

TO: ALL OWNERS OF NEUMANN VMS 80 DISK CUTTING LATHES

FROM: Stephen F. Temmer

RE: New "Minimum Depth Reduction" feature available for your
Lathe(s)

DATE: 25 February 1981

During the first 2 years of the operation of the latest VMS 80 Neumann Disk Cutting Lathe System our customers and the engineers in our laboratories could achieve a lot of knowledge about the cutting results to be obtained with this modern system. Some of the most important aims during the development of the VMS 80 were safety of operation, complete reproduceability of all operational parameters and precise transient response. These aims were perfectly realized in the electronical control systems of the VMS 80.

For the first time it is possible with the VMS 80 to determine the lead screw drive by a definite setting of the minimum depth of cut of the unmodulated groove as well as the definite setting of the land width. The selected minimum depth of the unmodulated groove is identical with the minimum depth of the modulation groove independence of the modulation degree. The difference between the selected minimum depth and the "narrowest" groove permitted in the standards provides a space reserve which can additionally be utilized by means of an additional control within the control system VMS 80. Effective at once, the VMS 80 disk cutting lathe system will therefore be offered with the additional device "Minimum Depth Reduction" at no extra cost. By means of this device the minimum width of the modulation groove can be diminished in comparison with that of the unmodulated groove by 5, 10 or 15 μm respectively by decreasing the vertical control signal. As a consequence, there will be a respective gain of playing time.

- Conversion

It is possible to upgrade existing VMS 80 cutting systems. For this purpose, the following has to be exchanged:

- 1.1 the plug-in module STO 80 in the console of the VMS 80
against the new version STO 80 No. 94102
o r a l t e r n a t i v e l y
- 1.2. the plug-in module SKA 2 2561 in the control console
against the new version 91303.

3. The plug-in modules STS 80 and RAS 80, as well as the corresponding rack support MS 80 must be upgraded per instructions supplied. The conversion can also be done at NEUMANN in Berlin for an additional price.

The costs are as follows:

- 1.1. To exchange the STO 80 Control unit in the electronics package of the VMS 80 Lathe \$ 550.00
- 1.2. To exchange the SKA Cassette in the NEUMANN SP console, provided you have such a unit at all \$ 1,010.00
2. Converting the STS 80, RAS 80 and MS 80, if you want to return these units through us to the factory \$ 450.00

The STO 80 and SKA Modules must be returned in good-as-new condition to be eligible for this exchange program. Turn-around units will be made available by GOTHAM in due time. Expected time for obtaining the conversion kits is 2-3 months after order.

Ordering and Drawing Numbers:

- 1.1. STO 80 Catalog No. 81613 00111.2 Drawing No. 21525 94102.1
- 1.2. SKA Catalog No. 83531 00081.9 Drawing No. 21525 91303.3

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