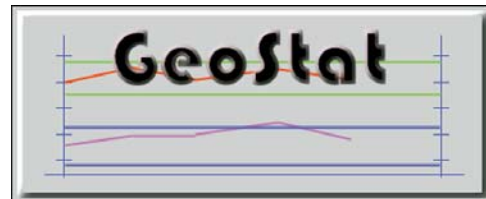Helmel Engineering Products, Inc.
6520 Lockport Road
Niagara Falls, NY 14305
(716) 297-8644
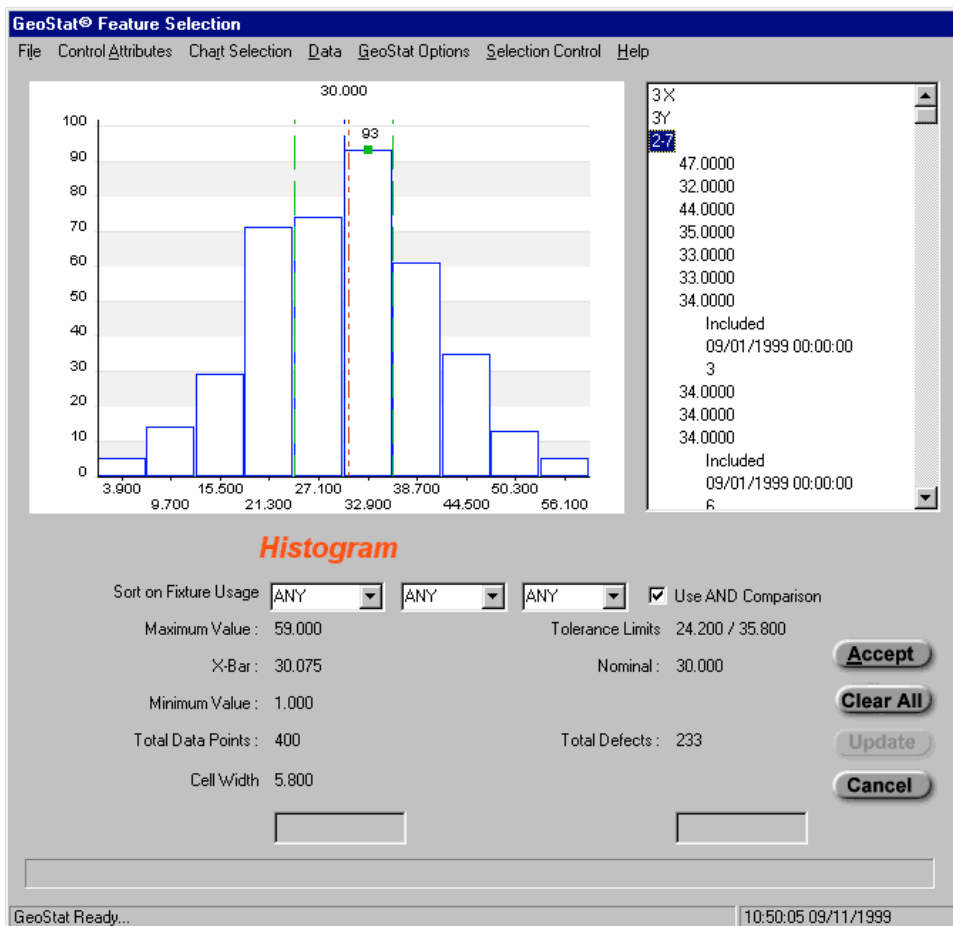(716) 297-9405 fax
www.helmel.com

The GeoStat Interactive is an integral part of Geomet dimensional software. Activated by an access code, GeoStat works interactively with Geomet during part inspections to record data. When this data is recorded, you can review the following data instantly:

Histogram	X-Bar Sigma
Moving Average	Moving Range
Range	Raw Data
X-Bar	

Each chart can be controlled with date rages, fixture identifications and lot size changes. Entering of manual data is permitted to add variables that are not inspected with the CMM during a part program.

The interactive GeoStat program does not require any configuring on file handling or printing controls. Geomet accesses the various charts directly during a part program run to print out the latest available data

GeoStat FAQ's

1 Description

The GeoStat Program

GeoStat Interactive is an integral part of Geomet dimensional software. Activated by an access code, GeoStat works interactively with Geomet during part inspections to record data.

Does GeoStat come already active in Geomet?

No. GeoStat is part of the native code for all Geomet levels, but requires a purchased code to activate it.

What is the cost of GeoStat?

$1,290.00 for one unit. Discounts do apply for a multiple site license.

Which levels of Geomet does GeoStat work with?

GeoStat works with Geomet 301, 101 and requires no activation of additional options. For Geomet Junior, you will be required to have Programming option activated.

What version of Geomet is required?

GeoStat is part of Geomet. All customers will be upgraded to v.4.00 when purchasing GeoStat.

Can GeoStat be used outside Geomet?

No. GeoStat is part of Geomet as one program.

Will GeoStat be available as a separate program?

Yes. GeoStat Manager a companion to GeoStat will be a separate program capable of working with the existing GeoStat database with expanded features. The release date for GeoStat Manager has not been established.

How do you activate GeoStat?

Starting with Geomet v.1.05, all you do is enter the authorization code inside Geomet to make GeoStat active.

How does GeoStat work with part inspections?

Geomet provides a direct connection to the GeoStat database through the use of Feature Tagging. Geomet will create the file names and databases when one does not exist.

What charts are available in GeoStat?

Xbar, Range, Xbar Sigma, Histogram, Moving Average, Moving Range, Raw Data.

Does GeoStat require the user to open databases?

No. One unique feature of GeoStat is that it works seamlessly with the current part inspection program. By pressing the <F12> function key, GeoStat will open all data and simultaneously update all charts with the current data.

Can GeoStat have measured results entered manually?

Yes. You can create new data records and attach measurement results to them.

What kind of data does GeoStat accept?

A GeoStat measurement data point contains the measurement, time/date, operator, serial numbers, and up to three fixtures IDs for each measurement value.

What are Fixtures?

Fixtures are available to provide filtering capabilities for the incoming measured values. For example you may want to track all production made in CNC1 using fixture 1a. This eliminates mixing production from different machining cells.

Can GeoStat allow data to be imported and exported?

Yes. GeoStat can accept data created in applications such as spreadsheets and word processors. Exporting is accomplished of either the entire database or just a selected record.

Does GeoStat provide subgroup rolling?

Yes. GeoStat can be setup to review only the last x subgroups for all charts. This is configurable independently for each record.

Does GeoStat provide other filters?

Yes. GeoStat can filter the measurement values for fixtures, date ranges, and subgroup lookbacks.

What makes GeoStat unique?

We believe its seamless integration with Geomet makes it the most intuitive system on the market. The operator is not required to handle files or create templates for capturing data. All you do is activate it with your part inspection and it shows up. No more complicated than requesting to measure a circle.

GeoStat© Data Characteristics
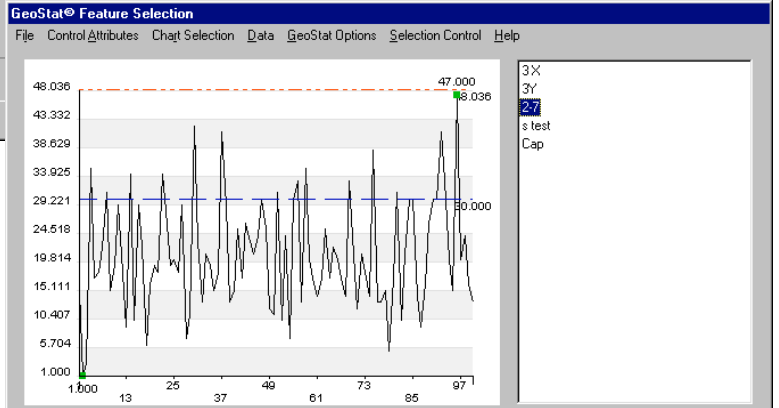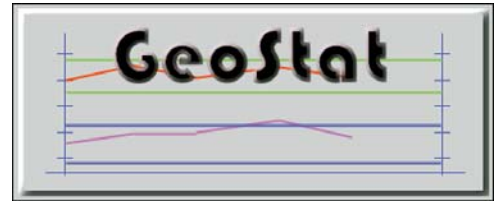
Characteristic Name: 2-7

Feature Chacteristics

Nominal Value	(+) Plus	(-) minus
30.000	5.800	-5.800

Lot Size: 4   Subgroup Size: 4

Upper Tolerance Limit: 21.300
Lower Tolerance Limit: 9.700

OK
Cancel
Clear Data

GeoStat© Feature Selection

File   Control Attributes   Chart Selection   Data   GeoStat Options   Selection Control   Help

3X
3Y
2-7
s test
Cap

Range Chart

Sort on Fixture Usage   ANY   ANY   ANY   ☑ Use AND Comparison

Data Points Used : 1 - 400   Upper Control Limit: 48.036
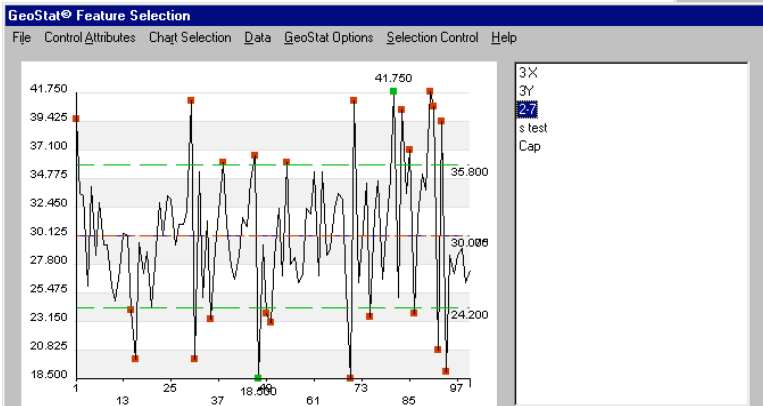Number of Subgroups: 100   Maximum Range: 47.000
Subgroup Size: 4   Average Range: 20.760
                                    Standard Deviation: 9.092

Accept
Clear All
Update
Cancel

10:41:45 09/11/1999

GeoStat© Feature Selection

File   Control Attributes   Chart Selection   Data   GeoStat Options   Selection Control   Help

3X
3Y
2-7
s test
Cap

X-Bar Control

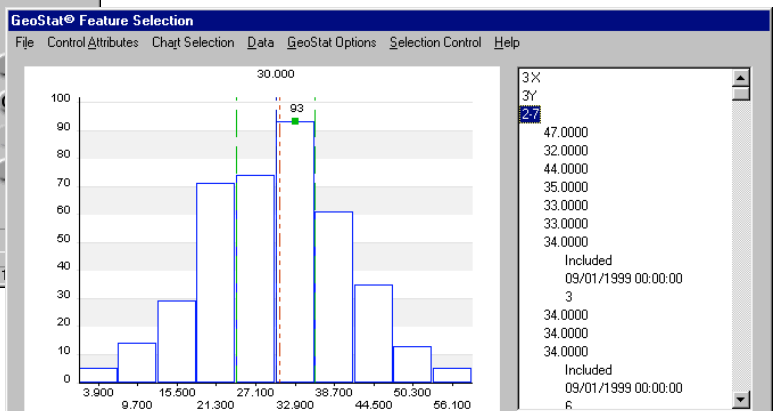Sort on Fixture Usage   ANY   ANY   ANY   ☑ Use AND Comparison

Data Points Used : 1 - 400   X-Bar : 30.075
Total Number of Subgroups: 100   Standard Deviation: 5.172
Subgroup Size: 4
Total Defects : 24

GeoStat Ready...   10:40:25 09/11/...

GeoStat© Feature Selection

File   Control Attributes   Chart Selection   Data   GeoStat Options   Selection Control   Help

3X
3Y
2-7
47.0000
32.0000
44.0000
35.0000
33.0000
33.0000
34.0000
Included
09/01/1999 00:00:00
3
34.0000
34.0000
34.0000
Included
09/01/1999 00:00:00
6

Histogram

Sort on Fixture Usage   ANY   ANY   ANY   ☑ Use AND Comparison

Maximum Value : 59.000   Tolerance Limits 24.200 / 35.800
X-Bar : 30.075   Nominal : 30.000
Minimum Value : 1.000
Total Data Points : 400   Total Defects : 233
Cell Width 5.800

Accept
Clear All
Update
Cancel

GeoStat Ready...   10:50:05 09/11/1999