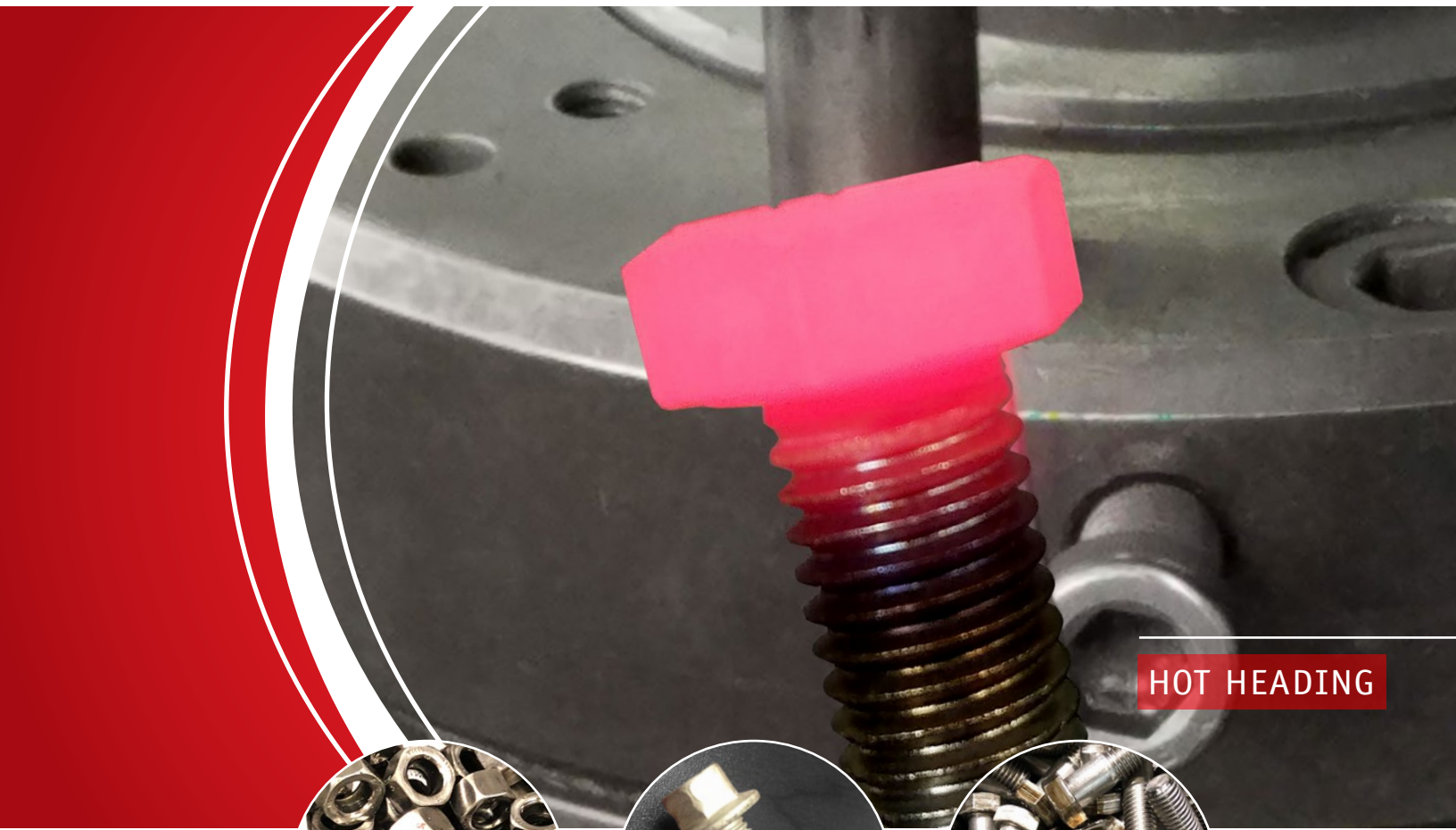


# Induction Heating

## FOR Fastener Manufacturing Applications



HOT HEADING



NUT FORMING



NYLON PATCH CURING



THREAD ROLLING

## Induction Heating for Fastener Manufacturing Applications

Ajax TOCCO Magnetthermic has hundreds of global induction heating installations for fastener and wire heating applications. More than 100 years of induction heating expertise sets us apart from all other induction heating suppliers. New systems, spare parts, heating inductors, field service, process development and systems integration are all available from Ajax TOCCO Magnetthermic.

### Variety & Reliability

The TOCCOtron AC and the Pacer RF are the work horse power supplies for fastener and wire products industries with hundreds of installations globally. Their compact portable packaging, wide tuning window, efficient robust power circuit and simplicity of integration make them the preferred power supply for fastener and wire products manufacturers globally.



PACER RF

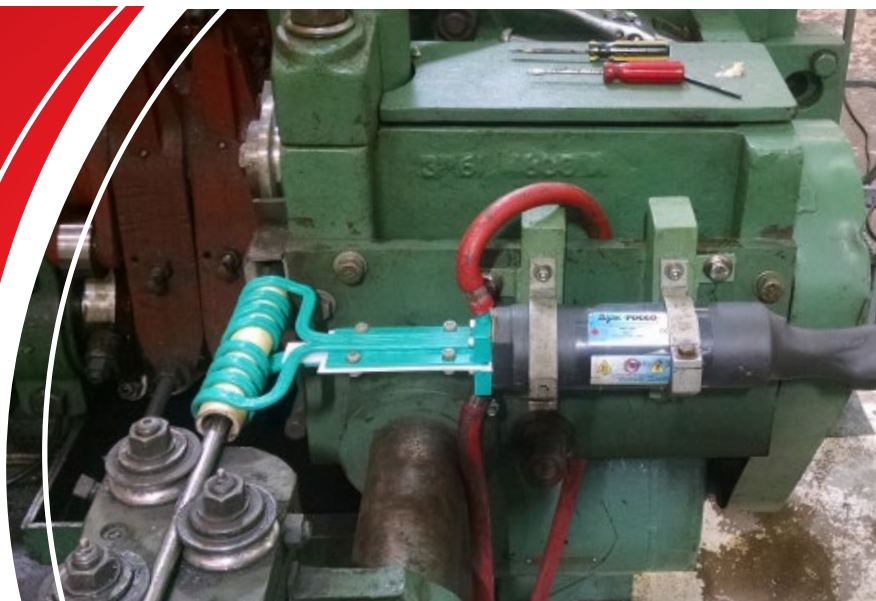
Ajax TOCCO offers a wide variety of induction heating power supplies in both air cooled and water cooled configurations with power ratings from 3kW to 20MW and in frequency ranges from 50Hz to 500kHz.



TOCCOTRON AC

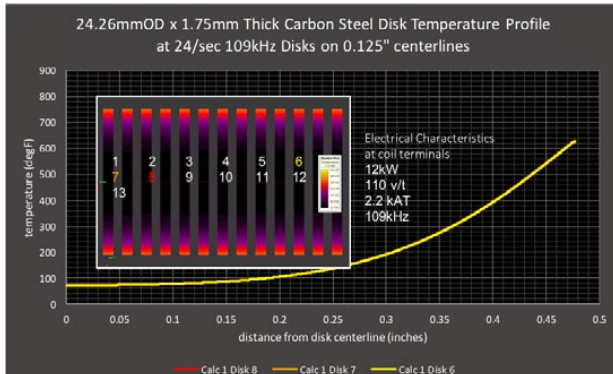
### COMPACT REMOTE MOUNTED HEATING HEAD

Compact remote mounted heating heads allow heating inductors to be easily mounted and integrated in many different locations within wire forming/heading machines. Remote heating heads allow the induction heating power supply to be mounted 3 or more meters from the work area. Custom-engineered inductors built with best industry practices minimize energy consumption, maximize production and uptime, and provide superior quality and repeatability.



# Cutting-Edge Thermal Modeling

Ajax TOCCO Magnethermic employs the latest magnetics and thermal modeling resources to accurately predict heat profiles, optimize inductor design and accurately specify induction heater design specifications to meet each customer's unique process requirements.

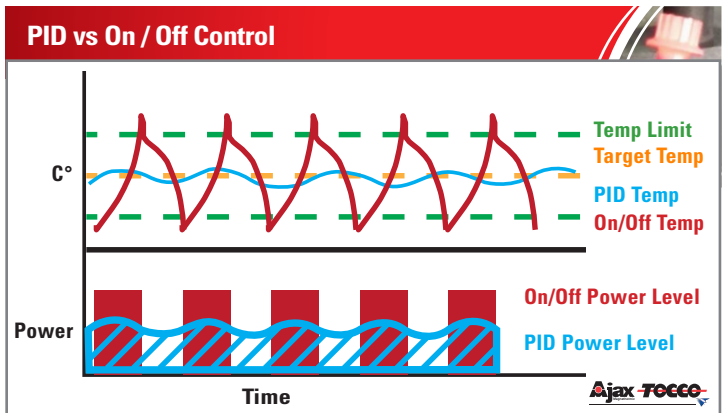


## FEA MODELING



## PROCESS DATA PROFILING & STORAGE

Ajax TOCCO Magnethermic offers the latest in process controls technology, allowing users to record and trend critical process data for each individual part. This data can be exported and recalled for review at later dates as needed. Upper and lower process limits can be programmed ensuring the best possible quality one part at a time.



\* Rate of temp rise & fall will vary based on part mass & available power.

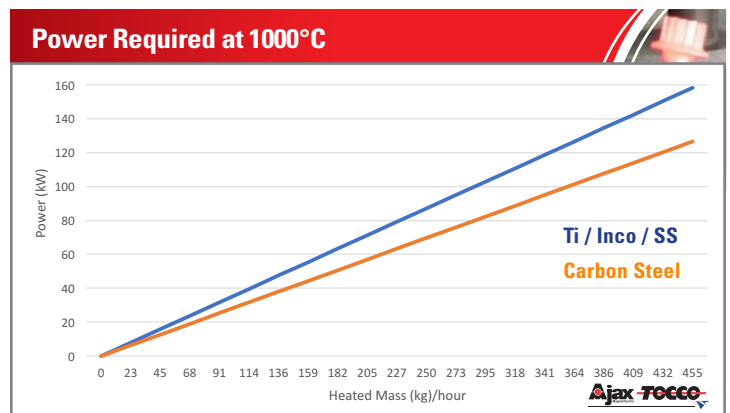
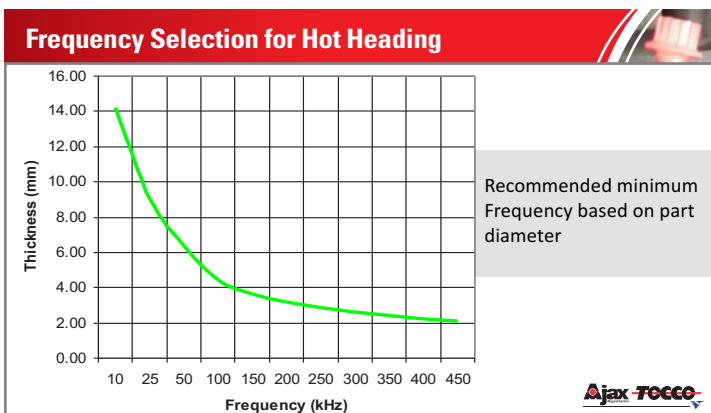


## OPTICAL PYROMETERS



## PROCESS CONTROLLERS

# Process Controls Technology



# Ajax TOCCO Low Power Products



INLINE THREAD ROLLING

Ajax TOCCO has earned an outstanding reputation within the fastener and wire products industry for reliability through superior technology and quality of design. Our reputation carries on after the sale with outstanding service and support from highly-trained and dedicated field service engineers located strategically across North America and around the world. Ajax TOCCO is dedicated to maximizing the profitability of our customer partners. We are leading the way with new advanced process controls, data trending and new induction power source designs that minimize energy consumption and maximize process adaptability.

Ajax TOCCO Magnethermic® Companies Group designs and manufactures world-class induction heating and melting equipment for various industries and applications throughout the world. In addition, we provide a wide range of services including laboratory process development, preventive maintenance, equipment repair, and parts, coil repair facilities and installation services with locations in North America, South America, Europe and Asia. [www.AjaxTocco.com](http://www.AjaxTocco.com)



## GLOBAL SALES, SERVICE & SUPPORT

### World Headquarters

Ajax TOCCO Magnethermic Corporation  
1745 Overland Avenue NE  
Warren, Ohio USA 44483  
+1-330-372-8511  
[www.AjaxTocco.com](http://www.AjaxTocco.com)

24/7 Customer Service:  
**800-547-1527**

### USA

Albertville, AL.....+1-256-279-1200  
Wickliffe, OH.....+1-440-295-0244  
North Canton, OH.....+1-330-818-8080  
Longview, TX.....+1-903-297-2526  
Madison Heights, MI.....+1-248-399-8601  
Sterling Heights, MI.....+1-586-254-8470  
Brookfield, WI.....+1-262-317-5300

### Worldwide

Brasil ..... 5535-3435-2074  
Belgium (LeRoeulx) ..... 32-64-67-37-77  
Canada (Ajax, Ontario) ..... 905-683-4980  
China (Shanghai) ..... 86-21-6800-9546  
England (Birmingham) ..... 44-121-322-8000  
France ..... 39-011-99-77-999  
Germany (Hirschhorn) ..... 49-6272-9217-500  
India ..... 91 72005 05904  
Italy (Turin) ..... 39-011-99-77-999  
Japan (Tokyo) ..... 81-3-3647-7661  
Korea (Seoul) ..... 82-2-837-0413  
Mexico (Queretaro) ..... 52-44-2221-5415  
Singapore ..... 65-9699-4089  
Spain (Valencia) ..... 34 961 352-020