CNC Innovations, LLC
Innovation Driving Quality and Productivity

EASY SETUP with DATA ENCRYPTION

Wireless DNC

Provides
Machine Mobility

Simple and Secure
IP Addressing

Eliminates
Noise Interference

Protect Controls From
Lightening Disasters

Eliminates Costly
Cable Routing

Provides High-Speed
Program Transfers

Eliminates Reliance on
Shop Wide, Multi-Port
COMM Hubs.

Easy Installation

Secure and Reliable

WHY WIRELESS DNC

Wireless communications provides CNC machines freedom from the tether that traditional cables impose. As such, it provides mobility—a necessity of modern manufacturing.

Traditional wiring involves routing cable—usually overhead—in a manner to avoid cranes, power transformers, and any other electrical equipment that generates EMF noise. It is an expensive and time consuming process.

Wireless connections avoid such pitfalls. The devices can be easily mounted to the CNC cabinet at a location protected from contaminates and hazards. Additionally, higher transfer rates may be achieved due to the elimination of electrical and magnetic noise interference. Another huge benefit is the increased level of protection from lightening disasters. Cables are by nature a conduit for lightening.

CNC INNOVATIONS' SOLUTION

CNC Innovations knows shop communications. Nearly every product developed by CNC has required some form of communications link on the shop floor. Years of experience have also defined what constitutes effective and reliable information transfer.

With that backdrop we tested wireless DNC devices that first and foremost are easy to install and provide the same unique benefits that our traditional wired systems offer. To that end we recommend devices designed and targeted for shop communications. We then fine-tuned our DNC engine for maximum packet transfers with limited latency. Our work with manufacturers has allowed us to provide devices capable of interrupt driven I/O while maintaining the performance of traditional wired networks.

Additionally, given that single-port COMM devices typically utilize AC power from the host CNC, we enhanced our software to recognize when machines are powered-up and activate the wireless device. This offers the benefit of hands free operation when initializing COMM links between remote DNC PCs and the CNC machine.

Finally, our recommended devices all provide securely encrypted data transfer, which can be configured on a stand-alone, non-routable network with additional MAC filtering.

- Affordable and Reliable Communications -
Ask About All of Our Approved Devices

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