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informatics and industrial engineering – that require cross-disciplinary programs – such as mechatronics, computer science. Moreover, it is the perfect solution for your students as your students are.

Regardless of configuration or complexity, CIMflex is supplied as a turnkey system, ready for work as soon as your students are.

The basic CIMflex system includes an automatic quality control inspection, and more.

The modules reinforce many of the subjects students study throughout the series of technology modules and offer projects that challenge them to apply their knowledge and skills.

Experience with integrated technologies in educational programs not only prepares students for careers in automated manufacturing environments. It also broadens their perspective and enhances their ability to adopt and implement new and sophisticated manufacturing and management methods and technologies.

CIMflex with LearnMate CIM Curriculum

Part of Intelitek’s blended Learning approach, Intelitek’s Computer-Integrated Manufacturing (CIM) Content Modules bring state-of-the-art computer simulation software that fully replicates an industrial CIM with automated production operations such as robotic parts handling and assembly, CNC machining, part loading, conveyor transfer and quality control.

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Your Curriculum

CIMflex Supports Your Curriculum

CIMflex supports stand-alone disciplines such as mechanical engineering, electrical engineering and computer science. Moreover, it is the perfect solution for cross-disciplinary programs – such as mechatronics, informatics and industrial engineering – that require the integration of multiple technologies.

CIMflex Meets Your Academic Requirements

Educational CIM

An educational CIMflex system focuses on automated industrial-manufacturing with an emphasis on research and programming tools. The stations in the CIM are equipped with educational yet fully automated hardware components. This type of CIM cell enables significant CIM study and training even when budget and space are limited. Students gain an in-depth understanding of how the simulation capabilities of OpenCIM, robots and CNC software can play a prominent role in the management and integration of automated manufacturing processes.

Industrial Training CIM

An industrial CIMflex system is configured to function as an automated factory that performs large production runs with frequent retooling. The system is equipped fully and exclusively with industrial grade equipment and supports the design, manufacture and testing of products and components. CIMflex supports students for the transition into industry. This CIM provides high quality laboratory experiences in automated manufacturing technologies and management methodologies.

With hundreds of CIM installations worldwide, Intelitek is the proven leader in CIM technology training.

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CIMflex for the Future

Intelitek is a world-leading developer, producer and supplier of engineering and manufacturing technology training systems. Our broad product line supports the needs 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) blended learning approach. Intelitek’s unique Blended Learning approach offers a complete learning solution, with customizable packages for various levels of learning.

www.intelitek.com

Intelitek’s unique blended learning approach provides the most resource-efficient solution for engineering and manufacturing technology training.

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As manufacturers increasingly bring CIM technologies into their organizations, so too grows the need for technicians, programmers, engineers and managers who are knowledgeable and skilled in these technologies.

In keeping with Intellitek's mission to bridge the gap between classroom and industry, the CIMflex system offers sophisticated and flexible solutions for educating and training students in the principles and technologies of computer integrated manufacturing.

CIMflex: The CIM Solution

OpenCIM: Open Environment Software

OpenCIM software provides a comprehensive solution for the study and practice of CIM methods and operations. OpenCIM gives students understanding and experience in the concepts, components and software tools that comprise an integrated CIM system. OpenCIM lets students implement manufacturing processes and processes into actual CIM applications.

OpenCIM's 3D graphic display module dynamically and visually integrates students with all subsystems of the CIM system. Creates an integrated CIM system. OpenCIM interfaces with third-party software and hardware and exchange information with all subsystems through a LAN.

Loop Conveyor

CIMflex offers automatic storage and retrieval (ASRS) systems ranging from 6 storage cells to 72 storage cells, all of which resemble and perform the functions of industrial ASRS system. Part templates supplied with the ASRS have barcode design and pins for creating jobs to hold objects of various shapes and sizes. A laser barcode scanning system provides on-line identification and verification of templates.

Flexible manufacturing (FMS) workstations can be configured in any of our vertical articulated robots. A tool exchange unit enables alternating use of the robot gripper and the welding torch, making the workcell fully automated. The welding cell is enclosed within a fire retardant metal booth and complies with the strictest safety requirements.

FMS Stations

Flexible manufacturing (FMS) workstations can be created by combining any of our vertical articulated robots with any of our CNC machines or a Laser engraver. The robot can be mounted on a linear slidebase to provide mobility and increase its work area.

Additional processing stations broaden student's training opportunities in automated manufacturing technologies.

Pneumatic Feeding Station

A pneumatic manipulator tend the station.

Quality Control Station

A quality control station can be configured with any of our robots and any number of testing and measurement systems, such as:

● Automatic calipers

● Laser scan micrometer

● Automatic callipers

● Coordinate measuring machine

Software allows these devices to collect and transmit data for real-time SPC analysis.

Quality Control Station

Process Control Station

A quality control station can be configured with any of our robots and any number of testing and measurement systems, such as:

● Pneumatic vise

● Automatic screwdriver

● Automatic glue dispenser

● Automatic air pressure and fluid level.

● Machine vision

● Fire retardant metal booth and complies with the strictest safety requirements.

Assembly Station

An automated assembly station can be configured with a SCARA or a vertical articulated robot, and can include one or more devices for assembly operations, such as:

● Hydraulic Pressing Station

● Robotic welding station

● Quality control devices and operations can also be integrated in the assembly station.

Quality Control Station

Machine Vision

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The conveyor can accommodate any number of workstations and can be configured for the specific needs and physical dimensions of your school's lab. It can be separate, matrix L-shaped, table-top mounted and up to 25 meters in length.

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