

October 13, 1969

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To: All District Managers

Subject: SLO-SYN Numerically Controlled Lathe

Arrangements have been concluded for the building of a special lathe by Sheldon Machine Company for The Superior Electric Company, which will be sold by us as a complete package. The lathe package will not be available from Sheldon themselves. Sheldon also will not supply the basic machine package to any other numerical control manufacturer. Therefore, this package is an exclusive one available only from The Superior Electric Company.

The machine will be available with contour control at \$28,000 list. The type number is SNC25-17L. It will also be available with point-to-point control at \$21,000 list. The type number is SNC25-P-17L. A 15 per cent discount will be accorded to WNC distributors who maintain a stock unit for demonstration purposes and have tape punch equipment on the premises. WNC's that do not meet these qualifications will receive a 10 per cent discount.

The prototype machine was demonstrated at a show in Toronto the week of September 29. It will be shown at an AS'TME Show in St. Louis the week of October 13. Attached is a flysheet which was prepared for use at these two shows. Also attached are some more-detailed specifications on the machine itself.

Delivery of the first production units can be made in January. The prototype machine differs in some respects from the production machines. The differences are primarily in mechanical construction and the manner of enclosing the lead screw along the length of the bed.

This package is very attractively priced, and its performance is most impressive. I therefore request you immediately discuss this with all of your NC distributors, and most importantly, I would like you to contact the Sheldon distributors in your area (listed below) and discuss this package with them. In many areas, it is my feeling that the Sheldon distributors may well do a better job on this package than the SLO-SYN distributors in the same area. No commitments have been made for taking on any or all Sheldon distributors as SLO-SYN distributors. Each of them should be individually evaluated. It is perfectly permissible to take on a Sheldon distributor on a limited basis to handle just the lathe package and not the rest of the SLO-SYN line. I would like a report from each office by November 5 on the results and reactions you obtain as a result of your visits to the Sheldon distributors.

Please discuss this immediately with your distributors and let me know the results as soon as possible.

B. G. Deming

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Enclosures: Flysheet and specification sheet
Catalog of Sheldon Machine and accessories available (one copy per office)

Sheldon distributors in areas:(Listed on District Manager's copy only)

cc: Keys A, FC, FD, FE, K

SPECIFICATIONS OF SHELDON LATHE

1. Swing over bed 17-1/4" with 42" between centers.
2. 7-1/2 H.P., two speed, 60 cycle, 3 phase, single voltage motor. 230 volts will be normally supplied unless otherwise specified. 460 volts will be available upon order at no charge.
3. 110 volts at the push buttons which consists of power on light, forward high, forward low, reverse low, and stop. The stop button will be provided with a large mushroom safety button.
4. Nema 12 enclosure, size 1 starters with fusible disconnect switch.
5. All wire to motor and controls in sealflex conduit.
6. Headstock to be of high torque patented design with 2-1/4" hole through the spindle and a D1-6" camlock nose.
7. The spindle, carriage bed ways, tailstock bed ways, cross slide ways, and tailstock spindle are all hardened.
8. Carriage and carriage clamps will have an anti-friction preparation to keep stick slip to a minimum.
9. A 5 pitch 1-1/4" diameter hardened and ground precision ball screw will be used for the Z axis. The axis motor will drive a 2 to 1 reduction gear box which will run in oil. Provisions will be made to adjust for backlash in the gear box.
10. A 10 pitch 3/4" diameter hardened and ground precision ball lead screw will be used for the X axis.
11. An automatic lubrication system will be electrically connected to the main electrical box to provide oil to the bed ways, cross slide ways, both ball screws and nuts, as well as bearings for the ball screws.
12. A tool block with the same height as the 17" compound will be provided for the front part of the cross slide. The T-Slot will be the same dimension as that of the 17" compound.
13. A rear tool block with two T-Slots for the rear part of the cross slide will be provided.
14. A light spray preservative and plastic bag will be used to protect the lathe while in transit.
15. Sheldon Machine Co., Inc. will guarantee this machine against defective material and workmanship for a period of one year from date of shipment.