



AUTOMATION & INTEGRATION SYSTEMS

Heat Treatment of Metals 4.0



FURNACE/PLUS

An innovative service package (available for phone, tablet, and computer via a browser and scalable WEB application) enabling comprehensive management of furnaces and processes. You decide, control, manage, verify, evaluate trends, collect data from any place and device.



FURNACE/PLUS MODULES

- / **SENERGY** - monitoring and optimizing electricity consumption. Monitoring and optimizing media costs, batch queue management, power demand management.
- / **SECO/PREDICTIVE** – detecting anomalies that may affect the correct operation of the furnace in the future before they occur.
- / **SECO/PREVENTIVE** – planning and organizing device and component maintenance as part of preventive maintenance.
- / **OEE** – calculating and presenting values determining the degree of use of the device's production capacity.
- / **ALARMS** – analysis of emergency states, statistics, current alarms, and history in one place available from a web browser.
- / **NOTIFICATIONS**– notification system via email (summaries, reports), SMS (emergency states, events), user management.
- / **TECHNICAL SUPPORT**– technical support services are available.
- / **RECIPES** – Comprehensive system for managing processing programs for multiple devices and multiple locations, ensuring a close collaboration between technologists and operators.
- / **REPORTS** - Production reports directly from the client's portal, process summaries, comparative analysis, charts, statistics, prediction in terms of technology.



SOFTWARE

DATA BACKUP - a tool for backing up databases with alarms, trends, recipes, and process data.

RECIPE MANAGER - software for creating, synchronizing, and comparing recipes across multiple devices.

SECO/VPN – secures remote connection to each device.

SECO/CONNECTOR - data exchange tool with ERP, AMS, MES systems or other M2M devices.

TREND ANALYZER - trend view application.

SIMVAC - advanced simulator for carburizing and steel hardening processes.

G-QUENCH - advanced simulator for steel quenching processes.

TORCH PROFILER - software for generating the movement trajectory of plasma torches.

VIM PROFILER - set of tools for creating and editing casting profiles.



Heat Treatment of Metals 4.0

You will find Industry 4.0 concepts and technologies in the automation systems of devices with the SECO/WARWICK logo.

Control your production and technology in a simple and efficient way. Control, manage, and increase efficiency on your terms, using automation, maintenance scheduling, prediction of undesired states, production optimization, or remote access to an industrial furnace from anywhere in the world.

/ MASTER SYSTEMS- manage and coordinate the operation of autonomous control systems, optimizing production, maintenance, and processes. We integrate various automation systems (e.g., PLC, SCADA) with devices from different suppliers to ensure effective cooperation and better process management.

/ MODERNIZATIONS – These services are related to modernizing control systems to improve efficiency and compliance with current standards, enhancing device performance and handling.

/ COST OPTIMIZATION –By adding automated audits and inspections of service actions, energy audits, optimization of electric/gas bills, power demand planning, and process analytics costs are measurably reduced.



SECO/WARWICK

Invention Meets Reliability

SECO/WARWICK is the 1st choice supplier of solutions for heat treatment and metallurgy.

We create innovative products that provide our customers with reliable, safe and environmentally friendly solutions for heat treatment and metallurgy and ensure the economic efficiency of their businesses. 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, with 8 companies located on 3 continents, has customers in nearly 70 countries with more than 4000 deployed solutions. The company provides standard or customized state-of-the-art heat processing and metallurgy equipment and technologies to leading companies in the following industries: automotive, aerospace, electronics, tooling, medical, recycling, energy including nuclear, wind, oil, gas, solar and production of steel, titanium, and aluminum.

SECO/WARWICK

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