

Find success with our Integrated Vision System (IVS).

The Datron IVS (Integrated Vision System) is housed in a rugged metal chassis for industrial applications. It is mounted to the Z-axis of our machining centers for locating fiducials with great accuracy. This industrial camera includes a lighting system that can be configured to meet the diverse needs of our customers. The Datron IVS includes fiducial identification software. As the camera moves to a pre-defined location or window, it identifies fiducials within a 20mm area and feeds offset data into the machine's Microsoft Windows-based control software.

What this means for you.

Any edge-to-fiducial irregularities are fed into the machining data and compensated for dynamically before the machining begins. Further, by locating multiple fiducials the machine can automatically adjust for skew or image-to-edge variance. In instances where a fiducial is not found, the program is paused and the operator is alerted and given the option to abort or retry.

Features:

- > Camera & light ring
- > Images and cross-hairs on display
- > Live pictures
- > Teaching of new fiducials
- > Captures & store pictures/fiducials
- > Image calibration
- > Adjustment of brightness, gain and contrast (manual and automatic)
- > Display window 20 x 16mm
- > Operating distance approx. 100mm
- > Resolution 1280 x 1024 pixels
- > Accuracy +/- .02mm (depending on quality of fiducials)
- > Software based on HALCON VisionTools®



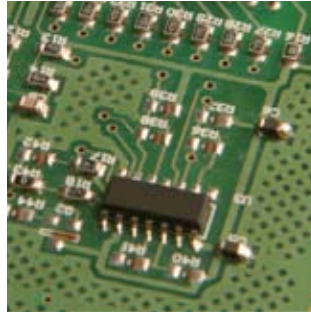
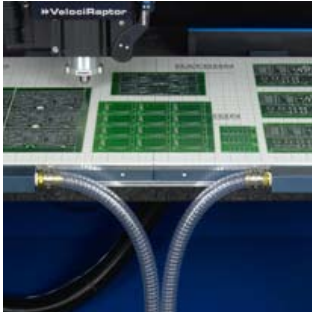
Vision System for High Speed Applications:

- > Ideal for locating fiducials on Printed Circuit Boards (PCB)
- > Data is fed into controller for dynamic compensation
- > Automatically adjusts for skew and image-to-edge variance
- > Teaching of new fiducials yields compatibility/flexibility
- > Reduce improper setups

Accuracy. Flexibility. Quality. Get the picture?

Call toll free 888.262.2833

WARNING: Utilizing the power and flexibility of the **Datron IVS** may be hazardous to your competition.



Trace cut and depanelize with great accuracy.

With Datron IVS, set up is easy and fast. The operator places the part on the bed — perhaps using our proprietary VacuMate™ workholding or a fixture with pins. The pins insure that the part is on the fixture properly. The camera then scans for fiducials, edges and images and feeds the data into Datron's Microsoft® Windows®-based control software. Irregularities are compensated for dynamically before the machining starts ... insuring quality and uniformity. If the camera determines that the part is not positioned in the right ball park (perhaps because the operator has not seated the fixture in the correct location on the machining table) then the program automatically pauses and asks the operator to abort or retry.



Quick setup & changeover with integrated workholding.

A range of integrated workholding options are available for Datron machines. A pneumatic clamping system allows for a quick setup that holds blanks securely. With our VacuMate™ (vacuum table) even parts with minimal surface area can be batch-milled from thin substrates and held in place during machining. Datron's lightweight Quick-Pallets™ use a beveled boss-in-cavity system to register parts in X, Y & Z for improved repeatability on jobs with frequent change-over.



Precision and control at your fingertips.

As the leader in CNC innovation, we know that just because our product is so complex doesn't mean our controller should be. After all, our job is to make your job easier ... and machine operators rely on Datron for agility and efficiency. Well, what could achieve efficiency better than a Windows® Control that provides information in a familiar, intuitive format?

Datron's Windows®-based Software provides ease-of-use while delivering robust functionality. Operators can view or edit programs during machining, run other software simultaneously as the machine is milling or download large files through a company network. Plus, they can remotely diagnose the machine or monitor the machine's activity through a standard Internet connection ... anytime, anyplace.

Enjoy the future of affordable high-speed, machining.

