# AC500 CONTROLLER

# Super easy part marking is at your fingertips.

The Automator line of dot peen marking systems offers a new level of ease and flexibility with the revolutionary AC500 controller. The AC500 features a 7" color touchscreen display for fast and easy programming, reliable Linux-based software, and 64MB of internal flash memory to store hundreds of marking patterns.

## UNIVERSAL CONTROL

The AC500 can be used with any size ADP marking head, and it can also be used to program marking systems made by other manufacturers. This makes it easy to create and manage marking patterns and files on multiple systems throughout your facility.

## EASY CONNECTIVITY

The AC500 offers broad connectivity with the standard serial, I/O, Ethernet, and USB ports, and the optional EtherNet/IP port. Easily connect to a wide variety of devices such as a PLC, host computer, start/stop control, or bar code scanner. The USB port is also used for easy file uploading and downloading, complete system backup, and installing software and firmware updates.

## FEATURES

- No PC or external software needed to program or operate the marking system

- Linux operating system is fast and reliable

- Flash memory safely stores files even in the event of a power failure

- Backup and transfer patterns, settings, statistics, and files with a USB flash drive

- Upload and use TrueType fonts (.ttf), .bmp and .dxf graphics, and .csv and .txt files to use in marking patterns

- Create custom date codes, shift codes, and universal or pattern-specific serial numbers

- View detailed Marking History, Fault History, and Statistics information

- Set passwords for supervisor or maintenance level access to prevent users from making unwanted changes

- Set custom X/Y work area dimensions and pin parking locations

- Use the jog feature to visually place the marking pin in the start position for a field

## EASY PROGRAMMING

Create marking patterns in minutes and use the new error-checking features to make sure you've got it right.  In a new marking pattern, fields are added step-by-step using text, lines, shapes, serial numbers, date and time codes, shift codes, .bmp and .dxf files, and 2D codes.  Patterns can also use variable data entered by the operator, retrieved from a lookup table, or obtained from a bar code scanner, host computer, or other external device.

Once a pattern is programmed and saved, the entire pattern can be previewed on the screen.  In preview mode, each field can be resized or repositioned for easy editing.  The cycle time for the marking pattern is displayed in this screen, and marking speed can be adjusted with a slider to fine tune the mark quality.
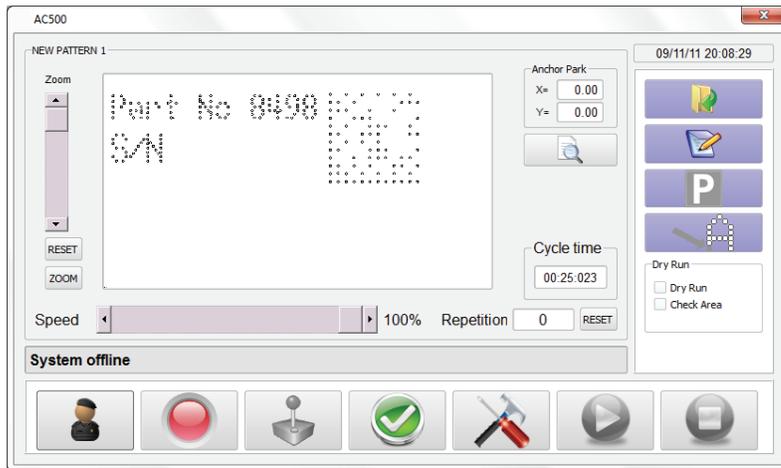


Use the Check Area option to see the marking pin move around the perimeter of the pattern you've created.

Simulate the marking of a pattern by activating the Dry Run option, where the marking pin moves through the entire pattern without firing the pneumatic valve.

## SPECIFICATIONS

| Dimensions | 9" W x 7.5" D x 4.3" H  |  230 x 191 x 110 mm |
|---|---|
| IP Rating | IP40 (tabletop) / IP61 (wall mounted) |
| Weight | 5 lbs (2.3 Kg) |
| Interface | Ethernet TCP/IP, I/O, RS-232, RS-485, and USB; optional EtherNet/IP |
| Memory | 64 MB internal memory |
| Input/Output | 12 input signals (6 dedicated) 6 output signals (2 dedicated) |
| Electric Supply | 100-240 VAC / 50-60 Hz |
| Languages | 34 available languages |

## VERSATILITY

The AC500 controller works with any size marking head, and systems can be configured for inline, benchtop, or portable marking to suit your application.  The AC500 software can also be installed on a PC for easy management of marking patterns and settings – just copy files to a USB flash drive and download to all your AC500 controllers via the USB drive.

## MARKING HEADS

| ADP2560 | 25mm x 60mm marking window |
|---|---|
| ADP25120 | 25mm x 120mm marking window |
| ADP5090 | 50mm x 90mm marking window |
| ADP120160 | 120mm x 160mm marking window |
| ADP300400 | 300mm x 400mm marking window |

## COMMUNICATION

Communicate with the AC500 via the serial or TCP/IP port using the Extended Communication Protocol or using Fieldbus protocols via the EtherNet/IP port.  An internal query lookup table stores variable information locally for use in marking patterns.



I/O          Ethernet TCP/IP     RS-232/RS-485     USB
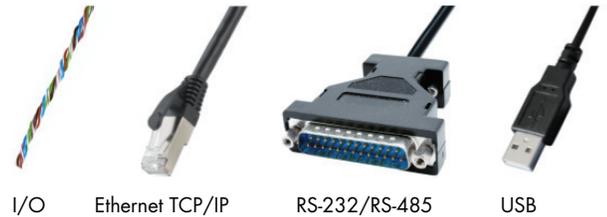
### Built-In EtherNet/IP

The AC500 is available with an integrated EtherNet/IP port and control card for use in automation networks.  Use the Rockwell Automation EtherNet/IP communication protocol to interface with compatible PLCs.



*AC500 shown with optional EtherNet/IP port on side.*