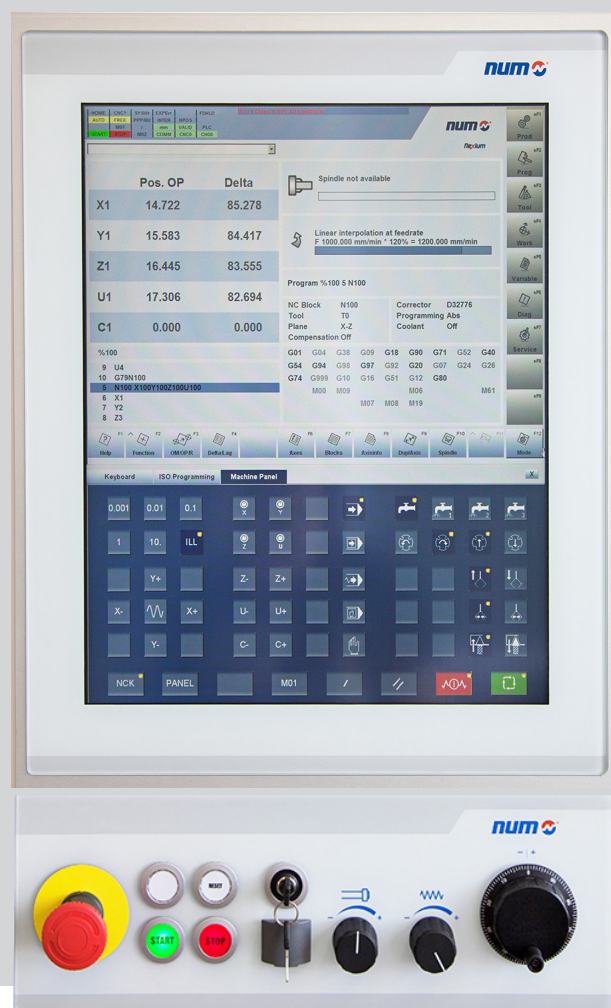


NUMSmartBackup

Operator's manual

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Edition 11.2017



flexium⁺

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CNC HighEnd Applications

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1 NUMSmartBackup

1.1 General

The NUMSmartBackup is a device to backup or restore all Flexium iPCs.

NUMSmartBackup can be used to automatically backup and restore NUM Control Panels. Without any user interaction, it will detect if a backup image is already present on the NUMSmartBackup USB drive and restore the image onto the control panel. Otherwise it will perform a backup.

- Bootable stick for disk imaging and cloning.
- Compatible with NUM iPCs independently of the concrete installed Windows OS:
 - FXPC152xx1xxxxx
 - FXPC152xx2xxxxx
 - FXPC153xx1xxxxx
 - FXPC153xx2xxxxx
 - FXPC154xx1xxxxx
 - FXPC192xx2xxxxx
 - FXPC002xx1xxxxx
 - FXPC002xx2xxxxx
 - FXPC004xx1xxxxx
- 64 GB USB stick (supports USB 2.0 and 3.0)
- Can be used without any monitor, mouse and keyboard (automatically update / restore from stick only for Box PC P1)
- The system is automatically shut down, after a successful Backup or Restore.

Reference Code

- FXHE557102



NUM always recommend to OEMs to make a complete backup of your machine configuration after the system configuration and engineering with the new Backup tool.



NUMSmartBackup works correctly if Flexium iPC are in the NUM standard configuration; BIOS changes (different from what explained in the next chapter), creation of hard-disk partitions, installation of 3rd party applications etc. could lead to misfunctionings.

1.2 BIOS Configuration

For NUMSmartBackup to be detected by NUM Control Panels, the following options need to be enabled in the BIOS configuration:

1. Connect the NUMSmartBackup and go into *BIOS*.
2. Go to *Advanced -> USB Configuration -> Mass Storage Devices -> General UDisk 5.00* and then select "*Hard Disk*" (refer to figures 1, 2 and 3).

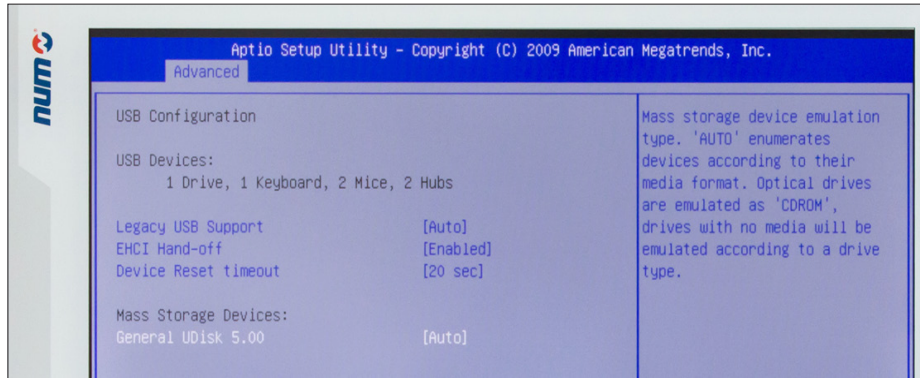


Fig.1

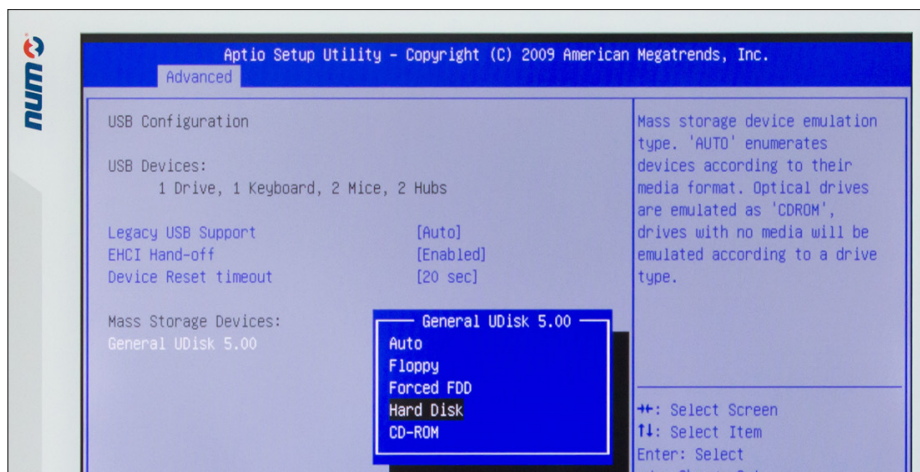


Fig.2

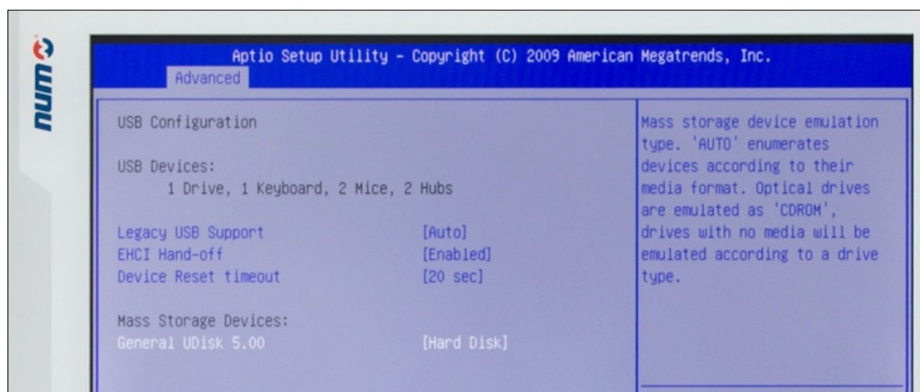
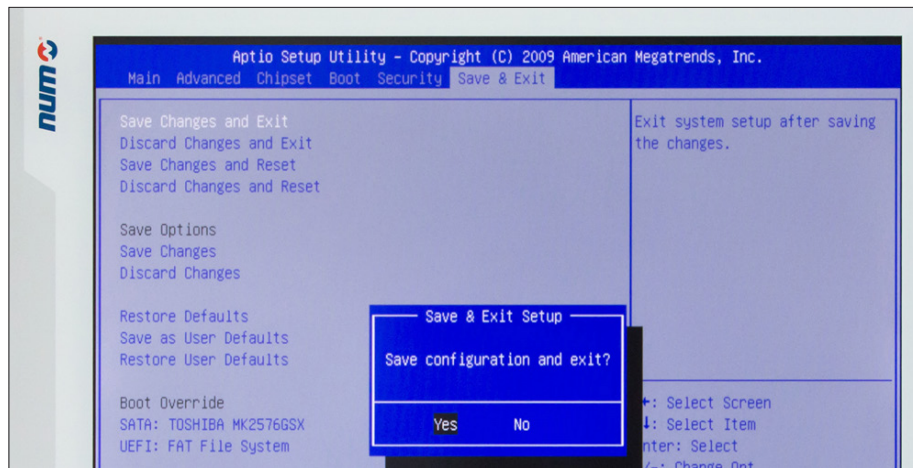
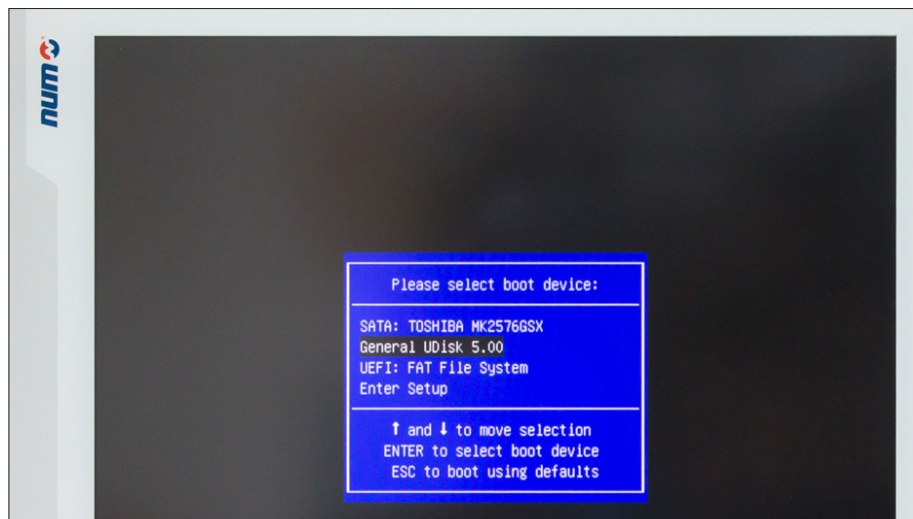


Fig.3

3. Save the changes and restart the system.



4. During the startup push “**F7**” and select *General UDisk 5.00*.

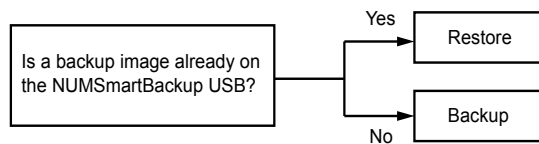


Subsequent runs with NUMSmartBackup may require the user to repeat step 4. However, steps 1-3 need to be executed only once.

1.3 Manual operation

NUMSmartBackup was designed to work without any user interaction.

It supports two main procedures, backup and restore, and decides which operation to perform based on the following diagram:

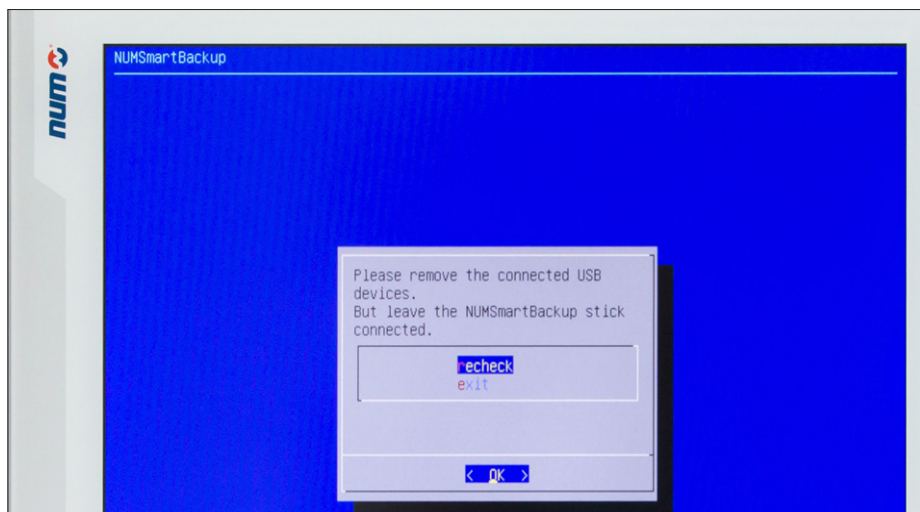


- During the startup NUMSmartBackup will try to load the necessary modules and detect the NUMSmartBackup USB device.

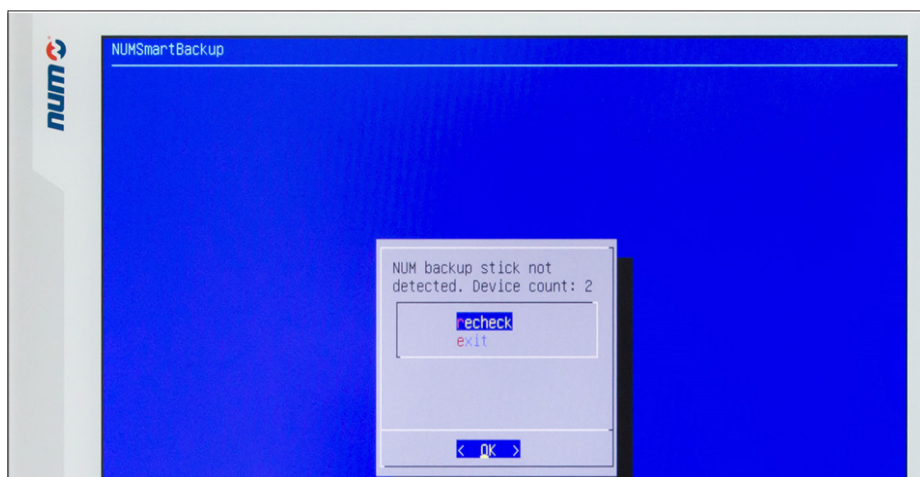


Fig. Initial window

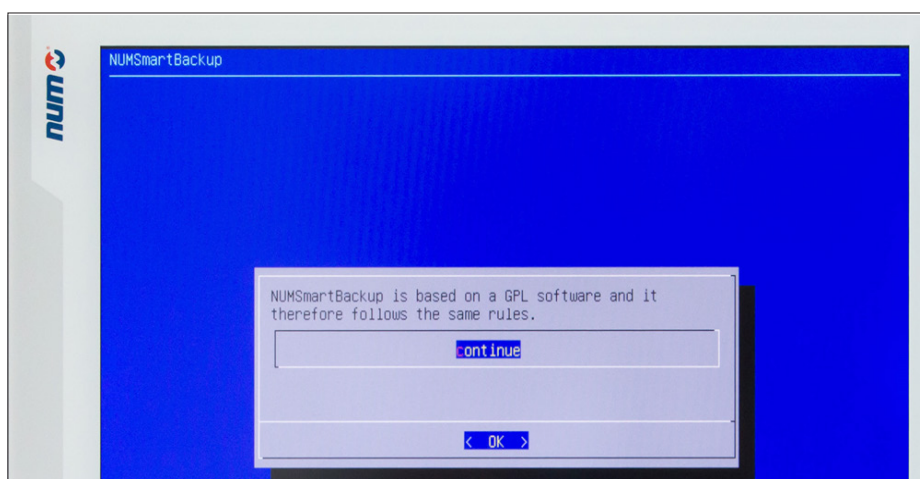
- If multiple USB devices are attached to the system, the program will ask the user to remove the additional USB drives.



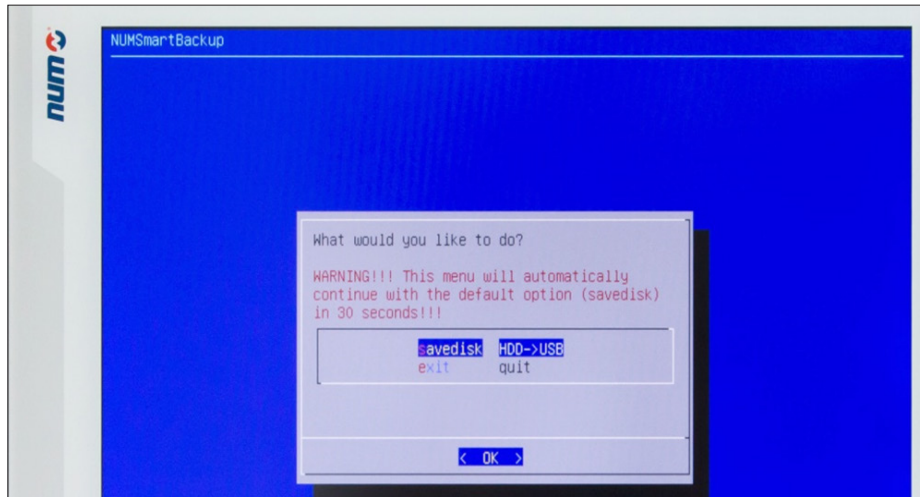
- Removal of the NUMSmartBackup USB after the startup will be detected and the drive will need to be reattached before the program can continue.



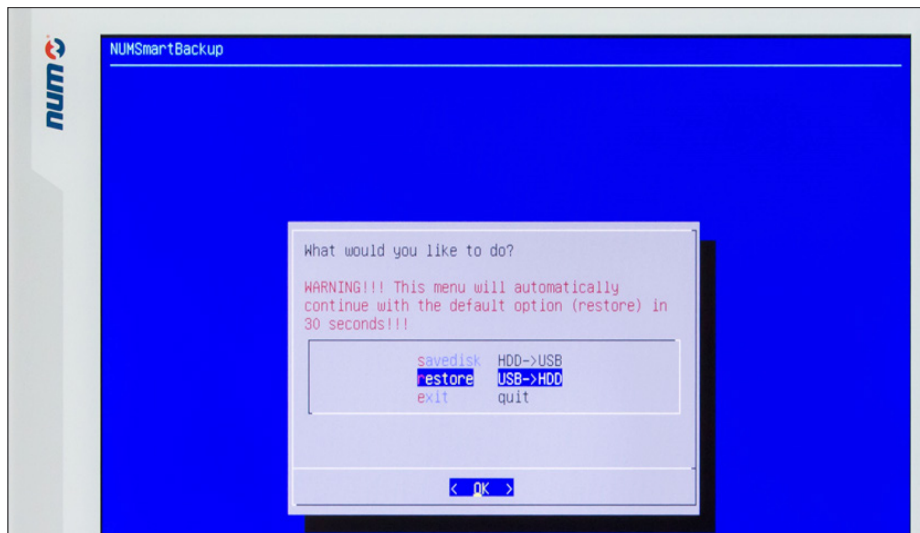
- If the aforementioned requirements are met, then the following message will be shown.



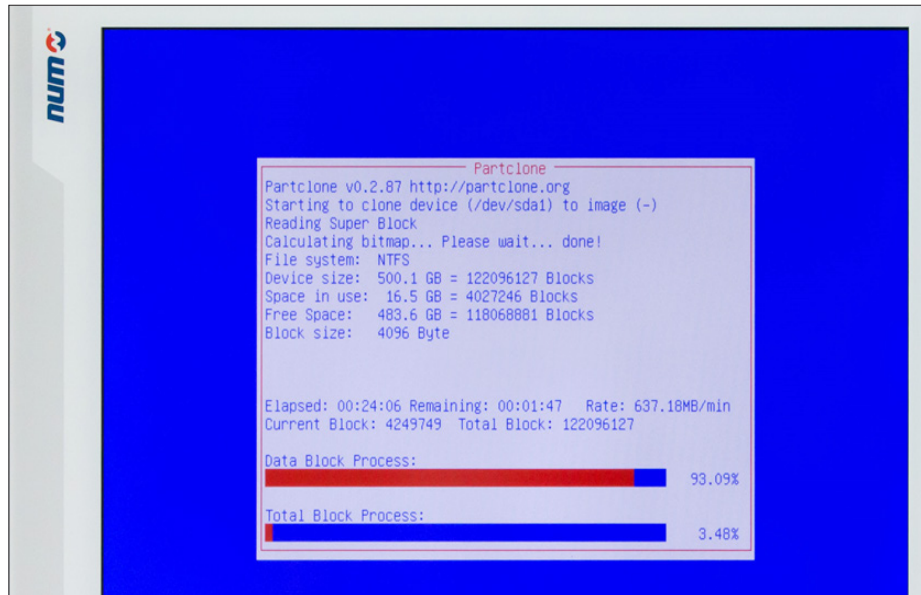
- After a timeout of 10 seconds NUMSmartBackup will proceed with the next dialog.



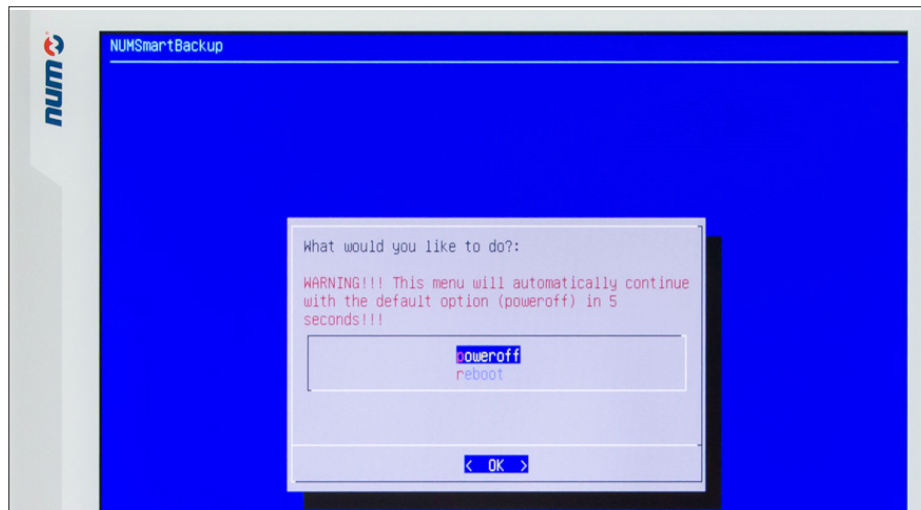
- Please note that if a backup image is already available on the USB drive, then a different dialog will be shown with "restore" as the default option.



- Based on the logic described earlier, NUMSmartBackup will select a default option (backup or restore) and perform that operation after 30 seconds.
- At this point the user may choose a different operation or exit the program altogether.
- The status of the operation as well as an estimate for the remaining time will be displayed (see figure). If there is already a backup image present on the USB and a backup is performed, then the original backup will be overwritten.



- At the end of the procedure, the user may choose to poweroff or restart the system with the default option being “poweroff”. The backup files can be found in the “numBackupImage” folder.



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