ATAS ONE

TAKE CONTROL OF YOUR METALLURGICAL PROCESS

A NOVACAST SYSTEMS PRODUCT

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ATAS One is the future of adaptive metallurgical control and a streamlined version of ATAS MetStar. With customizable features and online support from NovaCast experts, it helps foundries stabilize production, reduce scrap, lower energy use, and contribute to a greener planet.

The Future of Adaptive Metallurgical Process Control

With ATAS One, we are taking a bold step into the future, offering an optimized solution that meets essential customer demands while providing direct access to NovaCast metallurgical specialists. Fully adaptable to most foundries, it ensures process stability, minimizes variations in material properties, and improves efficiency by reducing scrap and energy use.

Innovative Technology for Smarter Metallurgy

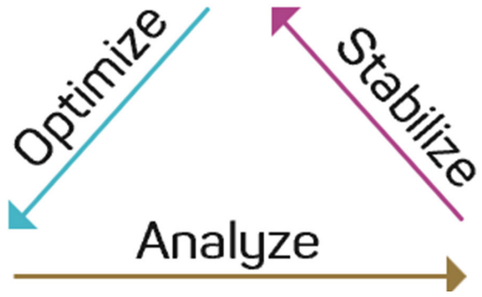
ATAS One is an advanced system designed to analyze thermal behavior from a cooling curve in molten iron using the ATAS G cup. It shares the core engine of its larger counterpart, ATAS MetStar, but offers a more modular and flexible structure.

Equipped with cutting-edge connectivity, ATAS One introduces:

- Cloud-based solutions for seamless data backup and remote access.
- Desktop and mobile applications for Windows, Android, and iOS, enabling operation on tablets, smartphones, and other devices.
- Enhanced remote support, providing direct assistance through Metallurgical Knowledge Services (MKS) on demand.

Analyze, Stabilize, Optimize

ATAS One helps foundries establish structured production methods by defining clear routines and guidelines for process improvement. The system follows the Analyze, Stabilize, Optimize methodology to ensure precision and efficiency in metallurgical processes.



Modular System for Maximum Flexibility

ATAS One is available in three packages: Basic, Medium, and Large, allowing customers to choose the level that best suits their needs. The system is scalable, enabling a seamless upgrade from Basic to Medium or Large at any time.

Secure Cloud Solution

With automatic cloud backups, foundries can rest assured that their database is secure, even if the hardware unit in the melting shop encounters issues. This also enables faster and more efficient remote support, eliminating delays in retrieving backups.

With ATAS One, NovaCast is redefining metallurgical process control—making it smarter, more efficient, and more sustainable.

ATAS One User Application

- Install on your platform of choice (Windows, Android, iOS)
- Control up to 8 channels per device
- Real-time viewing of the cooling curve, solidifi cation and pearlite transformation, and thermal parameters as they are calculated.
- Correction of ACEL, C, Si, and P with calculation of material additions.
- Configuration of alloys used, with templates for common alloys across different grades.
- Configurable user equations and rules to provide

operators with real-time process guidance.
- Calculation of the optimal amount of material for magnesium treatments.
- Calculation of the optimal amount of inoculant based on the state of the melt.
- View historical data in the curve analyzer.
- No limits on the number of user applications per customer.

CURVE ANALYZER FOR SINGLE CURVES

Connectivity
- Connection with Spectrometer data
- Connection with Temperature Lance
- Connection with Instream Inoculation system
- Connection with Cored Wire Machine

Metallurgical Knowledge Services (MKS), active support up to 8h per month includes:
- Monthly or weekly report (depending on custo mer preferences).
- Review of cloud database and suggestions for adjustments:
  - Fingerprint for each alloy
  - ACEL Target
  - Defects risk evaluation
  - Creating unique User advices
  - User Equations
  - MasterMind correlations to have the most proactive system for specific foundry.
- Metallurgical advice (sharing NovaCast four de cades of practical knowledge).
- Assistance with any kind of modules if purchased (Pearlite, Ductile, Dynamic Inoculation, Spectro-meter, Medium, Large package, etc).

Hardware
- Custom board for accurate temperature measu rement of up to 8 channels simultaneously at a rate of up to 5Hz.
- Internal processor: 2.4GHz quad-core 64-bit Arm Cortex-A76 CPU.
- Internal database
- Aluminum housing (AlSi12) with IP66 rating, including the following interfaces:
  - USB port
  - Wi-Fi antenna
  - LAN port
  - Power input: 100-240V, 50-60Hz
- Status and error indications on the housing.
- Configurable automatic backup to the cloud.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