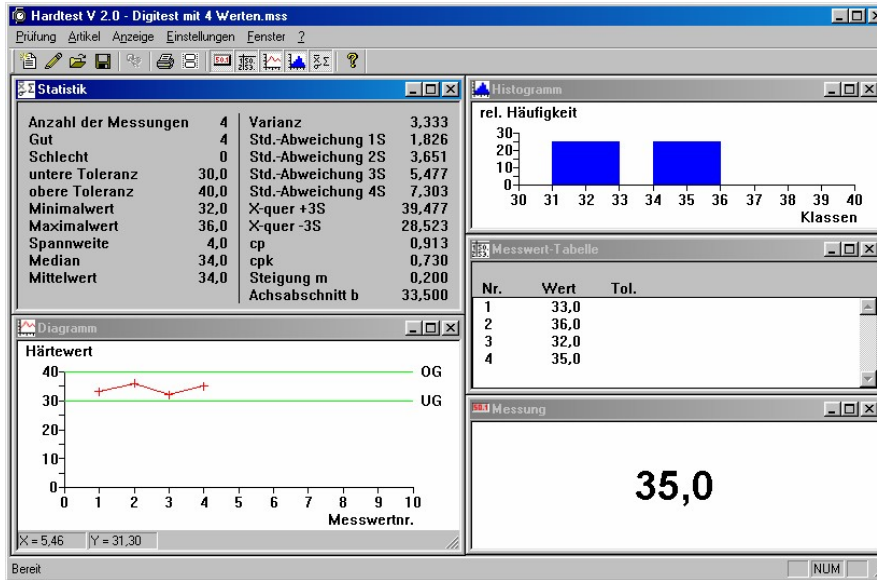


HARDTEST V 2.0

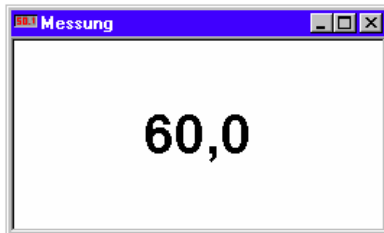
Hardness Testing with Bareiss-Hardness Testers...



by the Test- and Evaluation Programme HARDTEST V 2.0

Applicable for all electronic Bareiss-Hardness Testers with data output.

The programme contains all functions which are needed for a smooth test procedure:



Nr.	Wert	Tol.
1	80,6	
2	82,1	
3	85,5	
4	81,7	
5	82,1	
6	82,3	
7	48,7	<
8	51,9	
9	55,4	

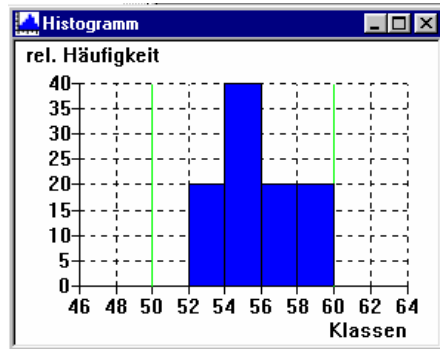
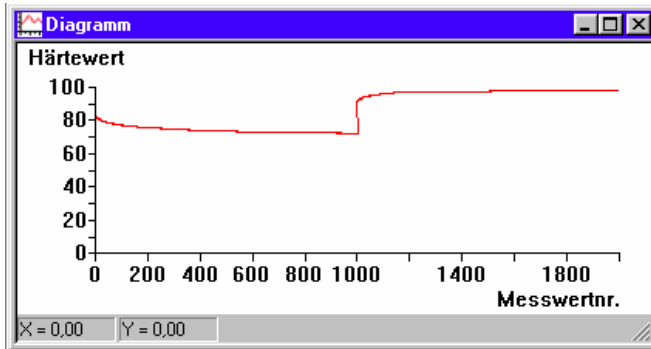
Reading of the actual hardness value and all hardness values of a series of measurements. Marked values (single or multiple) can be exported to other programmes (spreadsheet analysis, databank, etc). Marked values can be erased as well. Measured values out of tolerance limits will be marked by (<, >).

For special applications an average- or median value can be calculated from max. 99 several single measurements. This value is stored in the memory.

All important statistical values on a single view. In addition the slope and the section of the axis of a regression line from a series of measurements can be calculated. The reading of single statistical values can be switched on or off.

Parameter	Value	Parameter	Value
Anzahl der Messungen	13	Varianz	0,749
Gut	11	Std.-Abweichung 1S	0,866
Schlecht	2	Std.-Abweichung 2S	1,731
untere Toleranz	50,0	Std.-Abweichung 3S	2,597
obere Toleranz	60,0	Std.-Abweichung 4S	3,463
Minimalwert	49,8	Std.-Abweichung 5S	4,328
Maximalwert	52,3	Std.-Abweichung 6S	5,194
Spannweite	2,5	X-quer +3S	53,351
Median	50,2	X-quer -3S	48,157
Mittelwert	50,8	cp	1,925
		cpk	0,290
		Steigung m	0,078
		Achsabschnitt b	50,208

HARDTEST V 2.0



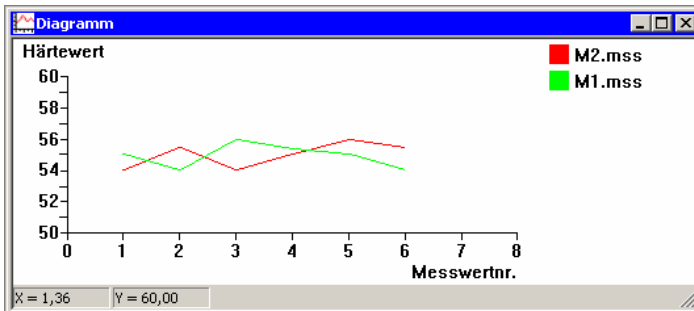
The series of measurements are shown as diagram and histogram.

For better sight any range of the diagram can be zoomed.

In the diagram the most important statistical values can be plotted (e.g. tolerance limits, average-, median value, regression line, etc.). The colours for diagram can be selected freely.

Within the diagram the actual X-/Y-position of the cursor of the mouse is read in the status line.

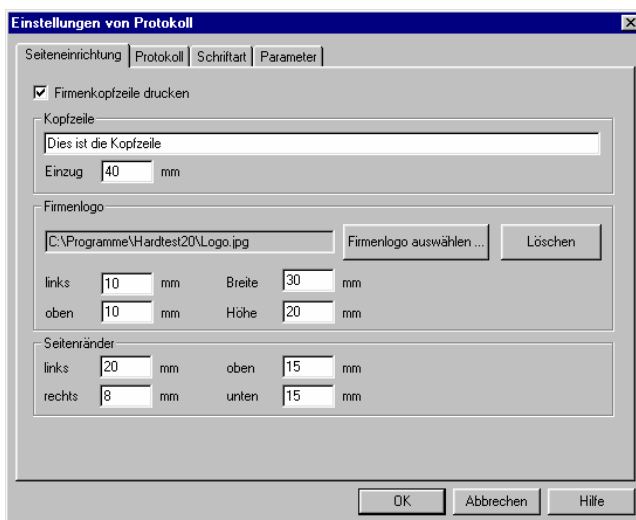
With the corresponding measuring devices hysteresis tests can be done (elastical characteristics under load and after the load is taken off).



For better comparison of single series of measurements they can be loaded as multiple diagrams.

Reticule lines can be drawn in addition (separated horizontally and vertically)
The labelling of the axis can be selected freely.

For histogram the number of classes above or below tolerance limits can be enlarged for indication of measured values which are out of the tolerance limits.



The test protocol can be defined freely (for print-out of etiquette, too) and can be checked by side view before it is printed out.

In the protocol the following inputs can be selected freely:

- company's logo
- dimension of diagram and histogram
- font and type size
- test parameters for protocol head

