

SECO/WARWICK

INVENTION MEETS RELIABILITY



SECO/CONNECTOR AMS

A tool for data exchange with the AMS system (TTC Informatik)

SECO/CONNECTOR: AMS

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This tool facilitates communication and data exchange between a furnace and the heat-treatment management system. The "SECO/Connector: AMS" interface by SECO/WARWICK is a feature created to enable data exchange with the AMS system (TTC Informatik). It ensures communication between a SECO/WARWICK furnace control system with the AMS system that manages heat treatment in modern hardening plants, covering all of their operations. The AMS interface brings operational and management support for daily work. We recommend this feature to the customers who already have, or intend to purchase, the AMS system and operate SECO/WARWICK systems with SCADA WinCC/InTouch visualization systems.

Once the tool is implemented in the furnace SCADA and connected with Ethernet, it starts communicating with the AMS server. Then the software is able to retrieve the lists of recipes available at the connected furnace and read its current status, that is whether the device has work in progress or not. The operator is then able to plan the production by selecting the job number, the recipe and the device intended for treatment. The selected recipe (along with the treatment job number) is sent to the SECO/WARWICK furnace control system. The device operator is no longer responsible for selecting the recipe used for heat treatment and thus avoids the risk of a potential error (elimination of the human factor). The responsibility of the furnace operator is minimized as much as possible – to pressing the "Cycle start" button. Once the process ends, the furnace control system sends this information to the AMS system on the completed treatment. A full report on the process is generated to a PDF file that is copied and saved on the AMS system server.



The SECO/CONNECTOR: AMS BRINGS:

- / Support for operations and personnel in terms of managing daily work procedures,
- / Bidirectional communications with furnace control systems that are equipped with computers using SCADA WinCC/InTouch visualization,
- / Remote production planning (selection of the treatment, job number, device, recipe),
- / External access to the list of recipes in the furnace control system and to the current device status
- / Process completion reports,
- / The ability to save copies of the generated process reports (in PDF file format) on the AMS system server.

This solution increases the ease of use of furnaces, and gives access to modern tools that increase the quality of the performed tasks. It means better scheduling for our customers and hardening plant assets as well as support for operations and personnel in terms of managing daily processes.



SECO/CONNECTOR: AMS ENABLES:

- / Production planning on a SECO/WARWICK furnace from the hardening plant master system,
- / Technological department supervision over the selection of the correct process parameters,
- / Placing limits on the furnace operator's responsibility and eliminating costly errors,
- / Easy access to process data without the need to convert its format.

SECO/WARWICK is a technological leader in innovative heat treatment furnaces. Expertise includes end-to-end solutions in 5 categories: vacuum heat treatment, atmosphere and aluminum thermal processing, controlled atmosphere brazing of aluminum heat exchangers and vacuum metallurgy.

SECO/WARWICK Group has 7 companies located on three continents with customers in nearly 70 countries. The company provides standard or customized state-of-the-art heat processing equipment and technologies to leading companies in the following industries: automotive, aerospace, electronics, tooling, medical, recycling, energy including nuclear, wind, oil, gas, and solar and production of steel, titanium, and aluminum.