WPC APEX

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www.wintriss.com

Wintriss Clutch/Brake Press Control

The new generation of the Wintriss Press Control includes all features standard to the line: Clutch/Brake Control, Brake monitoring (both time and number of degrees to stop), crank angle and SPM (when clutched in) and counters (strokes, good parts, total hits), programmable user interlocks (Up to 7 safety or cross-checked, 7 non-safety), and 8 optional programmable cam outputs.

Improved APEX Features

- 2 Additional Operator Station Inputs which allow native use of up to 4 Operator Stations
- Up to 4 sets of light curtain inputs
- Program/Run Keyed switch is available, with additional password protection.
- Separate stop strings between E-Stop and I-Stop
- Compatible with SmartPAC 2, WPC Option 1, WPC Option 2, and WPC Clock display when running in legacy mode

New APEX Features

- New programmable features:
  - 4 Die protection inputs
  - 8 Programmable cam outputs
  - Programmable user interlocks
- Tool Memory for up to 50 Tools
- Modern HMI with touchscreen interface and informative screens
- 5 separate stop status inputs with customizable messages
- Dedicated TDC and BDC Cam Outputs

WPC APEX - Enclosure

WPC APEX - Panel Mount

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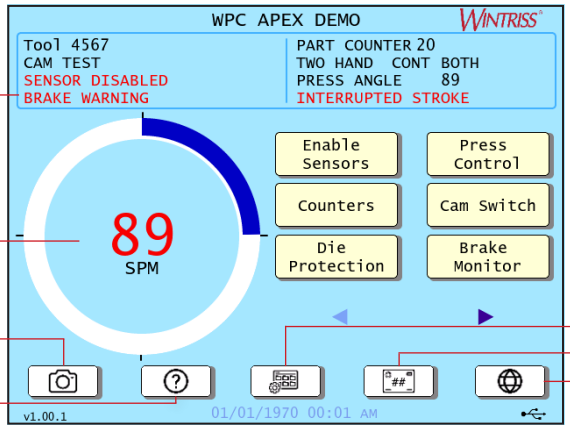
Screens on the WPC APEX

Status Window
Shows your tool, die protection status, settings, and run mode.

Angle Wheel
Shows the live angle of the crank wheel.

Screenshot Button

Help Window

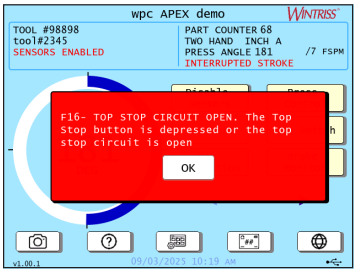


Home Screen
New interface includes your important press information at-a-glance and simple navigation to your most important screens.

Tool Manager

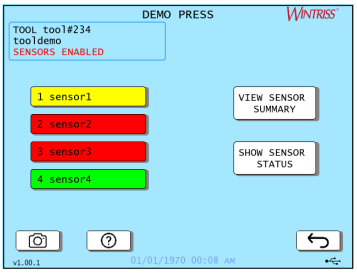
Magnified View

Language (Option)



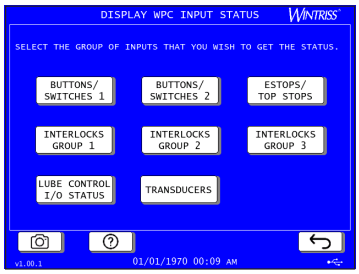
Fault Description

The key to quickly identifying the root cause of a problem is information. When a fault is detected, the WPC Apex provides a detailed description of the reason for stoppage, and, when possible, a course of corrective action to get the press running again.



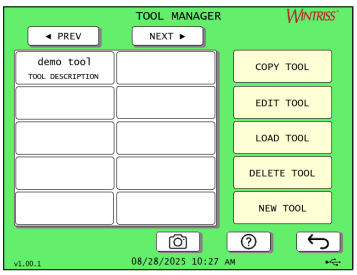
Die Protection

The WPC Apex Die Protection feature supports the monitoring of Cyclic (Green), Static Normally Open (Yellow), and Static Normally Closed (Red) sensor logic types enabling you to detect common malfunctions such as misfeeds, non-ejected parts, material buckle, and end-of-stock.



Input Status Screen

When installing a system or troubleshooting a problem, it is essential to know the status of anything that is wired to the controller. The WPC Apex's Input Status Screens display the condition of the operator station switches, user-defined interlocks, selector switch, E-stop/I-stop and top stop relays, light curtains, and more.



Tool Manager

The WPC Apex Tool Manager screen lists all of the programmed setups by tool number and name, and allows you to view each setup's contents, load a setup, create new setups, and edit or delete existing tool setups.

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Stop Functions: Terminology and Functional Changes

The WPC APEX introduces updated stop function terminology to align with current industry standards, while maintaining the same operational functionality as previous Wintriss Press Control (WPC) models.

Background for Previous WPC Users/Operation

Earlier WPC models featured two types of stops:

- **E-Stop** – Stopped press motion but did not remove power from the motor.
- **E-Stop Lockout** – Stopped the press and also removed power to the motor for enhanced safety.

While the functions remain the same, the **WPC APEX** uses updated terminology consistent with industry standards to reduce ambiguity and align with common practices in modern industrial safety systems.

New WPC APEX Stop Terminology

- **Immediate Stop** (formerly “E-Stop”) - Red button
  - Function: Stops the press motion immediately but maintains motor power.
  - Use Case: This stop is intended for process-related interruptions, such as clearing a misfeed or addressing a non-hazardous issue, without shutting down the entire press system.
- **I-stop lockout** (formerly E-Stop Lockout)
  - Function: Stops the press and removes power to the motor.
  - Use Case: Intended for safety action upon press (ie. Die blocks and some removable safety gates). Power is removed from the motor to remove any potential energy.
- **Emergency Stop** (E-Stop) (System wide stoppage) – Red button w/ yellow halo
  - Function: Stops the press and r**emoves power to the motor via the lockout relay and signals ancillary equipment to perform an emergency stop or removal of power via the AUX Relay (now functioning as an E-Stop relay)**, preventing any unintended restart.
  - Use Case: This stop is intended for situations involving personnel safety or potential equipment damage, where full removal of motion power to the entire system is required.

Key Points for Transitioning Users

- No functional change has been made to the stop circuitry of the press; only the naming convention has been updated.
- Operators familiar with the WPC2000 should note that the former E-Stop is now called Immediate Stop, and the former E-Stop Lockout is now called Immediate Stop Lockout (I-Stop).
- What is now called Emergency Stop does not exist in the WPC2000. Stops the press, removes power to all motors via the lockout relay, and signals ancillary equipment to perform an emergency stop, thereby preventing any unintended restart.
- This update aligns the WPC APEX with standard industrial terminology, making it easier for new users and maintenance personnel to understand and comply with common safety practices.