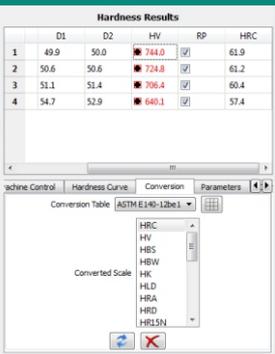


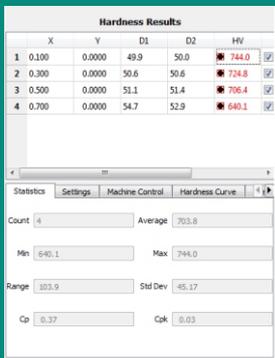
- **TRUEMET VIDAS 1.0:** The Basic version comes with a USB camera and the measurement software, it applies to almost all Vickers hardness machine with a camera port.
- **TRUEMET VIDAS 2.0:** This version of software comes with a feature of Auto Measurement and system automatically measures the indentation.
- **TRUEMET VIDAS 3.0:** This version of software comes with a feature of Auto Measurement and also receive the command of digital x-y micrometer.
- **TRUEMET VIDAS 4.0:** This is the Turret Control version which is capable of setting parameters and commanding the operations of the turret of the hardness machine via RS232 communication port and system automatically measure the indentation in single click.
- **TRUEMET VIDAS 5.0:** This is the Semi-automatic version which is supplied with a motorized XY stage. The software allows user to set indentation pattern and with a single click it automatically test and measure multiple points. Also the software provides the function in automatically scanning sample edges for locating test points in reference to sample edges.
- **TRUEMET VIDAS 6.0:** This is Full Automatic version provides the function in auto-focusing by raising/lowering the sample stage at each test point, if the hardness machine is equipped with a sample Z axis motor



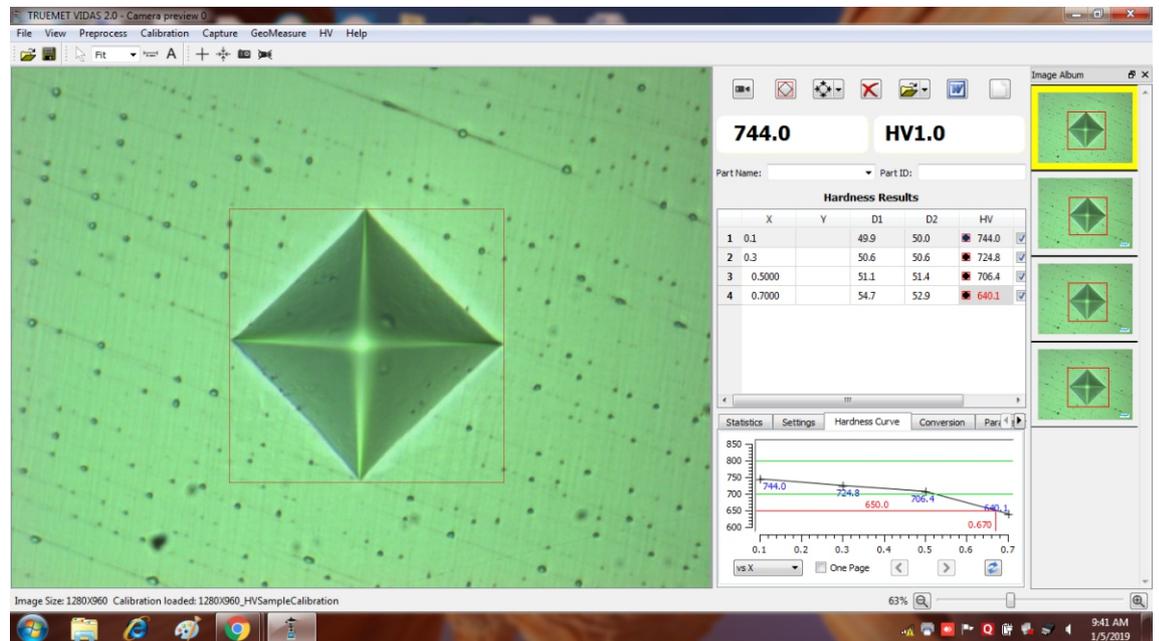
Hardness Curve Graph View



Hardness Conversion, Cylindrical Correction, and Validation View



Statistical Calculation View



Main Features

- **Auto measurement:** With a single click, system automatically measures the indentation and gives the vickers hardness value
- **Hardness curve graph:** System automatically plots the hardness value vs. test point depth graph and calculates the effective case depth.
- **Hardness conversion, Cylindrical correction, and validation:** The measured Vickers Hardness value can be converted to other hardness scales such as HBW, HK, HRC, HRB etc. HV can be corrected for non-planar surfaces. System calculates the minimum sample thickness, minimum test point to sample edge distance etc for validation.
- **Statistical Calculation:** Statistical values such as average, min, max, standard deviation, Cp, Cpk etc are automatically generated
- **Automatic sample contour scan and indentation pattern set up:** This feature is limited to VIDAS 5.0 and VIDAS 6.0 versions only, system can automatically scan the sample contour and generate test points by defined patterns.
- **Working Data saving and retrieval:** Software can save and retrieve the hardness measurement data and images in data files.
- **Hardness Report:** With a mouse click, the system automatically generates a Microsoft Word or Excel document to reports which contains the measurement data, statistical information, the measurement images and the hardness Curve graph. User may enter own additional information for reporting.

Standard Features

- **Image/Video capturing:** Software can capture and save images/videos on DirectShow compatible USB cameras.
- **Geometry measurement:** System provides the tools to draw and measure common geometric shapes such as lines, angles, rectangles, arcs/circles, ellipses, polygons, point-to-line, and point-to-arc etc. With a mouse click, system generates a Word document for the geometry measurements.
- **Calibration:** For measurement applications, the camera can be calibrated with a stage micrometer ruler or grid.
- **Calibration management:** Software allows save/manage multiple calibrations as per machine's magnification.

Image processing: Software provides a rich set of image processing tools for advanced applications, which include adjusting Brightness, Contrast, Gamma, and Histogram Level, and the Sharpen, Smooth, Invert, and Convert to Grey functions. On grey scale images, system provides various advanced tools in filtering and finding edges, as well as some standard tools in morphological operations such as open, close, dilation, erosion, and flood fill etc.

TRUEMET

Delhi

Micro Vickers Hardness (HV) Test Results

Customers	Bhatt Metal			Date							
Part Name				Part No.							
Heat No.				Lot No.							
Upper Limit	800.0			Lower Limit			700.0				
Sample Cyl./Sph. Diam.	0.00 mm			Test Load			1000g				
Test Results											
Sr	X	Y	D1	D2	Hardness	Sr	X	Y	D1	D2	Hardness
	mm	mm	um	um	HV		mm	mm	um	um	HV
1	0.100		49.9	50.0	744.0						
2	0.300		50.6	50.6	724.8						
3	0.500		51.1	51.4	706.4						
4	0.700		54.7	52.9	640.1						
Case Hardness (HV)			650.0			Case Depth			0.670 mm		
Indent Images											
Statistics											
Maximum	744.0			Minimum			640.1				
Average	703.8			Std. Dev.			45.2				
Cp	0.37			Cpk			0.03				

Test Report View