

Mecmesin

testing to perfection

S.I. Instruments
256 South Rd. Hilton
South Australia 5033
Ph (08) 8352 5511

info@si-instruments.com.au
www.si-instruments.com.au

VectorPro™ Lite

Force and Torque Data Acquisition Software



Release the potential of your force and torque test systems. Store test routines, plot data live, calculate key results, export data and print test reports.

New generation software for Mecmesin MultiTest-dV and Vortex-dV systems and digital instruments.

VectorPro™ Lite

VectorPro™ Lite is dedicated software for storing basic test routines for use with the Mecmesin *dV* range of force and torque test stands. It acquires data from force and torque sensors, performs calculations on the data, and passes data and results to export, file or report.

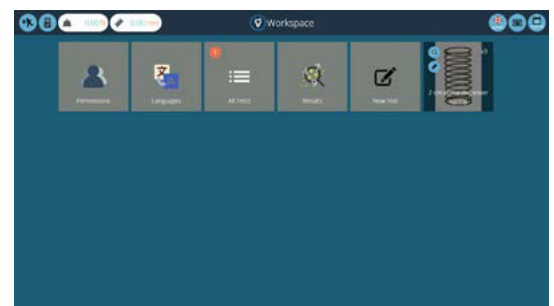
Operational sequences (or test routines) are easily constructed by drag and drop, and subsequent editing includes version control. Attributes, or tags, for any kind of test can be created and used flexibly in order to best describe and record their purpose, for clarity and ease of use.

VectorPro™ Lite can also be used with a range of Mecmesin digital instruments for load/torque vs time graphing, data acquisition, and results calculation.

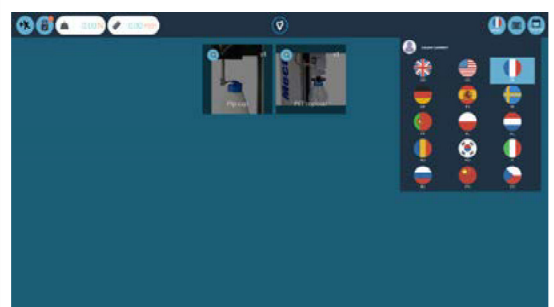


Key Features

- Drag and drop approach to test building
- Store, edit and recall any test sequence
- Real-time graph plotting
- Sophisticated graph examination and comparison tools
- 12 standard calculations with validation criteria
- immediate display of results
- automatic or manual export of raw data and/or results
- report writer to PDF
- user accounts and security
- personalised workspace, in language of choice
- design also ideal for touch screen PCs

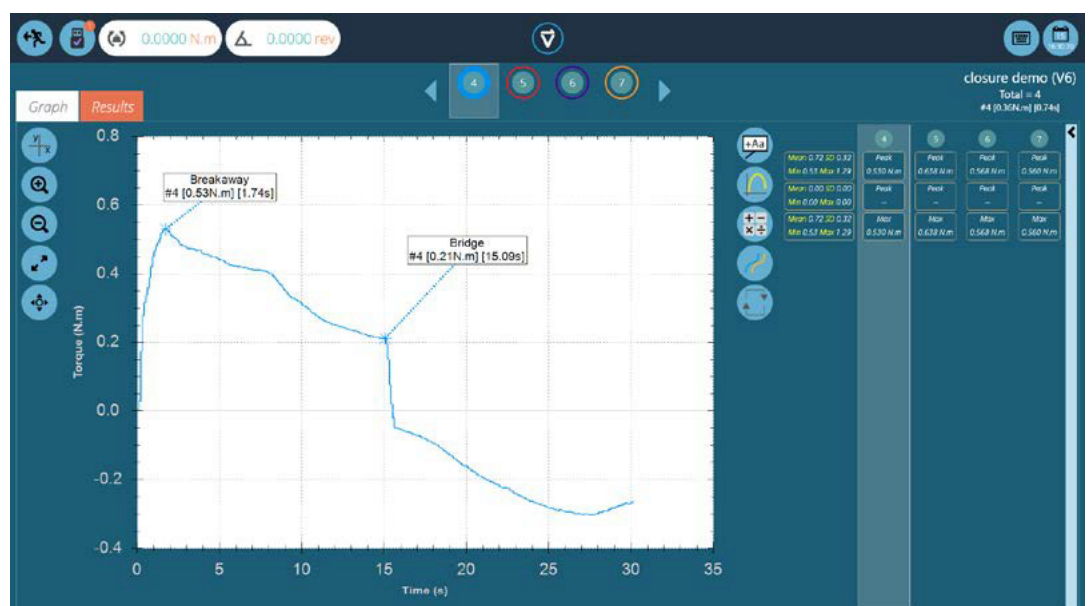


clean workspace... ▲



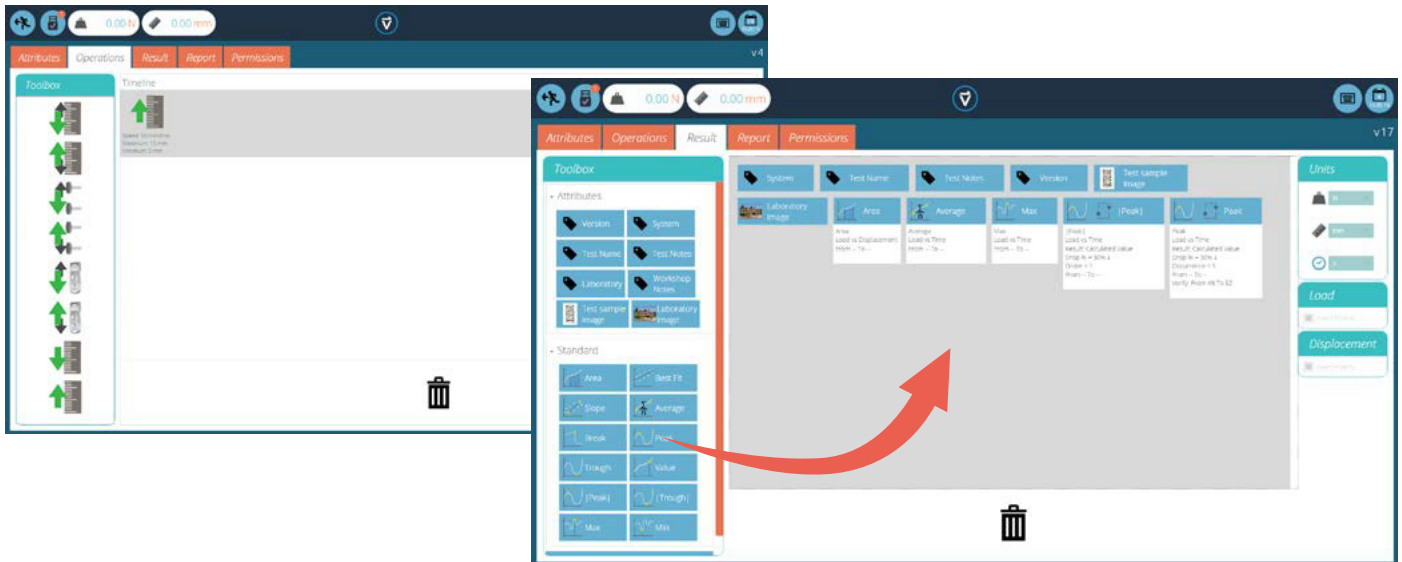
...customised for the user ▲

clear graphing tools ►



Drag and drop approach to test building

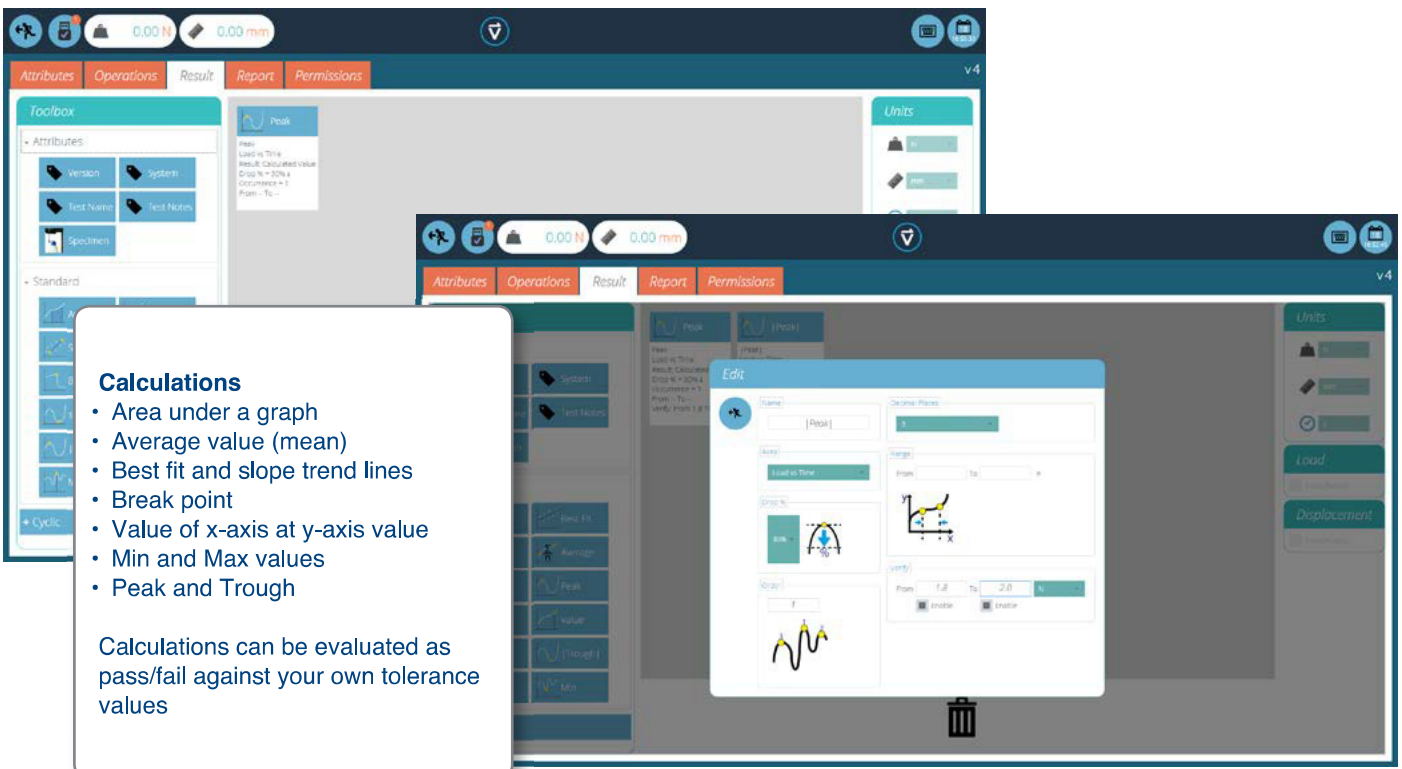
VectorPro Lite has a drag and drop approach to test building, to enable rapid and intuitive creation of operational sequences, calculation additions and report compiling. Create repeatable tests in moments and refine them as you go. Each test profile has full version tracking and results storage, along with customisable test summary information in the form of images, labels and notes.



Store, edit and recall any test sequence

A complete version history of every test profile is retained. Profiles can be edited, uploaded and run, results viewed and reported on, according to permissions granted for each user. This adds security but also makes it simpler for the regular repeat user.

Add calculations with validation criteria



Real-time graph plotting of tests

View tests as they run, with instant calculation or pass/fail results. Switch axes, zoom in, pan across, examine data point values, and offset sample traces for clarity and comparison. Any results can be re-viewed at any time.



Results handling

- Compare the plots of tested samples and add spot calculations not included in the test profile.
- Select out the samples you want to compare, and adjust calculation parameters temporarily or to save.
- Export raw data, or results, to delimited or Excel files, email a table of results. Create a report of results, graphs and notes to print or save as PDF.

raw-Loopedextensionsprings(V2)-sample-1.csv...

Time (s)	Load (N)	Displacement (mm)
0.0	0.041	
0.035	0.089	
0.065	0.131	
0.089	0.186	
0.125	0.250	
0.167	0.321	
0.203	0.376	
0.239	0.430	
0.275	0.513	
0.317	0.566	
0.353	0.623	
0.383	0.674	
0.413	0.723	
0.443	0.779	
0.479	0.834	
0.509	0.873	
0.533	0.911	
0.557	0.991	
0.605	1.043	
0.635	1.106	
0.677	1.181	
0.719	1.242	
0.755	1.322	
0.803	1.369	
0.833	1.409	
0.857	1.459	
0.887	1.499	
0.911	1.539	
0.935	1.579	
0.959	1.652	
1.001	1.752	
1.061	1.822	
1.103	1.892	
1.145	1.95	
1.181	1.96	
1.205	1.96	
1.229	4.206	
1.253	4.210	
1.277	4.216	
1.307	4.220	
1.331	4.233	
1.412	5.241	
1.457	5.247	
1.493	5.252	
1.523	5.257	
1.553	5.264	
1.595	5.270	

results-20160126-130247.csv - Notepad

Sample	Area(N.mm)	First Peak(N)	Last Peak(N)
#1	1678.26	38.60	37.55
#2	1566.60	36.10	35.25
#3	1413.70	32.70	31.60
#4	1649.78	38.30	37.35
#5	1612.60	37.40	37.10
#6	1501.47	34.95	34.45
#7	1482.30	34.60	34.35
#8	1612.88	36.55	35.85

Export

Text Excel Email Report

Automatic Export

Enable OFF Overwrite OFF Row ON

Delimiter TAB

Export Filename results

C:\ProgramData\Wipac\VectorPro\reports

Test Name: 5 cycle 20 mm PE Foam Recovery

Test Notes: Compression recovery test

Results

Sample	Area(N.mm)	First Peak(N)	Last Peak(N)
#1	1678.26	38.60	37.55
#2	1566.60	36.10	35.25
#3	1413.70	32.70	31.60
#4	1649.78	38.30	37.35
#5	1612.60	37.40	37.10
#6	1501.47	34.95	34.45
#7	1482.30	34.60	34.35
#8	1612.88	36.55	35.85

Total = 8

Load (N)

Time (s)

Software PC requirements	Units of measurement	Data output formats
<ul style="list-style-type: none"> Windows® 7 and above 4 Gb RAM 2 GHz dual-core processor Full HD 1920 × 1080 display 2 free USB ports 	Linear speed <i>mm/min, in/min</i> Angular speed <i>rev/min, rev/sec, deg/min, deg/sec</i> Time <i>min, sec</i> Displacement <i>mm, in</i> Angle <i>degrees, revolutions</i> Force <i>N, mN, kgf, gf, lbf, ozf</i> Torque <i>N.m, N.cm, mN.m, kgf.m, kgf.cm, gf.cm, lbf.ft, lbf.in, ozf.in</i>	Export ASCII to .csv, .xlsx Report to .pdf Interfaces with Microsoft Outlook 2010 and above, Excel 2007 and above

Affordable testing with Mecmesin systems

Using VectorPro™ Lite with Mecmesin systems and instruments provides truly affordable solutions to many test requirements. The versatility of the MultiTest-dV range of force testers, and the Vortex-dV torque tester are fully realised when test parameters can be recalled and uploaded, full test data acquired, graphed and stored, and defined calculations consistently applied in real time. Test result reports with full test notes complete the efficiency of combining systems and software.

► With VectorPro Lite ... turn a motorised test stand into a professional system



For some tests with Mecmesin digital instruments, plotting force or torque against time reveals essential sample characteristics, even though a displacement or angle axis is not possible. By connecting these devices to a PC with VectorPro Lite, you add live graphing and standardised calculations for immediate examination, comparison and analysis, and print or save reports with test annotations.



VectorPro Lite is designed for use with the following:

Instruments		Systems	
Force	Torque	Force	Torque
Advanced Force Gauge (AFG) Basic Force Gauge (BFG) Advanced Force and Torque Indicator (AFTI) Compact Force Gauge (CFG+)	Tornado Orbis AFTI	MultiTest-dV range	Vortex-dV

For all interface cables required, see datasheet 431-267.

Mecmesin - a world leader in affordable force and torque testing solutions

Since 1977, Mecmesin has assisted thousands of companies achieve enhanced quality control in design and production. The Mecmesin brand represents excellence in accuracy, build, service, and value. In production centres and research labs worldwide, designers, engineers, operators, and quality managers endorse Mecmesin force and torque testing systems for their high performance across countless applications.

www.mecmesin.com



Algeria	India	Poland
Argentina	Indonesia	Portugal
Australia	Iran	Romania
Austria	Ireland	Russia
Bangladesh	Israel	Saudi Arabia
Belgium	Italy	Serbia
Brazil	Japan	Singapore
Bulgaria	Korea	Slovakia
Cambodia	Kosovo	Slovenia
Canada	Kuwait	South Africa
Chile	Laos	Spain
China	Latvia	Sri Lanka
Colombia	Lebanon	Sweden
Costa Rica	Lithuania	Switzerland
Croatia	Macedonia	Syria
Czech Republic	Malaysia	Taiwan
Denmark	Mexico	Thailand
Ecuador	Morocco	Tunisia
Egypt	Myanmar	Turkey
Estonia	Netherlands	UAE
Finland	New Zealand	UK
France	Norway	Uruguay
Germany	Paraguay	USA
Greece	Peru	Vietnam
Hungary	Philippines	

The Mecmesin global distribution network guarantees your testing solution is rapidly delivered and efficiently serviced, wherever you are.



FS 58553

Mecmesin reserves the right to alter equipment specifications without prior notice. E&OE

S.I. Instruments
256 South Rd. Hilton
South Australia 5033
Ph (08) 8352 5511

info@si-instruments.com.au
www.si-instruments.com.au

DISTRIBUTOR STAMP

Head Office - UK Mecmesin Limited

w: www.mecmesin.com
e: sales@mecmesin.com

North America Mecmesin Corporation

w: www.mecmesincorp.com
e: info@mecmesincorp.com

France Mecmesin France

w: www.mecmesin.fr
e: contact@mecmesin.fr

Asia Mecmesin Asia Co., Ltd

w: www.mecmesinasia.com
e: sales@mecmesinasia.com

Germany Mecmesin GmbH

w: www.mecmesin.de
e: info@mecmesin.de

China Mecmesin (Shanghai) Pte Ltd

w: www.mecmesin.cn
e: sales@mecmesin.cn