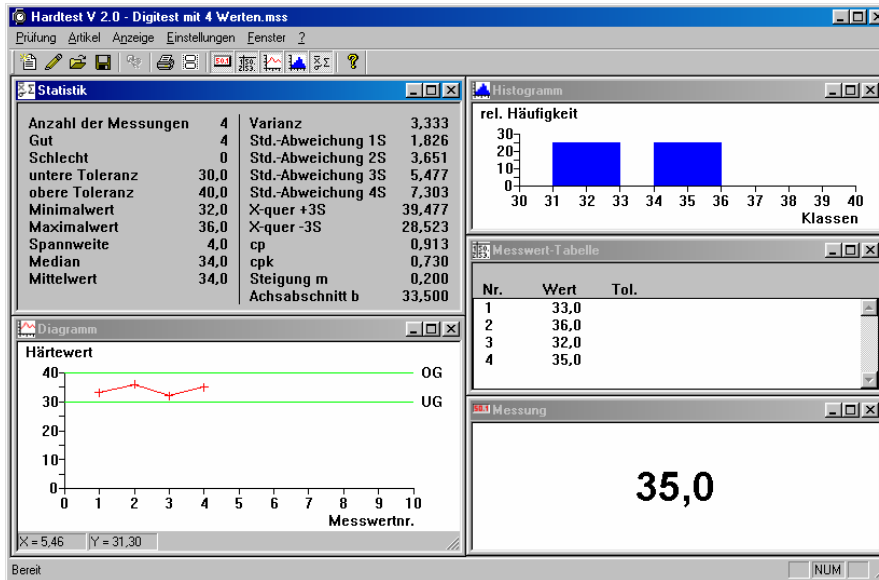


# HARDTEST V 2.0

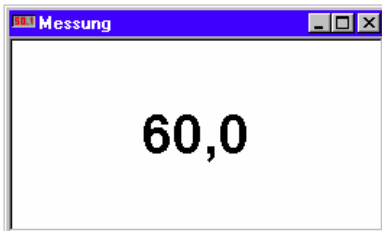
## Hardness tests with Bareiss-hardness testers...



## The test- and evaluation programme HARDTEST V 2.0

can be used for all electronic Bareiss hardness testers with serial interface.

The programme has got functions for a perfect test run:



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	

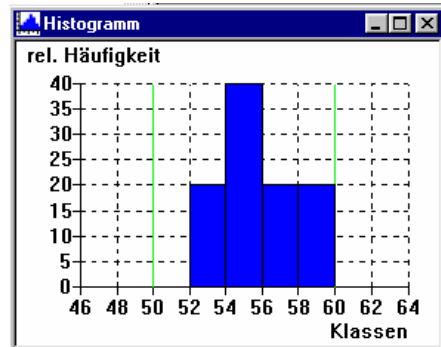
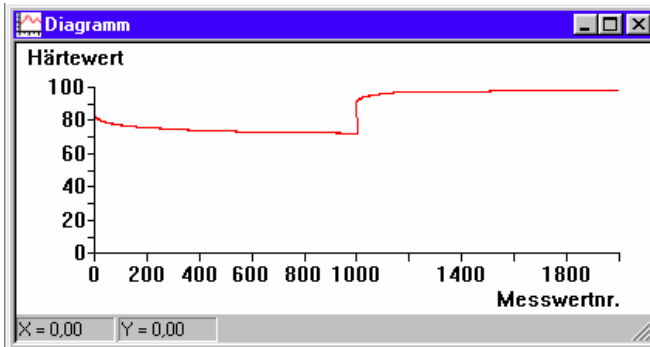
Indication of the actual hardness value and of all hardness values in a series of measurements. Single or several marked values can be exported to other programmes (e.g. spread sheet, data base ...). In the same way, the marked values can be deleted. Measured values, which are out of the tolerances, are marked. (<, >).

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

All important statistical values are shown in a single view. In addition you can determine the slope and the sector of the axis of a regression line from a series of measurements. The reading of the single statistical values can be activated or deactivated.

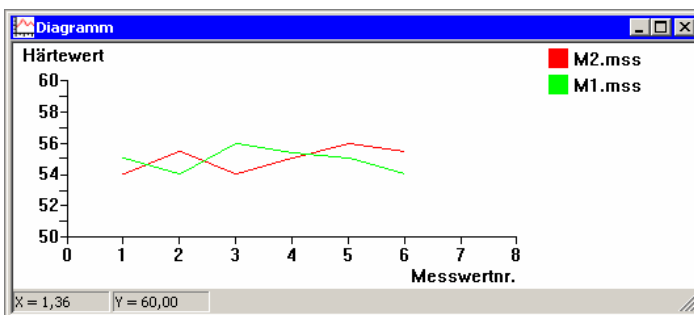
Statistik			
Anzahl der Messungen	13	Varianz	0,749
Gut	11	Std.-Abweichung 1S	0,866
Schlecht	2	Std.-Abweichung 2S	1,731
untere Toleranz	50,0	Std.-Abweichung 3S	2,597
obere Toleranz	60,0	Std.-Abweichung 4S	3,463
Minimalwert	49,8	Std.-Abweichung 5S	4,328
Maximalwert	52,3	Std.-Abweichung 6S	5,194
Spannweite	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 will be graphically indicated in a diagram and histogram. For better viewing any range of the diagram can be zoomed. In the diagram the most important statistical values can be drawn in (e.g. tolerance limits, average-, median value, regression line, etc.). The colours of the diagram indication can be selected freely. In the diagram the actual X/Y-position is shown in the status line.

By the corresponding hardness testers you can make hysteresis measurements (loading and recovery characteristics of a material), too.



For better comparison of several series of measurements, they can be loaded as a multilevel diagram.

In addition cross lines can be drawn in (separated for horizontal and vertical). The inscription of the axes can be selected freely.

In the histogram the number of classes can be enlarged above or below for the indication of the measured values which are out of tolerances. The tolerance limits are drawn in as a vertical line.

The test protocol can be defined freely (for printing of etiquettes, of course, too). The protocol can be controlled by page view. A company's logo can be printed in the protocol.

The size of the diagram and histogram can be defined freely. The kind of type and height of type can be defined freely.

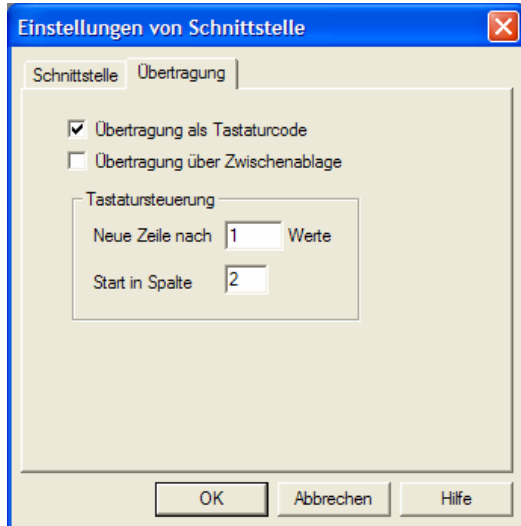
In the same way the test parameters, which should be printed-out, can be selected, too.



# HARDTEST V 2.0

Especially for the easy processing of the measured values to other applications (spread sheet, text processing, data base ...) the transmission function has been integrated.

In the input dialog the corresponding inputs have to be made. For data transmission, the corresponding application has to have the input focus (has to be the active application). The transmission to a spread sheet is very comfortable, because the columns and vertical spacing can be defined by the parameters of the keyboard control.



	A	B
1	Messwert-Nr.	Härte
2		1 45,2
3		2 45,8
4		3 45,1
5		

Further functions:

- 32-Bit program supports "long" file names and is for Windows 95, Windows 98, Windows 2000, Windows XP, and Windows Vista.
- Toolbar for the direct access to the most important commands of menu.
- Detailed help-information.
- Diagram with automatic scaling. Reading of the x/y-position of the mouse dial in the toolbar.
- Supports Bareiss digi test (query of the instrument settings and start of the measurement per soft key or function key).
- Memorizing of the series of measurements on a hard disc or floppy disc
- Besides the program language German, English and French are already integrated. Optionally an additional language can be implemented.
- Series of measurements can be interrupted and carried on later.
- The processing of series of measurements in other programs (spread sheet, data base...) is possible.

Further information by:

Bareiss Prüfgerätebau GmbH  
Breiteweg 1  
89610 Oberdischingen  
Tel. 07305 / 9642-0  
Fax. 07305 / 9642-22  
Email: info@bareiss.de

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Steinbachstraße 133  
A 3001 Mauerbach  
Austria  
T+43 (0) 1 577 24 18  
F+43 (0) 1 577 24 18 15  
office@cm-tech.at  
www.cm-tech.at

Test- and Evaluation programme