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TECHNOLOGY GROUP

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Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

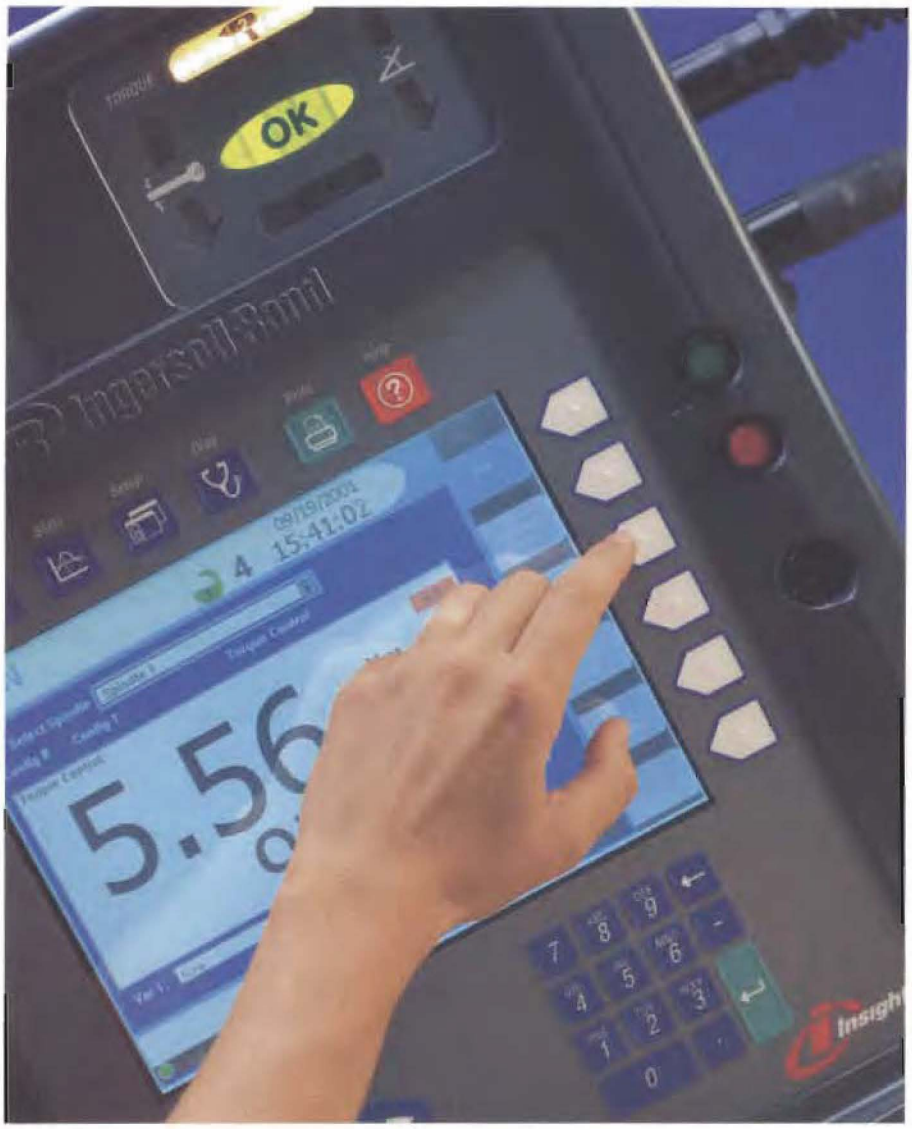
Custom engineering
so your equipment works exactly as you specify.

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Expert team | Trust guarantee | 100% satisfaction

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Find the *Ingersoll Rand PD1G1A1AAF* at our website: ***Click HERE***



Ingersoll-Rand designed the Insight Fastening Control System to make it easier for assembly technicians to become partners in the pursuit of quality. It employs highly advanced technology to simplify the set-up of a sound fastening process – with intuitive navigation features that help keep the focus on the work and not on the control process. Users have both the tools and the relevant information at their fingertips, and are never more than two key presses away from where they need to be. Through technology directed toward simplicity, operators gain insight into process quality and product quality.

Insight systems bring a new level of flexibility to assembly operations. Programming is fast and easy, so the user can quickly change fastening parameters to reflect continuous application refinements.

The Need for Speed

When you are facing the possibility of slowing down production, there's no time to fight through screen after screen deciphering codes and referring to a manual. The revolutionary design of the Insight controller gets you to any screen in two key presses, eliminating the need for scrolling through confusing lists or memorizing numerous code numbers. It also displays messages and instructions in "plain English" text so you quickly get your system programmed and running without the threat of delayed production.

Process Capability

Quality products are a direct result of a sound design and a quality assembly process. The Insight Fastening Control System goes far beyond just delivering accurate and repeatable tightenings. There are several other system features that can be directly used or integrated into the complete assembly process. Features such as comprehensive I/O signals for PLC and production line interfacing, tightening curves, a variety of communication options, statistical trend alarms and much more. Ingersoll-Rand is confident that the Insight controller is a key system that will identify process improvement areas and dramatically increase your assembly process capability.

Insight Single & Dual Spindle Tool Controller

For highly critical joints or applications involving data storage, line interfacing, or any other unique fastening needs. The graphical interface allows for programming and use of a complex system without the need for detailed training.

To be used with all Ingersoll-Rand D Series DC electric assembly tools.

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The Insight controller was designed around the needs of the user. The result is an easy to program and use controller that incorporates newer and more comprehensive system capabilities.

Communication/User Interface

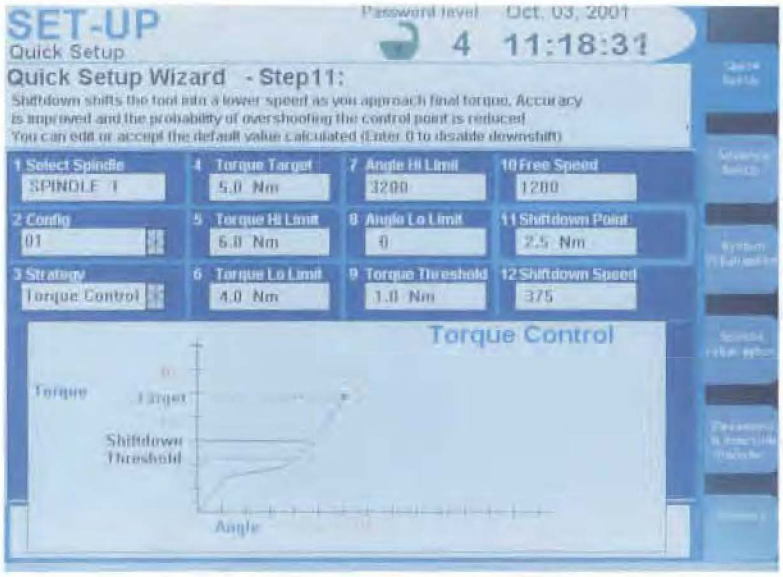
- Graphical, user-friendly display activated by four main "hot keys": Run, Statistics, Setup, Diagnostics
- Either RS-232 or RS-485 Communications port for communication with a PC or line interface (Can be easily switched between the two)
- Accessory interface port
- Parallel port for printing
- PLC interface capability
- DeviceNut & Profibus compatible

Control Modes

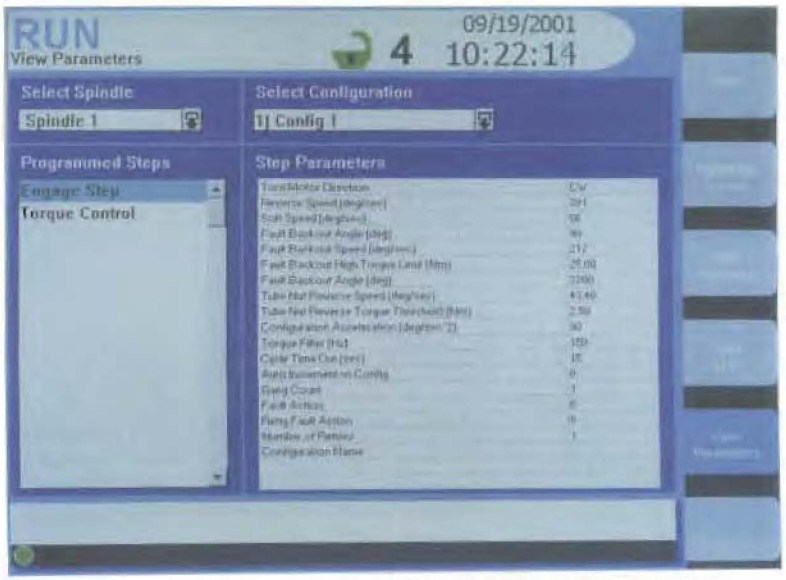
- Torque control with angle monitoring
- Angle control with torque monitoring
- Yield control with torque and angle monitoring
- Backout
- Fault backout
- Torque control with yield override
- Angle control with yield override
- Final fault backout
- Prevailing torque
- Drag torque
- Jog
- Retorque
- Delay
- Bypass

Standard Equipment

- Digitally adjustable free speed, soft start speed, backout speed and shiftdown per configuration
- Storage of up to 50,000 End of Run values per spindle
- Gang Count Feature
- Full statistical process control capability with sample and population statistics
- Tightening curve screen with master plot feature and ability to overlay up to 5 curves
- Statistics calculations based on up to 100,000 cycles
- Quick setup feature including automatic default values
  - Configuration Number, Control Mode and Control Target are the only required parameters for torque control
  - Up to 12 total parameters are available from this screen depending on the Control Mode
- Advanced programming available
  - Only parameters relevant to the selected Control Mode will be visible



The dialog box clearly displays an important message to the user right on the main screen.



Drop box menus eliminate guesswork in programming. They also add information without cluttering the screen.

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Optional Equipment
- Remote light and alarm box
- Reset station
- Socket tray (four or eight position)
- Remote start handle for fixtured tools
- Other accessories available as specials when necessary
- 220/240 VAC available with transformer

Communication Panel
- Serial Ports
- Ethernet
- Barcode
- Parallel Port
- I/O Terminal Blocks
- Data Bus





Safety
- Most shut down faults are displayed at the base of the screen
- Spindle Stop button disables tool function
- GFI (Residual Circuit Breaker): Protects the operator by detecting a leakage current to ground and automatically disconnecting the power supply in case of a fault
- Additional circuit breakers protect the system from short circuit
- Over Current Fault: Detects a high current draw and shuts down to protect the tool and the operator from a stall condition
- Motor Temperature Fault: Detects a higher than normal motor temperature and shuts down to protect motor
- Program warnings are displayed if parameters are outside of the tool's limits

Input Power
- 110VAC, 60 Hz, 20 amp peak

Product Identification Guide

PD	2	G	1	C	1	B	C	F
Controller Series	**Spindles** 1-One Spindle 2-Two Spindles	**Display** G-Color Graphics	**Power Supply** 1-110V AC with Plug 2-110V AC with Pigtail 3-220/230V AC with Pigtail	**I/O Terminals** A-Standard 8 inputs & outputs per spindle B-One additional card of 16 inputs & outputs C-Two additional cards of 16 inputs & outputs	**Network Communications** 1-Standard System–serial, parallel, Ethernet 2-P.F.C.S. plus standard system 3-Protibus plus standard system 4-Device Net plus standard system	**PCMIA Slot 1** A-No Card B-Modem	**PCMIA Slot 2** A-No Card C-Flash Memory	**Drive** F-3½" Floppy N-No Drive

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Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

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