



MATRIX INTERNATIONAL (UK) LTD.

BASIC PROJECT OVERVIEW

Basic list of Operations for Vacuum Furnace

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1 Abstract

Matrix implemented the software, Electrical and SCADA system for a Vacuum Furnace.

2 Machine Assets

- Vessel
- Heating Elements
- Pumps, Thermocouples.

3 Process Function

- Heating of Vessel- To 1200 celcius and above.
- Pumping down of vessel - to below 0.1 Pascal.
- Control Of temprature - keeping the temprature stable
- Air Admitting back to atmosphere.

4 Software Function

- Recipie handling - via a SCADA system
- Maintenance reporting - Sensors report state of various critical parts to aid in the maitence process pre-emptively.
- Part Tracking - MES system to ensure a paper trail for batches of product.
- Reporting - for information with respect to how to improve the system.