

CNC Innovations, LLC

Innovation Driving Quality and Productivity

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 have no such pitfalls. The devices are typically mounted securely within the CNC cabinet where they remain protected from outside contaminants and hazards. Electrical and magnetic noise interference is also eliminated thereby allowing higher baud rates for faster program transfers. 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 wanted a wireless DNC system that was first and foremost easy to install and would provide the same unique benefits that our traditional systems offer. To that end we selected a device designed specifically for shop communications and then fine-tuned our DNC engine for maximum packet transfers with limited latency. Our work with the manufacturer produced a device capable of interrupt driven I/O while maintaining our traditional "instant recovery" from failed program loads.

Given the nature of wireless devices that take power from the host CNC, we enhanced our software to recognize when a machine goes on-line. This offers the benefit of hands free operation when initializing COMM links between remote DNC PCs and the CNC machine.

Finally, our wireless kit provides securely encrypted 128bit WEP 802.11b communications. For enhanced security it can be configured on a stand-alone, non-routable network with MAC filtering. Finally, for local testing and maintenance operations, its unique design allows for the continued use of your existing RS232 port, leaving you with a transparent and effective wireless solution.

- Affordable and Reliable Communications -

Wireless DNC

Provides
Machine Mobility

Simple and Secure
MAC 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

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