HEIDENHAIN

September 2016

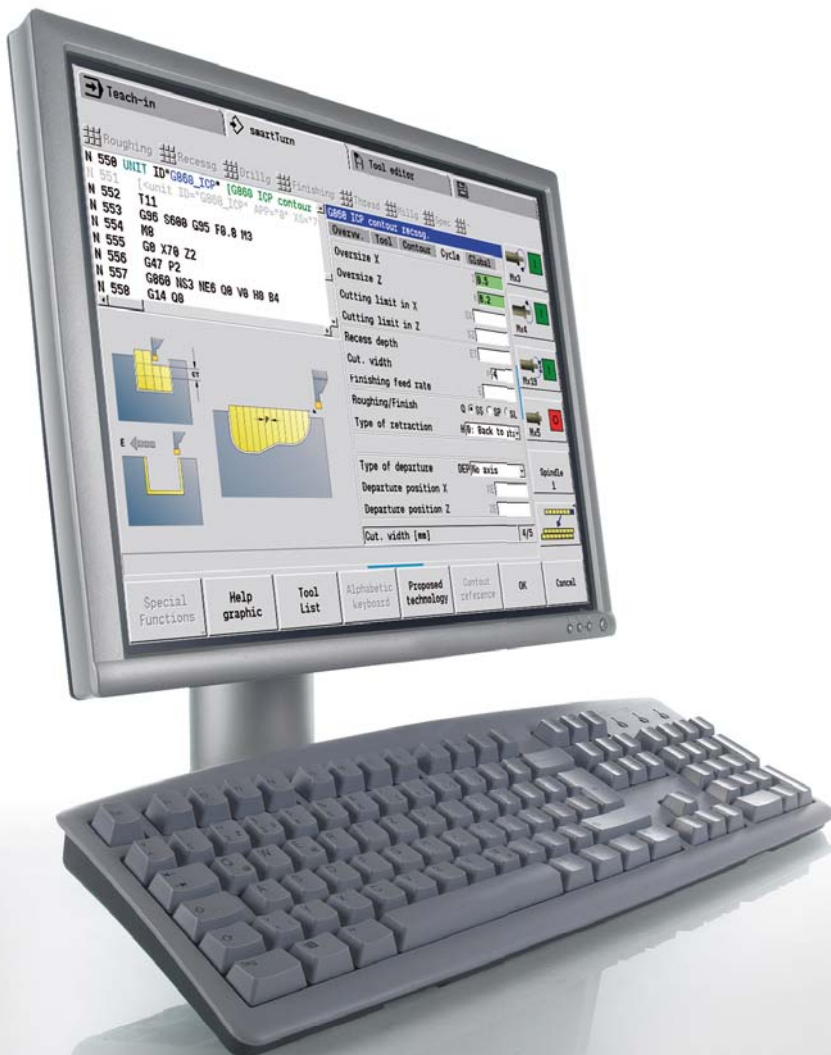# Programming Station for Lathe Controls

Programming and Training on a PC

HEIDENHAIN programming stations
– Programming, archiving, training

Why a programming station?
You can, of course, easily write part 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 lathes, 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
Programming, testing and optimizing smart.Turn and DIN PLUS programs with DataPilot on your PC substantially reduce idle machine times. You do not need to adjust your way of thinking, since you program and test with DataPilot in exactly the same way as on the lathe. DataPilot has the same software as the control. This ensures 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.
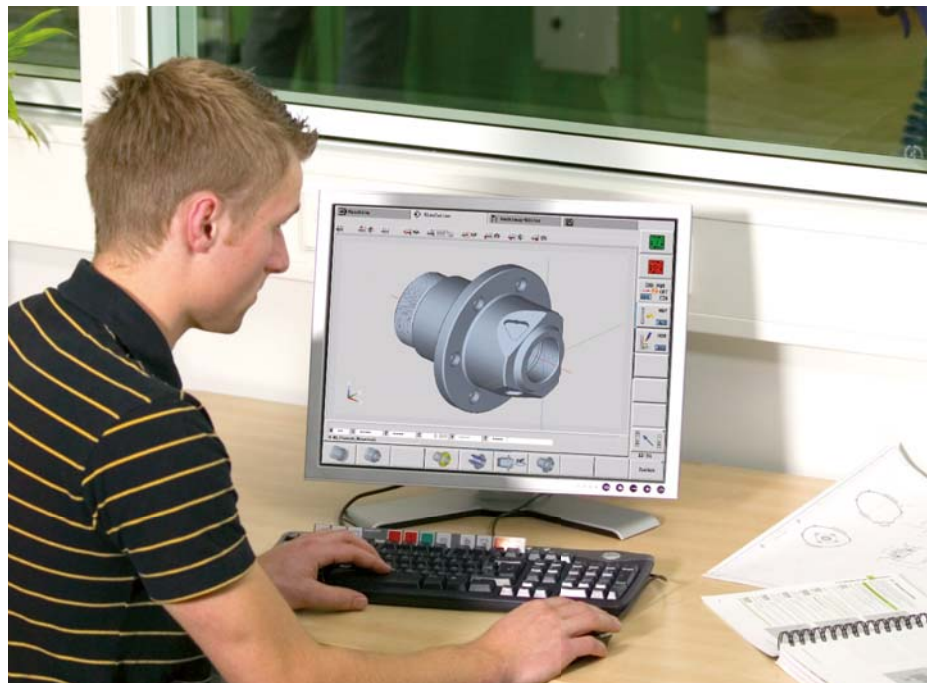
Training with DataPilot
Because the DataPilot is based on the same software as the lathe control, it is ideally suited for apprentice and advanced training. Programming and program testing on the DataPilot PC function exactly the same as they do on the machine. DataPilot even simulates setup functions such as defining the workpiece datum, measuring tools or running individual cycles or smart.Turn or DIN PLUS programs. This gives the trainee the experience needed to enable him to safely operate the machine later.

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.

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 runs on a PC. 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 the 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:
- smart.Turn or DIN PLUS programs can have up to 200 lines
- Cycle programs can have up to 6 cycles
- Creation of programs with TURN PLUS is not possible
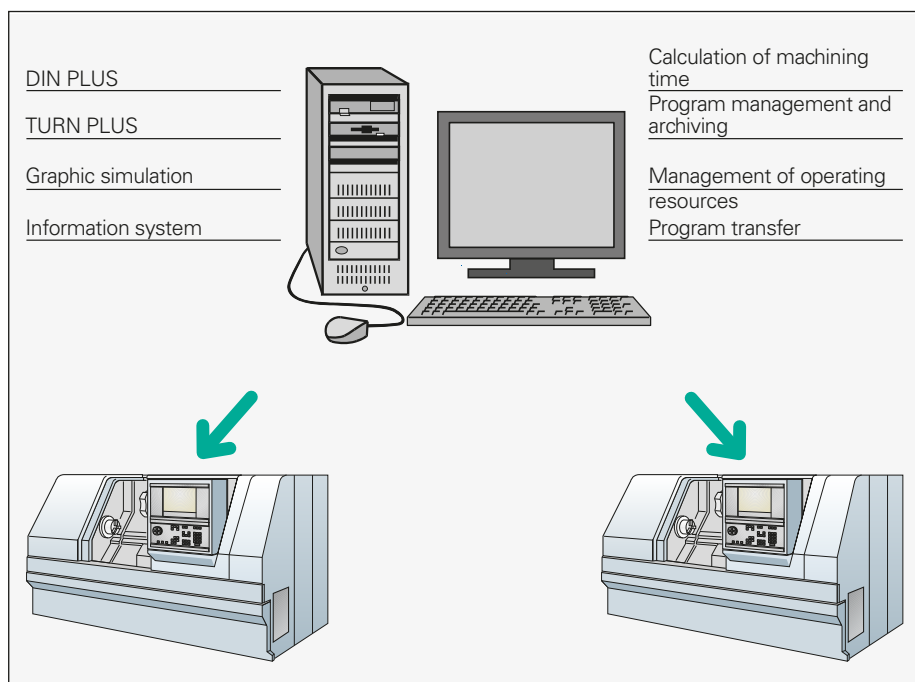
Full version of the programming station
The full version of the DataPilot offers you the following benefits:
- Storage for programs of any size
- Technical support from HEIDENHAIN
- Keyboard strip

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.

DIN PLUS

TURN PLUS

Graphic simulation

Information system

Calculation of machining time
Program management and archiving

Management of operating resources
Program transfer

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

Both programming stations are on one DVD. DataPilot includes the programming station software, the necessary drivers, and the current User's Manuals in all available languages.

DataPilot	DataPilot MP 620 DataPilot CP 640
Demo version (free of charge)	ID 737139-xx[1]
Full version, single station license	ID 737157-xx
Full version, network license, 14 stations	ID 737158-xx
Full version, network license, 20 stations	ID 737159-xx

[1] Can also be downloaded from *www.heidenhain.de*

System requirements
- Standard PC with Windows 2000, XP, Vista, 7, 8, 8.1 or 10 (32-bit or 64-bit) with the recommended system prerequisites
- Min. 512 MB RAM
- At least 250 MB memory on hard disk
- Graphics board with at least 1024 x 768 pixels resolution; color depth min. 16-bit
- USB interface or LAN for local or network license

Conversational languages
You can install the DataPilot with 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)
- Swedish
- Slovak
- Slovenian
- Spanish
- Turkish

Windows 2000, Windows XP, Windows Vista, Windows 7, Windows 8/8.1, and Windows 10 are trademarks of Microsoft Corporation.

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More information:
- *MANUALplus 620* brochure
- *CNC PILOT 640* brochure