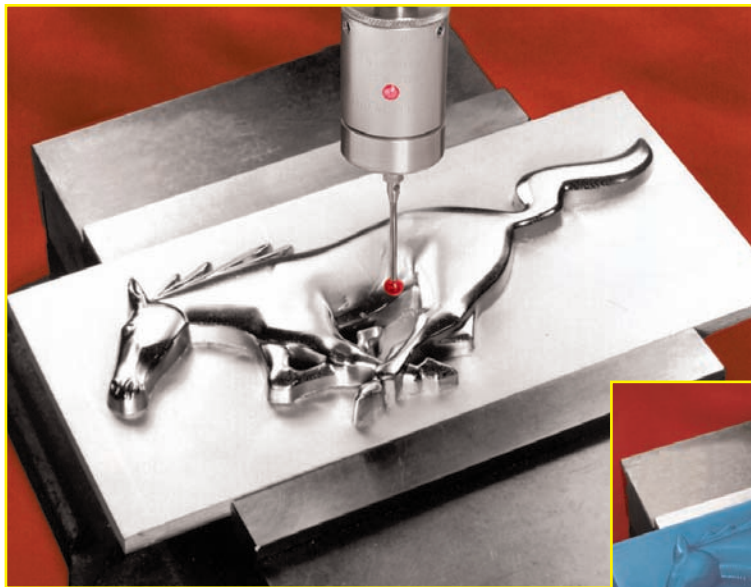




# CENTROID™

## Digitizing & Probing with the DP-4 / DP-4D

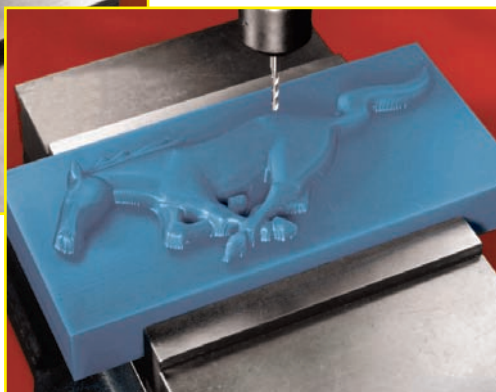
### Copy It! . . .



▲ Complex Surface Being Digitized with Centroid's DP-4 All-Surface Probe

### DP-4 all surface probe

Introduced in 2000, our state-of-the-art touch probe features new technology that makes it more accurate and more reliable than competing probes on the market. With its all-surface ruby-tipped stylus, the DP-4 can be used with any rigid material, so you can digitize plastics, metals, hardwoods, or any material that can withstand a few psi of pressure from the probe tip.



### . . . Cut It!

◀ Exact Duplicate Cut without Programming

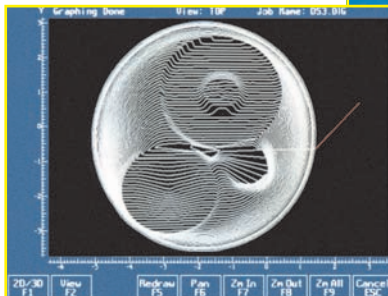
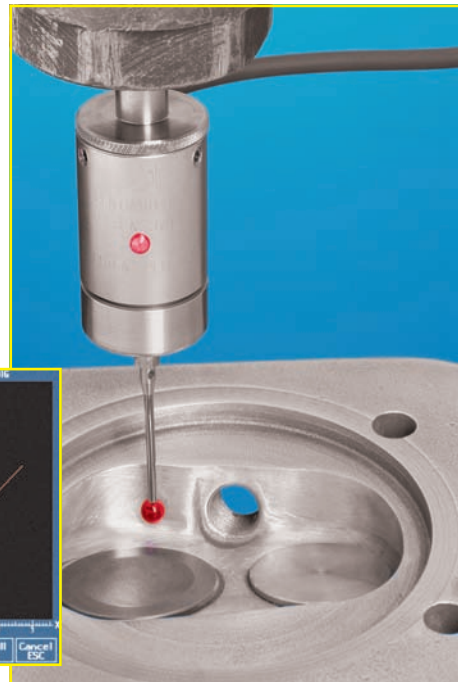
## 3D Milling Made Easy!

Copy any basic, free-form, or artistic part with ease. Automatically create complex shapes and patterns on any Centroid control equipped with Digitizing.

Start the digitizing cycle and walk away; the control does the rest. Whether you want a duplicate of a simple flange or a complex artistic mold or die, you can copy it hands free. No programming is necessary. All you need is an existing part or model. Copy and then cut the part on the same machine; no extra computer is required. Data is stored as a part program right on the control; there's no need to drip feed from another computer. It's excellent for mold, electrode, and pattern making.

Centroid's Digitizing is easy because it eliminates cumbersome steps required by other control manufacturers. Centroid controls also have the memory and processing speed to handle large files required by Digitizing.

- Automatic 3D part program creation
- Radial Digitizing for pockets and cavities
- Grid Digitizing for contoured surfaces
- Multiple areas can be linked together to make one continuous surface
- Graphic menus for fast, easy setup
- See graphics of digitized part
- CAD/CAM ready - edit part data in CAD/CAM



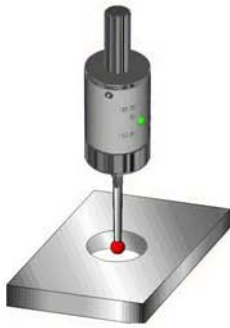
Instant Graphics of Digitized Cylinder Head

Digitizing a Cylinder Head

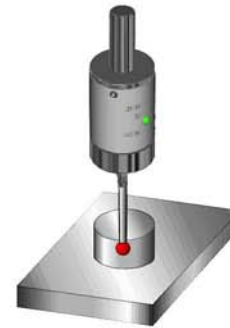
## Probing Cycles

*Can You Find the Center of a Bore in 10 Seconds or Less? Probing Can!*

Bore



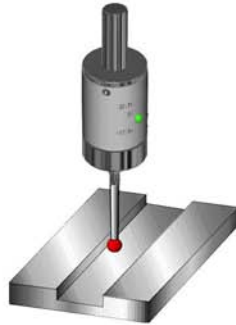
Boss



Probing cycles reduce setup time. Automatically find the locations of bores, bosses, slots and webs. Locate corners and edges of your part or fixture. Easy operation with graphical menus show you how.



Single Axis



Slot



Web



Inside/Outside Corner

## Frequently Asked Questions

**Q. Do I Need Another Computer to Store Data and Drip Feed it Back Into the Control?**

**A. No.** Unlike other controls, Centroid does not require another computer to digitize. Digitizing eliminates the difficult drip feed (DNC) technique used on other controls because it stores all the digitized files on the control.

**Q. How Accurate is Digitizing?**

**A. You can specify a digitizing resolution as fine as 0.0001"!** The accuracy of your reproduced part depends only on the condition of your machine.

**Q. Do I Need Another Computer to Manipulate the Digitized Data Before I Can Machine the Part?**

**A. No.** Once Digitizing is done, load the tool and cut the part. You can even view the toolpath before you cut the part.

**Q. Can I Use Digitizing to Reverse-Engineer a Part?**

**A. With Digitizing, you can export the digitized data into most CAM systems as a drawing.**



DP-4 Digitizing Package...(#10770).....includes complete Mold Magic Software, 2D & 3D Digitizing Software and more  
 DP-4 Probing Package.....(#10405).....includes DP-4 Probe, two stylus set, Ringmaster Gauge, 6' cord, tool kit and more  
 DP-4D Probing Package...(#10960).....includes DP-4D Probe, three stylus set with 4 stylus extensions, 6' cord, 10' coiled extension cord, tool kit, and more

Distributor

**Available from:**  
**Machines in Motion Inc.**  
**(877) 733-5500 toll free**  
**cnc-machine-controls.com**  
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