

**NILPA CONSULTANCY**

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2/B, Shobhana Apartment,  
K. V. Road, Off W. S. Road,  
Dahisar (E), Mumbai - 400 068.

## SPECIFICATIONS :-

<b>Model No:</b>	<b>SV-CMM-442</b>	<b>SV-CMM-673</b>	<b>SV-CMM-8104</b>
Measuring Range	400 X 400 X 250	600 X 700 X 300	800 X 1000 X 400
Software	QC-5300 -CNC/ MSU-3D-PRO		
Resolution	0.001 / 0.0005 mm		
Linear Accuracy	U1 3+L/200 um U3 5+L/200 um	U1 4+L/200 um U3 6+L/1000 um	U1 5+L/200 um U3 7+L/1000 um
Repeatability	+/- (0.003mm)		
Optional Hardware	PC P4 + 17" TFT Monitor		
Operation	Manual or CNC		
Base Platform & Column	High Precision Granite		
Platform load capacity	1000 kg		
Power Supply	415-430 V + /- 5%, 50/60 HZ		
Touch Probe	Renishaw MCP / MH-20 /MH20i / PH10T / PH10M		
Transmission	Air Bearing in 3 axis		
Z-axis Balance	Counter Weight		
Vision	1/3" High Resolution CCD Camera (Optional)		
Magnification	Optical Magnification 0.7x - 4.5x		
Motion Control through Joystick	Optional		



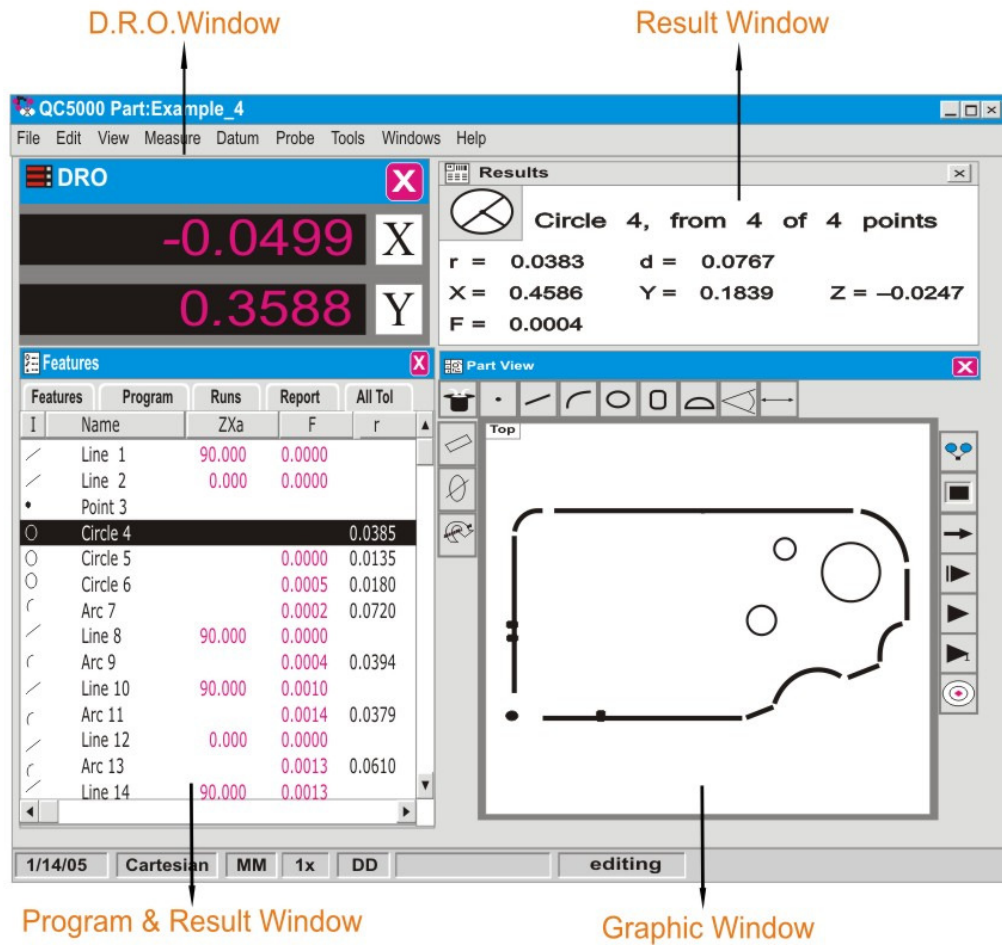
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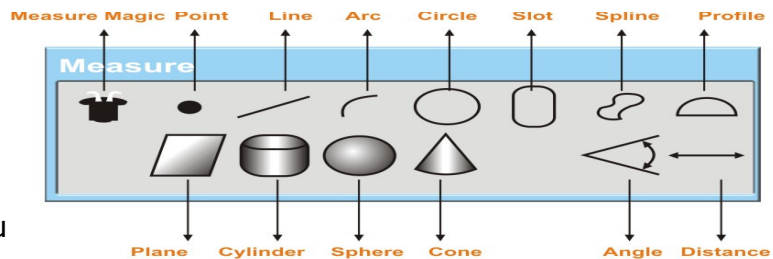
## Measuring Software QC-5000

### Software Desktop



### Measurement Toolbar

One click options to measure all types of 2D features. With patented feature Measure Magic probe any feature, enter points and with a click QC-5000 knows without you telling it whether you are measuring circle, arc, or another shape.



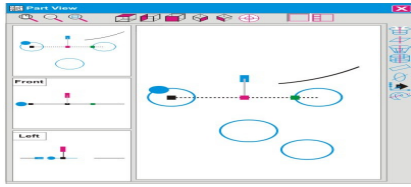
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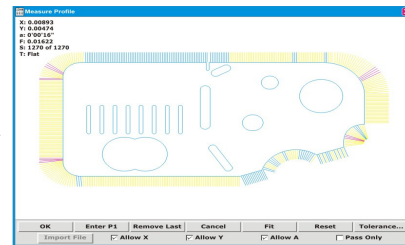
## Graphical Representation



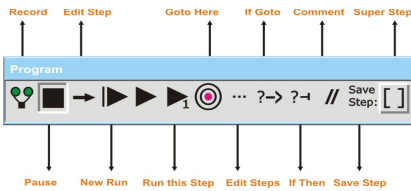
Graphical Representation in all the possible views-Top, Left, Front, South east etc. The graph is fully interactive for fast constructions and relationships. For example, to measure the distance between two circles, just select the distance function, then click on two circles in part view window. There's your answer. It's that simple.

## Feature stamp for deviation analysis

Along with the shape and numerical data about the features, this software will also tell you point uses to construct the feature with tolerance markings for each of the points



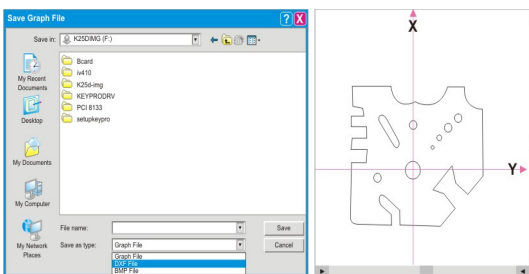
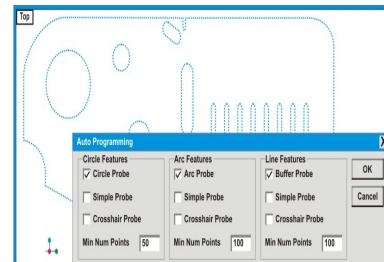
## Programming



Simplify difficult and repetitive measurement sequences with an easy to use and robust programming interface. Programming steps are in English language which are easy to understand and edit. Edit any step, add any step, use normal conditional statement like if-then, else-then & lots more.

## Auto programming from DXF File

Import CAD files to automatically create part programs. This eliminates the necessity of using the actual workpiece to program and thereby eliminates long teaching sessions for every new part



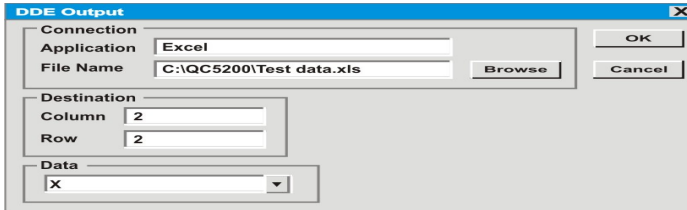
## Data Management - Export & Import

Internal Communication tools enable operators to record, store and analyze the measurement data. Operators can also export data to online database for offline analysis by quality control specialists. Export options include .dxf, .csb, .igs, .tdf, MS-Excel, MS-Access & SPC. Import options include .dxf, .igs, .asc, .sac

## Tolerance types

Support more than 15 types of tolerance settings with display in color coded pass and fail output. If there's a part or feature that doesn't measure up, you will know it immediately. Not only are all out of tolerance features displayed in red, but an audio alert signals if what you are measuring fails to match the specifications.

- LOCATION
- SIZE
- FORM
- ORIENTATION
- Bidirectional
- Length
- Straightness
- Parallelism
- True position
- Radius
- Roundness
- Perpendicularity
- MMC
- Angle
- Flatness
- RUNOUT
- LMC
- Width
- Cylindrically
- Circular
- Concentricity



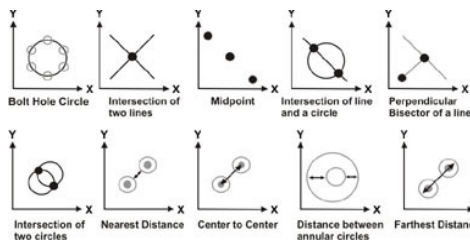
## Dynamic Data Exchange

Dynamic Data Exchange facilities Real time data transfer to various applications like Microsoft Excel, MS Access and other making real time SPC analysis possible.

## Report generation

Fully customizable report format with color coded Pass/Fail for tolerance parts. The flexibility of this report generator will not only help you to conform to your ISO specifications, but will enable you to send data directly to an ASCII file or SPC program that you may already have. Customize results field for special measurement needs and complex calculations by embedding formulas (e.g. Automatically calculate area or circumference dimensions with each circle measurement).

Features	Runs	AllTol	Program																		
I	I	Name	Nominal/Zor	Actual	Dev	Lo Lim	Hi Lim	--	+++	Bonus/Ref	A										
		Line 1																			
		Line 2																			
		Point 3																			
		Arc 4	TP 0.0100	0.0000	0.0000	0.0000	0.0100	I	I		0.0000										
		Line 5	TP 0.0457	0.0457	0.0000	0.0440	0.0470	I	I												
		Arc 6	f 0.0010	0.0004	0.0004	0.0000	0.0010	I	I												
		Arc 7	f 0.0010	0.0000	0.0000	0.0000	0.0010	I	I												
		Circle 8	f 0.0010	0.0006	0.0006	0.0000	0.0010	I	I												
		Circle 9	f 0.0010	0.0001	0.0001	0.0000	0.0010	I	I												



## Construction capabilities

Select two or more features to create intersections or constructions. Reduces operator effort by eliminating confusing construction menus.