

Basic components

CNC controls

SINUMERIK 810D powerline

Selection and ordering data

Designation	Order No.
SINUMERIK 810D powerline	
• CCU box with 3 internal power sections internal cooling, incl. 3-axis shield-connection plate	6FC5447-0AA00-0AA1
• CCU box with 2 internal power sections internal/external cooling, incl. 2-axis shield-connection plate	6FC5447-0AA01-0AA0
• CCU 3.4 module with system software 6 (export)	6FC5410-0AY03-1AA0
CCU system software On PC card	
Standard 810D powerline	
• Single license for current software version	6FC5450-0AX03-0AH0
• Single license for specific software version	6FC5450-■AX03-■AH0
• Software update service	6FC5450-0AX03-0AH2
• Update/upgrade on order of specific software version	6FC5450-■AX03-■AH3
Export 810DE powerline	
• Single license for current software version	6FC5450-0AY03-0AH0
• Single license for specific software version	6FC5450-■AY03-■AH0
• Software update service	6FC5450-0AY03-0AH2
• Service Pack/upgrade on order of specific software version	6FC5450-■AY03-■AH3
Toolbox For SINUMERIK 810D/840D ¹⁾ on CD-ROM with:	
• PLC basic program	
• Standard machine data	
• NC variable selector	
- Single license for current software version	6FC5252-0AX21-0AB0
- Single license for specific software version	6FC5252-■AX21-■AG0
- Single license without data carrier	6FC5252-0AX21-0AB1
- Software update service	6FC5252-0AX21-0AB2
- Service Pack on order of specific software version	6FC5252-■AX21-■AG3
Cable distributor Without DU box connector for connection of 2 handwheels (encoders with differential or TTL signals, as required), 2 probes	6FX2006-1BA02
DU box connector (10 units) For connecting devices to cable distributor	6FX2003-0FA00
MPI bus cable, pre-assembled	See MOTION CONNECT

Designation	Order No.
<i>Spare and wear parts</i>	
Backup battery For CCU 3.4 module	6FC5247-0AA18-0AA0
PC card According to PCMCIA standard, type STRATA, empty	
• 8 MB	6FC5247-0AA11-0AA3
• 16 MB	6FC5247-0AA11-1AA3

Important ordering information:

SINUMERIK 810D powerline and the **standard software** are ordered using two order numbers. Hardware and software on the PC card must be ordered together. The standard software can only be supplied in a bundle. The software order item must directly follow the hardware order item. The export software must not be explicitly ordered.

Ordering example:

Order item	Designation	Quantity	Order No.
1	SINUMERIK 810D powerline	1	6FC5410-0AY03-1AA0
2	Standard software for SINUMERIK 810D powerline	1	6FC5450-0AX03-0AH0

Example of a specific software version, e.g., 6.5:
6FC5450-6....-5...

¹⁾ One license is required for each SINUMERIK CCU. The CD-ROM contains several software versions.

Basic components

CNC controls

SINUMERIK 840D powerline NCUs

Selection and ordering data

Designation	Order No.
NCU system software 2 axes On PC card	
• Export 840DE powerline	6FC5250-■DY30-■AH■
NCU system software 4 axes grinding On PC card	
• Export 840DE powerline	6FC5250-■HY30-■AH■
NCU system software 6 axes On PC card	
• Standard 840D powerline	6FC5250-■CX30-■AH■
• Export 840DE powerline	6FC5250-■CY30-■AH■
NCU system software 12 axes On PC card	
• Standard 840D powerline	6FC5250-■BX30-■AH■
• Export 840DE powerline	6FC5250-■BY30-■AH■
NCU system software 31 axes On PC card	
• Standard 840D powerline	6FC5250-■AX30-■AH■
• Export 840DE powerline	6FC5250-■AY30-■AH■
- Single license for current software version	0 0 0
- Single license for specific software version	■ ■ 0
- Single license without data carrier	0 0 1
- Software Update Service	0 0 2
- Upgrade for specific software version	■ ■ 3
Toolbox¹⁾ For SINUMERIK 810D/840D on CD-ROM with:	
• PLC basic program	
• Standard machine data	
• NC variable selector	
- Single license for current software version	6FC5252-0AX21-0AB0
- Single license for specific software version	6FC5252-■AX21-■AG0
- Single license without data carrier	6FC5252-0AX21-0AB1
- Software Update Service	6FC5252-0AX21-0AB2
- Upgrade for specific software version	6FC5252-■AX21-■AG3

Designation	Order No.
NCU box For accommodating the NCU 561.5/571.5/572.5/573.5	6FC5247-0AA00-0AA3
NCU 561.5	6FC5356-0BB15-0AA0
NCU 571.5	6FC5357-0BB15-0AA0
NCU 572.5	6FC5357-0BB25-0AA0
NCU 573.5	6FC5357-0BB35-0AA0
CNC user memory Expanded by 1 MB	6FC5251-0AD02-0AA0
PLC user memory Expanded by 64 KB	6FC5252-0AA03-0AA0
I/O interfacing via PROFIBUS DP Software option	6FC5252-0AD00-0AA0
Link module (PROFIBUS DP) For NCU 573.5	6FC5212-0AA01-1AA0
Cable distributor For connecting 2 handwheels, 2 probes and 4 digital inputs/ outputs	6FX2006-1BA02
DU box connector 4-pole (10 units) For connecting devices to cable distributor	6FX2003-0FA00
Spare and wear parts	
Battery	6FC5247-0AA18-0AA0
Battery compartment With battery and fan	6FC5247-0AA06-0AA0
PC card Acc. to PCMCIA standard Type STRATA (empty)	
• 8 MB (up to and including NCU software version 7.2)	6FC5247-0AA11-0AA3
• 16 MB (NCU software version 7.4 and higher)	6FC5247-0AA11-1AA3
Device bus cable 50 mm (1.97 in)	6FC5247-0AA23-0AA0
Drive bus cable For 50 mm (1.97 in) module width	6SN1161-1CA00-0AA0
Terminator For drive bus	6FX2003-0DA00

The device bus cable and the terminator for the drive bus are included in the NCU scope of supply.

Example of a specific software version, e.g., 7.4:
6FC5250-7...-4...

From software release 6.4 or higher (6.5 for NCU 5xx.5), the NCU system software can be used for 2, 6, 12 or 31 axes. These numbers of axes result in the following maximum number of physical axes (also in the PLC program):

- NCU 561.5: 2 physical axes
- NCU 571.5: 6 physical axes
- NCU 572.5/NCU 573.5: 31 physical axes

¹⁾ One license is required for each NCU. The CD-ROM contains several software versions.