Robotics Accessories

Intelitek’s robots and software can be used in all our training solutions – from stand-alone workstations to comprehensive CIM systems.

SCORBOT-ER 4u
workcell for student applications in a robotics lab

SCORBOT-ER 4u
on a linear sidebase tends two CNC machines in an FMS workcell

SCORBOT-ER 9Pro
performs assembly operations

SCORA-ER 14Pro
assembles parts and tends quality control devices

MOTOMAN-HP3
executes automated welding operations

Enriched with advanced technologies and supported by effective didactic methods, Intelitek’s renowned line of robotics training systems have provided superior solutions to customers worldwide for over 20 years.

Intelitek is a world-leading developer, producer and supplier of engineering and manufacturing technology training systems. Our broad product line spans lab equipment for CAD, CAM, CNC, Robotics, Machine Vision, Hydraulics, Pneumatics, PLCs, Sensors, Quality Control, FMS, CIM, and more. Intelitek supports its range of lab products with LearnMate, a complete E-Learning package that includes content modules, LearnMate’s Learning Management System (LMS), and LearnMate Live/TrainNet, a live (synchronous) Distance Learning platform.

Intelitek’s unique Blended Learning approach offers a complete learning solution, with customizable packages for various levels of learning, including:

• State-of-the-art lab equipment for industrial-level "hands-on" training
• LearnMate e-learning content that enables students to experience a range of technologies through "virtual hands-on" practice, using high-level, interactive animations
• 3D simulation software that enables students to program and practice with industrial-level simulations of various manufacturing technologies and environments.

Intelitek’s Blended Learning approach provides the most resource-efficient solution for engineering and manufacturing technology training. Intelitek’s customers include middle schools, high schools, technical colleges, universities, graduate research institutes and industrial training facilities around the world.
Robots today mean much more than the traditional industrial robots used for performing manufacturing tasks such as welding, painting, assembly and machine tending. Technological advances have produced personal robots that serve as butlers and bodyguards, medical robots that assist surgeons and hospital staff, and autonomous robots with the potential to make decisions and socialize with people. These developments in robotics pose exciting and challenging opportunities for students.

A world-leading innovator in technology education, Intelitek’s renowned line of robotics training systems serve educators and students at all levels, from the basic fundamentals to advanced study and practical work in robotics, automation, control systems, informatics and mechatronics. Intelitek’s Blended Learning approach, comprising hands-on training, virtual hands-on training, and dynamic 3D simulation software, combined with Intelitek’s LearnMate E-Learning Content, enables various levels of learning, customizable to customer needs, and providing a powerful and affordable training package.

Intelitek offers a wide range of robot programming and control software, including SCORBAS, RoboCell. Students can also program and control Intelitek robots using interface programs written in languages such as C, C++, CB and Visual Basic.

All Intelitek robots have accessible and changeable parameters. Robots can also be integrated with user-designed applications and projects, such as configuration as telerobots that are operated remotely over the Internet. Students can also develop and implement algorithms for robots to execute in conjunction with vision, control and data acquisition systems, or any PC-based software.

Intelitek provides complete robotic training packages, including programming and control software, dynamic 3D graphic simulation software, curriculum, manuals and a full range of end effectors, peripheral devices and workcell accessories.

SCORBOT-ER 4u - Versatile
This versatile and reliable training system is ideal for both stand-alone use and integration with other devices and CNC machines in automated and FMS workcell configurations. The classic SCORBOT design enables observation of the robot's working mechanical parts while ensuring student safety.

Powerful software, extensive curriculum and a wide range of accessories allow students to acquire significant experience and programming skills in robotics and automation.

SCORBOT-ER 9Pro - Industrial Training
This rugged, vertically articulated robot system offers advanced robotic path control, speed and accuracy. Designed to interface with a wide variety of automated machines, devices and end effectors, it is the perfect robot for FMS and CIM workcells.

With a controller that can simultaneously monitor and control up to 8 axes and 3D I/Os, this robot system meets the most demanding requirements of a robotic workcell.

Software

- Intelitek offers many ways for students to practice and master robotic programming.
- SCORBAS software enables intuitive programming and operation of the robot.

SCORBAS features include:
- Program coding
- Position recording
- Manual control of robot and peripheral axes
- Program execution
- Real-time data display
- Integration and support for workcell components
- Parameter manipulation for adjusting controller operation

Optional RoboCell software integrates SCORBAS with 3D dynamic simulation of the robot and workcell devices during position teaching and program execution. RoboCell also allows students to create and control simulated industrial workcells of their own design, using virtual robots that accurately replicate actual lab robots.

SCORA-ER 14Pro - SCARA Solution
This robotic system combines Yaskawa’s popular HP3, a fully articulated 6-axis robot arm, with the NXC100 controller. This robot is ideal for small part handling, assembly, packaging and small part welding applications in both stand-alone and CIM configurations. The NXC-100 controller with a Windows® CE programming pendant is simple enough for novices while also giving advanced users the sophisticated tools needed to develop and integrate multiple-program applications.

MOTOMAN-HP3 - Industrial Strength
This robot combines Yaskawa’s popular HP3, a fully articulated 6-axis robot arm, with the NXC100 controller. This robot is ideal for small part handling, assembly, packaging and small part welding applications in both stand-alone and CIM configurations. The NXC-100 controller with a Windows® CE programming pendant is simple enough for novices while also giving advanced users the sophisticated tools needed to develop and integrate multiple-program applications.