

# EXPERIENCE IN THE FIELD OF SOFTWARE AND AUTOMATION MEETS PERFECTION

*Your Business Partner With Our Solutions*

RSD SCADA Designer, HQM ERP & MES, QRD Data Auditing and Reporting Software, PDR Data Recorder, RRS Real Time Remote Support Software, DEW Dew Point Analyzer, AGA Atmosphere Gas Analyzer, PHT Stress Relief Heat Treatment Equipment, CDS Simulation Software Solutions...





**IF THERE IS DWA  
THERE IS A SOLUTION**



# 3E INDUSTRIAL ENGINEERING

With the quality of service we offer, we are on the way to become a leading company both at domestic and abroad.

Our company was established in 2005 in order to provide quality and distinguished service in the automation and software industry. It got its name from the first letters of the words “Expert” “Exclusive” “Engineering”. Since the day we started operating, we have successfully completed many projects as a solution partner in more than 30 countries.

In 2008, we started to design our Eagleye HQM<sup>®</sup> software in order to meet the need for the management of all processes of heat treatment plants. In 2009, we realized our first installation.

Since 2009, we have developed our software more and more with the support of our valuable business partners. In 2012, we designed our Eagleye Trend Recorder<sup>®</sup> (ETR) software, which will integrate ERP and production data in the field. Eagleye ETR<sup>®</sup> software also became the first step of our current SCADA Designer software.

As a company that gives importance to R&D and realizes many projects in Turkey firstly, we moved our office to the Marmara Technocity Technology Development Zone in 2014. Our first

R&D project is Eagleye PHT<sup>®</sup>, a portable heat treatment machine used for stress relief before and after welding.

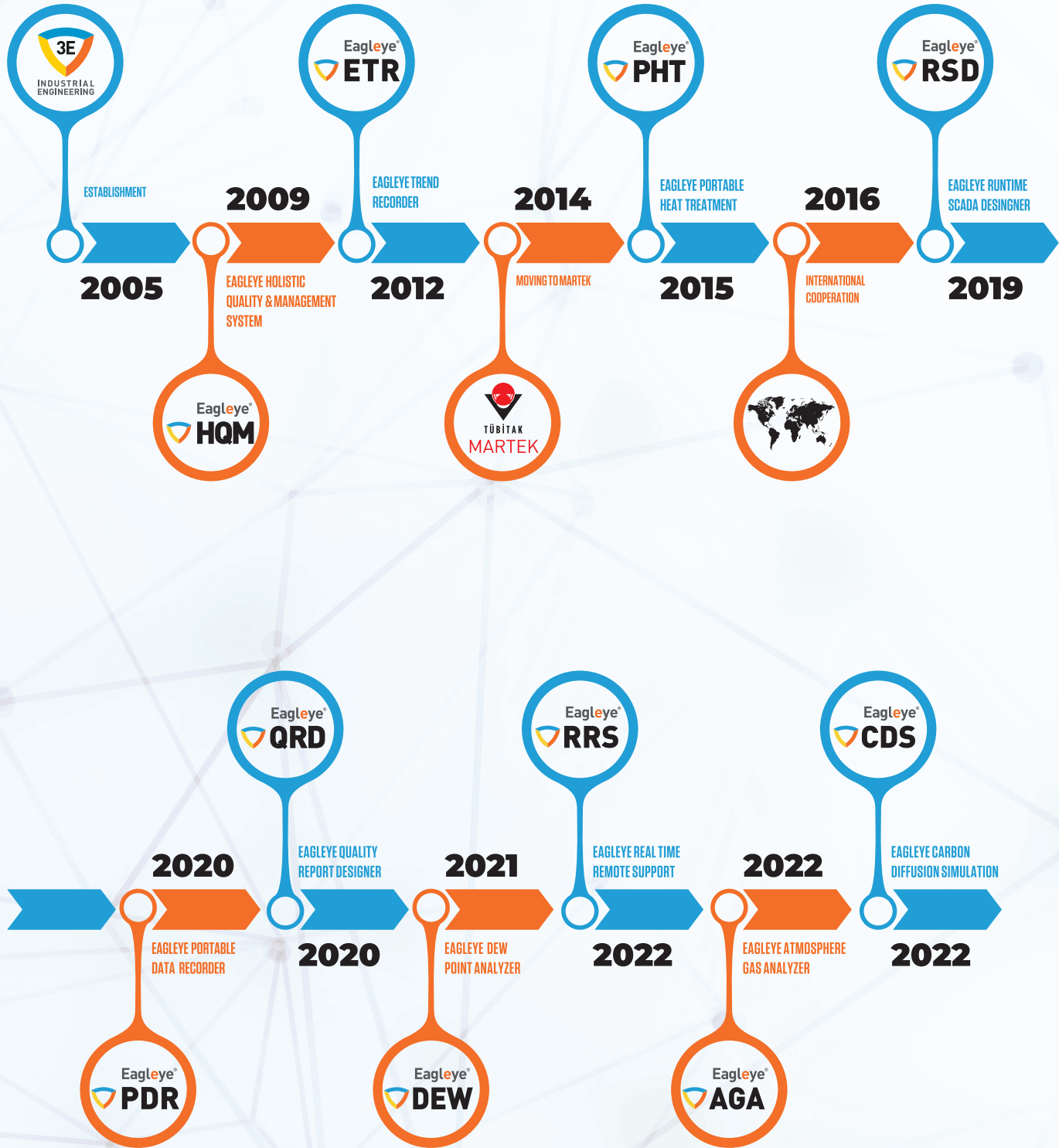
In 2019, we completed our Eagleye RSD<sup>®</sup> (Runtime SCADA Designer) software and started testing it, and we have successfully used it in over 100 projects. With our Eagleye QRD<sup>®</sup> software, which offers great advantages in AMS 2750 and CQI-9 compatibility, we allow you to prepare your reports automatically.

We provide effective and fast solutions with Eagleye DEW<sup>®</sup>, our dew point analyzer, Eagleye AGA<sup>®</sup>, which measures atmospheric gases in protective atmosphere controlled furnaces, Eagleye CDS<sup>®</sup>, our simulation software for the optimization of cementation heat treatment recipes, and Eagleye PDR<sup>®</sup>, our data logger device.

Our Eagleye RRS<sup>®</sup> product offers you a practical solution that you can use in your real-time remote maintenance services.

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# OUR MILESTONES





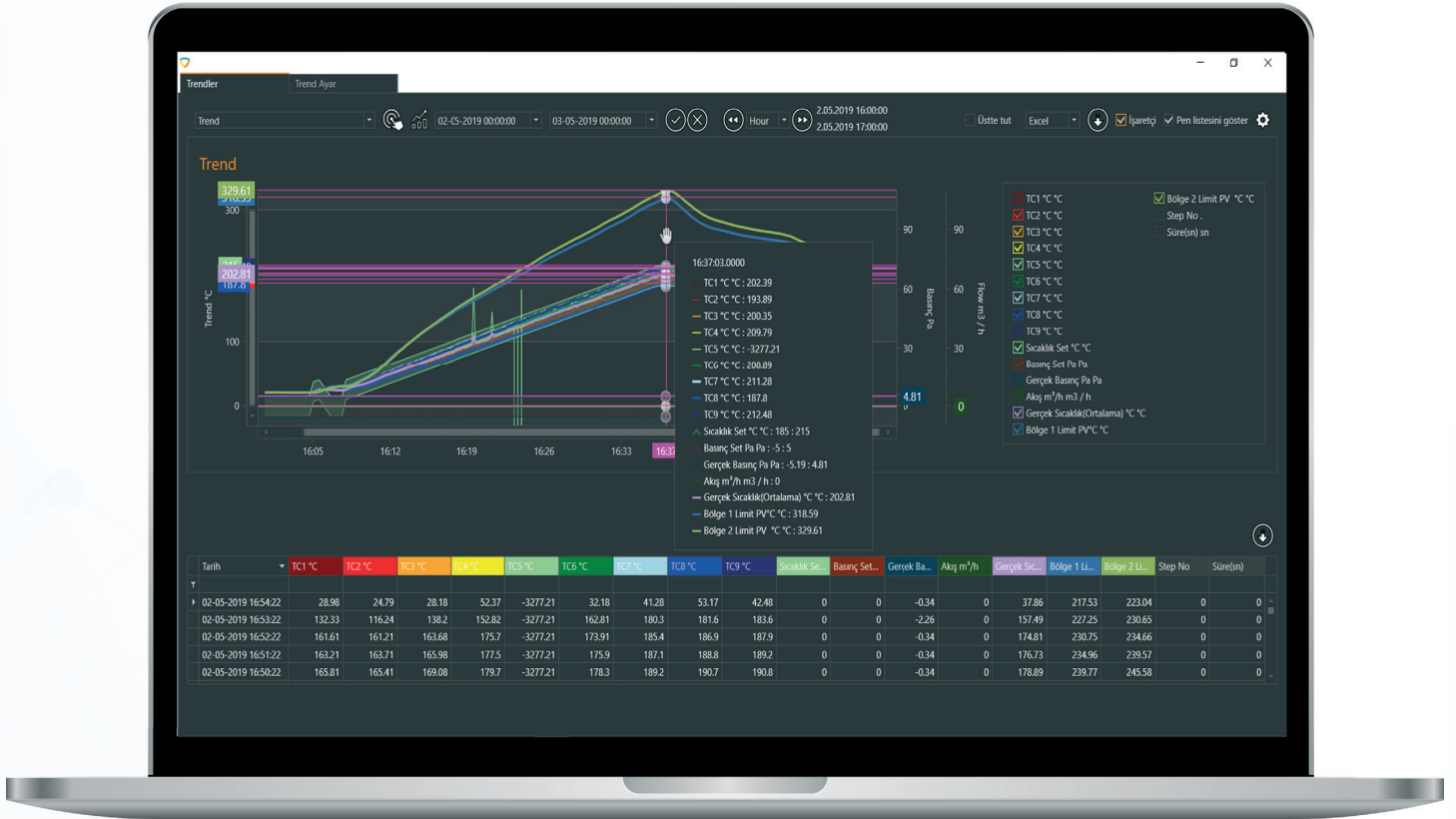
Connect



Save



Manage



Monitor



Know



Prevent





## Traceability

You can record critical data for your facility and machinery, connect remotely via our web-based solutions, and keep control by receiving SMS and Email when necessary.



## Flawlessness

You can reach accurate and reliable results by reducing the sources of error with our automated reporting systems, recording the data and reporting them as desired, including retrospectively.



## Productivity

By retrospectively examining all your data about your facility, you can evaluate performance, renew your goals, and increase your productivity by taking forward measures.



## Easy Usability

Easy to learn and effective usability is an important element in the design of all our products.

# Eagleye HQM<sup>®</sup>

## Holistic Quality & Management System

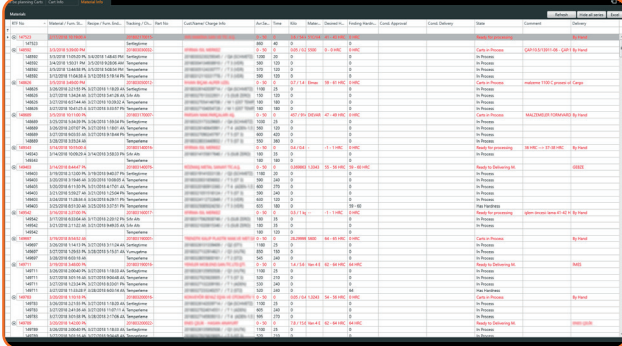
### How much do you control your facility?

Take control of your facility with a different point of view than the ERP solutions you know, with completely different interfaces. Eagleye HQM<sup>®</sup> program controls the workflows in your facility and archives the applied processes as graphs and reports. It presents all the processes, from the entrance of the material to the delivery to the customer, step by step.





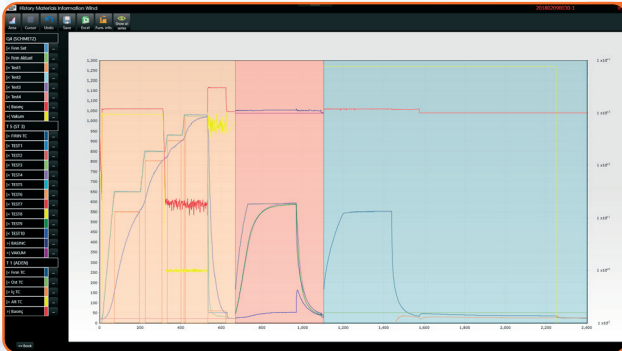
## Eagleye HQM<sup>®</sup> (Holistic Quality & Management System)



Lot No	Material	Batch No	Process	Phase	Start Date	End Date	Quantity	Quality	Status	Location
101	10100000000000000000	10100000000000000000	10100000000000000000	10100000000000000000	10100000000000000000	10100000000000000000	10100000000000000000	10100000000000000000	10100000000000000000	10100000000000000000

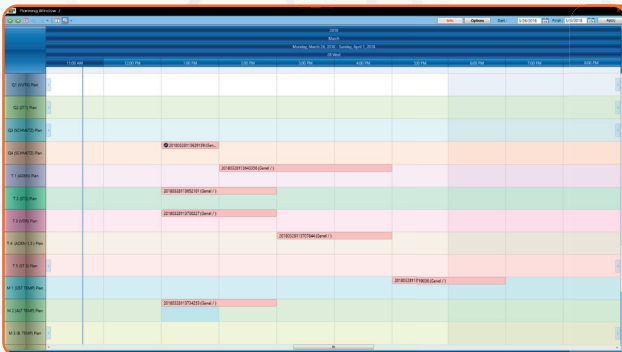
### INSTANTLY REACHING INFORMATION

Thanks to Eagleye HQM<sup>®</sup>, where you can instantly access all production information and details of each process with reports and graphics, it is now very easy to manage your facility wherever you are. In today's world where information technologies are developing at a dizzying pace, it is critical for your facility's information adaptation to ensure the comfort of both you and your customers.



### WORK EFFICIENTLY

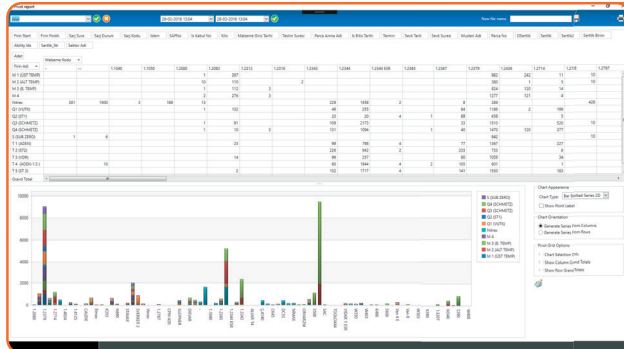
You can evaluate the performance by examining the production details of all furnaces in your facility, thanks to retrospective reporting and graphics. In the light of the data you will obtain, you can review your planning, renew your goals, and increase the efficiency of your facility by taking forward measures.



### CONTROLLING YOUR FACILITY

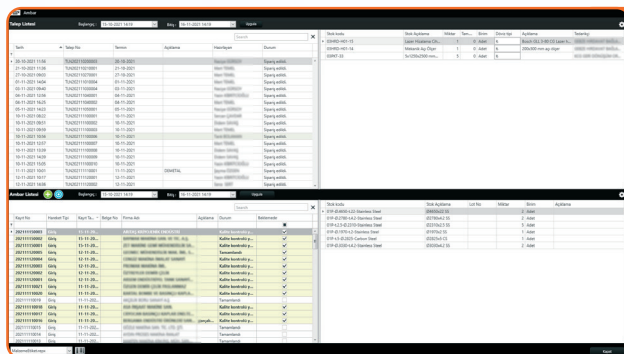
You can monitor different orders of different customers from a single center, track your order number or production, monitor what stage it is in, and create alarm groups according to delivery time. You can access a lot of retrospective data and control all in-plant flow.

# Eagleye HQM<sup>®</sup> (Holistic Quality & Management System)



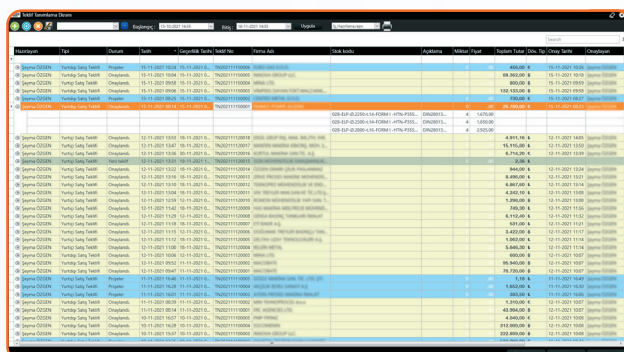
## REPORTING AND EVALUATING THE STATISTICS

Thanks to the recording of all data, you can access the data of all your works from a single point. You can automatically send the quality control reports to your customer via e-mail. With a special password you will give to your customer, you can also enable them to receive their reports from the system whenever they want. By comparing all the statistical data you have obtained, you can evaluate the results, make forward decisions with performance evaluation, and increase your efficiency with new targets.



## STOCK MANAGEMENT

You can manage your material stocks with many different parameters such as date, quantity, location, lot number. You can create your own stock cards with the flexible, smart coding module. With the mobile application, you can easily perform your stock entry-exit transactions.



## OFFER, PURCHASE AND CUSTOMER MANAGEMENT

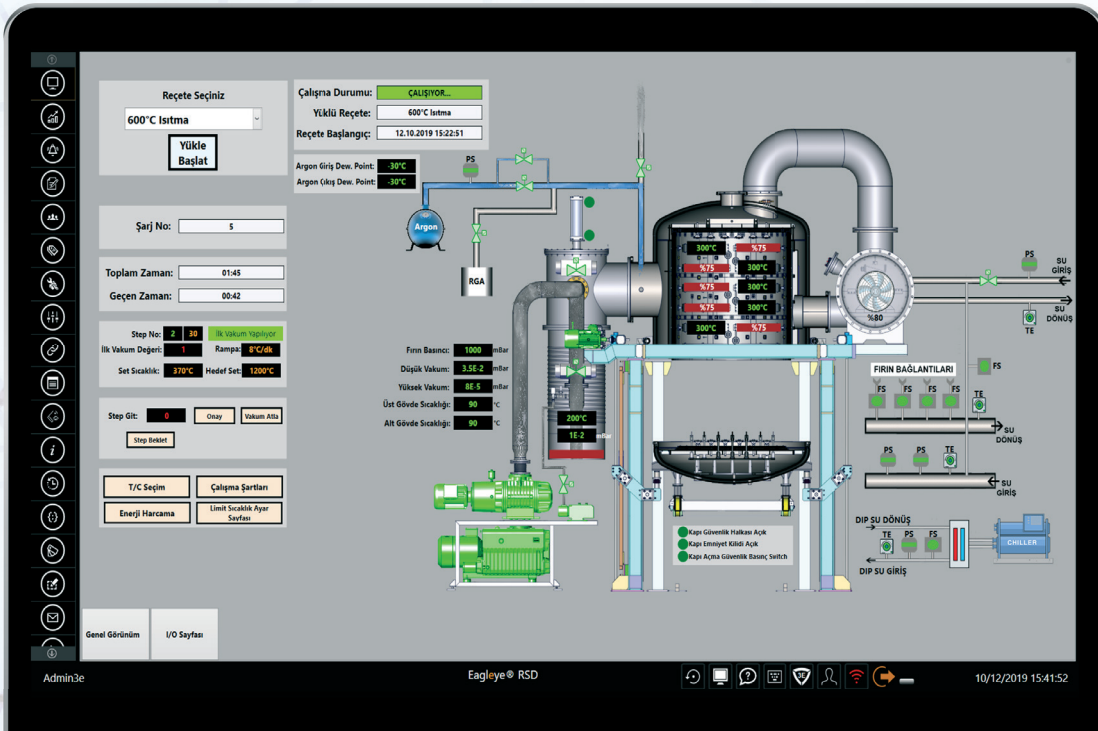
By authorizing your offers, you can control them from a single point and with customer approval initiate the purchasing process for opening requests, checking stocks and supplying deficiencies. You can conduct your meetings, private notes with your customers through the CRM module.

# Eagleye RSD<sup>®</sup> (Runtime SCADA Designer)

You can control your machines, processes and business from a single center.

## Eagleye RSD<sup>®</sup> Key Features;

- Application-specific enhancements (GCODE, pipe bending, robotic coding, etc.),
- Unlimited designable screens,
- Time and event dependent scripts,
- Alarm management,
- User management,
- SMS & E-mail notification,
- Web server,
- Report design,
- Recipe management,
- Real-time & historical data records and graphs...













# Eagleye CDS<sup>®</sup> (Carbon Diffusion Simulation)

CDS is a simulation used to optimize heat treatment recipes to be created for cementation processes. In this way, you can significantly reduce the time you spend on your process developments and make your processes more efficient. Calculates the alloy factor and carbon limits depending on the alloy composition in the steel and uses them in the simulation according to the geometry of the material.

## Features

- Material database with alloy factor along with chemical contents
- %C diagram for required effective hardness depth
- Calculation according to the geometric structure of the part
- Unlimited recipe optimization
- Offline recipe simulation
- Online automatic process control
- User based authorization

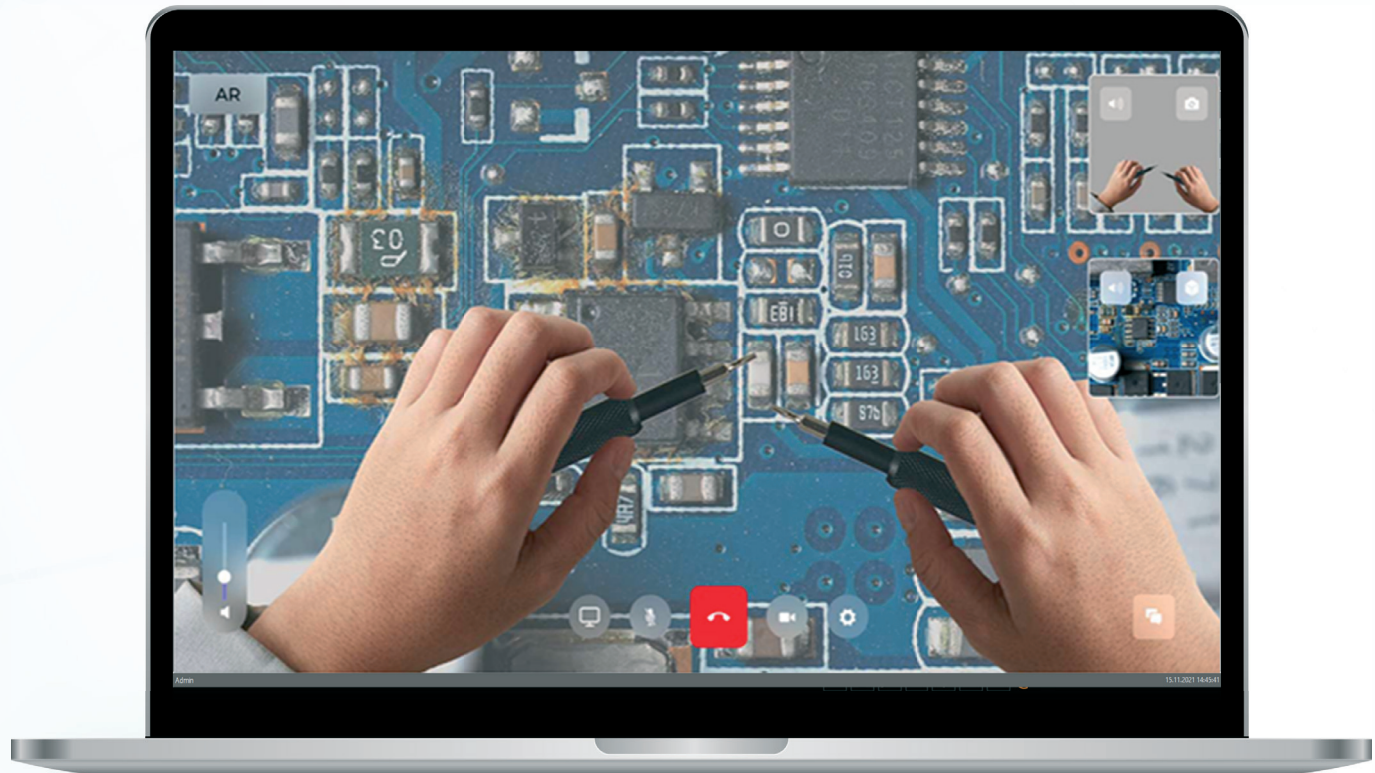


# Eagleeye RRS<sup>®</sup> (Realtime Remote Support)

Increased reality-based Eagleeye<sup>®</sup> RRS brings together the experts in the field and field personnel in real time, providing the needed support. Eagleeye<sup>®</sup> RRS eliminates both loss of time and transportation costs for all kinds of technical support needs. Experts can provide real-time support from their location with our software. Users can access all documents related to the device from within the program.

## Features

- Possibility to make an explanation by drawing on the real image during the live call
- Working on the same document
- Screen sharing



# Eagleye PHT<sup>®</sup> (Portable Heat Treatment)

Technical Info	kWA-Number of Channels 81-6	kWA-Number of Channels 81-12	kWA-Number of Channels 132-6	kWA-Number of Channels 132-12
Control Type	P/C/O	P/C/O	P/C/O	P/C/O
Power	81 kVA	81 kVA	132 kVA	132 kVA
Supply Voltage	400V - 50Hz	400V - 50Hz	400V - 50Hz	400V - 50Hz
Control Voltage	220V - 50Hz	220V - 50Hz	220V - 50Hz	220V - 50Hz
Main Supply Cable (mm <sup>2</sup> )	3x35+16	3x35+16	3x50+35	3x50+35
Number of Channels	6	12	6	12
Size (Width x Length x Depth)	900x1170x800	900x1170x800	1000x1490x900	1000x1490x900
Weight	610 Kg	610 Kg	800 Kg	800 Kg
Resistance Extension Cable	20 m	20 m	20 m	20 m
Resistance Distribution Cable	3m	3m	3m	3m
Thermocouple Extension Cable	25 m	25 m	25 m	25 m

It is a portable heat treatment machine designed to perform pre-annealing and post-welding local stress relief of steel structures. In this way, it is aimed to prolong the life of the structure by preventing deformation and crack formation.

## Data Access and Continuous Recording

The integrated paper recorder provides tracking opportunities for our customers who want to keep the level of control at the highest level in cases where sensitive operations are required. Thanks to the paper recorder, the measurement results of each channel can be watched at any time and risky situations can be intervened with the least loss. All measured temperature values can be transferred to paper via the recorder, as well as digital data transfer via USB.








# Eagleye DEW<sup>®</sup> (DEW Point Analyzer)

It is designed for use in heat treatment applications. %C value calculated with entered process temperature provides cross check for oxygen probe systems.

- Direct readout digital display of process dew point
- CQI-9 compliant furnace atmosphere measurement
- Short response times even when moving between high and low dew point process
- Easy to use, operator training in minutes
- Robust capacitive sensor
- Long life rechargeable battery
- Calibration certificate supplied with factory calibration
- Temperature dependent accuracy of  $\pm 1^{\circ}\text{C}$  ( $\pm 1.8^{\circ}\text{F}$ )
- $-30 \dots + 30^{\circ}\text{C}$  ( $-22 \dots + 86^{\circ}\text{F}$ ) operating range
- 5 micron filter
- 12 VDC internal power supply

Eagleye DEW <sup>®</sup>		
DP	C	%C
-11.3	1000	0.75
		



# Eagleye PDR<sup>®</sup> (Portable Data Recorder)

Provides software and hardware that meet industry standards for TUS by generating reports that address the AMS2750 and CQI-9 specifications.

## Çok Kanallı Veri Kaydedici

The durable and portable data logger is easy to use and can be used in many industrial applications that require recording, trending and reporting. Eagleye PDR<sup>®</sup> includes 15 channels with user-defined inputs for each channel. Eagleye PDR<sup>®</sup> includes software for managing tests and creating custom reports based on test results.

## Eagleye PDR<sup>®</sup> Features

- Designed for industrial environments
- Specially designed for TUS
- Meets AMS 2750 and CQI-9 registration and reporting requirements
- AC (90-264 VAC) 47-63HZ and DC power
- Approximately 8 hours of battery life
- Dimensions: W:400mm x H:310mm x D:210mm
- Password protected menu options
- User defined recording intervals
- Easy calibration
- Ethernet and USB connection to PC
- 800 x 480 color touchscreen



# Eagleye AGA<sup>®</sup> (Atmosphere Gas Analyzer)

It measures the atmospheric gases of heat treatment furnaces containing a protective atmosphere. You can evaluate the performance of your Endogas/Exogas generators and the condition of your catalysts. You can control your oxygen probe with the atmosphere gas in your furnaces.

## Measuring Range

CO: %0-50	O2: %0-25 (Optional)
CO2: %0-5	H2: %0-100 (Optional)
CH4: %0-10	Carbon: %0-2 (Calculated)

## Carbon measurement based on gas composition

- Easy to use, operator training in minutes
- Long life rechargeable battery
- Infrared sensor
- 7" touch screen
- Atmosphere measurement in accordance with CQI-9 and AMS-2750
- Real-time recording and graphical display
- Built-in sampling pump
- Zero/Span calibration
- Ethernet/USB connection to PC
- AC (90-264 VAG) universal power supply





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