

The Finest Machine Tools

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Zeman Technologies

Did You Know? "Last Part Program" on Citizen Lathes

Citizen lathes are designed to machine the front and back halves of complex parts simultaneously. **Last Part Program** allows the operator to stop the running of a continuous cycle and finish the back half of the last part, without starting another part on the front spindle. Benefit: Gain an extra part!

An Example of Implementation on the L20:

15.11 Executing the Last Program (G999)

This command must be specified in the last portion (end process) of each axis control group (\$1, \$2) program that includes the last program.

In general, the last program is executed to perform back machining for workpieces with which front machining is completed. The back machining is performed in the last cycle while the machine is in the stopped state (e.g., 1-cycle stop or product counting by the counter).

Specify the G999 command for each axis control group to automatically enter the axis control groups in the queuing state. The last program between G999 and N999 is executed in the 1-cycle or 1-block operation mode.

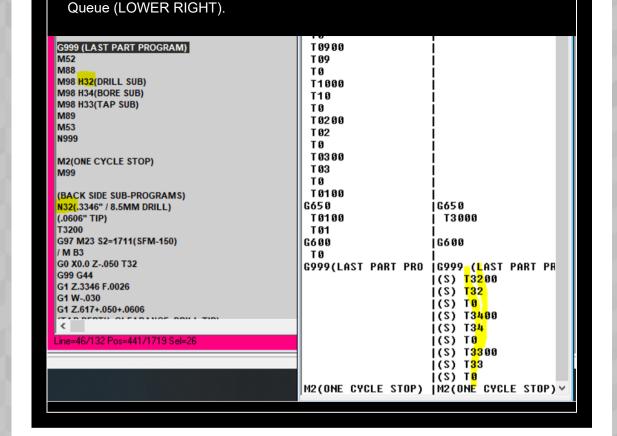
Be sure to specify the N999 command at the end of the last program contents of each axis control group. To finish program creation, specify three commands following N999 at the end of the end process. The commands must be specified in the sequence of M02, M99 and then %.

Command format

G999 Last program execution

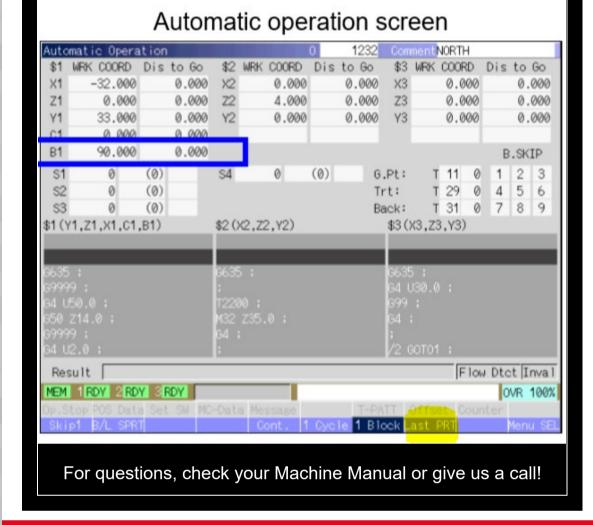
Axis control group
 Specify this command for both the axis control groups \$1 and \$2.

Below, G999 (TOP LEFT) is the start of our **Last Part Program**, concluding with N999, M2 and M99. Observe the highlighted use of Sub-Programs in the



Two ways the machine "reads" the code between G999 and N999:

- Auto Mode >> One Cycle & Last PRT soft key activated (highlighted below). Back Side will "air cut" the first part and machine the back side without starting another part.
- Auto Mode >> Continuous Operation, Machine Parts Counter
 Last PRT soft key activated. Machine will execute Last Part
 Program upon hitting the value entered into the Parts Counter.



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