HEIDENHAIN

HESP

Vocational training
outreach program

New possibilities
for novices and experts at the machine

HEIDENHAIN is charting a new course with its TNC7 control. This touch-based CNC control delivers intuitive operation, streamlines daily work with intelligent solutions and perfectly supports machine users in every task. The TNC7 is the control of the future.

Intuitive gesture control has become the new normal, permeating every aspect of our lives. We have also grown accustomed to customizable user interfaces. Newly designed from the ground up, the TNC7 provides this level of convenience, combining it with smart functions that include a prefect visualization of the workpiece and work envelope.

The HESP vocational training outreach program from HEIDENHAIN aims to cultivate the knowledge needed for operating high-end controls such as the TNC7 and many other solutions for machine tools in a manufacturing setting. We are there for you as a long-term competent partner providing expertise on everything from Klartext programming tips and tricks to digitalized manufacturing.

NEW
- TNC7 learning set with TNC7 programming software (single-station license), TNC7 operating panel and three coordinate system models

Find out more:
+1-847-490-1191
HTA-HC@heidenhain.com

Training support
at reduced prices

The HESP outreach program from HEIDENHAIN promotes NC training in the metalworking industry, with a focus on milling and turning.

The HESP program supports:

- Vocational training institutions
- State vocational schools
- Universities
- Apprentice training programs

hesp.heidenhain.com

These institutions can obtain equipment and training at discounted prices, including learning materials:

- Programming stations for milling or turning
- Training courses for instructors of CNC apprentices
- HIT multimedia training platform for interactive learning
- Trainer kit for explaining high-accuracy encoders
- Other learning materials such as user's manuals and posters

Programming stations
Milling and turning

Simulate shopfloor part programming with HEIDENHAIN programming stations.

Because our programming stations are based on the same software found on our controls, they are the ideal vocational training tools. Their realistic programming and simulation functionality gives apprentices confidence for real-world machining. Controls from HEIDENHAIN can be programmed in both Klartext and G-code, making the programming stations ideal training aids for schools.

Milling (M) programming station software:
TNC7, TNC 640, TNC 620 or TNC 320

Turning (T) programming station software:
CNC PILOT 640 or MANUALplus 620 for PC

Programming stations at reduced HESP prices*:

- Version with original TNC operating panel (M)
- Version with virtual keyboard, single-station license (M/T)
- Version with virtual keyboard, network license for 14 stations (M/T)
- Version with virtual keyboard, network license for 20 stations (M/T)
- TNC7 learning set, version including original TNC7 operating panel (F), including three coordinate system models

* We are happy to prepare an individualized quote

Download free demo versions with full functionality at *hesp.heidenhain.com*. Are you interested in buying a programming station? Then please send your query to *HTA-HC@heidenhain.com*

DIGITAL
SHOP
FLOOR

Fully connected
with the Digital Shop Floor from HEIDENHAIN

As Industry 4.0, Smart Factory and automatization gain traction, digitalization is clearly the wave of the future. HEIDENHAIN is meeting this growing demand for digital manufacturing with its range of Digital Shop Floor products.

A centerpiece of these solutions is the StateMonitor software. This smart analysis tool can collect, analyze and visualize machine data. Its Messenger function lets users receive configurable machine notifications in the event of malfunctions, pending maintenance and more.

Overview of functions:
- Identify machine statuses and optimization potential
- Monitor production processes, even remotely on mobile devices
- Detect idle time, machine standstill and program aborts

Harness the potential of our software products in vocational training, and benefit from discounted prices.

The complete StateMonitor package (rental license, duration: 365 days) at the reduced HESP price*:
- StateMonitor basic version with Messenger
- JobTerminal software option
- MaintenanceManager software option
- Software maintenance and support

* We are happy to prepare an individualized quote

Find out more:
www.heidenhain.com/digital-shop-floor
+1-847-490-1191 or *HTA-HC@heidenhain.com*

Training
for trainers

The HEIDENHAIN training centers offer all levels of training for teachers, college instructors and trainee supervisors at special HESP conditions.

Basic courses
- ■ TNC Klartext Programming
- ■ CNC PILOT 640

Advanced
- ■ TNC Klartext Programming
- ■ Switching to the TNC7

Expert-level courses
- ■ Measuring Workpieces with a 3D Touch Probe on the iTNC 530
- ■ Measuring Workpieces with a 3D Touch Probe on the TNC 640

You will receive all NC standard training courses at a reduced HESP price.

To see all our training courses, visit
https://www.heidenhain.us/service-support/technical-training/

Do you have any questions, or would you like to find out more? Then contact us at +1-847-490-1191 or *HTA-HC@heidenhain.com*

HIT
HEIDENHAIN **I**nteractive **T**raining

HIT perfectly combines theory and practice in a multimedia online platform for HEIDENHAIN controls.

The HIT learning software was developed specifically for students and is based on the Moodle learning platform, which is widely used at schools and universities. Through animated videos, exercises and tests, HIT teaches the most important aspects of CNC milling and turning machines, as well as basic CNC programming. Our HIT Milling 3+2 Axis Machining learning package goes into greater depth on topics such as machining in a tilted plane.

The HIT Guidebook supports students and serves as a guide for the HIT learning software.

The free demo version of the programming station lets you graphically simulate all HIT programming tasks.

HIT prices*

HIT Demo license	Free of charge
HIT Single-Station license	
HIT Basic Classroom license	
HIT Premium Classroom license	

* We are happy to prepare an individualized quote

Test the free HIT learning software Demo license now, or request the Single-Station and Classroom licenses at *HTA-HC@heidenhain.com.*
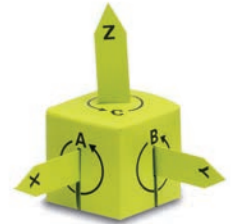
Intuitive course materials
Practical aids for explaining complex topics

Where are the axes in the machine envelope? How does high-accuracy positioning work? Why should the tools in the machine be checked regularly?

Answers to these and many other complex questions are provided in the HESP program course materials in an easy-to-understand format.

■ The HEIDENHAIN coordinate system model eliminates the need for imperfect mnemonic aids. An easy way to visualize the spatial arrangement of the axes, it is an essential aid in learning to tilt.

■ The trainer kit contains a glass scale, a linear encoder, a rotary encoder and DVDs that explain the technology of high-accuracy positioning.

■ Posters for the classroom describe various functions and options for HEIDENHAIN controls and the Digital Shop Floor.

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