

L. G. EVANS & COMPANY APPLICATION REPORT

Featuring:

Citizen L20X

At Smith & Richardson Inc.



SMITH & RICHARDSON INC.



www.lgevans.com

L. G. Evans & Company is a full service machine tool dealer specializing in bar fed turning solutions, representing Citizen CNC sliding headstock & Miyano fixed headstock machines.

Confidence - One Machine Wasn't Enough

Today, Smith and Richardson has replaced virtually all of their Brown & Sharpes with a fleet of nine Citizen CNC Swiss-type automatic lathes, all the while improving quality, volume, productivity, and the company's bottom line. In addition to CNC productivity and convenience, Swiss-type sliding headstock design provides greater rigidity for better finish and tool life.

“Nearly 10 years after our first purchase, this still gives us the confidence to run at top efficiency with every new program.” Smith & Richardson's Rich Hoster, talking about Cincom's On-machine Program Check Function.

“Many years of working with their staff gave us the confidence that we would have the support to make the transition to a new generation of manufacturing.” Smith & Richardson's Rich Hoster, talking about L. G. Evans & Company's service and support.

The Citizen L20X CNC Swiss-types enjoy numerous benefits over automatic screw machines like Smith and Richardson's many Brown & Sharpe automatics.



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

“Actually, all those features wouldn't have convinced us if not for the reputation and service of L.G. Evans & Company,” adds Mr. Hoster.

L20X

Cincom Innovation Line

Sliding Headstock Type Automatic CNC Lathe

Transitioning our company from over 30 Brown & Sharpe automatic screw machines to Citizen CNC Swiss-types wasn't just a leap of faith," says Rich Hoster. "As we considered the machine choices, one feature gave us the confidence to buy our first machine, Citizen's **On-machine Program Check Function.**" Hoster is the President of Smith and Richardson, located in Geneva, Illinois where they make foundry chaplets and precision machined parts.

Citizen's **On-machine Program Check Function** uniquely combines testing of program operation, both forward and backward, with editing and continuation after temporary stop and/or edit. Stepping through the program is easy and intuitive, controlled by the Cincom CNC control's handwheel pulse-generator.

"Another great feature is the visuals the control displays during tool and program setup," continues Hoster. "CNC Swiss-types feature quite an array of tooling. The Cincom CNC actually displays the specific tool station during tool setting, and during programming, the operation is visually displayed. Nearly 10 years after our first purchase, this still gives us the confidence to run at top efficiency with every new program.

"Actually, all those features wouldn't have convinced us if not for the reputation and service of L.G. Evans & Company," adds Mr. Hoster. "Many years of working with their staff gave us the confidence that we would have the support to make the transition to a new generation of manufacturing.

"These machines have been real workhorses, generally running 24 hours a day 6 days a week. We've had few issues over years of operation at that hectic pace, yet when called on for help, L. G. Evans & Company has been like a partner to us.



Precision production parts produced by Smith and Richardson L20X series automatic CNC lathe

"When we considered making the change from the older Brown & Sharpe automatics to the latest CNC Swiss-type technology from Citizen, the promise of higher productivity got us interested. Citizen's features gave us the confidence to take the plunge. Coupled with L. G. Evans & Company's great support, we couldn't be happier. In today's competitive manufacturing marketplace, we face global competition with absolute confidence in our Citizen CNC lathes."

Programming Tech Tip:

Are you still milling your bars square? Utilize polygon turning to turn your bars square!

Ask how at info@lgevans.com.

L20X

Cincom Innovation Line Sliding Headstock Type Automatic CNC Lathe



Citizen Innovation gives the next generation L20X more axes, more tools and more functions.

- Citizen's renowned quality, control, and ease of use
- Maximum tool mounting capacity to 39 tools
- Offering more machining capabilities
 - New Y2 axis capability options
 - More simultaneous machining equals shorter cycle time
- The operating convenience you want

- **Up to 39 tools**

To meet the demand to produce complex parts in a small machine footprint.

- **2 tool balanced turning and milling**

"Pinch" turning and "pinch" milling by simultaneous use of gang tool post and opposite tool post.

- **Increased back machining capability**

8 tools on the back tool post in two rows of four, upper row driven, for the machining of complex features on the back spindle.

- **New Y2 axis**

Significantly increase the simultaneous front-back machining possibilities.



L20 Type X tooling example

Outer diameter milling spindle
GSC1210 (ER16)

End face drilling spindle
GSE3507 (ER11)

2-ID sleeve holder
GDF508

3-tool both-end face
drilling spindle
GSE3207 (ER11)

Sleeve adapter
SAU919 (ø19.05)

Cross spindle
GSC1507 (ER11)

Front rotary tool drive device
U127B (rotary 3 + fixed 3)

End face drilling spindle
GSE3407 (ER11)

Boring/Drilling sleeve
GDS210 (ER16)

Sleeve adapter
SAU919 (ø19.05)

Cross spindle
GSC1407 (ER11)

Boring/Drilling sleeve
GDS210 (ER16)

Contact us for your production turning needs.



www.lgevans.com

L. G. Evans & Company

600 Joliet Rd, Suite B • Willowbrook, IL 60527 • P: (630) 321-1500

2244 Bluemound Rd, Suite B2 • Waukesha, WI 53186 • P: (262) 789-1600

