



**CENTROID™**

**DP-4** CNC Touch Probe

**Accurate & Reliable alternative to expensive CNC Touch Probes**

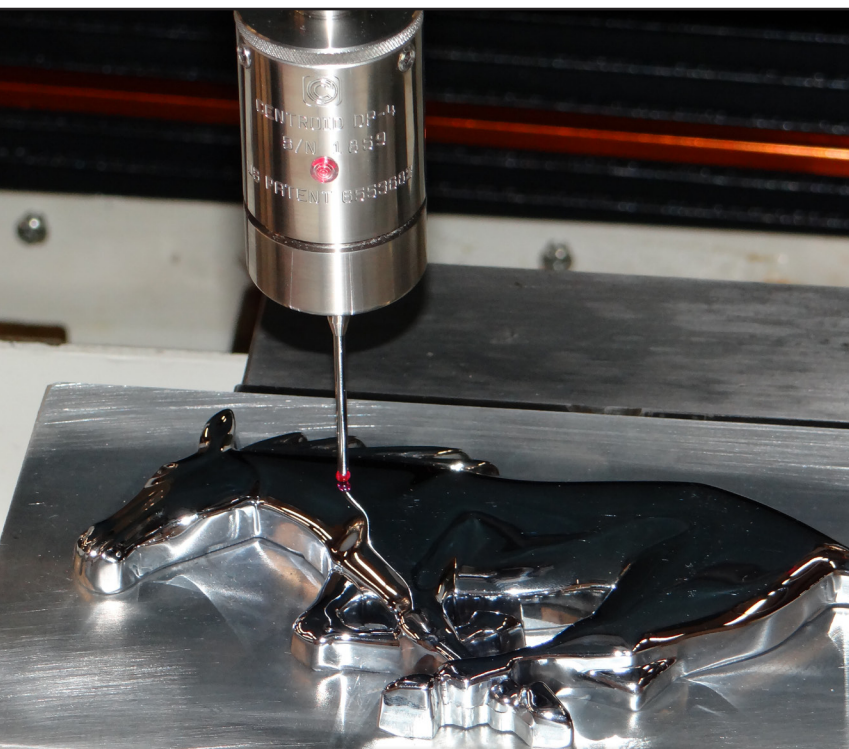
- Unidirectional Repeatability .00004" (1 micron)
- Part Probing, Fixture Offsets, & Digitizing
- State of the art Kinematic design
- Mounts to any 1/2" tool holder
- Customizable mount for special applications
- Small diameter body 1.25" (31.8 mm)
- Cable communication for reliability
- Interchangeable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



**For use with: Machining Centers, Lathes, Turning Centers, Routers, CMMs, Horizontals, Gantries, 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

### 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

- 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



### CENTROID

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