

LG EVANS & COMPANY APPLICATION REPORT

Featuring:

Citizen L20E-IX

At Hi-Standard Machining



www.lgevans.com

LG Evans & Company is a full service machine tool dealer, focused on Business Development specializing in bar fed turning solutions, representing Citizen CNC sliding headstock & Miyano fixed headstock machines.

My Big Mistake - One Machine Wasn't Enough

Gary Estep gloats as he refers to his company's first Citizen L20 as "My Big Mistake." He goes on to explain "Buying the Citizen L20 wasn't really a mistake; I just should have bought two right away. Within two months of our first installation, we were ordering our second machine."

- *Productivity gains exceeded our expectations*
- *Improved our cycle time by 75%*
- *Eliminated secondary operations*
- *Single source responsibility*
- *Up-time + reliability = meeting on-time commitments*
- *Delivered a new level of quality and productivity*
- *Attracted a new level of work*

The Citizen L20 CNC Swiss-types enjoy numerous benefits over automatic screw machines like Hi-Standard's many Brown & Sharpe automatics.



- Greater rigidity for faster cuts, longer tool life
- Better looking parts with finish to 16 µm
- Faster rapid and feed rates - higher productivity.
- 5-axis motion control for complex contours.
- Live tooling for drilling and milling operations.
- Gang-style tooling - zero tool change time.
- Synchronous sub-spindle allows machining on all surfaces, even the cut-off back end.
- Ease of adjustment to 0.0001" by programming and tool offsets.

Gary Estep smiles confidently. "We couldn't have hoped for a better outcome. On average, the new L20Es finish the parts we put in them in about one fourth the time of our B&S automatics."

L20E-IX

Cincom Evolution Line

Sliding Headstock Type Automatic CNC Lathe

“CNC Swiss-type was a big jump in technology for us. We didn’t have any Swiss-type machines or CNCs,” says Mr. Estep. “We had our hopes, but the ease of implementation and the productivity gains exceeded our expectations.” That first machine was purchased less than two years ago, yet today Hi-Standard has three Citizen CNC Swiss-types in operation.”

“On average, the new L20Es finish the parts we put on them in about one fourth the time of our Brown & Sharpe automatic screw machines. The more operations a part has on the screw machines, the easier it is to justify moving it to the new machines” says Estep. “We eliminate secondary operations for any parts we put on our Citizen machines. It’s easy with the variety and number of tools we have available on each of the machines. No secondaries means less handling, fewer mistakes, and faster delivery.”

Sales, applications, training, and service are all provided by L. G. Evans, with offices in Wisconsin and Illinois. “Our Citizen CNC Swiss-types have been our first experience with CNC. Thorough classroom training at Citizen and support from L.G. Evans has made it easy to learn. As a customer

who’s new to CNC Swiss-type machines, most service has been our own lack of familiarity. We have been pleased with the same- or next-day service response Evans has demonstrated” reports Mr. Estep. “All our machines’ up-time and reliability is an important part of our on-time commitment to every Hi-Standard customer.”



Precision production parts produced by Hi-Standard’s L20E series automatic CNC lathe

Summarizing the changes Gary smiles confidently. “We couldn’t have hoped for a better outcome. We ordered, installed, learned, and quickly delivered a new level of quality and productivity, all the while maintaining our old business and clientele. Today our new capability is attracting a new caliber of work from all over the country.”

Programming Tech Tip:

For in-process gaging and automated tool offsets use our Citizen-Cincom G160 function. Email us at Info@lgevans.com for further information and a sample program.

L20E-IX

Cincom Evolution Line

Sliding Headstock Type Automatic CNC Lathe



- Citizen's renowned control and ease of use
- Outstanding tooling versatility
- More simultaneous machining equals shorter cycle time
- Next tool advances while the previous tool retracts
- Direct spindle indexing
- The operating convenience you want

Citizen Evolution gives the next generation L20E more axes, more tools and more functions.

Options Up to 32 tools

To meet the trend to produce complex parts on a lower cost machine.

Now with back slitting and back cross drilling capability

Same holder is adaptable for both slitting and cross drilling.

Back rotary tool drive now standard

4 live positions for fixed, end face drilling/milling, slitting, cross drilling.

Tool layout is quickly changeable

The layout is easily adapted to suit highly diverse kinds of workpieces.



L20E tooling example

Cross-drilling spindle
GSC1010

Rotary tool unit
GSE3010

Cross-drilling spindle
GSC1210

2-ID sleeve holder
GDF508

3-tools front & back
end face drilling spindle
GSE3207

Cross-drilling spindle
GSC907

End face drilling spindle
GSE3307

Back rotary tool unit
U153B

Back slitting spindle
(optional)
GSS1330

3-tool front deep
drilling holder
U124B

Contact us for your precision tooling needs.



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