ND 780 Software Update v1.1.1

The following list describes the software changes of the revision compared to the previous version v1.1.0.

1. Actual & Distance-To-Go Views for Hole Pattern Execution (Mill)

When running a hole pattern, a view was added to show the actual value position. The view sequence is Distance-To-Go (large), Graph w/ DTG (small), and Actual Value (large).

2. Scale Coupling Indicator

An icon is displayed to the right of the position to show which inputs are coupled.

3. Edge Finder Icon in Keypad Diagnostics

The EF1 and EF2 indicators were replaced with two edge finder graphics in the keypad diagnostics screen. An asterisk appears above the icon when contact is made.

4. Introduction of further Language Support

Following languages have been added to the list of available dialogues:

Traditional (Taiwan) and Simplified (China) Chinese
Thai
Turkish
Russian

5. Taper Verification (Turn)

The taper angle may be calculated by touching off on two points along the taper.

6. Quick Couple/Uncouple Key Sequence (Turn)

On turning systems, the 2nd and 3rd axis displays may be quickly coupled by holding one of the two axis keys (2nd or 3rd) for 2 seconds. They are uncoupled by pressing the other axis key.

7. Non-linear Error Compensation

The layout of the non-linear error compensation table was modified to better match the layout of the POSITIP 880. The soft key navigation was also adapted accordingly.

8. Software Download Requires Confirmation

The bootloader menu options require a second keypress to confirm the selection. This is to reduce the risk of inadvertently erasing the current software version.

Note: This change requires bootloader version 1.1.2 or later. For field upgrades, the end user must load the new bootloader before loading the application software.

9. Change of First-Time Power-Up Screen

The first-time power-up screen was changed. The text instructs the user to select language, application, and number of axes. The ENTER key must be pressed to save the settings and continue.

10. CSS Support (Turn)

Support for Constant Surface Speed (CSS) using the IOB 49 was added. Refer to the IOB 49 operating instructions for details.

11. Switching I/O Support (Mill)

Support for Switching Inputs and Outputs using the IOB 49 was added. Refer to the IOB 49 operating instructions for details.

Note: The axis associated with a switching output cannot be configured with coupled inputs or use an input with backlash compensation.

12. X-Axis Defaults to Diameter Display Mode (Turn)

When the readout is configured for turning applications, the X-axis is set to the diameter display mode by default.