

# SINUMERIK 840D sl

## Upgrade Instructions

### SINUMERIK Operate 4.5 SP2 for PC

2013-04-22

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SINUMERIK Operate 04.05.02.00 (internal Version 04.05.02.00.030) for PC

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A PC comprising the German or English Windows XP SP3 32Bit, network card, min. 1GB RAM and 3GB free hard disk memory is required in order to install this software.

– Installation on a PC with German or English Windows 7 is also possible

The commissioning instructions for SINUMERIK Operate 4.5 SP2, PCU base software V1.3 or Win7 V1.0, the device manual, operating components and the operating instructions SINUMERIK Operate 4.5 SP2 apply. Further, the secondary conditions published for CNC software 4.5 SP2 must be taken into account.

SINUMERIK Operate comprises all texts in German, English, French, Italian, Spanish and “Chinese simplified”. In general, the help for setting and machine data is only provided in German and English. Language extensions V4.5.1 and V4.5.2 for SINUMERIK Operate can be used.

SINUMERIK Operate 4.5 SP1 has only been released for operation with a 840D sl NCU7x0.3 with CNC Software 4.5 SP1 resp. for a SIMATIC-CPU 317 / 319 in combination with HMI Pro sl.

To do this, the PC must be integrated in the plant / system network. As standard, the SINUMERIK Operate logs itself into the system with the NCU address 192.168.214.1. The NCU address can be set in the screen "NCU connection" under Commissioning / HMI.

An online changeover to another NCU (1:n) is not possible.

Note: If the PC is connected at X130 of the NCU via the company network, the simulation can no longer run.

The HMI-Advanced software 7.6 SP2 HF7 (or later) resp. the Startup Tool V7.7 on PC / PG may still be required for commissioning drives.

This is the reason that SINUMERIK Operate 4.5 SP2 and HMI-Advanced 7.6 SP2 resp. Startup Tool 7.7 can be installed in parallel on a PC / PG. However, only one of the two HMIs can be started.

The SINUMERIK Operate for PC does not include any technological cycles or measuring and ISO cycles. These are only available on the CF card of the NCU and automatically installed during the NCU startup – see also the relevant information provided in the Upgrade Instructions for the CNC Software 4.5 SP2.

User texts must always be downloaded into the system in the UTF-8 format.

SINUMERIK Operate for PC does not have a general access to the CF card of the NCU. This means that option "user memory on CF card of the NCU" cannot be used.

The "Local drive" in SINUMERIK Operate for PC is located on the hard disk under <installation directory>\user\sinumerik\data and is always available without option.

#### **Installation**

**Important:** If a version < 4.5 SP2 of SINUMERIK Operate for PC has already been installed, then it must first be uninstalled under Control Panel /Add or Remove Programs. In addition, manually delete the directory F:\hmis\snck.

SINUMERIK Operate is installed by calling the file Setup\_HMIsI\_.....exe on the DVD delivered.

The installation directory can be freely selected.

**The path and the directory may include blanks, but no special characters and language-specific umlauts. The standard program directory of Windows (C:\Programs resp. C:\Program Files) may not be used.**

The installation version is requested during the installation:

- Operation on a SINUMERIK NCU (default)

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- Operation on a SIMATIC-CPU 317 / 319
- Integration of .NET-Framework for OEM applications

- **Function improvements in Operate SW 4.5 SP2:**

PR-Nummern	AP00973816	AP01017173	AP01131448	AP01132979	AP01210431
AP01235921	AP01259200	AP01282766	AP01290124	AP01290755	AP01296388
AP01301859	AP01312986	AP01331837	AP01333896	AP01335720	AP01339644
AP01340710	AP01342553	AP01348274	AP01352296	AP01355047	AP01355087
AP01355287	AP01356719	AP01361037	AP01368723	AP01372420	AP01373162
AP01376057	AP01377827	AP01378251	AP01379054	AP01379602	AP01381942
AP01381999	AP01382640	AP01384106	AP01387363	AP01389148	AP01390430
AP01391655	AP01392878	AP01393456	AP01395363	AP01395641	AP01395652
AP01395884	AP01396676	AP01398021	AP01398901	AP01399391	AP01399646
AP01399685	AP01403616	AP01404034	AP01406575	AP01406581	AP01406620
AP01412254	AP01413894	AP01413899	AP01414641	AP01415251	AP01416032
AP01416262	AP01418335	AP01419349	AP01420038	AP01422073	AP01422925
AP01423364	AP01424275	AP01424298	AP01424938	AP01426260	AP01427876
AP01428599	AP01429869	AP01430133	AP01430763	AP01433805	AP01435945
AP01436989	AP01438081	AP01438081	AP01438513	AP01439969	AP01440597
AP01441055	AP01441756	AP01442437	AP01443168	AP01443207	AP01443346
AP01443537	AP01444550	AP01445037	AP01445120	AP01445940	AP01448706
AP01448913	AP01452695	AP01455461	AP01456964	AP01457397	AP01462718
AP01463019	AP01466166	AP01472124	AP01473593	AP01477764	AP01478336
AP01479411	AP01479954	AP01480925	AP01481767	AP01481872	AP01482909
AP01483191	AP01483222	AP01484018	AP01484023	AP01484063	AP01484094
AP01486101	AP01486740	AP01487273	AP01488611	AP01488776	AP01489720
AP01489934	AP01490136	AP01492958	AP01493185	AP01493298	AP01493638
AP01494273	AP01494493	AP01495165	AP01495952	AP01496153	AP01496383
AP01498241	AP01498541	AP01498542	AP01498560	AP01499051	AP01499168
AP01499347	AP01499495	AP01500280	AP01500285	AP01500285	AP01500289
AP01500985	AP01501342	AP01501360	AP01501430	AP01501500	AP01502203
AP01502386	AP01502425	AP01502517	AP01505123		AP01507646
AP01507716	AP01508350	AP01509984	AP01510202	AP01517266	AP01517608
AP01517641	AP01519735				

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Compatibility

- SINUMERIK Operate SW 4.5 SP2 can be combined with 840D sl 7x0.3 with CNC SW 4.5 SP2 .
- The help system is based on the documentation for the CNC SW 4.5 SP2.
- The NC alarm texts are based on the CNC SW 4.5 SP2 .

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Notes

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System:

- If, in combination with STEP7, no communication is established between the HMI and the NCU, please check the settings made under Control Panel / PG/PC interface. There, in addition to S7ONLINE, an access point

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SINUMERIK\_CP (SINUMERIK 7xx) -> TCP/IP -> <network card> must be provided. If required, configure this access point as specified.

- To operate the simulation, the NC MD \$MC\_FRAME\_ACS\_SET must be set to 1.
- If the PC is connected via the network to the X130 of the NCU, the simulation cannot run.
- The screen size of Operate on the PC monitor can be set in the file <installation directory>\user\sinumerik\hmi\cfg\slrs.xml.  
[Global]  
Resolution = ; Permissible values: 640x480, 800x600, 1024x768, 1280x1024
- The new function "network diagnostics" cannot be used on the PC.
- In the Machine area, the "Retraction" softkey is no longer available as standard. It can be reactivated by creating the slmaconfig.xml in /oem/sinumerik/hmi/cfg file with the following content:  
<?xml version="1.0" encoding="UTF-8" standalone="yes" ?>  
<CONFIGURATION>  
<Settings>  
<ShowRetractSoftkey type="bool" value="true" />  
</Settings></CONFIGURATION>