

Your CNC Evolution



EPW's "new" Mazak AJV-60/120 Double Column Machining Center with Creative Evolution CNC

A New Way To Compete

"A new machine with the travels and features we needed would have been out of our price range," says Phil Roth of EPW, Elkhart, Indiana. "We were able to buy a good used machine to meet our needs, rebuild it with the Creative Evolution CNC and new motor and drive system, all for a fraction the price of new. We met our need for new competitive capabilities without breaking the bank. This machine has lived up to and exceeded our expectations for speed, accuracy and reliability."

EPW is one of many companies who find unique value in customizing machines with the Creative Evolution CNC's powerful speed and features. The Mazak bridge mill is EPW's fourth machine to be fitted with the Creative Evolution CNC. Whether you own or are considering a small bench mill, or a large bridge mill, all milling machines run better with the Creative Evolution CNC.



Latest information about your Creative Evolution CNC Control:

- ◆ Support
- ◆ Service
- ◆ Retrofits
- ◆ New Machines

Strathclyde HS-500 Creates New Niche

Introduced late in 2001, Strathclyde's new model HS-500 is creating a whole new niche in the high speed machining market. Selling for under \$100,000 with the Creative Evolution CNC standard, this rigid machine excels at milling electrodes and hard steel alloys alike. Equipped standard with precision linear scales and 45,000 RPM spindle, the HS-500 rips through electrodes in a fraction the historic time taken on conventional CNC's. At its reasonable price, the HS-500 makes it practical to buy the latest in high-performance equipment without mortgaging the entire shop. With its advanced features for speed and accuracy, the HS-500 can open new avenues of business growth for you. Photo on page 3.



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Networking Your DOS CNC With Windows

While Windows can be a real advantage on your desktop, it can slow down your CNC a lot. The advantage that the Creative Evolution CNC's MS-DOS operating system gives us is speed.

Networking is another benefit of DOS. The Creative Evolution CNC can be easily networked with Windows computers, plus UNIX and Novell. In all cases, we can set up "logical drives," so that the network is always available to your Creative Evolution CNC. If you have network issues or concerns, talk to us! Your Creative Evolution CNC is simply the best for enterprise integration.

Backup Your Software For Security

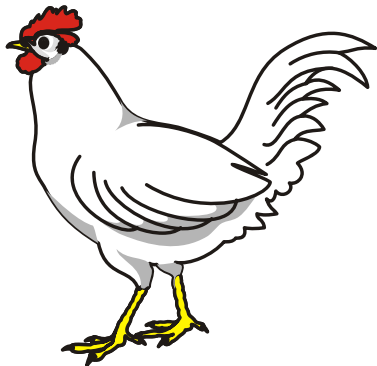
Are you maintaining a backup copy of your CNC software? Numerous files are customized for your machine to optimize performance. In the event of a hard drive failure or accidental data loss, a service call may be required if you don't maintain backups.

Backups are easy using XCOPY through your network. To copy all your CNC files from the c: drive onto your F: network drive:

```
XCOPY C:\CNC F:\CNC.BAK /S /V
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This will make a directory named "\CNC.BAK". If you have any troubles, please call us. Keep up on those backups!

Which Came First, The Chicken or The Egg?



In today's tough economic times, we often encounter business owners who are struggling to keep the doors open. Work is hard to find, prices are rock-bottom, and deliveries are near-impossible. So often they say "we won't be buying until things get busier." Other shops are busy. True, backlogs aren't what they used to be, but with technology making it practical to deliver new molds in weeks instead of months, and customer demands for faster time to market, backlogs aren't ever going to return to the good old days!

The solution to compete today is new, fast productivity tools. Faster equipment can finish your job faster and cheaper, yet better-looking and more accurate! High Speed Machining is how to compete in the new millennium!

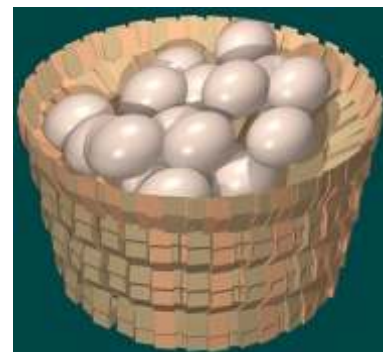
The challenge is how to afford the tools to get busy. The tough times have depleted much of our purchasing power. At Creative, we offer several tools to help make you the toughest competition in your field. The Creative Evolution CNC continues

to lead the industry with the highest performance, yet it is easy to buy and maintain. Now available on a wide range of new machines from Strathclyde, it's never been easier to own the most productive machines in the industry. And prices have never been better. The industry's best performance costs less every day at Creative.

You can also update your favorite existing machines to higher productivity with Creative Evolution CNC retrofits. Productivity increases of 3 to 10 times are reported with just a modest investment in the Creative Evolution CNC. In many cases where a new machine is financially out of the question, updating your existing equipment can be the key to helping you compete now.

If financing is your problem, we can help. Low-cost finance and lease options can make your next machine purchase easier than you think.

The Creative Evolution CNC can be the chicken that hatches your new business growth!



Getting the most from your Creative Evolution CNC

The **Creative Evolution CNC** is designed to be *Simply The Best* for fast, accurate 3-D contours. Your best performance comes from running at 100% on feed rate override. Look ahead is the feature that slows the machine motion for corners and contours. Running below 100% slows the machine more than it needs, unnecessarily increasing your cycle time.

The Creative Evolution CNC gives you three great tools for optimizing your feedrates:

- G160.3 uses feedrates and spindle speeds from your tool table. In this way, you don't need to edit programs, but rather just set speeds and feeds with the tool offsets
- G98 can scale feedrates. Some CAM systems output dynamic feedrates that change with the angle of cutting descent. The constantly changing feedrates are meant to optimize cutting conditions by slowing the feedrate as a cutter increases its angle of downward cut. Editing feedrates could be very tiresome, so just setting a multiplier for these feedrates can be quite useful. This powerful feature also allows changing feedrates differently within two ranges, so approach feedrates can be treated differently from the actual surface milling.
- Forced feedrates are programmed in the same line with the G160 remote file call. This feature simply ignores the feedrates programmed in your remote file and runs at the rate stated in the G160 file call.

These features are intended to eliminate file editing to optimize not only the machine's productivity, but also its operator's productivity.

Important Note About Chiller Fluid

Did you know that the chiller fluid for your high speed spindle should be replaced annually? Filters need to be cleaned monthly. Systems must be rinsed thoroughly with warm water to clean all contamination. Replace only with Dowtherm SR-1 mixed 50:50 with clear water. Dowtherm is the only anti-corrosive we recommend for chillers, important to long life for your spindle cartridge and entire cooling system.



Strathclyde's New HS-500

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Graphite Supplier Evolves Into Electrodes

Modern Representatives of Addison, Illinois not only supplies graphite for mold builders, but also machines the electrodes and cavities with their new Strathclyde HS-500 high speed machining center. Founded in 1978 by Ron Gawlik, Modern sells precision graphite blanks; bulk graphite; mold components, and coated end mills. In 2001, Modern added a new Haas VF-0E machining center to expand their service to milling electrodes. "When our customers got in a pinch for machine capacity, we could help them out at a fair price," says vice president Matt Gawlik. "Providing graphite machining services in addition to stocking graphite has helped us grow in a time when many companies are struggling.."

"The addition of our Strathclyde HS-500 has opened many doors for us. For years we have seen hard milling technology take away graphite sales from us. The fact that we can now cut cavity/core details in hard steel often 30% cheaper than cutting the electrodes for the same cavity/core, has helped our clientel get back customers that THEY have lost due to price and delivery issues. Because of the HS-500, our turnaround for our custom electrodes has been cut by 75%. Fast delivery is everything these days. Our customers don't have 6 weeks to build a mold. They have 4 if they are lucky. Without high speed machining we would have been left in the dust.

I must admit we were a bit apprehensive to invest in new machinery in these very competitive times. The Strathclyde HS-500 with its Creative Evolution CNC has helped us develop this new market and is forcing us to buy another in the next few months.

Contact Modern Inc at 1-800-783-0718

Special Purchase!

New Machines at Low Discount Prices.



New Strathclyde machines built for high-speed machining with the Creative Evolution CNC control. The HS-33 features travels of 33"X x 21"Y x 21"Z, linear guide ways on X and Y, 10,000 RPM BT-40 spindle. The HS-43 features travels of 43"X x 23"Y x 21"Z, heavy box way construction throughout, 10,000 RPM BT-40 spindle. Both machines offered subject to prior sale at \$69,995.

Both machines feature heavy construction for high-performance milling of hard steel and alloys.

List price \$89,995 to \$98,995

Special \$69,995

Pre-owned Fadal!

Model VMC20

- Model 904-20
- Serial Number 9007413
- Travels - 20"X x 16"Y x 20"Z
- Flood coolant
- 40 taper 7,000 RPM spindle
- 400 IPM rapid rate, 350 IPM maximum contouring feedrate
- Creative Evolution CNC control with current version 1.34c software and documentation
- Prepared for 4th axis with amplifier and connectors

Now you can get started with the speed and power of the Creative Evolution CNC for the low price of just \$29,995. This machine is under power, ready to run and can be tested on your parts today.

