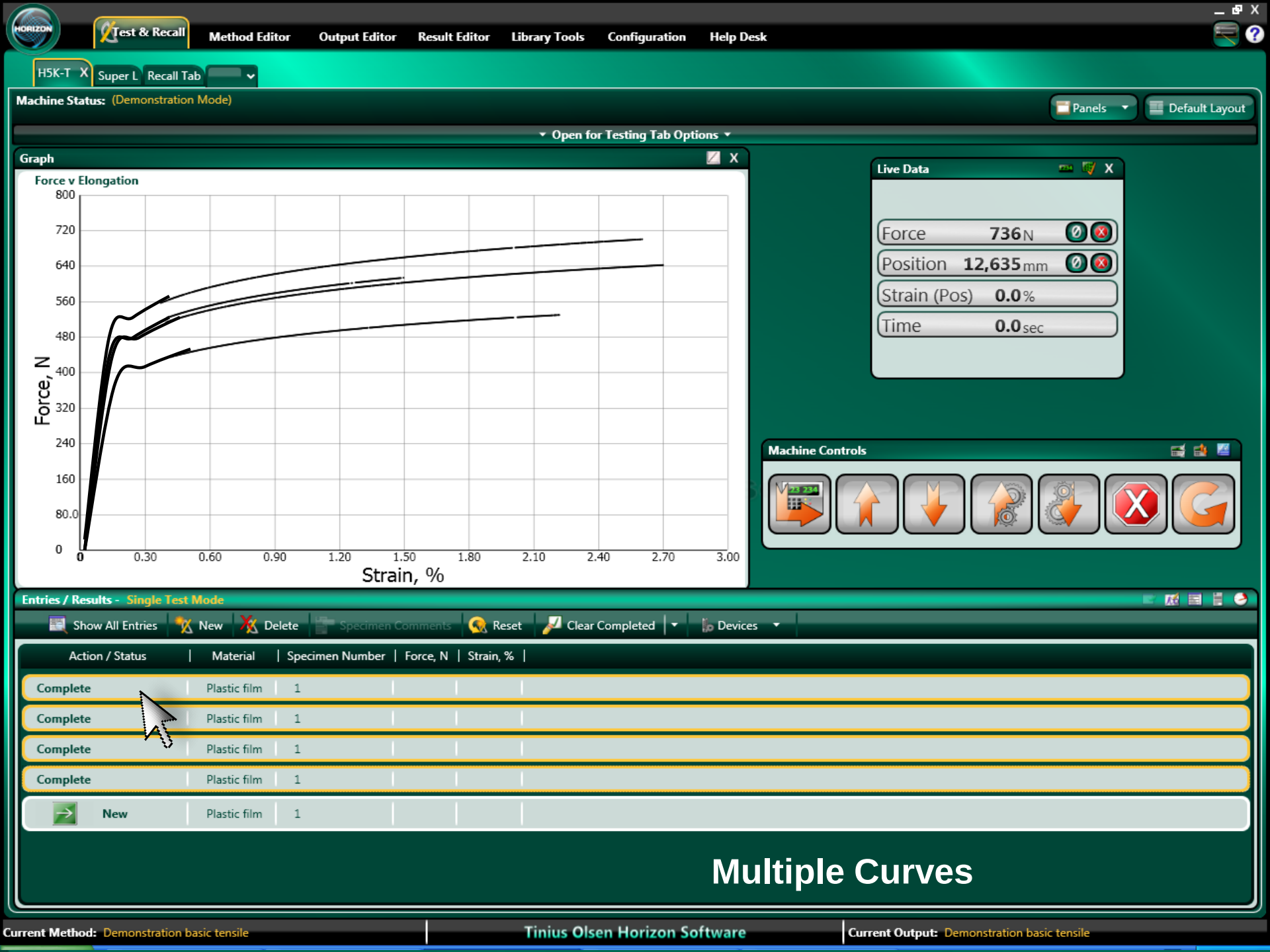
Click - 1

Current Method: Demonstration basic tensile | Tinius Olsen Horizon Software | **Current Output:** Demonstration basic tensile

Click – 2 return the cross head

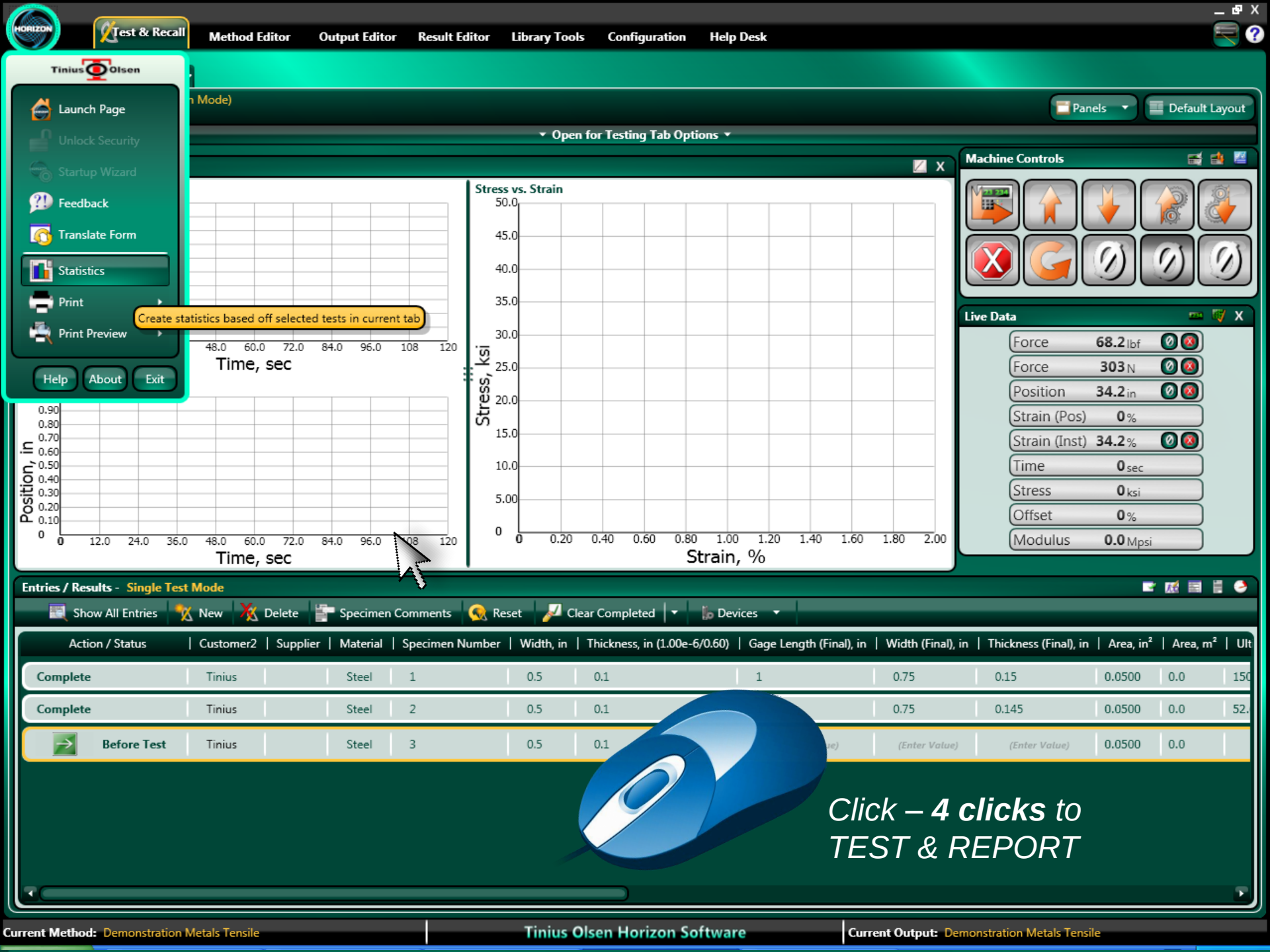

Test & Recall
Method Editor
Output Editor
Result Editor
Library Tools
Configuration
Help Desk
H5K-T
Recall Tab
Machine Status: (Demonstration Mode)
Panels
Default Layout
Open for Testing Tab Options
Graph
Force v Elongation
Force, N
Strain, %
600
540
480
420
360
300
240
180
120
60.0
0
0.30
0.60
0.90
1.20
1.50
1.80
2.10
2.40
2.70
3.00
Live Data
Force 684 N
Position 335 mm
Strain (Pos) 0.0 %
Time 0.0 sec
Machine Controls
Entries / Results - Single Test Mode
Show All Entries
New
Delete
Specimen Comments
Reset
Clear Completed
Devices
Action / Status
Material
Specimen Number
Force, N
Strain, %
After Test
Plastic film
1
Accept this test
Plastic film
1
Click – 3 accept the test
Current Method: Demonstration basic tensile
Tinius Olsen Horizon Software
Current Output: Demonstration basic tensile


Test & Recall
Method Editor
Output Editor
Result Editor
Library Tools
Configuration
Help Desk
Tinius Olsen
Launch Page
Unlock Security
Startup Wizard
Feedback
Translate Form
Statistics
Print
Single Report
Print Preview
Help
About
Exit
Panels
Default Layout
Open for Testing Tab Options
Live Data
Force 751 N
Position 993 mm
Strain (Pos) 0.0 %
Time 0.0 sec
Machine Controls
QC\QA Test Report
Tinius Olsen
Force:
Strain:
Force, N
Strain, %
Test report approved by;
Entries / Results
Devices
Complete
Current Method: Demonstration basic tensile
Tinius Olsen Horizon Software
Current Output: Demonstration basic tensile
Click – 4 print the report


Test & Recall
Method Editor
Output Editor
Result Editor
Library Tools
Configuration
Help Desk
H5K-T
Super L
Recall Tab
Machine Status: (Demonstration Mode)
Panels
Default Layout
Open for Testing Tab Options
Graph
Force v Elongation
800
720
640
560
480
400
320
240
160
80.0
0
Force, N
0
0.30
0.60
0.90
1.20
1.50
1.80
2.10
2.40
2.70
3.00
Strain, %
Live Data
Force 736 N
Position 12,635 mm
Strain (Pos) 0.0 %
Time 0.0 sec
Machine Controls
Entries / Results - Single Test Mode
Show All Entries
New
Delete
Specimen Comments
Reset
Clear Completed
Devices
Action / Status
Material
Specimen Number
Force, N
Strain, %
Complete
Plastic film
1
Complete
Plastic film
1
Complete
Plastic film
1
Complete
Plastic film
1
New
Plastic film
1
Multiple Curves
Current Method: Demonstration basic tensile
Tinius Olsen Horizon Software
Current Output: Demonstration basic tensile

Need a little more sophistication?

its still just 4 clicks


Test & Recall
Method Editor
Output Editor
Result Editor
Library Tools
Configuration
Help Desk
Tinius Olsen
Launch Page
Unlock Security
Startup Wizard
Feedback
Translate Form
Statistics
Print
Print Preview
Create statistics based off selected tests in current tab
Help
About
Exit
Panels
Default Layout
Open for Testing Tab Options
Machine Controls
Live Data
Force 68.2 lbf
Force 303 N
Position 34.2 in
Strain (Pos) 0 %
Strain (Inst) 34.2 %
Time 0 sec
Stress 0 ksi
Offset 0 %
Modulus 0.0 Mpsi
Stress vs. Strain
Stress, ksi
Strain, %
Position, in
Time, sec
Entries / Results - Single Test Mode
Show All Entries
New
Delete
Specimen Comments
Reset
Clear Completed
Devices
Action / Status
Customer2
Supplier
Material
Specimen Number
Width, in
Thickness, in (1.00e-6/0.60)
Gage Length (Final), in
Width (Final), in
Thickness (Final), in
Area, in²
Area, m²
Complete
Tinius
Steel
Before Test
(Enter Value)
Click – 4 clicks to
TEST & REPORT
Current Method: Demonstration Metals Tensile
Tinius Olsen Horizon Software
Current Output: Demonstration Metals Tensile

Entries/Results Datagrid on "Test & Recall" Screen

Entry type results come first in the datagrid.
Duplicates are only displayed once.

They are defined in the following areas:

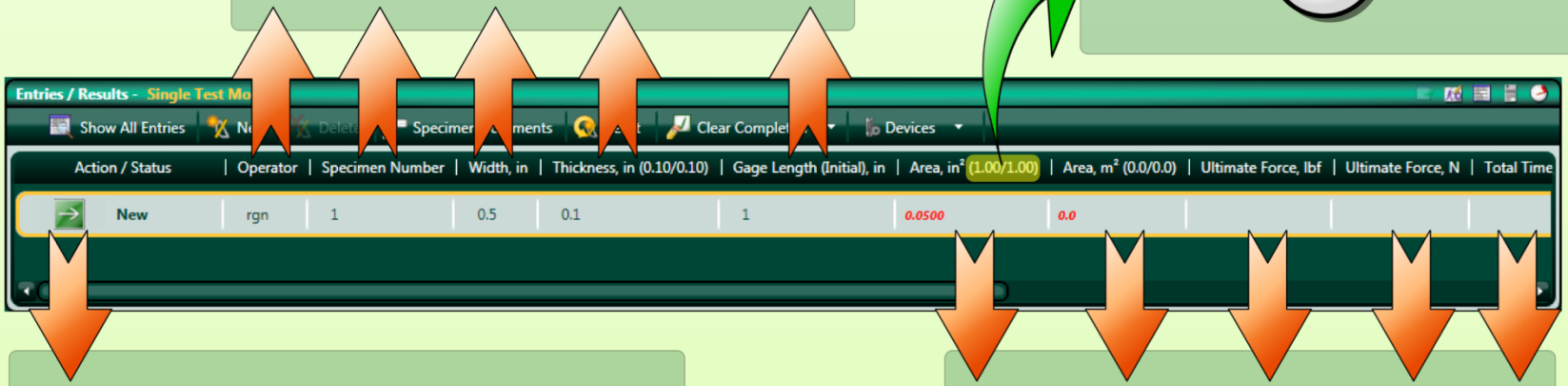
Entries

Data Importing

When a result has a limit defined, both the high and low limit will show in the column header title as well in the tooltip of the header.

Limits are defined in the following area:

Limits



The testing buttons as well as testing status are located in the first column of each specimen listed.

Status Notifications:

New, Before Test, Testing, After Test, Complete

Testing Button Icons:

Start Test

Abort Test

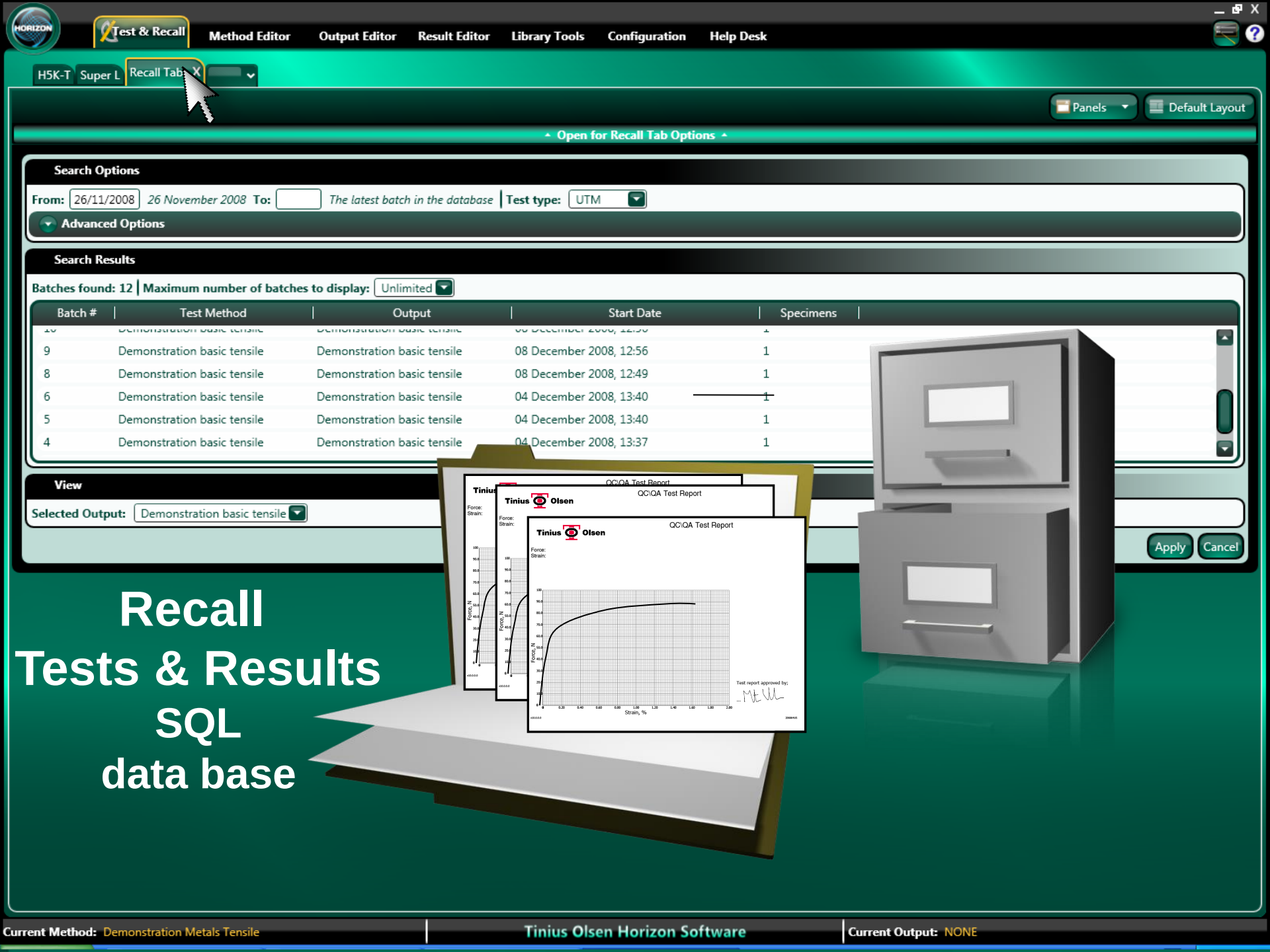
Accept/Discard Test

Report type results come last in the datagrid.
Duplicates are only displayed once.

They are defined in the following areas:

Reporting

Data Exporting


Test & Recall
Method Editor
Output Editor
Result Editor
Library Tools
Configuration
Help Desk
H5K-T
Super L
Recall Tab
Panels
Default Layout
Open for Recall Tab Options
Search Options
From: 26/11/2008 26 November 2008 To: The latest batch in the database Test type: UTM
Advanced Options
Search Results
Batches found: 12 Maximum number of batches to display: Unlimited
Batch # Test Method Output Start Date Specimens
9 Demonstration basic tensile Demonstration basic tensile 08 December 2008, 12:56 1
8 Demonstration basic tensile Demonstration basic tensile 08 December 2008, 12:49 1
6 Demonstration basic tensile Demonstration basic tensile 04 December 2008, 13:40 1
5 Demonstration basic tensile Demonstration basic tensile 04 December 2008, 13:40 1
4 Demonstration basic tensile Demonstration basic tensile 04 December 2008, 13:37 1
View
Selected Output: Demonstration basic tensile
Apply
Cancel
Recall
Tests & Results
SQL
data base
Tinius Olsen
QC\QA Test Report
Current Method: Demonstration Metals Tensile
Tinius Olsen Horizon Software
Current Output: NONE

System Fit

Consolidated test reports
All results from the lab in one place

MFI

Tension test

Impact

HDT Vicat

e mail report

consolidated test report

Print Save

locally or across a network

DOW High Density Polyethylene (HDPE) Resins - Microsoft Internet Explorer

http://plastics.dow.com/plastics/na/prod/pol

DOW High Density Polyethylene (HDPE) Resins

Plastics North Ar

- Literature
- Products
  - Engineering Thermoplastics
  - Fiber Solutions
  - Film Substrates
  - NORDEL Hydrocarbon Rubber
  - Performance Elastomers & Plastomers
  - Polyethylene
    - AFFINITY Polyolefin Plastomers (POPs)
    - ASPUN Fiber Grade Resins
    - ATTANE Ultra Low Density Polyethylene (ULDPE) Resins
    - CONTINUUM Bimodal Polyethylene Resins
    - DOW High Density Polyethylene (HDPE) Resins
    - DOW Low Density Polyethylene (LDPE) Resins
    - DOW Linear Low Density Polyethylene (LLDPE) Resins
    - DOWLEX Polyethylene Resins
    - ELITE Enhanced Polyethylene (EPE) Resins
    - FINGERPRINT™ Resins
    - FLEXOMER Very Low Density Polyethylene (VLDPE) Resins

DOW High Density Po

High Density Polyethylene (molded items.

For blow molding, DOW HD care, household, industrial

DOW HDPE pipe resins off capabilities. Applications in

For injection molding, DOW advantage is available acro

DOWLEX™ Improved Proce DOWLEX IP Resins, Dow h

Action Legend (Close)

T Technical Datasheet, m

Page 1 2 3
1 of 3

Action	Product
T m	DOW HDPE 25055E
T --	DOW HDPE 59900.8
T --	DOW HDPE 80255E
T --	DOW HDPE DGDA-2
T --	DOW HDPE DGDA-2
T m	DOW HDPE DGDA-5
T m	DOW HDPE DGDB-2
T m	DOW HDPE DGDC-2
T m	DOW HDPE DGDH-1
T m	DOW HDPE DGDP-6

Action	Product

Page
1 of 3 1 2 3

http://catalog.ides.com/DocSelect.aspx?E=49382&DOC=DOWTDS&DOCID=44807 - Microsoft Internet Explorer provided by Tinius Olsen

http://catalog.ides.com/DocSelect.aspx?E=49382&DOC=DOWTDS&DOCID=44807

http://catalog.ides.com/DocSelect.aspx?E=49382&D...

1 / 2 99.3%

Technical Information

Results derived from Lab equipment

DOW HDPE 25055E
High Density Polyethylene Resin

Overview

POLYETHYLENE HIGH DENSITY 25055E High Density Polyethylene Resin is a very narrow molecular weight distribution resin, developed to impart excellent mechanical properties, high gloss and high surface finishing to injection moulded parts, while providing easy processing.

Note: POLYETHYLENE HIGH DENSITY 25055E High Density Polyethylene Resin should comply with FDA regulation 177.1520(c) 3.2a and with most European food contact regulations when used unmodified and processed according to good manufacturing practices for food contact applications. Please, contact your nearest Dow office for food contact compliance statements. Complies with Canadian HPFB No Objection (With Limitations) and Europe EU-Directive 2002/72/EC (See Notes). The purchaser remains responsible for determining whether the use complies with all relevant regulations.

Applications:
- Housewares.
- Food containers.
- Toys.

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.953 g/cm³	0.953 g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	25 g/10 min	25 g/10 min	
190°C/5.0 kg	62 g/10 min	62 g/10 min	
Molding Shrinkage - Flow	0.021 in/in	2.1 %	ASTM D955
Environmental Stress-Cracking Resistance			ASTM D1693
100% Antarox CO-630, Compression Molded	0.700 hr	0.700 hr	
Spiral Flow Length			Dow Method
482°F (250°C), 2 seconds injection	42.9 in	1090 mm	
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Strength			ASTM D638
Yield, Compression Molded	3630 psi	25.0 MPa	
Break, Compression Molded	3920 psi	27.0 MPa	
Tensile Elongation			ASTM D638
Break, Compression Molded	200 %	200 %	
Flexural Modulus - 2% Secant (Compression Molded)	126000 psi	870 MPa	ASTM D790
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Impact Strength (Compression Molded)	26.2 ft·lb/in²	55.0 kJ/m²	ASTM D1822
Hardness	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Shore Hardness (Shore D, Compression Molded)	65	65	ISO 868
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**

Done

Unknown Zone

Resin Lab

Brittleness Tester

Density measurement

Drop dart

MFI

Dynamic Scanning Calorimeter

Tensile & Flex

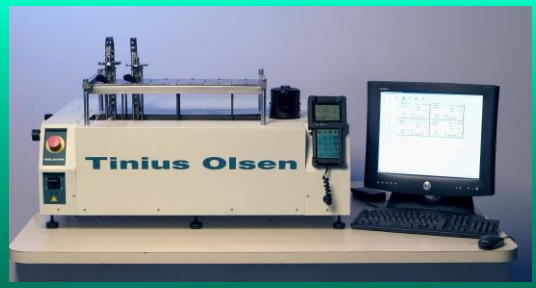
Specimen Prep

Impact

Notcher

Hardness Tester

Stress cracking



HDT\Vicat

Help Desk

Tutorials	• Documents and videos to aid first time users
Machine Check	• Check basic machine functions • Relay order of operation functionality (SpecialRelays)
Software Key	• Verify contents (saved and currently connected)
Help Desk	• Contact options

Test & Recall | Method Editor | Output Editor | Result Editor | Library Tools | Configuration | Help Desk

Tutorials | Machine Check | Software Key | Help Desk | Website Knowledge centre

Software Key Page

Read the current software functionality or unlock additional features.

Mouse over the icons below for a description of each section. Click a button in the toolbar above or an icon below to navigate to that area.

Tinius Olsen Horizon Software

Tutorials

- Accessible via main testing screen
- Can be viewed here or in a separate window that can be kept on top of all windows
- Will provide documents that can be printed or videos to provide step by step visual aids
- Will contain common problem solutions or typical usage scenarios

Test & Recall | Method Editor | Output Editor | Result Editor | Library Tools | Configuration | Help Desk

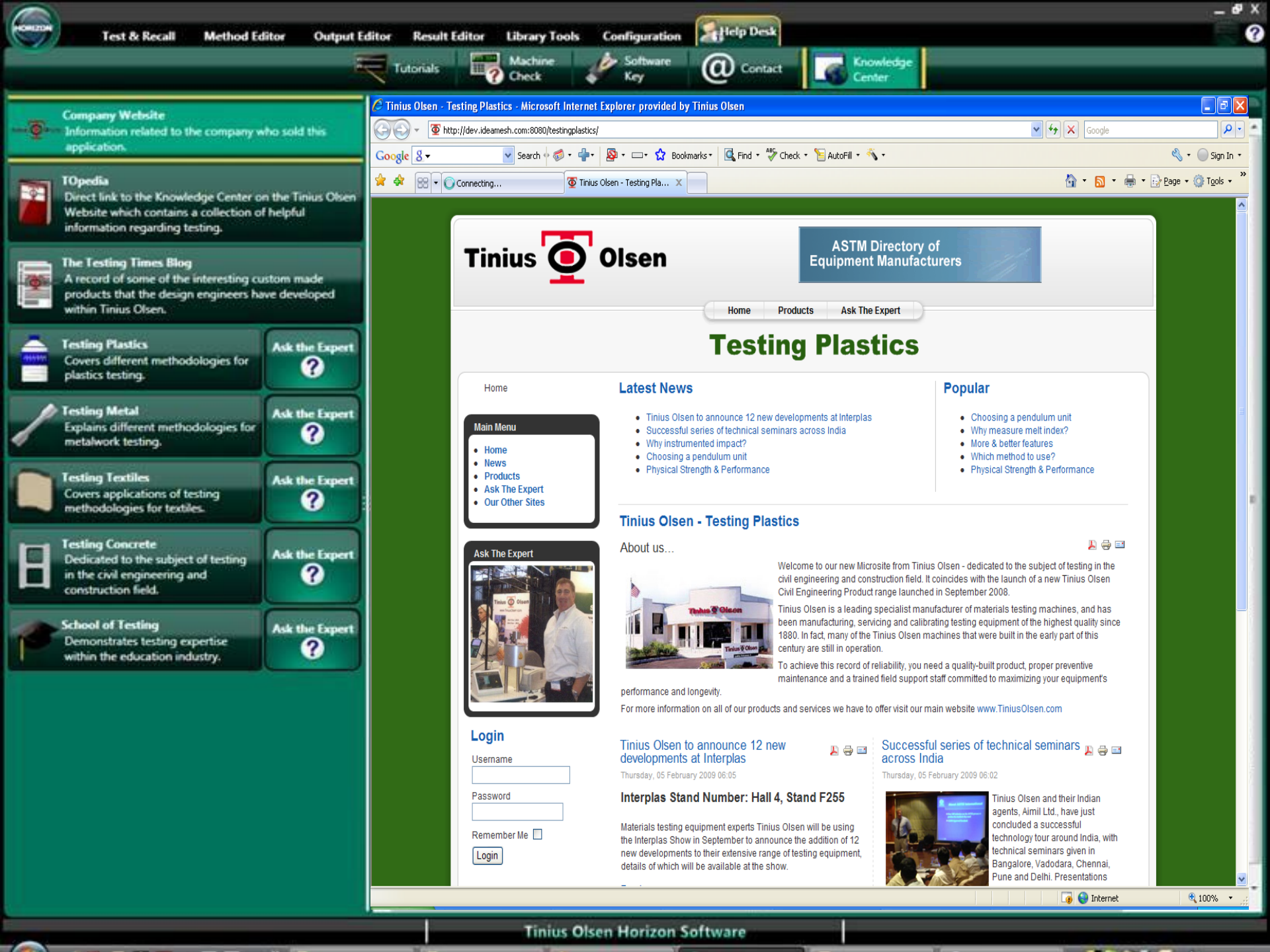
Tutorials | Machine Check | Software Key | Help Desk | Website | Knowledge centre

Knowledge centre

Read the current software functionality or unlock additional features.

Mouse over the icons below for a description of each section. Click a button in the toolbar above or an icon below to navigate to that area.

Tinius Olsen Horizon Software


Test & Recall
Method Editor
Output Editor
Result Editor
Library Tools
Configuration
Help Desk
Tutorials
Machine Check
Software Key
Contact
Knowledge Center
Company Website
Information related to the company who sold this application.
TOpedia
Direct link to the Knowledge Center on the Tinius Olsen Website which contains a collection of helpful information regarding testing.
The Testing Times Blog
A record of some of the interesting custom made products that the design engineers have developed within Tinius Olsen.
Testing Plastics
Covers different methodologies for plastics testing.
Ask the Expert
Testing Metal
Explains different methodologies for metalwork testing.
Ask the Expert
Testing Textiles
Covers applications of testing methodologies for textiles.
Ask the Expert
Testing Concrete
Dedicated to the subject of testing in the civil engineering and construction field.
Ask the Expert
School of Testing
Demonstrates testing expertise within the education industry.
Ask the Expert
Tinius Olsen - Testing Plastics - Microsoft Internet Explorer provided by Tinius Olsen
http://dev.ideamesh.com:8080/testingplastics/
Tinius Olsen
ASTM Directory of Equipment Manufacturers
Home
Products
Ask The Expert
Testing Plastics
Home
Main Menu
Home
News
Products
Ask The Expert
Our Other Sites
Ask The Expert
Login
Username
Password
Remember Me
Login
Latest News
Tinius Olsen to announce 12 new developments at Interplas
Successful series of technical seminars across India
Why instrumented impact?
Choosing a pendulum unit
Physical Strength & Performance
Popular
Choosing a pendulum unit
Why measure melt index?
More & better features
Which method to use?
Physical Strength & Performance
Tinius Olsen - Testing Plastics
About us...
Welcome to our new Microsite from Tinius Olsen - dedicated to the subject of testing in the civil engineering and construction field. It coincides with the launch of a new Tinius Olsen Civil Engineering Product range launched in September 2008.
Tinius Olsen is a leading specialist manufacturer of materials testing machines, and has been manufacturing, servicing and calibrating testing equipment of the highest quality since 1880. In fact, many of the Tinius Olsen machines that were built in the early part of this century are still in operation.
To achieve this record of reliability, you need a quality-built product, proper preventive maintenance and a trained field support staff committed to maximizing your equipment's performance and longevity.
For more information on all of our products and services we have to offer visit our main website www.TiniusOlsen.com
Tinius Olsen to announce 12 new developments at Interplas
Thursday, 05 February 2009 06:05
Interplas Stand Number: Hall 4, Stand F255
Materials testing equipment experts Tinius Olsen will be using the Interplas Show in September to announce the addition of 12 new developments to their extensive range of testing equipment, details of which will be available at the show.
Successful series of technical seminars across India
Thursday, 05 February 2009 06:02
Tinius Olsen and their Indian agents, Aimil Ltd., have just concluded a successful technology tour around India, with technical seminars given in Bangalore, Vadodara, Chennai, Pune and Delhi. Presentations
Internet
100%
Tinius Olsen Horizon Software

Test & Recall | Method Editor | Output Editor | Result Editor | Library Tools | Configuration | Help Desk

Tutorials | Machine Check | Software Key | Contact | Knowledge Center

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Demonstrates testing expertise within the education industry. — Ask the Expert

Ask The Expert - Microsoft Internet Explorer provided by Tinius Olsen

http://dev.ideamesh.com:8080/testingplastics/ask-the-expert

Endian Firewall - The request... | Ask The Expert

Tinius Olsen

ASTM Directory of Equipment Manufacturers

Home | Products | Ask The Expert

Testing Plastics

Home >> Ask The Expert

Main Menu
- Home
- News
- Products
- Ask The Expert
- Our Other Sites

Ask The Expert

Ask The Expert

Harry answers your questions....

Go | Reset | # 20

Items	Rating	Hits
Dear Harry is there any standard for measuring the spiral flow of polyethylene		32
Harry how can i detect the percentage of PVC content in PET grinded? we are a recycling company look for improve our quality control lab?		43
Harry, how much time do I have to fill the Melt Indexer Barrel and start the test in a Method A Test. I have heard 60 Seconds to fill and then wait 300 Seconds or 420 Seconds. What is the proper procedure?		59
Harry, Is there an equivalent test for Plastic products that would be similar to N-Vlaue in the testing of metals?		42
Harry, We are a small recycling company and have need of a device to test plastics for different grades. i.e. injection grade HDPE, HMW, ect. Is a melt flow index tester what we need, or is there a more economical product we can use? Thanks		17
Harry, what is the general norm for testing MFI values on batches of recycled LDPE film grade material. 250 kgs 500kgs 750kgs? the material is being used by extuders in general use field.		4

Login

Username

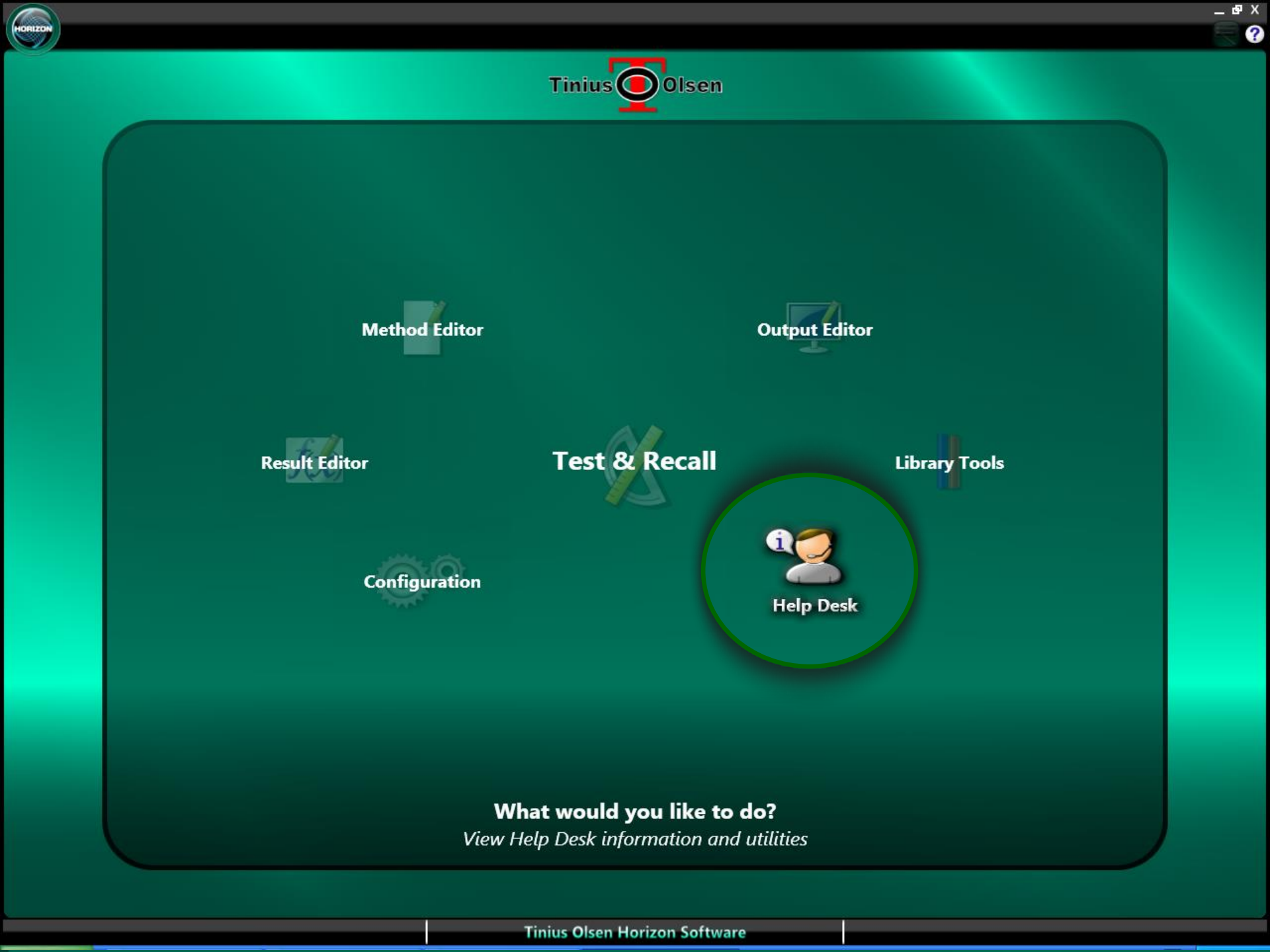
Password

Remember Me

Login

Internet | 100%

Tinius Olsen Horizon Software


Tinius Olsen
Method Editor
Output Editor
Result Editor
Test & Recall
Library Tools
Configuration
Help Desk
What would you like to do?
View Help Desk information and utilities
Tinius Olsen Horizon Software

Help Desk

- Locale specific contact information that is updateable
- Message log saving and uploading (if active internet connection available)
- Feedback or supporting file uploading
- FTP Site download instructions for updates
- Website (If active Internet connection)
- Additional ideas for customer connectivity?

Test & Recall | Method Editor | Output Editor | Result Editor | Library Tools | Configuration | Help Desk

H5K-T | Super L | Recall Tab

Machine Status: (Demonstration Mode)

Panels | Default Layout

Open for Testing Tab Options

Graph

Force v Elongati

Force, N

Print Preview

Print | Save As XPS | Save As BMP | Save As HTML | Close

Tinius Olsen

QC\QA Test Report

Force:
Strain:

Got a problem?

Yes no test curves on print preview

Send TO the OUTPUT and or METHOD files

Force, N

Strain, %

Test report approved by;

Entries / Results -

Show All E

Action / Sta

Complete

Complete

Complete

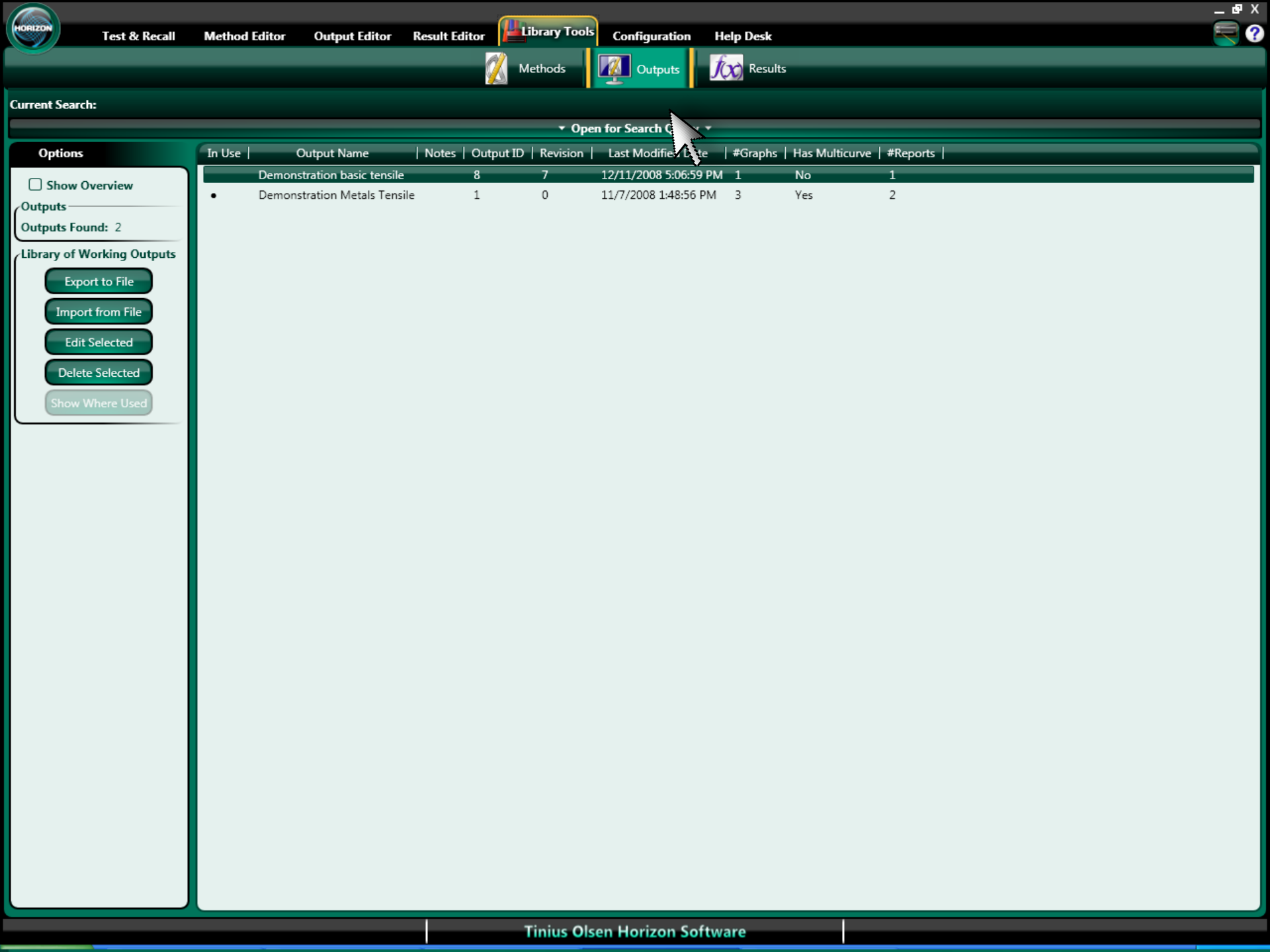
New

Current Method: Demonstration basic tensile

Tinius Olsen Horizon Software

Current Output: Demonstration basic tensile

start | Inbox - Microsoft Out... | RE: Horizon Q. - Mes... | FrontRange GoldMine... | Horizon Software | Print Preview | Microsoft PowerPoint ... | 09:10


Test & Recall
Method Editor
Output Editor
Result Editor
Library Tools
Configuration
Help Desk
Methods
Outputs
Results
Current Search:
Open for Search
Options
Show Overview
Outputs
Outputs Found: 2
Library of Working Outputs
Export to File
Import from File
Edit Selected
Delete Selected
Show Where Used
In Use | Output Name | Notes | Output ID | Revision | Last Modified Date | #Graphs | Has Multicurve | #Reports
Demonstration basic tensile 8 7 12/11/2008 5:06:59 PM 1 No 1
• Demonstration Metals Tensile 1 0 11/7/2008 1:48:56 PM 3 Yes 2
Tinius Olsen Horizon Software

Test & Recall | Method Editor | Output Editor | Result Editor | Library Tools | Configuration | Help Desk

Methods | Outputs | Results

Current Search:

Open for Search Query

Options

Show Overview

Outputs

Outputs Found: 2

Library of Working Outputs

Export to File

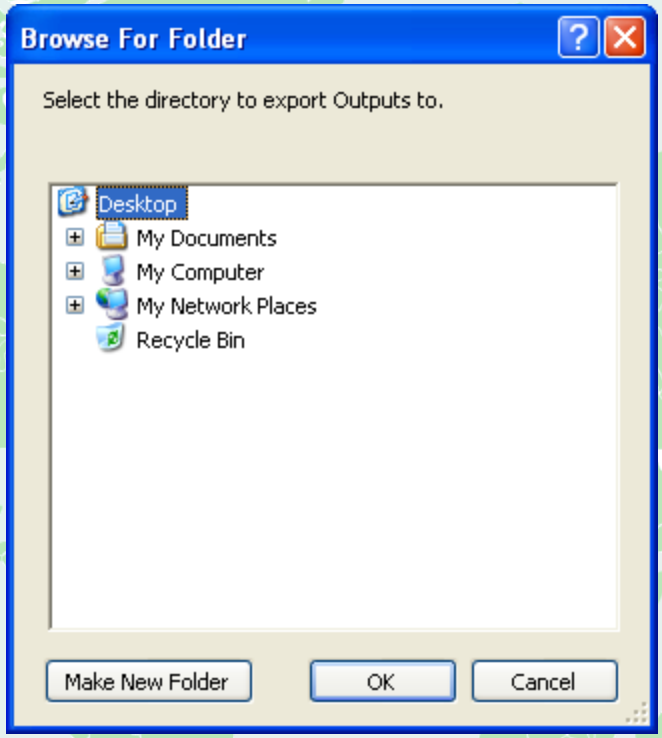
Import from File

Edit Selected

Delete Selected

Show Where Used

In Use	Output Name	Notes	Output ID	Revision	Last Modified Date	#Graphs	Has Multicurve	#Reports
	Demonstration basic tensile		8	7	12/11/2008 5:06:59 PM	1	No	1
•	Demonstration Metals Tensile		1	0	11/7/2008 1:48:56 PM	3	Yes	2



Save OUTPUT and or METHOD XML file

to Help Desk

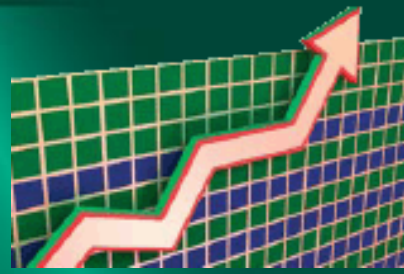
Tinius Olsen Horizon Software

HORIZON

Fits with your systems

Fuels your business productivity

Enables confident decision making



“New Era”

The Selling Model

Tinius Olsen

Horizon selling model

Equipment\Hardware

- Super L
- MTM floor standing
- Horizontal
- MTM bench mounting
- MFI
- Impact
- HDT\Vicat
- Torsion
- Manual input of results e.g. from Stiffness tester

Primary Platform $

Includes;

- Method library application focused
- Test environment
- Recall
- Regeneration
- Basic statistics
- Exporting (printing, Ascii)
- Edit & creating methods
- Translation
- Security
- Central server capability
- Closed loop control for bench machines
- Help Desk Access
- TO knowledge centre
  (requires internet connection)

Additional Functional Modules (AFM's) $

1. Import
- Import data from main frame Ascii (later XML) e.g. IDS, Limits etc

2. Multiple machines

3. Connectivity (Other)
- Other products e.g. Hardness, scales, bar code reader etc

4. Formula generation

5. Enhanced reporting
- Cross Primary Platforms

6. Automation (Robotic)

7. Closed loop control

PRICING

Primary Platforms per machine

- Super L	$ 5000
- MTM floor standing	$ 5000
- Horizontal	$ 5000
- MTM bench mounted	$ 3250
- MFI	$ 950
- Impact	$ 950
- HDT\Vicat	$ 3250
- Torsion	$ 5000
- Manual input of results TO machine e.g. from Stiffness tester	$ 950

One Test method library included, selected\specified on order

AFM's

1.	Import	$ 750
2.	Multiple machines	$ 500
3.	Connectivity (Other machines)	$ 2000
4.	Formula Generation	$ 500
5.	Enhanced Reporting	$ 500
6.	Automation (Robotic systems)	$ 3500
7.	Closed loop control	$ 1000

Additional Test Method Library sets

i) Metals $200
ii) Plastics $200
iii) Textiles $200
iv) Other additional e.g. Medical, Timber, Rubber, Packaging etc $ 200

Upgrade prices for existing users (Navigator Standard & Plus, Stanpac, QMat, QMat XT)

Primary Platforms per machine

- Super L	$ 2500
- MTM floor Standing	$ 2500
- Horizontal	$ 2500
- MTM bench mounted	$ 1625
- MFI	$ 475
- Impact	$ 475
- HDT\Vicat	$ 1625
- Torsion	$ 2500
- Manual input of results TO machine e.g. from Stiffness tester	$ 475

One Test method library included, selected\specified on order

AFM's

1.	Import	$ 750
2.	Multiple machines	$ 500
3.	Connectivity (Other machines)	$ 2000
4.	Formula Generation	$ 500
5.	Enhanced Reporting	$ 500
6.	Automation (Robotic systems)	$ 3500
7.	Closed loop control	$ 1000

Additional Test Method Library sets

i) Metals $200
ii) Plastics $200
iii) Textiles $200
iv) Other additional e.g. Medical, Timber, Rubber, Packaging etc $ 200

Flexibility in connection options

Primary Platform Materials Testing Machine

AFM
Multiple machines

Flexibility in connection options

Primary Platform
Materials Testing
Machine

Primary Platform
Melt Flow

AFM
Multiple machines

Flexibility in connection options

Primary Platform Melt Flow

Full price

Primary Platform Melt Flow

1\2 price

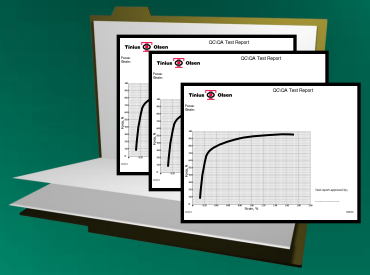
Primary Platform Melt Flow

1\2 price

Hardware requirements

Summary Feature\Benefits

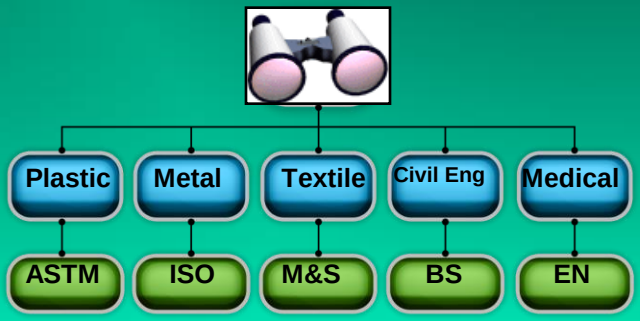
***4 clicks** to*
TEST & REPORT



Wysiwig report editor and custom formatting

System Fit
Consolidated test reports

On line support
TO Help Desk



Searchable test method library

Full network &
Lims compatibility

Wizards and Tutorials for quick understanding

Coming Soon

- Plan for CFR-21 compliance

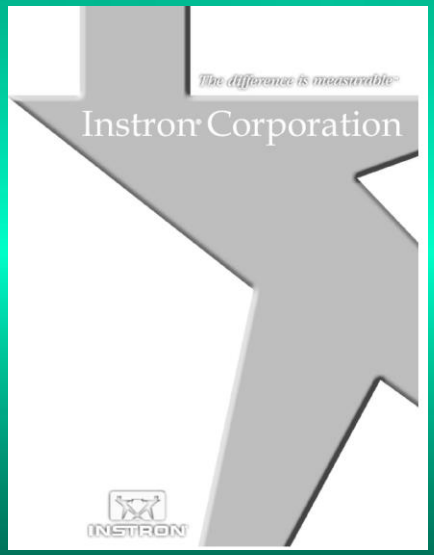
- Key language capability Chinese, Korea, French, German, Spanish, Portuguese, Thai, Russian and more

- Upgrade existing Navigator, QMat, MI, Impact customers (including obsolete Controllers M series, 290, 398, MI993, Impact 927, HDT 290,398)

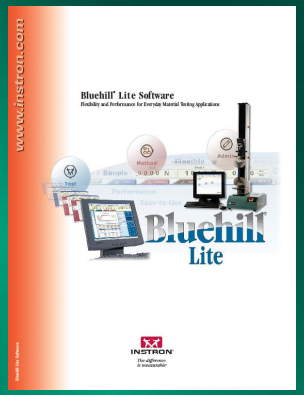
- Universal units change

Competition

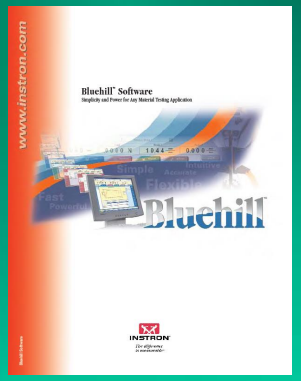
Click on docs to open PDF



Competition



Traditional “Up the ladder” selling model approach, Technology and price hand in hand
WEAKNESS – User may want one function at top of ladder so must pay for all functions at that level. TO’s selling model is Horizontal



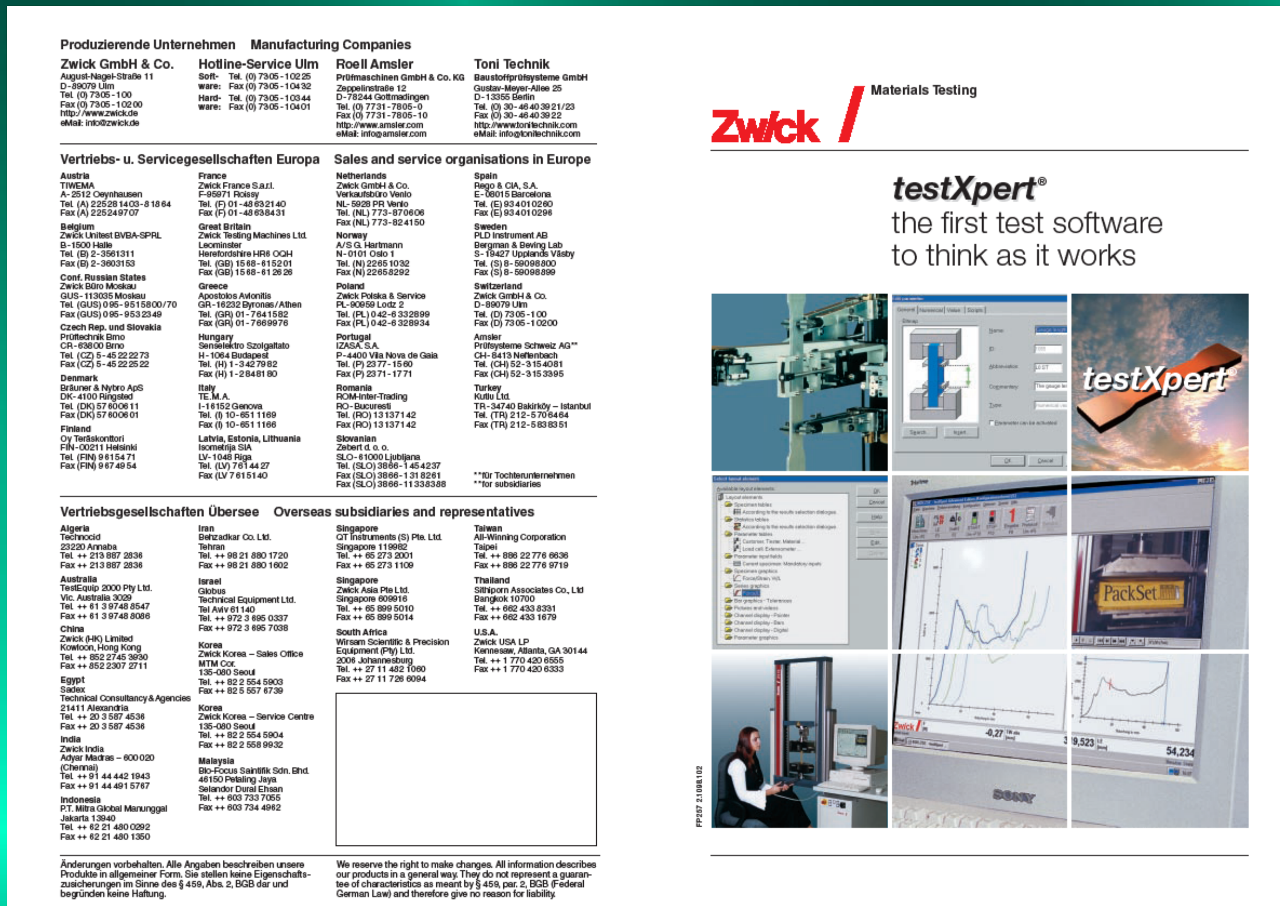
Bluehill has the old Instron Series IX program in the back with a .net front end\user interface
WEAKNESS – Functionality and network capability limited

Instron retain and still actively promote Series IX due to
WEAKNESS – in Bluehill functionality, price issues and compatibility with existing users tests and data

Presentation, user interface
WEAKNESS – Already dated, white screen not Web 2.0 look & feel

Competition

Zwick / Roell
Zwick



Produzierende Unternehmen   Manufacturing Companies

Zwick GmbH & Co.
August-Nagel-Straße 11
D-89079 Ulm
Tel. (0) 7305-100
Fax (0) 7305-10200
http://www.zwick.de
eMail: info@zwick.de

Hotline-Service Ulm
Software: Tel. (0) 7305-10225, Fax (0) 7305-10432
Hardware: Tel. (0) 7305-10344, Fax (0) 7305-10401

Roell Amsler
Prüfmaschinen GmbH & Co. KG
Zeppelinstraße 12
D-78244 Gottmadingen
Tel. (0) 7731-7805-0
Fax (0) 7731-7805-10
http://www.amsler.com
eMail: info@amsler.com

Toni Technik
Baustoffprüfsysteme GmbH
Gustav-Meyer-Allee 25
D-13355 Berlin
Tel. (0) 30-46403921/23
Fax (0) 30-46403922
http://www.tonitechnik.com
eMail: info@tonitechnik.com

Vertriebs- u. Servicegesellschaften Europa   Sales and service organisations in Europe

Austria
TIWEMA
A-2512 Oeynhausen
Tel. (A) 22528 1403-81864
Fax (A) 225249707

Belgium
Zwick Unitest BVBA-SPRL
B-1500 Halle
Tel. (B) 2-3561311
Fax (B) 2-3603153

Conf. Russian States
Zwick Büro Moskau
GUS-113035 Moskau
Tel. (GUS) 095-9515800/70
Fax (GUS) 095-9532349

Czech Rep. und Slovakia
Prüftechnik Brno
CR-63800 Brno
Tel. (CZ) 5-45222273
Fax (CZ) 5-45222522

Denmark
Bräuner & Nybro ApS
DK-4100 Ringsted
Tel. (DK) 57600611
Fax (DK) 57600601

Finland
Oy Teräskonttori
FIN-00211 Helsinki
Tel. (FIN) 9615471
Fax (FIN) 9674954

France
Zwick France S.a.r.l.
F-95971 Roissy
Tel. (F) 01-48632140
Fax (F) 01-48638431

Great Britain
Zwick Testing Machines Ltd.
Leominster
Herefordshire HR6 OQH
Tel. (GB) 1568-615201
Fax (GB) 1568-612626

Greece
Apostolos Avlonitis
GR-16232 Byronas/Athen
Tel. (GR) 01-7641582
Fax (GR) 01-7669976

Hungary
Senselektro Szolgaltato
H-1064 Budapest
Tel. (H) 1-3427982
Fax (H) 1-2848180

Italy
TE.M.A.
I-16152 Genova
Tel. (I) 10-6511169
Fax (I) 10-6511166

Latvia, Estonia, Lithuania
Isometrija SIA
LV-1048 Riga
Tel. (LV) 7614427
Fax (LV 7615140

Netherlands
Zwick GmbH & Co.
Verkaufsbüro Venlo
NL-5928 PR Venlo
Tel. (NL) 773-870606
Fax (NL) 773-824150

Norway
A/S G. Hartmann
N-0101 Oslo 1
Tel. (N) 22651032
Fax (N) 22658292

Poland
Zwick Polska & Service
PL-90959 Lodz 2
Tel. (PL) 042-6332899
Fax (PL) 042-6328934

Portugal
IZASA S.A.
P-4400 Vila Nova de Gaia
Tel. (P) 2377-1560
Fax (P) 2371-1771

Romania
ROM-Inter-Trading
RO-Bucuresti
Tel. (RO) 13137142
Fax (RO) 13137142

Slovanian
Zebert d. o. o.
SLO-61000 Ljubljana
Tel. (SLO) 3866-1454237
Fax (SLO) 3866-1318261
Fax (SLO) 3866-11338388

Spain
Rego & CIA, S.A.
E-08015 Barcelona
Tel. (E) 934010260
Fax (E) 934010296

Sweden
PLD Instrument AB
Bergman & Beving Lab
S-19427 Upplands Väsby
Tel. (S) 8-59098800
Fax (S) 8-59098899

Switzerland
Zwick GmbH & Co.
D-89079 Ulm
Tel. (D) 7305-100
Fax (D) 7305-10200

Amsler
Prüfsysteme Schweiz AG**
CH-8413 Neftenbach
Tel. (CH) 52-3154081
Fax (CH) 52-3153395

Turkey
Kutlu Ltd.
TR-34740 Bakirköy – Istanbul
Tel. (TR) 212-5706464
Fax (TR) 212-5838351

**für Tochterunternehmen
**for subsidiaries

Vertriebsgesellschaften Übersee   Overseas subsidiaries and representatives

Algeria
Technocid
23220 Annaba
Tel. ++ 213 887 2836
Fax ++ 213 887 2836

Australia
TestEquip 2000 Pty Ltd.
Vic. Australia 3029
Tel. ++ 61 3 9748 8547
Fax ++ 61 3 9748 8086

China
Zwick (HK) Limited
Kowloon, Hong Kong
Tel. ++ 852 2745 3930
Fax ++ 852 2307 2711

Egypt
Sadex
Technical Consultancy & Agencies
21411 Alexandria
Tel. ++ 20 3 587 4536
Fax ++ 20 3 587 4536

India
Zwick India
Adyar Madras – 600 020
(Chennai)
Tel. ++ 91 44 442 1943
Fax ++ 91 44 491 5767

Indonesia
P.T. Mitra Global Manunggal
Jakarta 13940
Tel. ++ 62 21 480 0292
Fax ++ 62 21 480 1350

Iran
Behzadkar Co. Ltd.
Tehran
Tel. ++ 98 21 880 1720
Fax ++ 98 21 880 1602

Israel
Globus
Technical Equipment Ltd.
Tel Aviv 61140
Tel. ++ 972 3 695 0337
Fax ++ 972 3 695 7038

Korea
Zwick Korea – Sales Office
MTM Cor.
135-080 Seoul
Tel. ++ 82 2 554 5903
Fax ++ 82 5 557 6739

Korea
Zwick Korea – Service Centre
135-080 Seoul
Tel. ++ 82 2 554 5904
Fax ++ 82 2 558 9932

Malaysia
Bio-Focus Saintifik Sdn. Bhd.
46150 Petaling Jaya
Selandor Dural Ehsan
Tel. ++ 603 733 7055
Fax ++ 603 734 4962

Singapore
QT Instruments (S) Pte. Ltd.
Singapore 119982
Tel. ++ 65 273 2001
Fax ++ 65 273 1109

Singapore
Zwick Asia Pte Ltd.
Singapore 609916
Tel. ++ 65 899 5010
Fax ++ 65 899 5014

South Africa
Wirsam Scientific & Precision
Equipment (Pty) Ltd.
2006 Johannesburg
Tel. ++ 27 11 482 1060
Fax ++ 27 11 726 6094

Taiwan
All-Winning Corporation
Taipei
Tel. ++ 886 22 776 6636
Fax ++ 886 22 776 9719

Thailand
Sithiporn Associates Co., Ltd
Bangkok 10700
Tel. ++ 662 433 8331
Fax ++ 662 433 1679

U.S.A.
Zwick USA LP
Kennesaw, Atlanta, GA 30144
Tel. ++ 1 770 420 6555
Fax ++ 1 770 420 6333

Zwick / Materials Testing

testXpert®
the first test software
to think as it works

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Competition

Test Expert II – good product, good application coverage
WEAKNESS – Complex setting up new methods for users especially those in QC\QA. To many steps and boxes to tick. Weak template function.

Test Expert II – Basic pull and bang package is included in machine\frame price.
WEAKNESS – Pricing structure causes price to ramp up significantly in particular for more complex tests e.g. multiple machines, multiple device inputs etc.

Data base of methods WEAKNESS – Appears weak, lacks depth in methods. Additional method price $975

Quality management of data subcontracted to Schatz.
WEAKNESS – Not part of the Zwick programming team, support not through Zwick and expensive

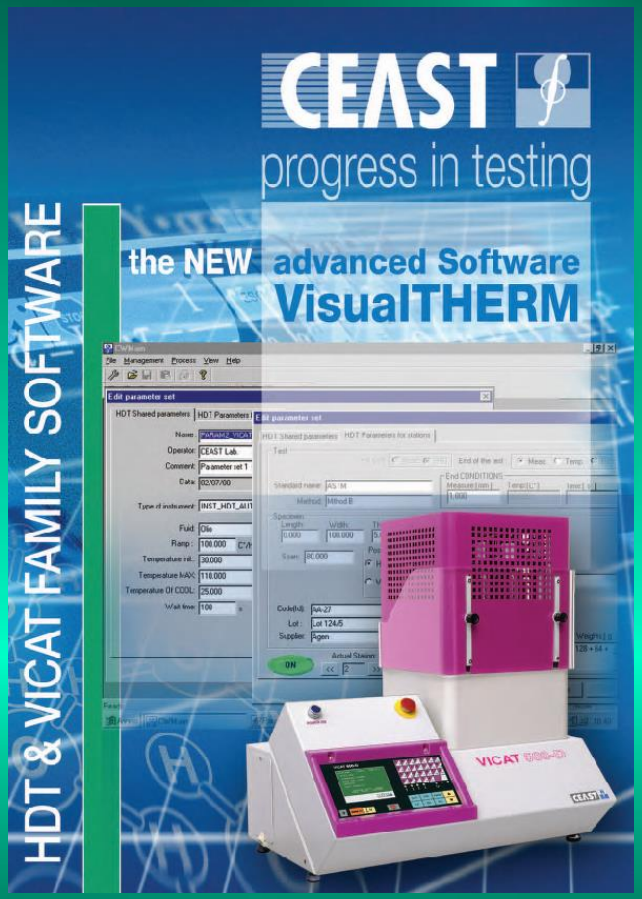
FDA 21 CFR Part 11 compliant WEAKNESS – Lack of Customers specifically US medical specifiers FDA approved prefer\select TO systems and technology

Competition

Test Expert II – Multi gauge length capability

WEAKNESS – Requires separate test method for each diameter rebar i.e. gauge length, cannot use the one routine and change gauge lengths.

Competition



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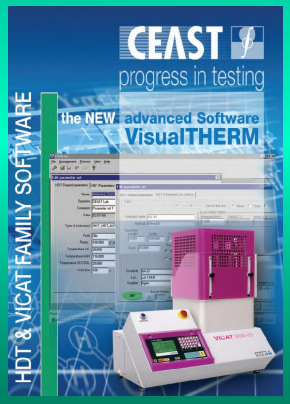
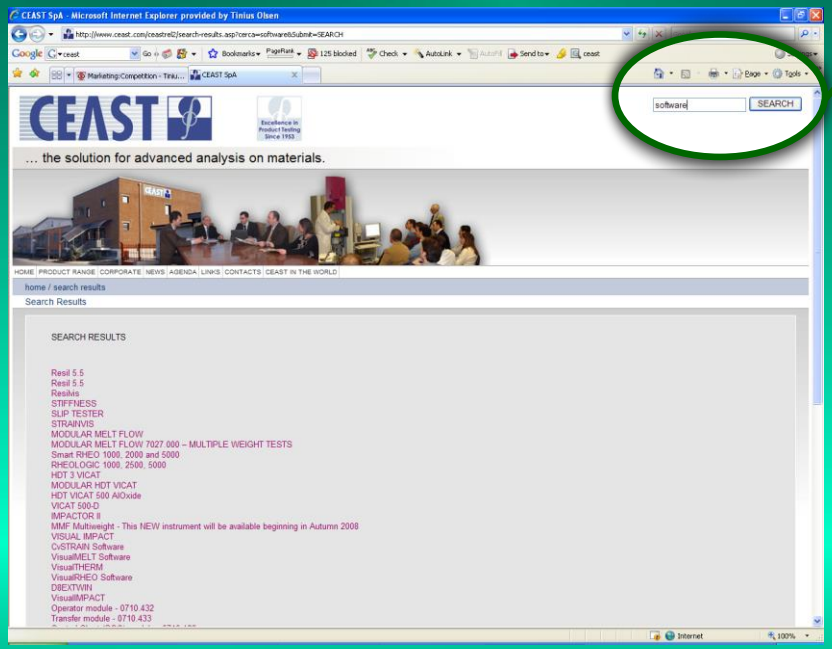
Competition



Today software is key, it is how a user primarily judges key parameters “Ease of use, Product Competency, fit for purpose” hardware functionality is implicit

WEAKNESS – Search software on Ceast site- nothing found just lists all products i.e. the emphasis and market understanding is lacking



Search software result a hardware product list

Part of the Instron group

WEAKNESS – Integration with Bluehill, technical support from Italy in Italian?

Competition

Shimadzu - Trapezium2 Page 1 of 4

SHIMADZU North America

Home

Products Information Service/Support Training News

Products Home - testing Home

Testing Measurement Links:
Testing/Measurement Index

Maintenance
Maintenance Plus

Thermal Analysis
TMA-60 NEW !
DTG-60
DSC-60
DSC-50/50Q
DTA-50
TGA-50/50H 51/51H
TMA-50/50H
TA-60WS
Sample Cells

Universal Testing
Autograph/Testers terminology (.pdf)
UH Series
AG-I
AG-IS
AGS-J
Trapezium Software
EZGraph
EZTest

Particle Size
LATS-1
SALD-7001
SALD-301V
SALD-201V
SALD-3001
SALD-2001
SA-CP3
WingSALD

Capillary/Flow Testers
CFT-500D/100D
SMV-300

Hardness Testing
MCT-W
DUH-W201/201S
DKT Series
HSV-30/30T
HMV-2
HMV-M

Trapezium2

Software linked with the test machine in higher order

Download a Trapezium training video

The Windows®-based TRAPEZIUM2 software allows various testing operations from simple test control to complicated control patterns created by the user. With its visual wizard settings and the industry's first operation navigation system, data obtained from the test can be processed based on various standards.

Flexible operations such as re-testing and re-analysis, as well as many advanced functions, such as network transmission of measurement data and screen customization, intelligently navigate various strength tests.
Japanese, English, Spanish, Chinese (both simplified and traditional) versions available.
(Other languages available upon request.)

Navigation

The Navigation Bar selectively displays functions needed for the current operation. Continuous tests can be efficiently carried out by simply pressing the large buttons.

Efficient continuous testing begins in 3 steps
- Testing can be started in 3 steps after the software is booted up.

Additional Trapezium2 Information
- Request Literature
- FAQs
- On-Line Marketplace
- Product Search
- Sign up for E-News
- Shimadzu Service

Interested in this product ?
Contact local rep

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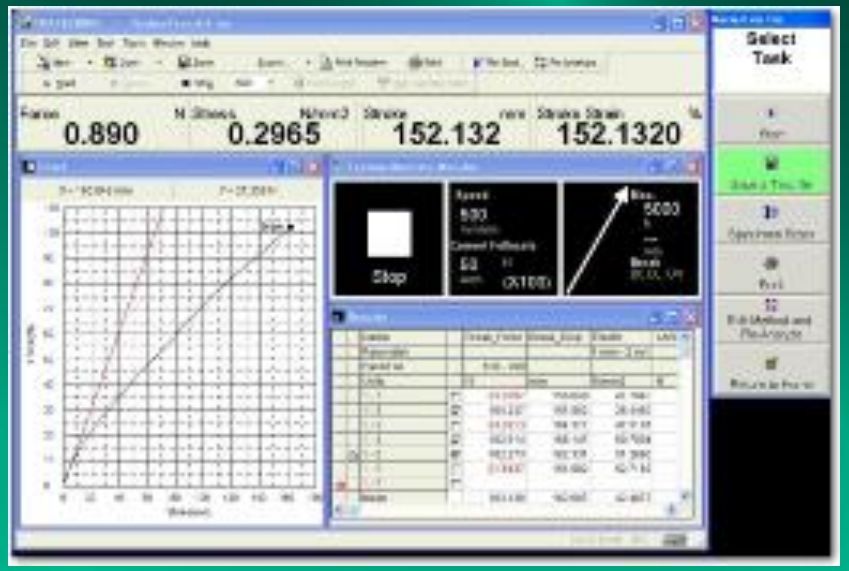
http://www.ssi.shimadzu.com/products/testing/newindex.cfm?product=trapezium2 10/02/2004



WEAKNESS – Old style not Web 2.0, not fully scalable windows

WEAKNESS – No polymer analysis capability beyond Tension and flex

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Launch Plan

- Catalogue available	early March 09
- TO web site update	early March 09
- Editorial	early March 09
- On TO price list	Completed
- First customer	Dunlop rubber puncture test US successfully installed and working Jan 09
- Horizon available for existing Customers	July 2009

- Navigator & Qmat will be available until end of 2009

Tinius Olsen