

Programming Station for Lathe Controls

Programming and training on a PC

www.heidenhain.com/programming-stations

HEIDENHAIN programming stations

Programming, archiving and training

Your workstation

Why use a programming station?

You can, of course, easily write your programs with HEIDENHAIN lathe controls right on your machine. Nevertheless, short reclamping intervals and other machining tasks can often hinder any prolonged or concentrated programming work. DataPilot, the HEIDENHAIN programming station for lathe controls, allows you to create NC programs just as you would at the machine, but away from the noise and distractions of the shop floor.

Creating programs

Relying on the programming station to program, test and optimize cycle programs, smart.Turn programs or DIN PLUS programs significantly reduces your machine idle time. And because programming and testing are performed in the same manner as on the lathe, users don't need to adjust to a new operating environment. Based on the same software used in the control, DataPilot also gives you the assurance that programs created with it can immediately be run on the machine.

Testing programs created offline

Of course, you can also test programs that were written on a CAD/CAM system. The high-resolution program verification graphics help you to easily spot contour damage and hidden details even in complex programs.

Training with DataPilot

Because DataPilot is based on the software used on the lathe control, it is ideally suited for all levels of vocational training. Programming and program validation on the DataPilot PC are performed in exactly the same way as on the machine. DataPilot even simulates setup functions such as defining the workpiece datum, measuring tools or running individual cycles, smart.Turn programs or DIN PLUS programs. This gives learners the confidence they need to work on the actual machine.

Archiving programs

Despite the large memory capacity of HEIDENHAIN lathe controls, you should also back up your programs on an external system. The HEIDENHAIN lathe controls have a USB port and an Ethernet interface that allow you to integrate the control into your existing network or to connect the DataPilot PC directly to the control.

Convenient program transfer functions support both programming as well as archiving on the DataPilot PC.

What can the programming station do?

The programming modes offer you the same features as the lathe controls on the machine. And since you are using the original control software, there are no compatibility problems. Part programs created with the programming station run on any machine tool equipped with the appropriate control, assuming that the DataPilot software has been adapted to your machine.

As a further benefit, all fee-based **software options** for the control are free and fully enabled on DataPilot, allowing users of the full versions and free demo version to thoroughly test all functions and decide whether an upgrade on the machine is worthwhile.

What does the programming station look like?

The DataPilot software is an application for PCs with Windows operating systems. The PC screen displays the control's user interface just as on the machine and provides the same graphical support. The programming station is operated via the PC keyboard. A keyboard strip helps you determine which PC function keys match which control keys.

Demo version of the programming station

A demo version of DataPilot is available for testing (downloadable for free at www.heidenhain.com/programming-stations). It includes all functions of the control and permits short programs to be saved. No software release module (USB dongle) is required for the demo version. However, the following restrictions apply:

- Up to 200 lines for smart.Turn programs or DIN PLUS programs
- Up to six cycles in cycle programs
- The creation of NC programs with TURN PLUS is not possible

Full version of the programming station

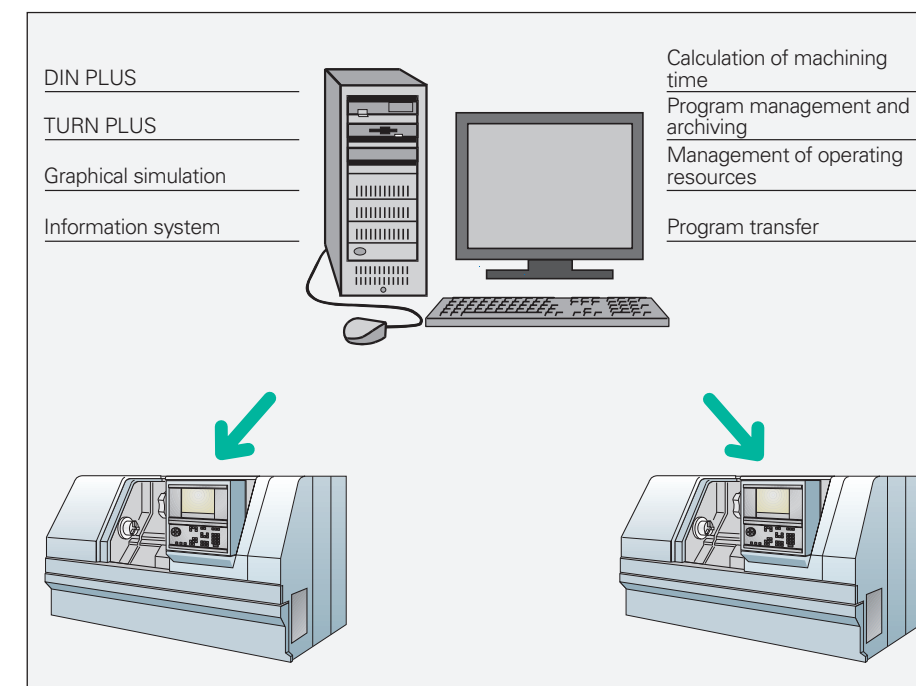
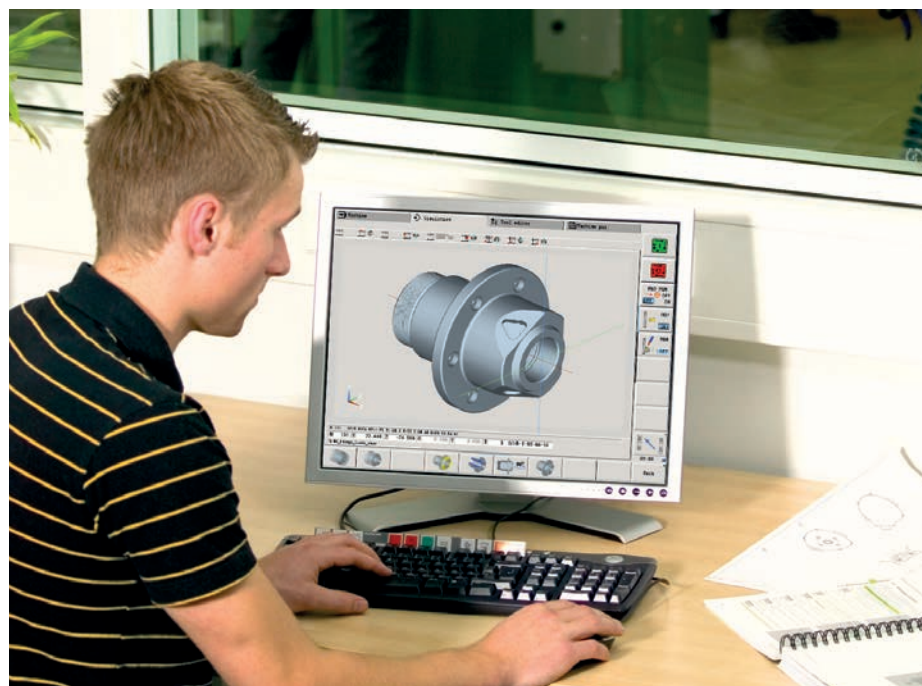
The full version of DataPilot offers you the following benefits:

- Storage for programs of any size
- Technical support from HEIDENHAIN
- Keyboard strip

A software release module (USB dongle) is included in delivery to activate the full version.

DataPilot is available in two versions:

- **Single-station license**
- **Network license** for 14 or 20 stations. The stations must be networked with each other, because the software release module (USB dongle) is connected to only one PC. The network license is therefore especially useful for training environments.



Versions and system requirements

Which programming stations are available?

The following programming stations are available for HEIDENHAIN controls:

- DataPilot MP 620 for MANUALplus 620
- DataPilot CP 640 for CNC PILOT 640

The programming station contains:

- Programming station software
- VirtualBox (VBox) virtualization software from ORACLE
- VBox expansion: TNC VB Base Software and data for the installation and operation of all programming stations (Control Center and virtual keyboard)

System requirements

- *Operating system:* Windows 7, 8, 8.1, 10 (64-bit) or 11 (64-bit) PC with the recommended system requirements
- *Processor:* Processor with virtualization support
- *Main memory:* At least 4 GB of RAM (of which approx. 1.8 GB for each programming station that is running)
- *Hard disk:* At least 10 GB of available RAM for each programming station
- *Resolution:* At least 1024 x 768 pixels
- *Color depth:* At least 65536 colors (16 bits)
- *Interfaces:* USB port (for software release module)
- LAN port (for network license)

DataPilot	DataPilot MP 620 DataPilot CP 640
Demo version of the programming station	www.heidenhain.com/ programming-station
Full version, single station license	ID 1230536-02
Full version, network license, 14 stations	ID 1230537-02
Full version, network license, 20 stations	ID 1230538-02

Conversational languages

You can install DataPilot in several languages and switch between them during operation. All dialog boxes and soft keys are then displayed in the respective national language. The following languages are available:

- Chinese (simplified and traditional)
- Czech
- Danish
- Dutch
- English
- Finnish
- French
- German
- Hungarian
- Italian

- Korean
- Norwegian
- Polish
- Portuguese
- Romanian
- Russian (Cyrillic)
- Slovak
- Slovenian
- Spanish
- Swedish
- Turkish

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Further information:

- *MANUALplus 620* brochure
- *CNC PILOT 640* brochure