

ACCESSORIES

Intelitek offers a wide array of options and accessories for the machining and turning centers, including.

- Quick-change tool holders
- Automatic tool changers
- Tooling and tool holder packages
- Workpiece holding devices and fixturing packages
- Raw materials packages
- Various spindles
- Digitizing package for reverse engineering
- Mobile workbench
- Servo rotary fourth axis (BENCHMAN)
- Coolant system (BENCHMAN)



Tools and fixtures for machining and turning centers



Automatic tool changer



Automatic tool turret

Accessories for FMS and CIM Integration

- Pneumatic chuck/vise
- Pneumatic shield opener
- Pneumatic controls
- Robotic interface



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Intelitek's CNC machines and software can be used in all our training solutions — from stand-alone workstations to comprehensive CIM systems.



Stand-alone CNC systems are ideal for use in CAD/CAM/CNC labs, mechatronics labs and TEAM labs.



Flexible manufacturing systems (FMS) can be created by combining any of our CNC machines with any of our vertical articulated robots. The robot can be mounted on a linear slidebase to provide mobility and increase its work area. Additional devices, such as storage systems and part feeders, can be added to expand the range of tasks performed by the system. All FMS workstations can be easily integrated in Intelitek's CIMflex systems.



FMS station in CIM system

Enriched with advanced technologies generated by the company's industrial activity, and supported by effective didactic methods, Intelitek's CAD, CAM and CNC training systems offer superior solutions to customers worldwide.

Intelitek is a world-leading developer, producer and supplier of engineering and manufacturing technology training systems. Our broad product line spans CAD, CAM, CNC, robotics, machine vision, hydraulics and pneumatics, PLCs, sensors, process control and data acquisition. We also supply integrated and customized packages ranging from small-scale flexible manufacturing systems (FMS) to complete computer integrated manufacturing (CIM) systems. Our customers include middle schools, high schools, technical colleges, universities, graduate research institutes and industrial training facilities around the world.

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CNC



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CNC Solutions



One manufacturing job generates at least three spin-off jobs in other industry sectors. Manufacturing jobs tend to pay more and provide more generous benefits than jobs in other sectors. Manufacturing jobs are considered especially valuable to local economies because they import wealth from around the nation and the world.

With nations' economic foundations so dependent upon manufacturing, manufacturers face numerous challenges. They require cost-effective equipment and manufacturing techniques to enable both custom manufacturing and mass production. They need CAD, CAM and CNC technologies to smoothly and efficiently integrate product design, development and manufacturing. Most of all, to keep pace with ever changing technologies and remain competitive in the global industrial market, manufacturers need skilled and professional manpower.

An innovator in technology education, Intelitek is committed to helping schools and organizations develop and sustain technologically skilled workforces. We are a world leading supplier of CAD, CAM and CNC training systems that effectively prepare students for careers in manufacturing industries.

From simple engraving to rapid prototyping, Intelitek offers a range of benchtop CNC machining and turning centers that meet the needs of educators and students, from the most basic fundamentals to the highest levels of machining processes and applications.

Intelitek provides complete training packages for each machine, including operating software, CAD/CAM software, manuals, curriculum, and a full range of tooling and machine accessories. All offer a high degree of accuracy and repeatability, and easy to use Windows-based control software.

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Educational Models

Our popular **spectraLIGHT** educational models are especially designed for CNC training.



spectraLIGHT 0200 Machining Center

A tabletop CNC system that fits comfortably into any classroom. This 3-axis machine uses EIA, ISO and Fanuc compatible G and M code programs to cut parts in a variety of materials.

spectraLIGHT 0400 Turning Center

A tabletop CNC system that fits comfortably into any classroom, this 2-axis slant bed machine uses EIA, ISO and Fanuc compatible G and M code programs to cut parts in a variety of materials. Optional: 8-tool turret.



Advanced Training Models

Our **proLIGHT** models are great for advanced technical and career training in CNC technologies.



proLIGHT 1000 Machining Center

A versatile 3-axis CNC mill for training, engineering and light-duty industrial machining applications. Designed to produce accurate machining and smooth surface finishes. R8 spindle taper accommodates standard tooling. Optional: 4-tool ATC.

proLIGHT 3000 Turning Center

A versatile 2-axis CNC lathe for training, engineering and light-duty industrial turning applications. Designed for high accuracy on a wide variety of materials. 5C spindle taper accommodates industry standard 5C collets. Optional: 8-tool ATC.



Industrial CNC

Our flagship **BENCHMAN**® line provides affordable solutions for jewelry manufacturing, medical and dental applications, engraving, rapid prototyping and other industrial machining applications.

BENCHMAN® 2000 Machining Center



A perfect low-cost solution for prototyping, engraving, small part production and many other applications. With its open structure, this BENCHMAN is ideal for applications that do not require a fully enclosed machine. Optional: 4-tool ATC; servo rotary 4th axis.

BENCHMAN® 4000 Machining Center

A fully-enclosed machining center that provides dependable and robust performance with the benefits of low startup costs, low operating costs, low space requirements, and easy portability. Optional: 4-tool ATC; servo rotary 4th axis; graphite dust collection system.



BENCHMAN® XT Machining Center



An easy and affordable solution for graphite machining, mold making and rapid prototyping. This machine includes a 20-tool ATC. The granite polymer composite base provides exceptional rigidity and 8 times the vibration dampening of other materials. Profile linear guideways ensure accurate positioning and repeatability. Each axis is laser calibrated at the factory.

Optional: 45,000 rpm spindle; tool offset probe; 12-tool ATC; servo rotary fourth axis; graphite dust collection system.

BENCHMAN automatic tool changer.



SOFTWARE



spectraCAM Turning spectraCAM Milling spectraCAD Engraver

Our CAD and CAM software packages for designing parts and generating tool paths are excellent training tools. The CAM software supports two axis machining and integrates smoothly with the control programs of our CNC machining and turning centers.

CNC Programming Personal Tutor

The software provides full 3D verification of CNC programming codes for both milling and turning. Used to teach G and M code programming, the software's realistic solid model display allows students to visualize part geometry before it is actually produced on a CNC machine tool.



CNCMotion

A fully functional 3D graphic display module that provides dynamic simulation and graphic tracking of the proLIGHT 1000 machining center. Integrated within the proLIGHT 1000 control software package, the software enables accurate testing and debugging of programming prior to actual CNC machining.



CNC Router



An enclosed benchtop CNC router for wood working applications. This 3-axis machine uses EIA, ISO and Fanuc compatible G and M code programs. Optional: dust collection system; support stand (shown here).