

SEMINARS & FORUMS BY THE AICHELIN GROUP

AICHELIN Maintenance Forum

- Our surveys have shown: **Maintenance departments are under increasing pressure to ensure the efficiency and safety of machinery and equipment!** Good maintenance staff face these challenges head-on and help improve them.
- Take advantage of the AICHELIN Maintenance Forum to learn **how to operate thermal processing plants safely and service them efficiently.** Take advantage of the technical contributions from experts and discussions with maintenance professionals from other companies.
- You can expect interesting presentations and discussions on the issues of **maintenance methods, secure thermal processing plants & safe maintenance** as well as **training & knowledge retention** in maintenance.
- As is commonplace at our maintenance forums, you can apply the presented theory to **practical examples** and thus deepen your knowledge. Benefit from our experience, the technical contributions of experts, and discussions with maintenance professionals from other companies.

Heat Treatment Seminar

- Our Heat Treatment Seminar aims to convey the theory of the inside of materials. The effect of the time/temperature sequence on the material structure is investigated in particular. Our specialists from the AICHELIN research and development department as well as external speakers will offer you sound knowledge on **hardening, tempering, annealing, austempering, energy efficiency and other current topics.** The speakers will share their experience and practical tips with the seminar participants. In addition to gaining useful practical knowledge, another important aspect of the forum is that the participants can share their experiences.

System Planner Seminar

- This seminar is designed specifically for **planners of heat treatment plants** and is becoming more and more popular. More than twenty participants from twelve international companies from the automotive industry, bearing industry, and mechanical engineering took part in the last seminar in order to gain and exchange new information for the planning of heat treatment plants. The following topics are dealt with, among others:
- Economic and technical selection criteria for plants with maximum customer use
- Efficiency and savings potential in heat treatment plants
- Plant safety
- C_{pk} - and C_{mk} values for heat treatment plants
- Customized services over the entire life cycle of the plant

AICHELIN Bolts Forum

- With this event, the AICHELIN Group is providing a platform to exchange knowledge with and between our customers, specifically those from the fastening technology industry. This forum is geared particularly towards heads of production and/or heat treatment who want to learn all about the latest options and trends. We also want to provide plenty of opportunity **to exchange knowledge and experiences**. Here are just a few of the topics that are on the agenda:
- Heat treatment of aluminum connection elements with modern wire-link belt furnaces
- Operating experience with belt furnaces
- Quenching systems and quenching media for screws and fasteners
- Plants and processes for baintite heat treatment
- Furnace plants that preserve the parts
- Improving the toughness of screws through optimized heat treatment
- TOP performance with the right service

Induction Hardening

- **EMA Indutec GmbH** would like to offer your customers the opportunity to gain user know-how on plants, converters, and other components. The aim is **to use EMA induction hardening machines optimally and teach the theory of induction**. Two options are available to learn about the basics of induction technology:
- **Option 1** offers the following theoretical basics in a **one-day course**:
 - Induction theory
 - Electromagnetic properties
 - Science of materials
 - Induction hardening
 - Inductor design – industry-leading elements
 - Inductor types
 - Inductive tempering
 - Care and handling of precision tools
- **Option 2** combines theory and practice in a **two-day course**. The theory as listed under Option 1 is presented on the first day. The second day will take a look at practical matters with the following topics:
 - Experiments with different inductor concepts (feed, shoot, sheeting) on EMA Indutec GmbH lab equipment
 - Analysis of lab tests and discussion of results

Your Reliable Partner

- No other company can offer you the large range of plants and extensive experience that the AICHELIN Group offers – get first-hand information!

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MS / 15 / Okt. 2015 / E