

# doNC™

CNC machine simulator



## doNC Mill / doNC Turn

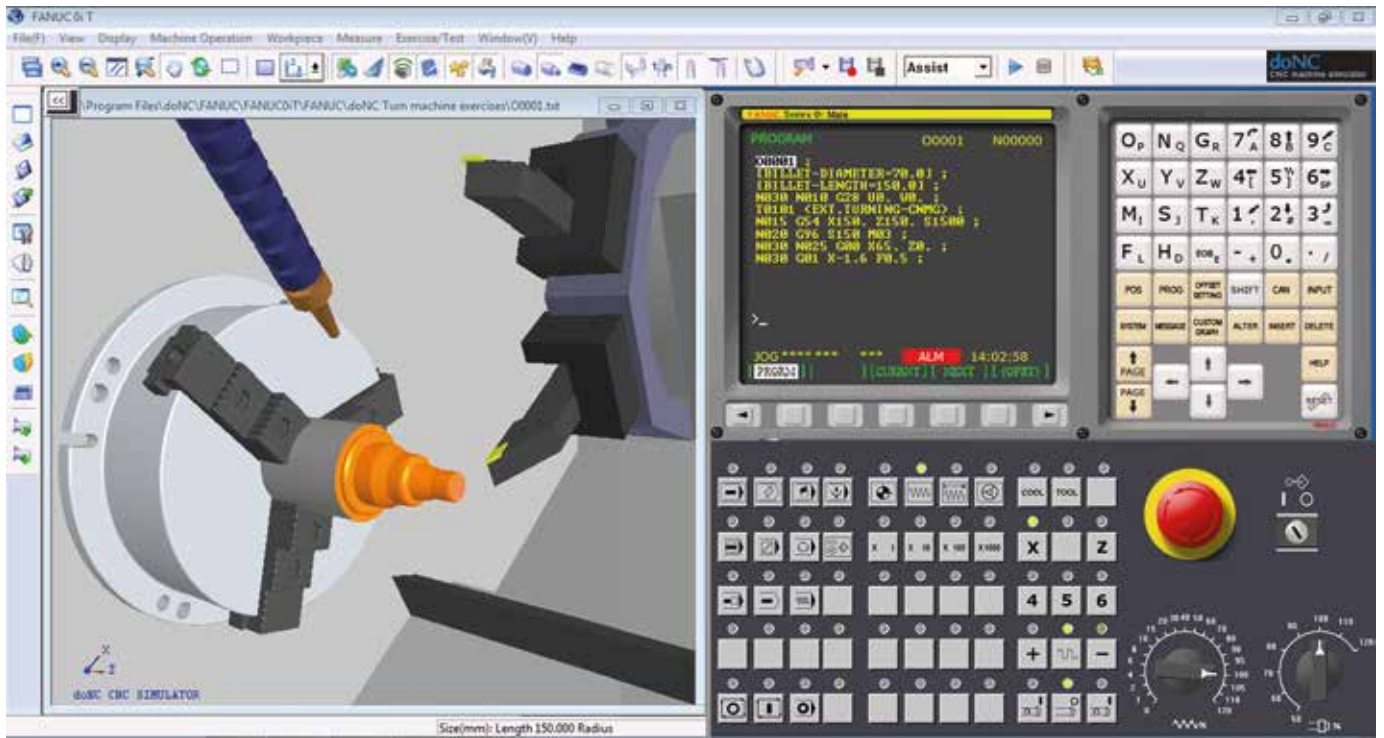
Software for learning CNC machine operation

doNC is CNC machine simulator software, designed to provide competency in operating CNC machines. Like a flight simulator, it enables a trainee to learn machine operation without an actual machine. Trainees can safely and efficiently practice their machine operating skills on a PC, and get ready to operate real CNC machines in a very short time. Colleges and training centers can greatly reduce investment on expensive equipment.

### What you can do with doNC

- Simulate NC programs - manually written or generated from CAM software.
- Simulate all console operations - MDI, JOG, etc.
- Simulate door open/close, spindle on/off, collisions, etc.
- See realistic simulation of spindle rotation, chips, coolant, etc.
- Learn operation for lathes and machining centers.
- Learn operation of popular CNC systems and control panels.
- View machine simulation in 3D graphics with dynamic rotation, zoom, pan, etc.
- Simulate canned cycles, macros.
- Learn to set tool and work offsets setting.
- Learn program editing, console operation.
- Inspect part on screen with vernier, micrometer.
- Improve realism by using touchscreen monitors and use dual monitors.
- CAPTURE and REPLAY for detailed investigation.
- Complete Multimedia software - AUDIO and VIDEO.
- Conduct online tests for trainees using Knowledge base.
- Tools database customizable by user.
- Turret can be configured for 4, 8, 12 tools.
- ATC can be configured for horizontal / vertical orientation.
- On-screen inspection measurement for tool offsets setting.
- Roughness measurements based on cutting parameters.
- G-codes and M-codes validation with G-code debugging tool.

I hear, and I forget  
I see, and I remember  
I do, and I understand  
*Confucius*



### Who benefits from doNC

In house training centers of industries for training operators, setters and programmers. CNC/CAM laboratories of Engineering and Diploma colleges, ITI institutes. Any skill development training center offering CNC machine operation course. Tech centers of CNC machine tool companies to train their customers.

### Network Monitor for training

When the software is installed on a local network it provides the instructor with the capability of managing and monitoring students, classes and tests. Instructor can query students and control machine login, logoff and machine operations. Can show students screen information on instructor's PC, enables instructor to remotely assist students via remote view or to take control of a student's PC.

### Easy student management

Student can be registered with a unique username and password. Once the student logs in from any computer in a local network the instructor can centrally manage, monitor and tutor the student. Offers increased accountability over students learning process.

### CNC systems supported



### Exercises management

Add tailor-made exercises into the server. Transmit exercises including pictures to student PC. Get answers from the student PC instantaneously.

### Test paper management

Improve quality of assessing the students. Software has test questions library management, test paper management, test process management with automatic marking of test papers. Test administrative tools like management of test data, test permits and test results to greatly simplify testing.

### Hardware Requirements

Windows XP / 7, 1.0 GHz, 1.5 Gb RAM  
600 MB HDD space  
1024x768 VGA with OpenGL

