Bulletin
200B

SDL ATLAS®
TEXTILE TESTING SOLUTIONS

Horizon Software

SIMPLY POWERFUL SOFTWARE FOR MATERIALS TESTING

Fig. 1. Introduction screen and launch page for Horizon.

Tinius Olsen is proud to introduce you to the next evolution of testing software with our Horizon package. As part of our development process, we have taken the best features of our existing software offerings, including Test Navigator, QMat, and EP600 software, added a host of report writing and data manipulation capabilities and in the process, created a new, unparalleled testing platform that will make easy work of your materials testing programs, whether they're designed for the demanding rigors of R&D or the charting and analysis functions of QC testing.

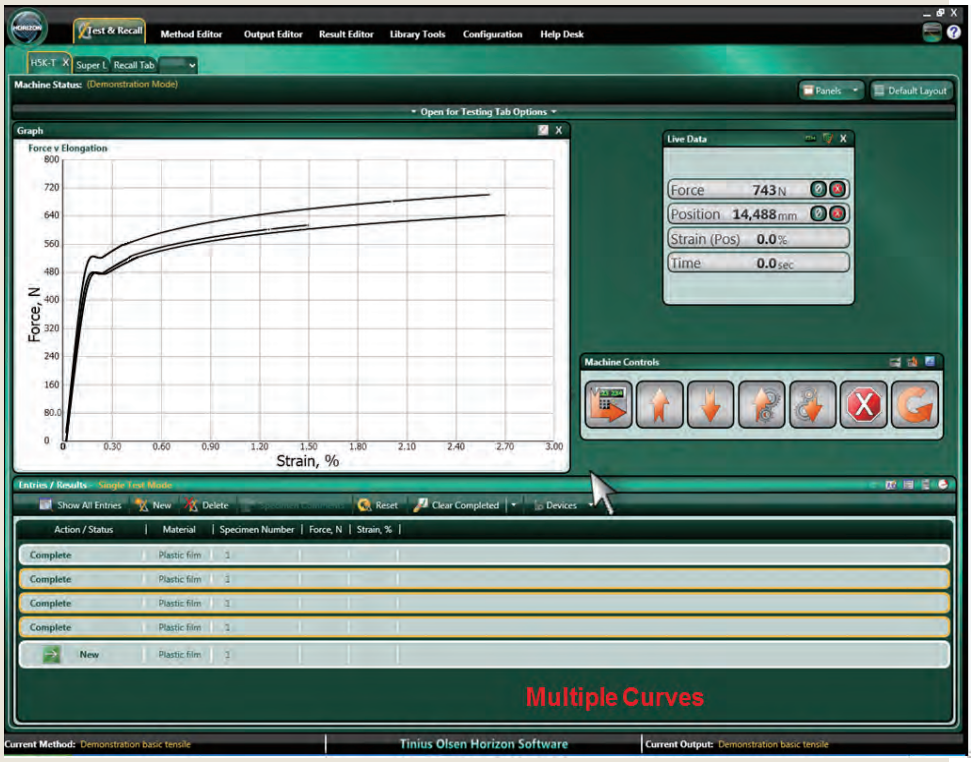
One of the first features you see within the Horizon software is its use of the most current Windows environments. These familiar formats make it easy to use and learn, especially since the same familiar functionality is maintained throughout the program.

Fig. 2. Typical live test screen showing machine controls and resultant graph.

Key features of Horizon software include:

- Test Method Library
- Test Editor
- Tabbed Test and Recall Area
- Multiple Machine Control
- Output Editor
- Multilingual
- Method Editor
- Result Editor
- Multifaceted Security
- Touchscreen Enabled*

*Touchscreens require the use of Windows 8 operating system and a touchscreen.



METHOD LIBRARY AND TEST EDITOR

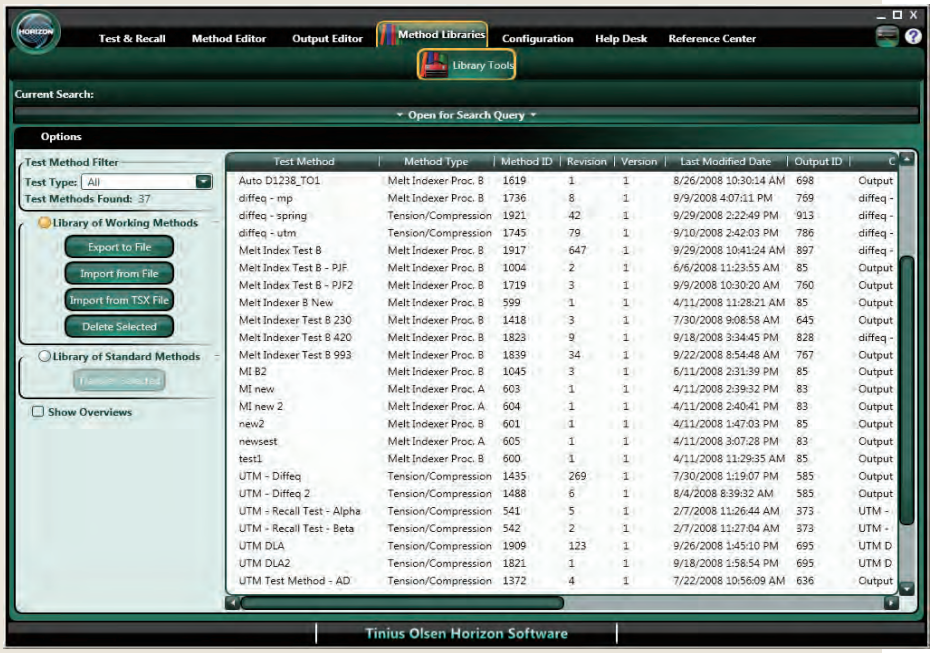
If your testing regimen follows a quality control analysis to a variety of international standards, then going to the Test Method Library is, most likely, the first place you want to visit; here you can select your desired test method that we have written in accordance with different international test standards. So, for example, if you need to test for the melt flow index of incoming resin, to ASTM D1238 procedure B, simply select that routine from the list in the library. Similarly, if you need to determine the pipe crush strength in accordance with EN802, or the tensile strength of steel reinforcement bar in accordance with ASTM E8, or the Vicat softening temperature of plastics in accordance with ISO 306 etc., simply make the selection from the library, confirm machine and specimen parameters and start the tests – only four clicks of your mouse from start-up to testing!

If, on the other hand, you want to develop your own calculated result from a test, using a national standard as a template for your unique test, it is a simple task of adding the result (and calculation) to the output, and saving the test set-up with your unique name.

Alternatively, you can develop your own test method where you have complete control over how the test machine performs over the course of the test. You can program the control segments, control options, specimen parameters, the report output, and how the test machine and software communicate with each other.

Notable features of Test Method Library and Test Editor

- Searchable database of international test standards
- Standards from ASTM, ISO, EN, BS DIN and many more
- Tests for tension, flexure, melt index, compression etc.
- Ability to customize the test setup using a standard as a template
- Setups are available in multiple languages and dialects
- Multiple levels and types of security so data and equipment is protected.



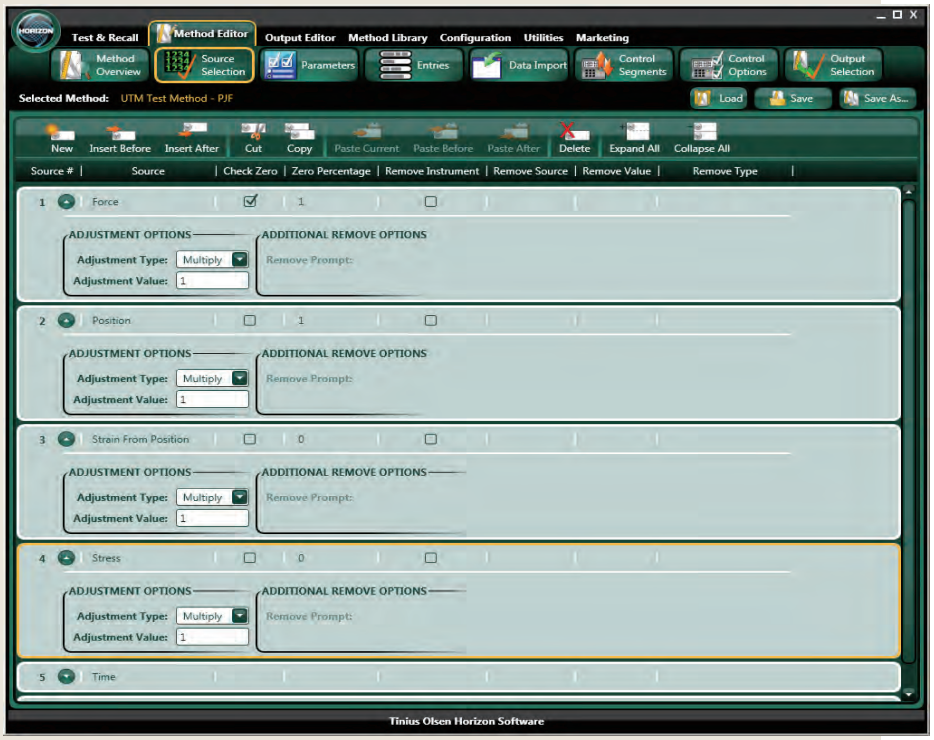


Fig. 3. Library search result, looking for a standardized tensile test routine.

Fig. 4. Control Segments setup within the Method Editor section of Horizon software. The number of control segments available for each test, and test type, is unlimited, although experience indicates that typically no more than five are generally used.

TABBED TEST AND RECALL AREA

Notable Features of Tabbed Test and Recall Area

- Examine test results from previous tests while performing live tests.
- Ability to test multiple machines and machine types.
- Multiple graph types can be used for each test.

The next feature you may notice is that Horizon can perform multiple tests at one time, controlling and gathering test data from multiple machines (provided your pc has the necessary hardware to control multiple machines). This is true whether you're controlling and gathering data from multiple melt indexers, hydraulic tensile testing machines; and/or electromechanical testing machines, (whether they're performing tensile, compresion, flexural, tear, peel, or other tests).

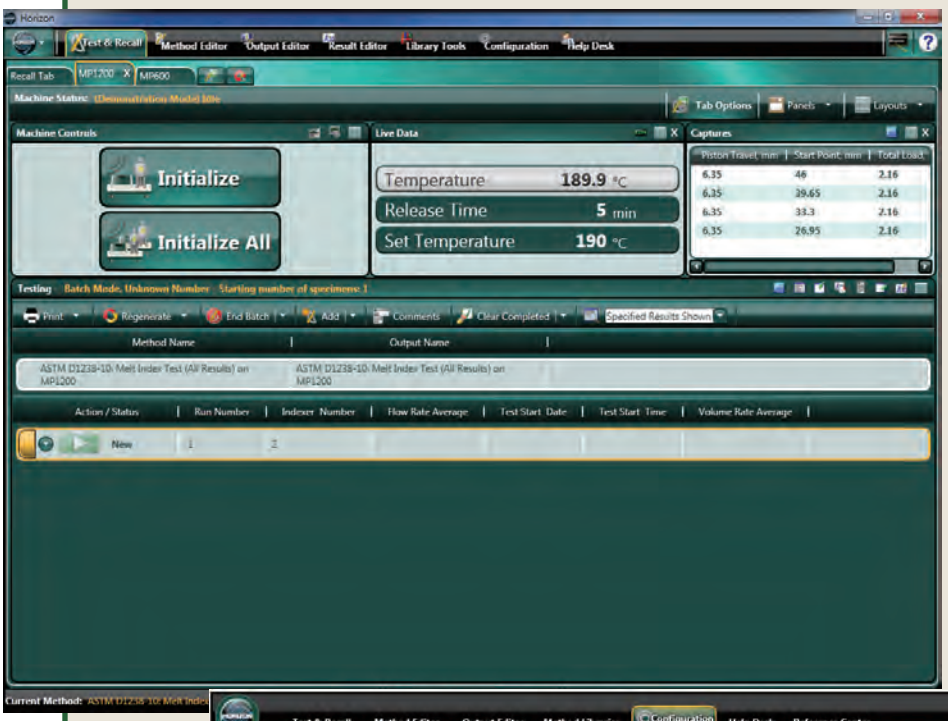


Fig. 5. Test Screen showing the tab labeled for multiple MP1200 Melt Indexers. The software is ready to start the tests on multiple MP1200 models, or MP600 models etc, while at the same time controlling the tests being performed on the first tab, which in this example, is an H5kT tensile tester.

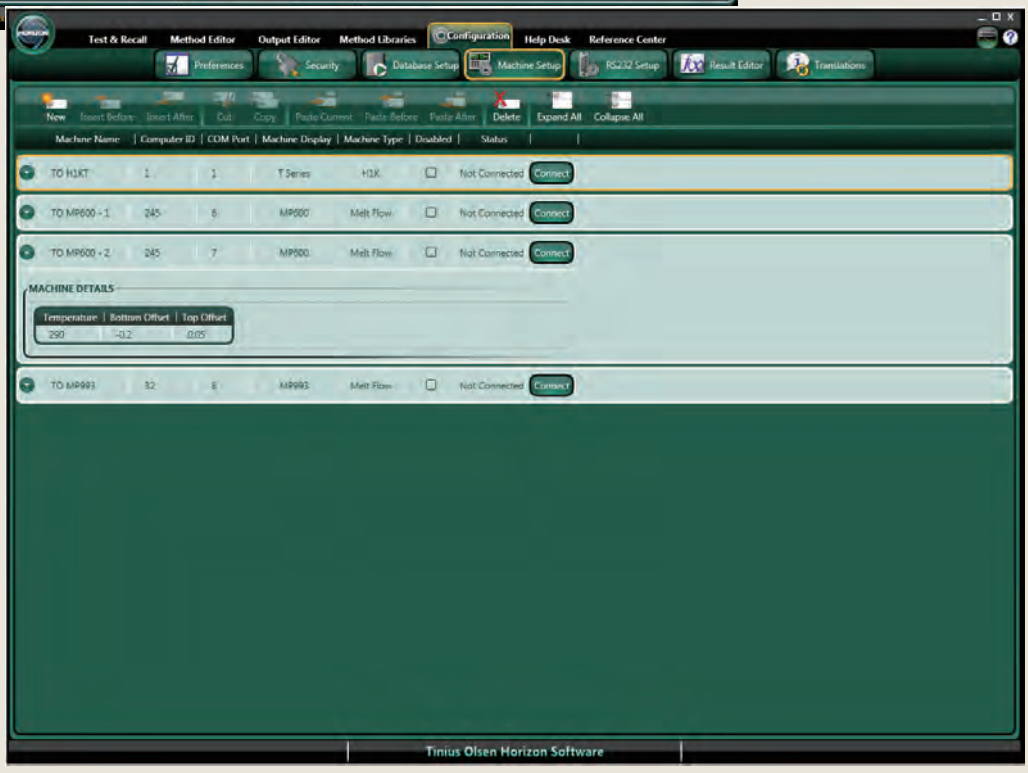


Fig. 6. How the machines within each tab are setup to communicate with Horizon software.

RESULT EDITOR AND OUTPUT EDITOR

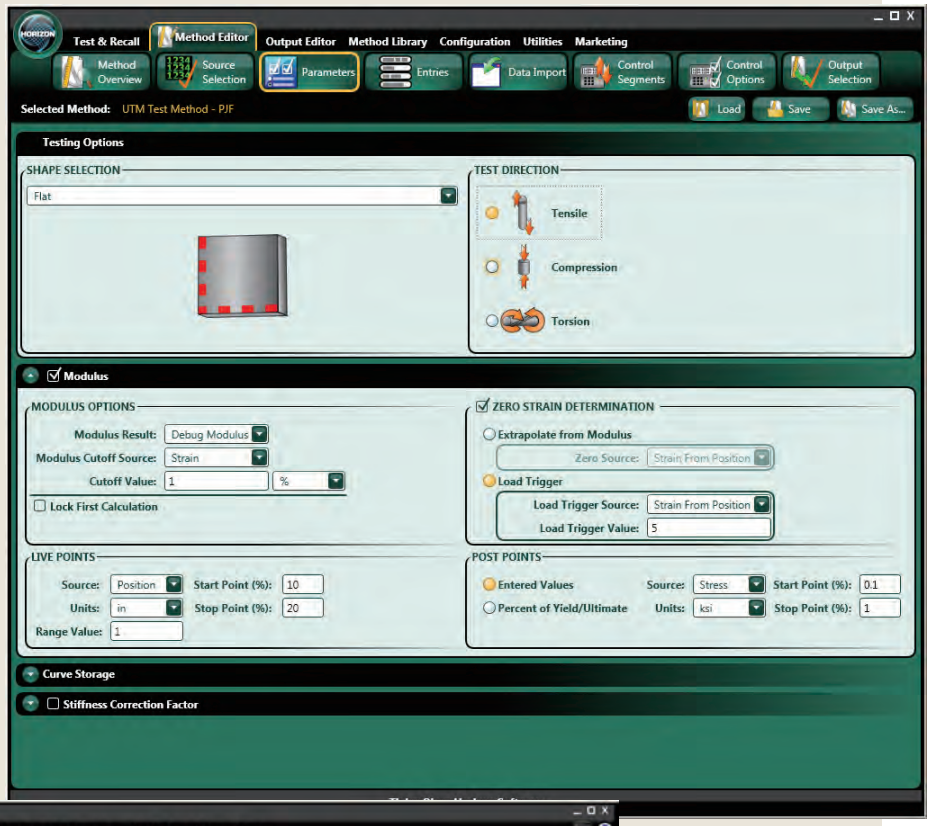
Up to three different graphs can be produced per test, using different measurement axes.

Once all the data has been gathered, Horizon can consolidate it into reports that you can customize to your, or your customer's, individual needs. The output editor allows unprecedented formatting of your data. You can select what live data can be shown during the test; the acceptable limits of the results; the graphical representation of the test – in multiple formats; the layout of the report including the use of your, or your customer's, logo on the report; and also if you need the resultant data available in another format, it can be readily exported or converted to that desired format.

These reports can be distributed across one pc, multiple pcs, or even across a network; the presentation of these test reports are compatible with multiple common formats, including an ERP format.

Notable Features of Result Editor and Output Editor

- Multiple graph types can be used per test
- Reports can be generated using your customer's logo
- Reports can be created in the precise format you desire.
- Data can be exported to a variety of different formats.
- An overview is always available to preview what has been created.



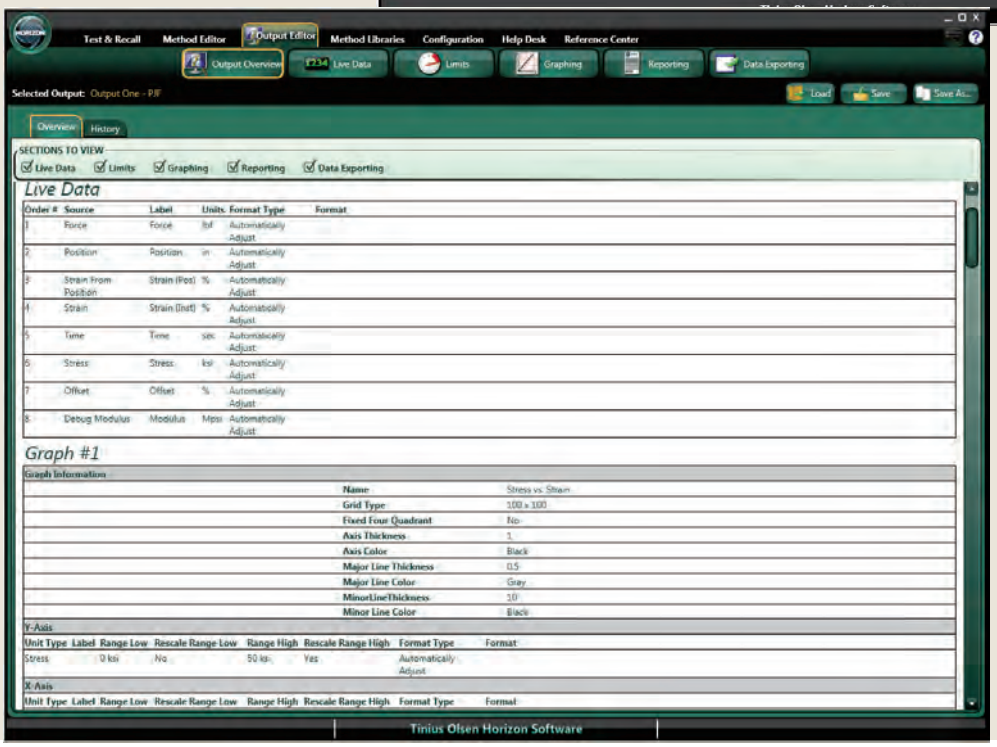


Fig. 7. Test parameters setup in the Method Editor function of Horizon software.

Fig 8. At every stage of the test set-up, an overview of what has been instructed and how data is to be recorded, used, saved, and output can be seen and checked.

RESULT EDITOR

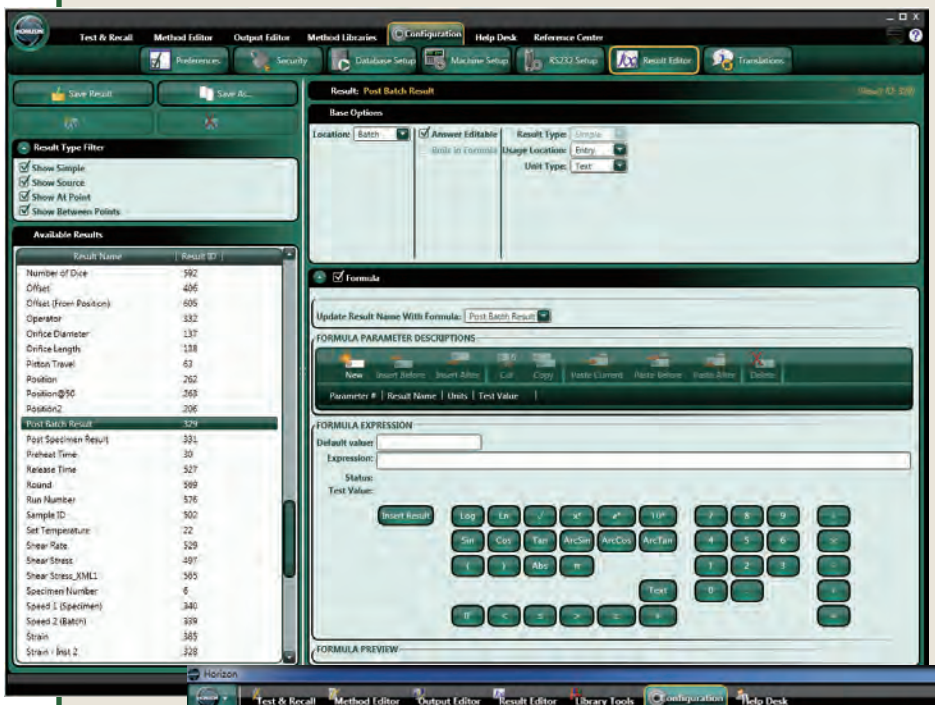


Fig. 9. Customized formulae can be written to create your own unique results. In this particular example, the result calculation is a “standard” result and consequently uneditable and greyed out.

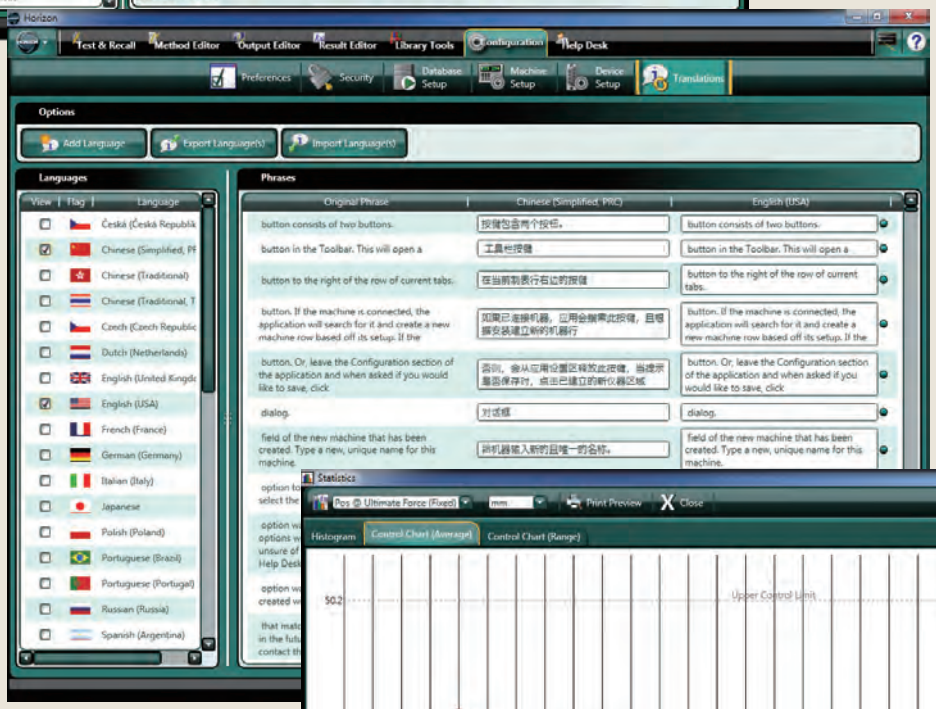


Fig. 10. To make Horizon truly universal, the software has a Translations section where phrases used as titles and commands can be translated into local dialects and languages.

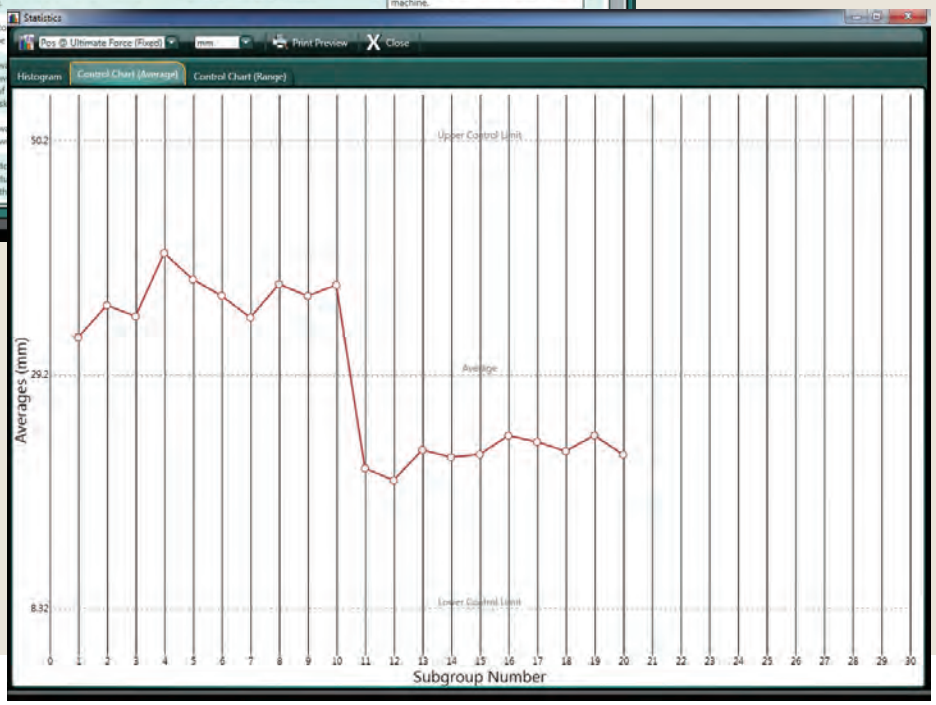


Fig. 11. Statistical options on selected results.

HELP DESK AND SUPPORT

Horizon is one of the most technologically advanced testing software suites, but throughout the design process two key criteria of value and simplicity were maintained. If at any time you have questions on the operation of the software or how to make different reports, the program has built-in tutorials, on-line help, and Tinius Olsen Help Desk access.

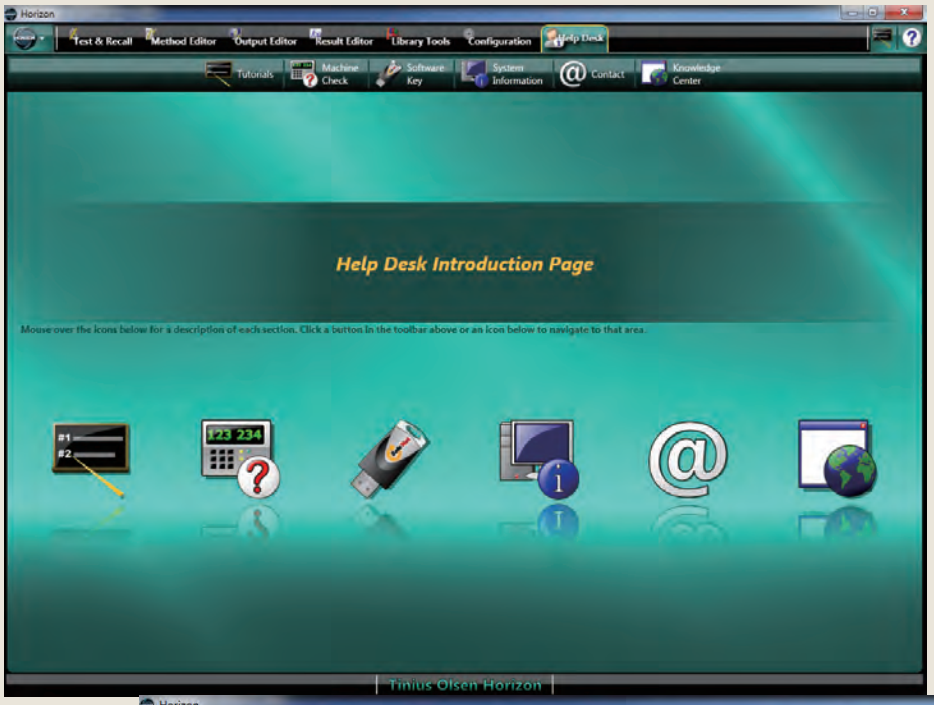


Fig. 12.
Help Desk launch page. Here you can see the access to the on-disk / on-line tutorials, details of the program key, and emailable access to our manned Help Desk.

Fig 13.
As an additional resource, you can also link directly to our application-based microsites which feature an Ask-The-Expert forum where users can ask questions of our market and application technologists.

COMPUTER REQUIREMENTS

Hardware Requirements

o 2 GHz Pentium Dual Core or better
o 8 GB RAM
o Using multiple testing machines may require additional memory and/or a faster processor
o 32-bit systems are limited to a maximum of 4GB of which only 3.25GB is available due to system overheads
o 512 MB DirectX 10.0 capable video card or better
o 40 GB of available hard disk space
o RS232 Serial Port
o 1 integrated serial port (not USB) where possible per testing machine
o If RS232 Serial Port unavailable, then 1 USB Serial Port with RS232/USB adapter is required (per machine)
o USB Port
o 1 USB Port for use with the software key
o Additional ports required if using RS232/USB adapters to communicate with machines
o Additional ports for required measuring devices, barcode scanners, etc.
o DVD-ROM Drive (to run installation DVD)
o Mouse or pointing device and keyboard supported by Windows
o Monitor
o 32-bit color
o 1600 x 900 (Widescreen) or higher
o If a Touchscreen is used, Windows 8 is best
o Windows compatible printer (for reporting capabilities)
o Windows compatible sound card and speakers (for audio playback)
o An active Internet connection (for TeamViewer use and Help Desk support)

Software Requirements

o The Horizon Software is designed for 32-bit & 64-bit operating systems running Windows Vista, Windows 7 or Windows 8. It does NOT support Windows XP and below. NOTE: A 64-bit Operating System is preferred for best performance.

o Internet Explorer 8 or higher

SDL Atlas is proud to have been appointed the sole and exclusive sales and service representative for the Tinius Olsen range of universal testing machines and ancillary equipment used in the worldwide textile and leather industries. For more information and to learn more about this fine equipment, contact your nearest SDL Atlas office or representative.

SDL ATLAS®
TEXTILE TESTING SOLUTIONS

SDL ATLAS LLC
3934 Airway Drive
Rock Hill, SC 29732-9200,USA
Telephone:+1 803 329 2110
Facsimile:+1 803 329 2133
Website:www.sdlatlas.com

SDL ATLAS LTD.
1/F(South-East)& 2F, Shenjian Mansion,
Central District (West), Hi-Tech Park,
Nanshan, Shenzhen, 518057, P.R.C.
Telephone:+86(755)2671 1168
Facsimile:+86(755)2671 1337
Website:WWW.sdlatlas.com

SDL ATLAS LTD.
3J,Garment Centre, 576 Castle
Peak Road,Kowloon,
Hong Kong.
Telephone:(852)3443 4888
Facsimile:(852)3443 4999
Website:www.sdlatlas.com