

Shop Floor Hardware

CNC NETWORKING & MACHINE
DATA COLLECTION SOLUTIONS



Reduce or Eliminate:

- Switch boxes
- Proprietary hardware
- Laptops
- Portable storage devices
- Paper tape
- Unreliable communications
- Adding CNC memory
- MDI
- Walking back and forth between your PC and CNC

Extend Your PC Network by Including:

- Mills
- Lathes
- EDMs
- Lasers
- Waterjets
- Routers
- Grinders
- Punch presses
- CMMs
- Tool presetters
- Gauges
- PCBs

Connect

your shop floor
and stay productive



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The Flex Solution

The Flex Solution was introduced to allow customers to purchase their base system and add upgrades in 8 and 16 port increments (for up to 64 ports) right at their PC. This system is the perfect upgrade for switch box solutions. This system is the single most copied system in the DNC market today.

Key features:

- » Flexible and expandable hub design
- » PCI Card in full height or low profile
- » Supports up to 64 CNCs per PC
- » RJ45 or DB25 style connector
- » Easily add a PC and RS-232 cables for a complete shop floor network
- » Surge Protection built in to every port
- » Eliminates switch boxes and communicate simultaneously to drip-feed CNCs
- » Compatible with Windows® 2000, Windows® XP or Windows Vista®
- » Five-year warranty

Flex/N Solution

Flex/N Solution is the most popular and advanced LAN-based DNC system available. Today, corporate networks expand beyond the front office and engineering department. Network backbones are found on 80 percent of the manufacturing shop floors. This system leverages the existing investment in LAN infrastructure and supports up to 256 CNCs per DNC Server.

Key features:

- » Leverages existing Ethernet backbone
- » Improve baud rates and through-put
- » Run CAT5 to CNC using 1 port device
- » Supports up to 256 CNCs per PC
- » Use MAC Address or IP for configuration
- » 1, 2, 4, 8, 16 port hub configurations
- » RJ45 style connector
- » Surge suppression available
- » Powers AC or DC on single port device
- » Compatible with Windows® 2000, Windows® XP, Windows Vista® or Windows Server® 2003
- » Five-year warranty

Flex/W Solution

The Flex Wireless Solution makes networking your CNC machines easier. Using our system means the cost of stringing cable is removed; machines with overhead cranes, traveling gantries or others that are too far to cable can be quickly, efficiently and reliably networked. Should you want to move machines there is no need to change cable or re-configure the software. Best of all, just about any CNC machine can be connected to wireless DNC system. Predator uses wireless CNC adapters connected to each CNC with built-in buffering and the ability to still use flow control. This unique solution allows specialized CNC protocols to still be used and doesn't hinder the advanced features such as the ability to drip feed to the CNC over the wireless network.

Key features:

- » No RS-232 serial cables to string
- » Eliminate power spikes from lightning
- » Improve baud rates and reliability
- » Drip feed to CNCs
- » External magnet CB antenna
- » Non-proprietary hardware
- » Support 802.11a/b/g
- » DB9 serial port with RS-232 cable included
- » 128-bit encryption
- » Secure data access with WEP, WPA, WPA2
- » Off-line port buffering and serial data log
- » Power AC or DC
- » Five-year-warranty



Bar Code Readers

BCRs are designed to work with older NC and CNC controls with limited displays and keyboards, or to further reduce the time taken to control Predator DNC. Instead of editing and punching out a Remote Request program operators can swipe a bar code and set the machine to read. This can be applied for all the functionality found inside Predator DNC, such as uploading, downloading and printing of CNC data.



Furthermore, these

units can be used with Predator Data Collection to record events, such as user login, downtime reasons, scrap and more.

Key features:

- » Installs in-line with existing cabling
- » Allows Remote Request from older CNCs
- » Allows Remote Request from non-ISO Mazak CNCs
- » Eliminates operator mistakes
- » Works with Predator Data Collection
- » Wand, Laser, Slot Badge Scanners
- » One-year warranty

BTR Cards

For customers who have older machines that run great but have an old CNC Control running paper tape, the BTR card eliminates the necessity of paper tape usage on CNC machines. BTRs add an RS-232 port to your existing NC and CNC machines, allowing sending, receiving, and drip feeding to the control.

BTRs include required tape reader cables and connectors, installation manual, power supply and basic communication software for setup. Punch cables are optional.

Key features:

- » Send and receive ISO / EIA / binary files to and from any PC
- » Memory capacity of 128K, 512K or 2MB
- » Drip feed mode supports unlimited file sizes
- » Easy to install on any control
- » No special software required
- » One-year warranty

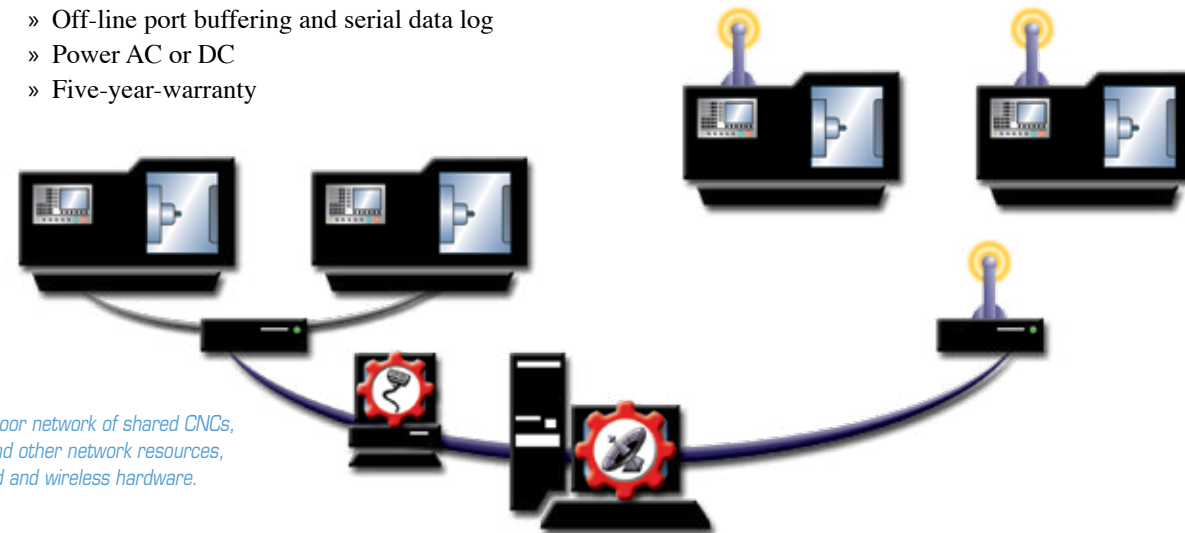
MDC Adapters

MDC Adapters provide automatic input into your Predator Software from CNC machines or factory equipment when macros are not available on the CNC. Input to the MDC Adapter comes from either digital or analog signals and then sent to Predator MDC via RS-232 cable or Ethernet.

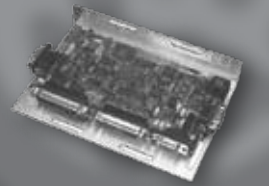
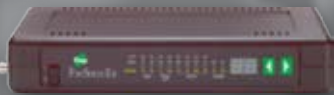
Various points on the machines can be monitored, such as spindle, axis travel, alarm status, feed hold, emergency stop, feed rate override, spindle load, and more. Optional features include remote I/O, touch screen interface and additional analog/digital points.

Key features:

- » Eight AC or DC digital inputs
- » Six digital or relay outputs
- » AC (110v) or DC (12/24v) powered
- » RS-232 or Ethernet communication port
- » Removable terminal block connectors
- » Works with Predator MDC and DNC
- » Remote notification to cell phone / email
- » One-year warranty



Create a shop floor network of shared CNCs, PCs, printers and other network resources, using both wired and wireless hardware.



CNC Compatible:

- Allen Bradley
- Anilam
- Bandit
- Bendix
- Bridgeport
- Bosch
- Bostomatic
- Centurion
- Centroid
- Cincinnati Milicron
- Deckel
- Dynapath
- Emco
- Fadal
- Fagor
- Fanuc
- Fidia
- General Electric
- Giddings & Lewis
- Haas
- Heidenhain
- Hurco
- Kerney & Trecker
- Light
- Maho
- Mazak
- MDSI
- Mitsubishi
- Moog
- NUM
- Okuma
- Prototrak
- Roland
- Sharnoa
- Siemens
- Toshiba
- Vickers
- Yasnac

PDA Connect

PDA Connect is an application that runs on most Palm® handhelds that allows you to transfer any NC Program from your desktop computer to your CNC Machine. The transfer is binary, so an exact copy of the original file is stored on your handheld. Use it for backup of NC programs, parameters or just simply uploading, downloading and drip



feeding. Store multiple CNC machine profiles in the PDA Connect to accommodate various machine communication parameters. It is a great alternative to an expensive laptop computer on the shop floor or a dedicated DNC network at a fraction of the cost!

Complete bundles are available that include a Palm handheld, PDA Connect and all necessary cables to interface to the CNC.

Key features:

- » Support baud rates from 1200 to 115K
- » Xon/Xoff, RTS/CTS Handshaking
- » Supports large NC files 5MB or greater
- » Includes Windows PDA Connect
- » Configure multiple machine profiles
- » Works with Haas, Fanuc, Mazak, Okuma, Fadal, etc.
- » Complete bundles packages
- » Easy to use and portable
- » Free updates on software

Grizzly Cables™ & Adapters

Grizzly Cable is not just a high quality, durable replacement for commonly used cable, Grizzly Cable is an entire cable system designed specifically for shop floor applications. With modular connectors that attach and stay with the CNC controllers and PCs, machine and computer moves no longer require relocating or re-terminating the cable. The cables are available in multiple standard lengths with color coded boots and terminated with industry standard RJ45 connectors.



Key components of Grizzly Cable:

- » Specifically designed for harsh manufacturing environments
- » Low capacitance
- » Supports cable runs up to 300 feet with no data loss
- » Three levels of shielding
- » Eight conductors in the RS-232 cable
- » Five-year warranty



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