



CENTROID™

DP-4 CNC Touch Probe

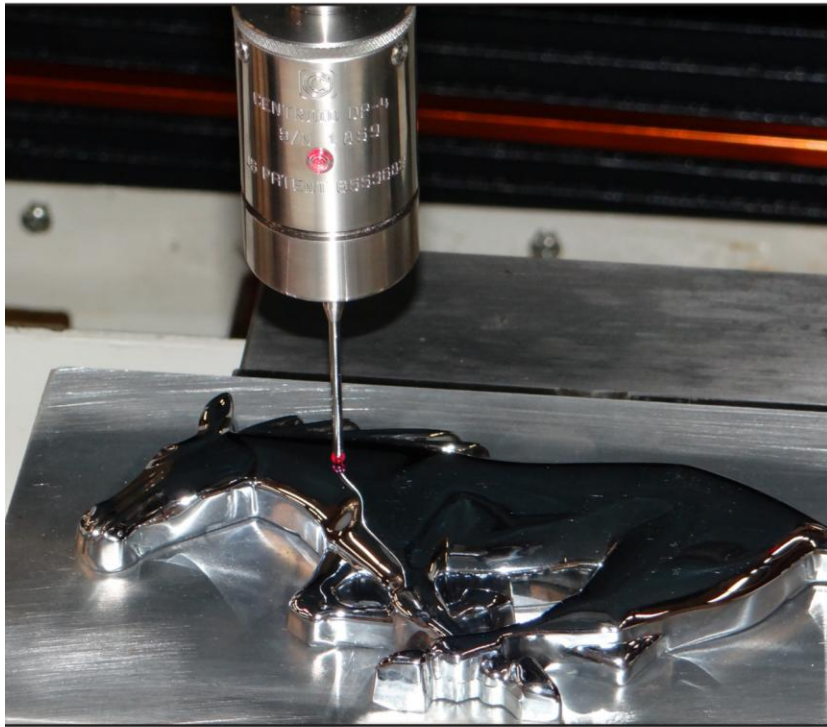
Accurate & Reliable alternative to expensive CNC Touch Probes

- Unidirectional Repeatability .00004" (1 micron)
- Part Probing, Fixture Offsets, & Digitizing
- State of the art Kinematic design
- Mounts to any 1/2" tool holder
- Customizable mount for special applications
- Small diameter body 1.25" (31.8 mm)
- Cable communication for reliability
- Interchangeable Styli
- Works with most any CNC control or DRO with a probe input and probe software

Factory direct sales
Machines in Motion, Inc.
714 528-7061
sales@machinesinmotion.com

For use with: Machining Centers, Lathes, Turning Centers, Routers, CMMs, Horizontals, Gantry, Bed Mills, Knee Mills & more.

The CENTROID DP-4 CNC Touch probe is designed for Probing (part setup, zero location setup, and CMM type location and measurement of part geometry), component/fixture/work piece setup, inspection and 3D or 2D digitizing/surfacing. The DP-4 CNC Touch probe is made in the USA with patented technology. Manufactured of stainless steel the DP-4's mechanism requires only a feather's touch to trigger. The DP-4's low trigger force allows the use of small styli for maximum detail and accuracy. Commonly used on Milling machines, Machining centers, Routers and Turning centers. The DP-4 is a state of the art mechanical design and is compatible with most CNC controls and DRO's that have a PLC input for probes and probe software. The CENTROID DP-4 is reliable and is an affordable alternative to Renishaw or Marposs touch probes. Previously sold exclusively for use with a CENTROID CNC control, now the DP-4 is available for use with other CNC controls and DRO's such as Fagor, Haas, Fanuc, Fadal, Mazak, Mach3 and many more.



- Copy and reproduce complex 3D parts from originals
- Automatic Job & Work Coordinate System setup
- Measure parts before they are removed from the machine
- Eliminate the need for expensive indicators and fixtures
- More accurate and repeatable than manual part setup
- Increase throughput on the machine
- Reduce rework and scrap, shorten lead times

- Increase machine tool automation and reduce human error
- Automatic Vise/Fixture setup, no alignment needed
- Works in conjunction with Coordinate System Rotation.
- Finds diameters, locations, angles & features
- Automatic part feature location and setup, great for repairs
- Much faster than setting up parts manually
- No batteries, no lighting restrictions, no RF crosstalk, just reliable easy plug-and-play operation

DP-4 Specifications

Probing directions	X +/- , Y +/- , Z -
Unidirectional repeatability	0.00004" (1 um)
Probe deflection force (X,Y)	3 ounce w/ 1.693" L (43mm) stylus
Probe deflection force (Z)	9 ounce minimum
Probe body diameter and length	D=1.25" (31.8mm), L=2.2" (56.4mm)
Mounting shank diameter	D=0.5" (12.7mm), L=1.47" (37.2mm)
Stylus thread mount	M3
Over travel limit angle (X,Y)	+/- 10 degrees from vertical
Over travel limit (Z-)	0.15 inch (3.8mm) maximum
U.S Patent #	6553682



Kit contains: DP-4 probe, manual, external probe cable, internal control cable*, 2.5 mm stylus, 5 mm stylus, tools, 1" standard bore gauge.



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Contact us at Machines in Motion, Inc.
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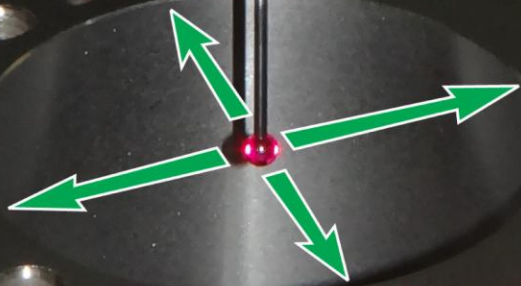
CNC Probing

Part/Fixture Probing, Inspection, Positioning, and Alignment



CNC Part and Fixture Probing Software for Machine Tools

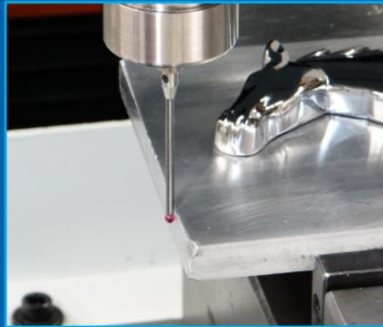
- Simple push button, menu driven Probing Cycles
- Eliminate edge finders, center finders, bore gauges, gauge blocks and complex calculations
- No G or M-codes to memorize
- Drastically reduce setup time and errors
- Inspect parts before removal from the machine
- Align fixtures & parts to the machine in seconds
- Set part zero locations (WCS) automatically
- Rotate Coordinate System to match part or vise
- Available on CENTROID CNC equipped machine tools



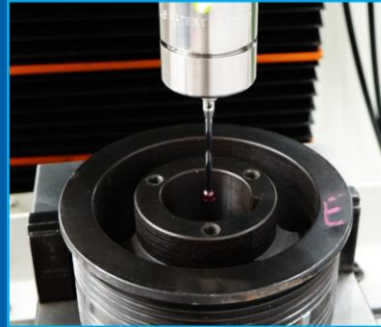
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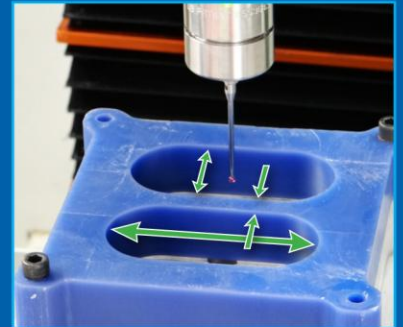
Seamlessly integrated into the control CENTROID CNC Probing is easy to use. Graphical Probing cycle selection with no G or M-codes to memorize, there is no learning curve. Pick the cycle required and the probe does the rest. More accurate than setting up machines by hand, Probing eliminates human error, specialty tools and complex calculations. Improve the accuracy of machine setups while decreasing setup time. Set part zero locations (WCS) accurately in seconds, locate off vise, fixture, or stock. Measure part features before, during and after machining and verify dimensions before removing from machine. Use in conjunction with Coordinate System Rotation to align the machine to parts or fixtures, which is particularly useful for hard to fixture parts. Available on both the M400 & M39 CNC controls.



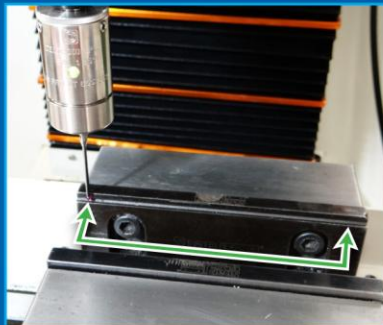
Outside Corner



Bore



Slot & Web



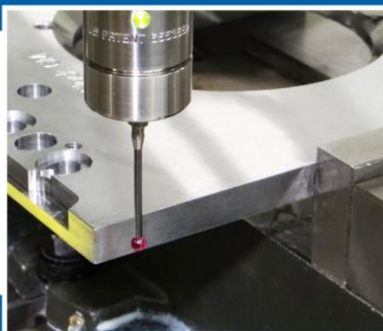
Vise Alignment



Inside Corner



Boss



Automatic Probing cycles for every task. Inside corner, Outside corner, Bore (diameter and center location), Boss (diameter and center locations), Slot (width and center location), Web (width and center location), Single edge (X,Y,&Z). Find angles and set them square to the machine coordinate system. Produce better parts with less effort, Probing has endless applications, you'll wonder how you every lived without this tool.

Part #

12431 CNC Probing w/ DP-7 probe (DP-7 = solid state design)

10405 CNC Probing w/ DP-4 probe (DP-4 = kinematic design)



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