

SIEMENS

Motion Control

SINUMERIK 840

Equipment for Machine Tools

Catalog
NC 62

Edition
2021

[siemens.com/sinumerik](https://www.siemens.com/sinumerik)

SINUMERIK Operate

Handheld units

SINUMERIK HT 8

Overview



The mobile SINUMERIK HT 8 handheld terminal combines the functions of an operator panel and a machine control panel in a single device, permitting complete operator control and monitoring of machines. It can be used as a supplementary main operator panel or as a secondary control panel.

The supplied touch pen with a holding loop permits easy operation of the touch screen, even when operators are wearing gloves. The safety system is designed to allow personnel to work in the machine's hazard zone.

Benefits

- Mobility for operator control and monitoring
- Pixel-graphics 7.5" TFT color display
- Operation via touch screen, membrane keys and touch pen
- Emergency stop button and 2 enabling buttons for left-handed and right-handed operators
- Easy hot swapping during operation (hot plug and play), without triggering the emergency stop in combination with the PN Plus connection box and without an additional, manual actuating element/keyswitch. Hot swapping during operation without triggering an emergency stop on basic versions requires a manual actuating element/keyswitch and terminating plug.
- Rugged, compact and ergonomically designed
- Signal cables easy to replace without special tools (accessories)

Design

The emergency stop button and the 2 enabling buttons (3-step) each have two channels.

Possible connections for SINUMERIK HT 8:

- In the control cabinet via the Basic PN connection module
- At any preferred mounting location in the plant via the Basic or PN Plus connection box

Function

The SINUMERIK HT 8 operates according to the thin client principle. The operating software is already installed on a SINUMERIK NCU/PCU or SIMATIC IPC. Screen content from the NCU/PCU/IPC is transferred to the HT 8 and key information from the HT 8 to the NCU/PCU/IPC via Industrial Ethernet. The HT 8 display shows the same operator interface that is displayed on the standard operator panels of the SINUMERIK control system.

The operator interface can be customized if required (see SINUMERIK Integrate).

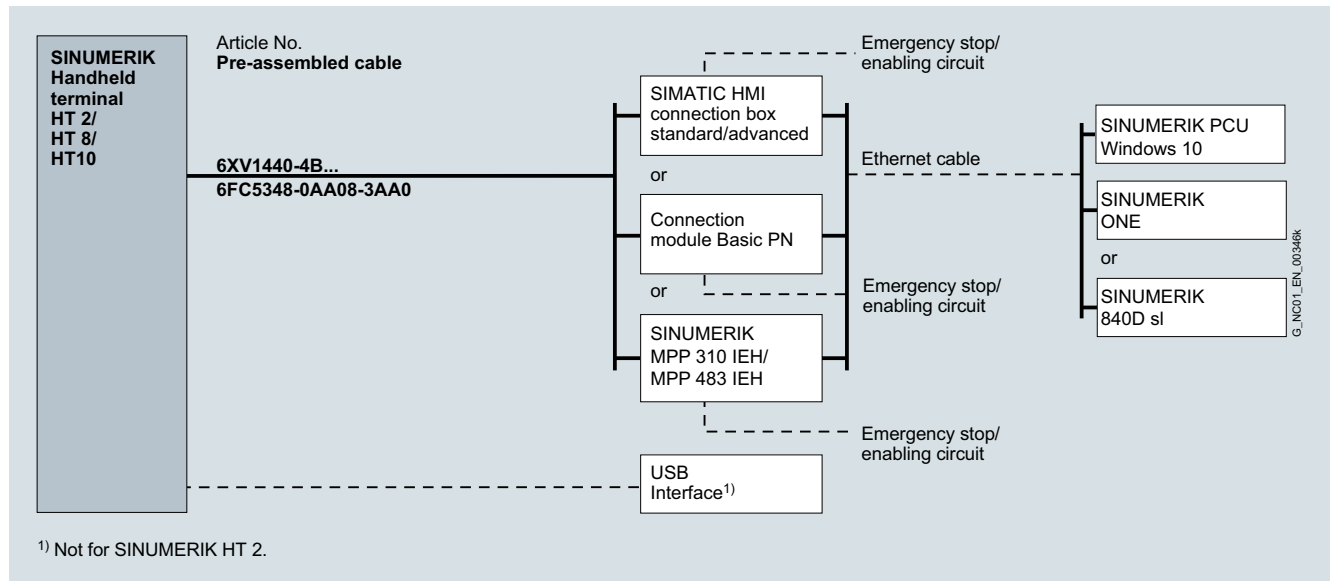
Technical specifications

Article number		6FC5403-0AA20-0AA1	6FC5403-0AA20-1AA1
Product brand name		SINUMERIK	SINUMERIK
Product short term		HT 8	HT 8
Product designation		Handheld terminal	Handheld terminal
Product feature		Without hand-wheel	With handwheel
Screen diagonal	in	7.5	7.5
Design of the display		TFT color VGA	TFT color VGA
Screen resolution of the display	Pixel	640 × 480	640 × 480
Supply voltage at DC	V	24	24
Active power consumption maximum	W	13	13
Degree of protection		IP65	IP65
Environmental category acc. to IEC 60721-3-3		Condensation and icing excluded. Low air temperature 0 °C (32 °F).	Condensation and icing excluded. Low air temperature 0 °C (32 °F).
Relative humidity at 25 °C (77 °F), during			
• storage	%	5 ... 95	5 ... 95
• transport	%	5 ... 95	5 ... 95
• operation	%	5 ... 95	5 ... 95
Ambient temperature, during			
• storage	°C (°F)	-20 ... +55 (-4 ... +131)	-20 ... +55 (-4 ... +131)
• transport	°C (°F)	-20 ... +55 (-4 ... +131)	-20 ... +55 (-4 ... +131)
• operation	°C (°F)	0 ... 55 (32 ... 131)	0 ... 55 (32 ... 131)
Outer diameter of the enclosure	mm (in)	290 (11.41732)	290 (11.41732)
Height	mm (in)	65 (2.55906)	65 (2.55906)
• Note		Without control elements	Without control elements
Net weight	kg (lb)	1.73 (3.814)	1.73 (3.814)
Certificate of suitability		CE, cULus	CE, cULus

Integration

The SINUMERIK HT 8 handheld terminal can be used for:

- SINUMERIK 840D sl:
NCU 710.3B PN/NCU 720.3B PN/NCU 730.3B PN
- SIMATIC IPC Windows 10
- SINUMERIK PCU



Connection overview for SINUMERIK HT 2/HT 8/HT 10

Selection and ordering data

Description	Article No.
SINUMERIK HT 8 handheld terminal Based on the thin client principle Operating software in the SINUMERIK NCU/PCU or SIMATIC IPC	6FC5403-0AA20-0AA1
SINUMERIK HT 8 handheld terminal with handwheel Based on the thin client principle Operating software in the SINUMERIK NCU/PCU or SIMATIC IPC	6FC5403-0AA20-1AA1
Accessories	
PN Basic connection box IP65 degree of protection Without automatic emergency stop override for mounting in the system	6AV6671-5AE01-0AX0
PN Plus connection box IP65 degree of protection With automatic emergency stop override for mounting in the system	6AV6671-5AE11-0AX0
Connection module Basic PN Without automatic emergency stop override for mounting in the control cabinet with terminating plug	6FC5303-0AA01-1AA0

Description	Article No.
Accessories (continued)	
Wall holder For safe storage of the SINUMERIK HT 8, also suitable for stationary operation	6AV6574-1AF04-4AA0
Touch pen with holding loop For SINUMERIK HT 8	6FC5348-0AA08-4AA0
Protective film (2 units) For MP 277 and SINUMERIK HT 8	6AV6671-5BC00-0AX0
Signal cable For Mobile Panels PROFINET	
• Length 2 m (6.56 ft)	6XV1440-4BH20
• Length 5 m (16.4 ft)	6XV1440-4BH50
• Length 8 m (26.2 ft)	6XV1440-4BH80
• Length 10 m (32.8 ft)	6XV1440-4BN10
• Length 15 m (49.2 ft)	6XV1440-4BN15
• Length 20 m (65.6 ft)	6XV1440-4BN20
• Length 25 m (82 ft)	6XV1440-4BN25
Spiral connection cable For SINUMERIK HT 2/HT 8/HT 10 Length 1.5 m (4.92 ft), extendable to 3.5 m (11.5 ft)	6FC5348-0AA08-3AA0