PC-CNC CONNECTION AND MONITORING SYSTEM

Multi-DNC™ for the CNC connection to the corporate network

Starting from 1989, Spectrum Technologies design and develop software and Hardware technologies to connect and monitoring CNC Machine Tools.

Multi-DNC™ is a communication and management system for CNC programs that allow simultaneous upload and download from many CNC and one PC. The Package includes advantage features for file compare, editor and back plotter.

Multi-DNC™ can be easily connected to CAD-CAM systems via regular Ethernet network, in order to share CNC program database, and can be available in client-server configuration.
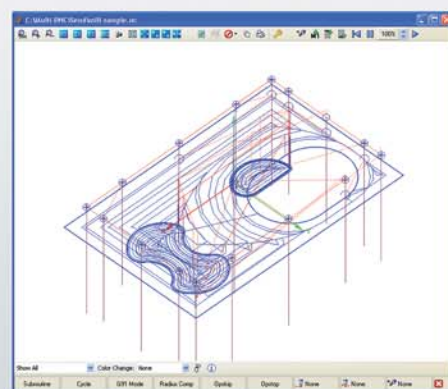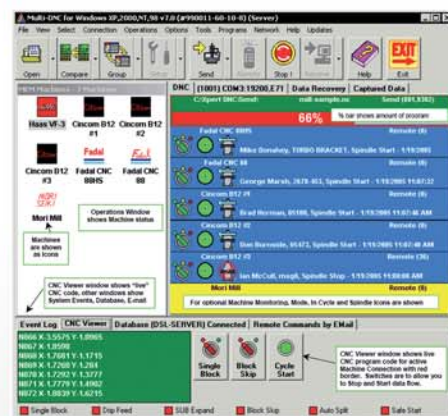
Multi-DNC™ includes a powerful machine monitoring system, Machine Event Monitoring™ (MEM), sharing a common machine events database, avoiding to duplicate Hardware and Software for DNC and MEM operations.

Machine Event Monitoring™ (MEM) it's a primary tool that allow to retrieve any Machine event from shop floor, storing to the SQL server. An integrated and powerful designed Web server allows users on network to have real time status of full production.

Multi-DNC™ can use wired or wireless devices for CNC connection, RS232-422 or Ethernet based, even in a mixed configuration.

Multi-DNC™ is a flexible system, easily expandable and configurable. It ensures a fast return of your investment and a very long life, thanks to regular updates of technology.

Multi-DNC™ is localized in many international languages, and supported by certified resellers all around the world.

Multi-DNC

Multi-DNC™ System Features

CNC Connectivity
• Scalable solution from 1 to 288 CNC connected to a single PC
• Uses standard RS232-422 port, Multiserial Hardware Comtrol or Spectrum WIBox™ without specific drivers
• FTP Server Protocol for direct connection to CNC using Ethernet
• Support for standard RS232 protocol and for proprietary protocols Fagor Heidenhain Mazak
• Connections preset for major CNC on the market
• Support for CNC without full keyboard using SmartBox™

Programs Transfering
• Loading - Unloading manually or controlled by CNC (Remote)
• Transfer to the NC memory or block to block with restart
• Controlling the transfer by CNC or email
• Maximum length of the program name 256 characters
• Automatic probe continues data capture
• Automatic expansion of subprograms

Special Functions
• Automated comparison programs retransmitted by CNC, with reporting differences
• Reading head for Mazatrol programs
• Extended messaging to the CNC or by email
• Complete customization of CNC Remote controls
• Specific security settings for each user
• File backup server configuration and external crash recovery
• Event log on SQL database
• Floating license

Programs Editing
• CNC oriented editor with specific functions for ISO programming
• Allows you to format conversion and the code transformation on the fly
• Vector backplot 3D for Turning and Milling
• Pattern automatic calculation, with ISO code generation

Machine Events Capture
• Through macro CNC or WIBox™
• Up to eight monitored machine state
• Events writing on SQL database
• Alarm conditions management and automatic alerts generation
• Includes website database connected for on-line production reporting generation

• Open system, allows advanced customizations

Hardware Platforms
• Windows XP 32/64 - Windows Server 2003 32/64 - Windows Vista 32/64 - Windows 7 32/64