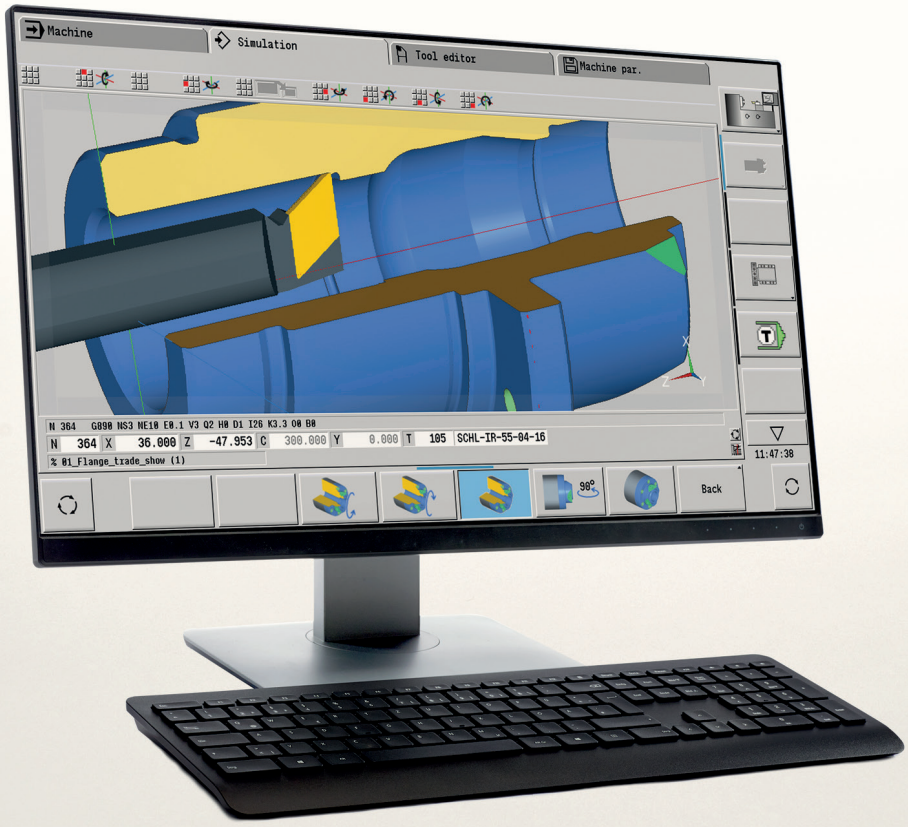
HEIDENHAIN



Programming Station for Lathe Controls

Programming and Training on a PC

09/2021

HEIDENHAIN programming stations
Programming, archiving, training

Why a programming station?
You can, of course, easily write your programs with HEIDENHAIN lathe controls right on the machine. Nevertheless, short reloading times and other machining tasks can often hinder any prolonged or concentrated programming work. With DataPilot, the HEIDENHAIN programming station for lathe controls, you have the capability of programming just as you do at the machine, but away from the noise and distractions of the shop floor.

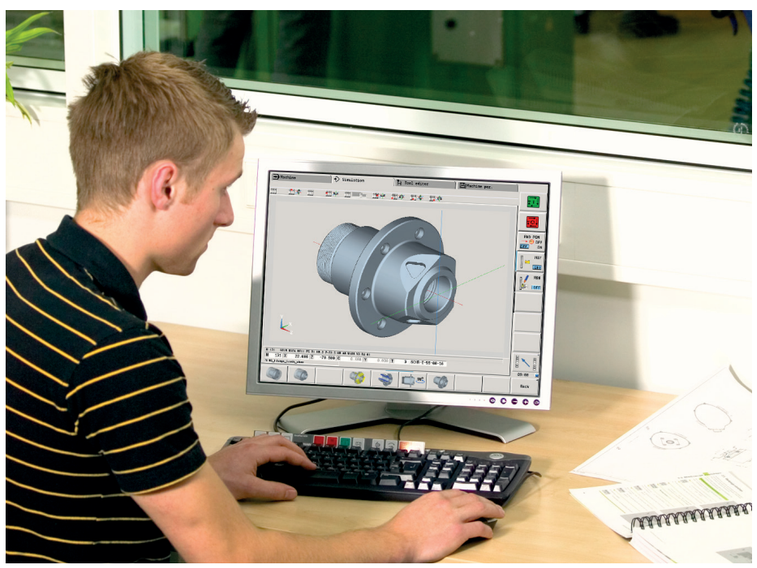
Creating programs
The programming, testing, and optimization of cycle programs, smart.Turn or DIN PLUS programs with the programming station significantly reduce machine idle time. This does not even require an adjustment in thinking, because, with DataPilot, programming and testing are performed in the same manner as on the lathe. DataPilot is based on the same software that is in the control. This also gives you the assurance that a program created with DataPilot can be run on the machine immediately.

Testing of 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 same software as the lathe control, it is ideally suited for apprentice and advanced training. Programming and program testing on the DataPilot PC function exactly the same as they do on the machine. DataPilot even simulates setup functions such as defining the workpiece datum, measuring tools or running individual cycles or smart.Turn or DIN PLUS programs. This gives trainees the confidence that they will need for working on the actual machine.

Archiving programs
Even though the HEIDENHAIN lathe controls have a large memory capacity, you should also back up your programs on an external system. The HEIDENHAIN lathe controls feature a USB interface and an Ethernet interface. They enable 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.



Your workstation

What can the programming station do?
The programming modes offer you the same features as the lathe controls on the machine. With the programming station, you are working with the original control software. This ensures compatibility. Part programs created with the programming station run on any machine tool equipped with the appropriate control. The prerequisite is that the DataPilot software has been adapted to your machine.

One special benefit: the complete array of **software options** available at a cost for the control are free and fully enabled on DataPilot. This enables users of the licensed versions and the free demo version to amply test all functions and then 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 shows you the control's user interface as on the machine, and offers the familiar graphic support. The programming station is operated through the PC keyboard. A keyboard strip shows the representation of the control keys by the PC function keys.

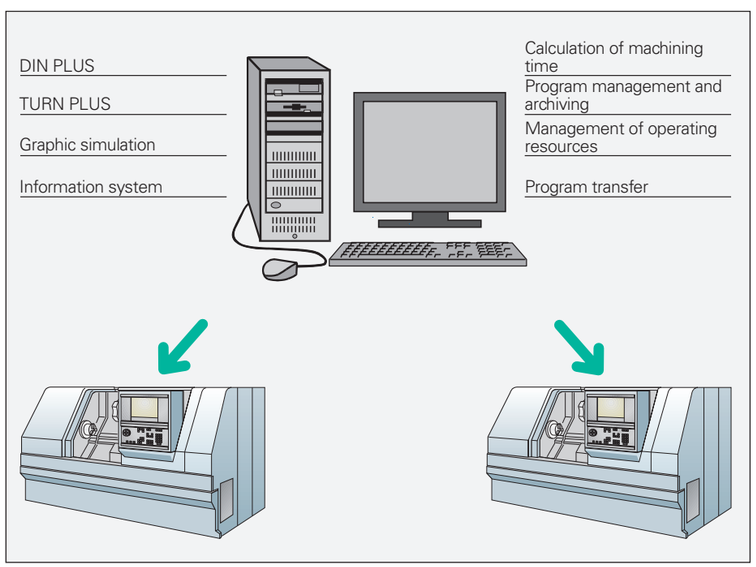
Demo version of the programming station
A demo version of DataPilot is available for testing (free download at *www.heidenhain.de* or on DVD). It includes all functions of the control and permits short programs to be saved.

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 rooms.



Versions and system requirements

Which programming stations are available?

The following programming stations are available for HEIDENHAIN lathe 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)

The programming station DVD also includes all of the necessary drivers and the current User's Manuals in all available languages.

DataPilot	DataPilot MP 620 DataPilot CP 640
Free demo version (DVD)	ID 1230525-01[1)]
Full version, single station license	ID 1230536-01
Full version, network license, 14 stations	ID 1230537-01
Full version, network license, 20 stations	ID 1230538-01

[1)] Can also be downloaded from *www.heidenhain.com/programming-stations*

System requirements

- *Operating system:* Windows 7, 8, 8.1 or 10 (64-bit) PC with the respectively 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 65 536 colors (16 bits)
- *Drive:* DVD drive (for programming station DVD)
- *Interfaces:* USB port (for software release module)
- LAN port (for network license)

Conversational languages

You can install DataPilot in several languages and switch among them during operation. All dialogs 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

Windows 7, 8, 8.1 and 10 are trademarks of Microsoft Corporation

HEIDENHAIN

DR. JOHANNES HEIDENHAIN GmbH
Dr.-Johannes-Heidenhain-Straße 5
83301 Traunreut, Germany
☎ +49 8669 31-0
FAX +49 8669 32-5061
E-mail: info@heidenhain.de

www.heidenhain.de

Further information:

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

826688-26 · 2 · 09/2021 · H · Printed in Germany