



FOR IMMEDIATE RELEASE

**TOSS Machine Components Highlights PIREG®-545
Panel Mounted Impulse Heat Seal Controller for Battery and EV Applications**

High response and precise control ideal for sealing wide variety of polymeric films

TOSS Machine Components, Inc., a manufacturer and distributor of impulse heat sealing components and supplies, highlights the TOSS PIREG-545 panel mount impulse heat seal controller, specifically built with the high response and precise control needed for sealing the wide variety of polymeric films used in contemporary packaging. The robust PIREG-545 offers precise temperature regulation up to 500°C and features programmable control for heat and cool timing, as well as a preheat capability. The controller prevents temperature overshoot, can seal films requiring a cooling phase, and provides decreased time for heating to sealing temperature.

The PIREG-545 impulse heat sealer offers distinct advantages in the electric vehicle (EV) market, where precision and reliability are paramount. Its ability to create consistent, high-quality seals is crucial for securing battery components, insulation materials, and protective coverings, ensuring the safety and longevity of EV systems. The sealer's rapid heating and cooling cycles enhance production efficiency, helping manufacturers meet the growing demand for EVs while maintaining stringent quality standards. Its advanced technology supports the development of cutting-edge, eco-friendly vehicles by ensuring the integrity of critical components. TOSS technology incorporates sustainability to the heat sealing process by applying localized heat only when needed in contrast to constant heat methods of sealing which take extended time to heat up to seal temperatures and remain energized if in use or not.

With a temperature range of 0°- 500°C and voltage ratings of 115 to 400 volts alternating current (VAC), combined with an analog output of the actual temperature for remote display that provides feedback to a programmable logic controller (PLC), the PIREG-545 is ideal for sealing high temp films. For large heat seal bands, the PIREG-545 can be equipped with an optional booster that provides power ratings up to 15 kilovolt-amperes (kVA). Its high response time enables more cycles per minute.

Offering simple operation and control of the sealing process, the PIREG-545 provides repeatable quality of the impulse heat seals under any condition and increased machine capacity, as well as extended heat-sealing band and polytetrafluoroethylene (PTFE) coating life.

The PIREG-545 comes equipped with a full set of terminals for connection to a PLC and can be controlled entirely by a PLC, or run in standalone mode for applications operated without a PLC. It includes two programmable relays, which allows programming and connection to such external devices as air cylinder solenoids. Available alarms and error diagnostics can quickly identify and address faults. The digital display ensures easy monitoring and adjustment of sealing parameters.

A wide range of compatible accessories and peripheral devices can be added that enable the PIREG-545 temperature controller to be optimally adapted to each specific heat sealing application and plant design and operating philosophy.

For more information, contact info@tossheatseal.com or visit <https://www.tossheatseal.com/>.

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About TOSS Machine Components Inc.

TOSS Machine Components, Inc. is the leading manufacturer and distributor of impulse heat sealing components and supplies for a variety of impulse heat seal applications. The Optimum Sealing System – known as TOSS Technology – uses the resistance of the heat sealing element itself to calculate and

monitor temperature and eliminates the errors that are inherent in thermocouple placement and attachment. Contact our expert team of application engineers at sales@tosheatseal.com for support and a custom-designed impulse heat sealing system for unique applications. Connect with us on [LinkedIn](#), [X](#), and [Facebook](#).