

START MONITORING



EACH FURNACE

EACH HEAT



i-Melt Furnace Monitoring and Control system is your companion to effectively monitor each furnace in you Tri-Track, Dual -Track or Mono-Track system. This may not be possible with a conventional energy monitoring system so, i-Melt is specifically designed to Monitor each individual Furnace for Energy consumption for each heat.

The system takes signal from the Melting furnace to conclude on end of a heat and beginning of a new heat and gives you a complete picture of "How" power is being and has been consumed during each heat and by each furnace separately. Monitoring itself helps most of our customers reap good amount of energy savings and in turns cost savings.

Of-course that's not all, we believe that, we foundrymen know, how this will help. Just to elaborate more key features are listed in the selection chart.

FURNACE 1	FURNACE 2	FURNACE 3
HEAT # 10	HEAT # 9	HEAT # 9
TIME:	TIME:	TIME:
LAPSED: 25 Min	LAPSED: 10 Min	LAPSED: 40 Min
REM: 10 Min	REM: 25 Min	REM: -5 Min
UNITS:	UNITS:	UNITS:
USED: 395	USED: 75	USED: 510
REM: 105	REM: 425	REM: -10



LAN



The Large display in front of us showing units consumed and time lapsed for current heat as well as current power input helps us to be on toes ! The hooter and flashers tell us when the allocated units & time is up!



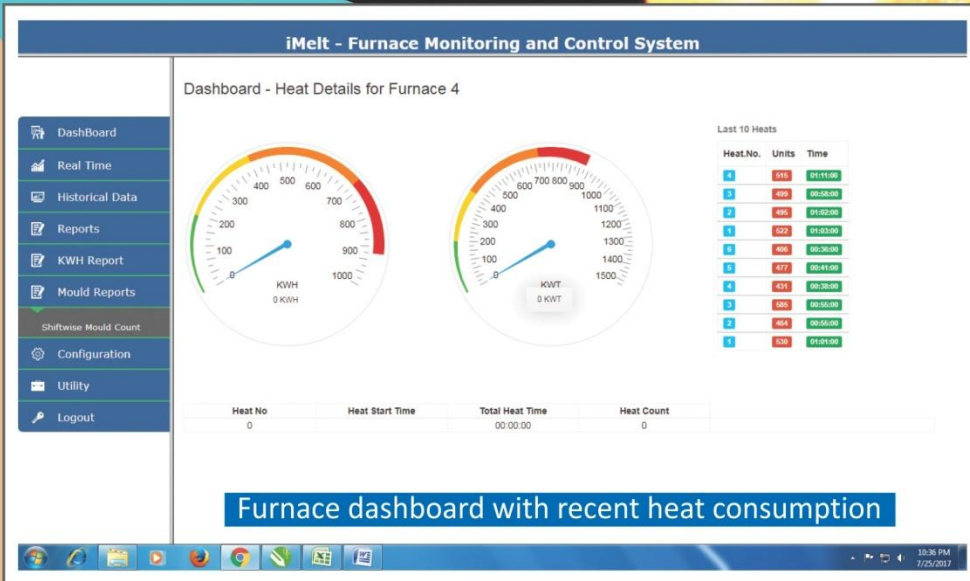
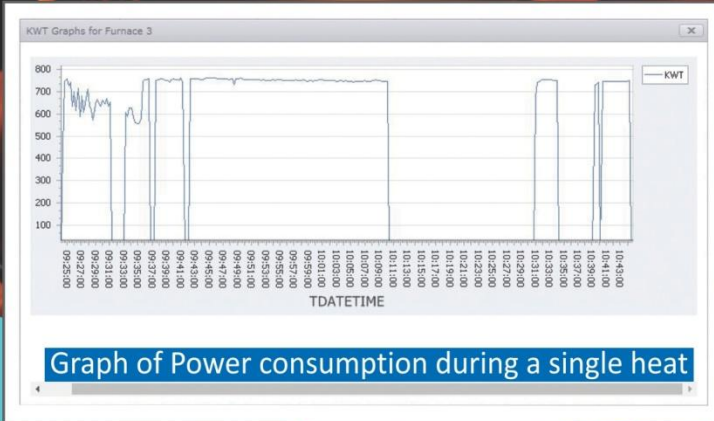
It's the savings, a lot of savings ! It also enables me to reward efficient people! Nothing beats getting reports on Cell phone.



Heat wise reports of each furnace power consumption enables me to analyze where time & money was lost and how to avoid such losses. I know more need to worry about MD crossing!

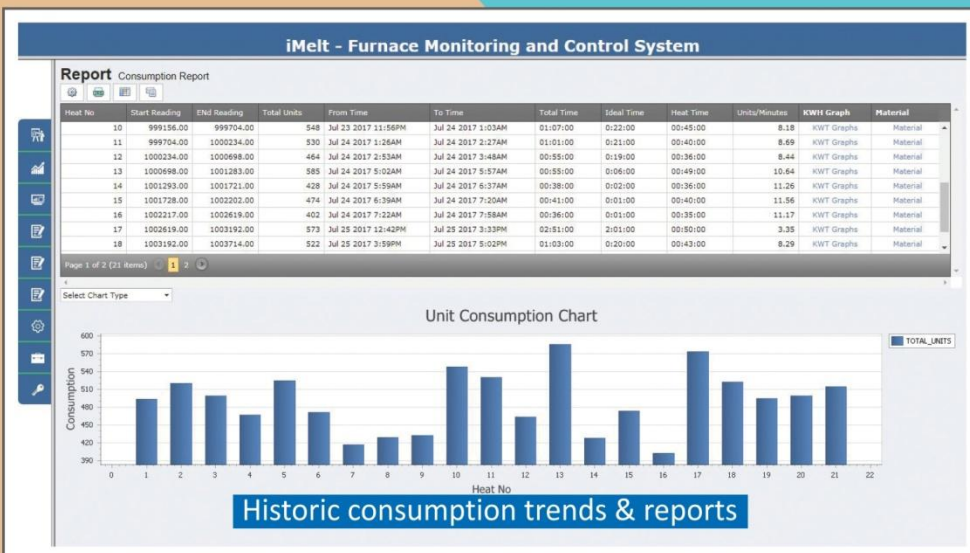


Few of the screen - shots of reporting



Furnace dashboard with recent heat consumption

We do provide Customized reports & screens as per your requirements.



MONITOR ENERGY CONSUMPTION CONTROL ENERGY INPUT EASILY & AUTOMATICALLY



i-Melt Feature Guide		i-Melt-I	i-Melt-II	i-Melt-III	i-Melt-IV
Features					
1	Continuous Observation of Power consumption by Each furnace	•	•	•	•
2	Heat/ Melting Cycle Observation of each furnace	•	•	•	•
3	HMI dashboard near Furnace		•	•	•
4	Capability to display dashboard on a external HDMI TV	•	•	•	•
5	Access to reporting over LAN	•	•	•	•
6	Control of Melting Cycle			•	•
7	Control of Sintering Cycle			•	•
8	Interface with Spectrometer	Ω	Ω	Ω	Ω
9	Interface with Pyrometer	Ω	Ω	Ω	Ω
10	Mould Counting	Ω	Ω	Ω	Ω
11	Positive Mould identification	Ω	Ω	Ω	Ω
12	Automated input for Cold Start			•	•
13	Maximum demand (MD) estimation & Control limit				•
14	Data Storage Capacity (Native in GB) approx	3	3	3	3
15	Synchronization with Cloud	Ω	Ω	Ω	Ω
Hardware Inclusion					
1	Basic Server+ Windows License	•	•	•	•
2	UPS for Server	•	•	•	•
3	Wall mount Box to Fit Server	Ω	Ω	Ω	Ω
4	Number of Furnaces included in observation	1	1	1	1
5	Isolators	○	○	○	○
6	Cabling, Wiring, Civil or Fabricated structure	○	○	○	○
7	LED board for each furnace showing: Count Down timer Power Consumed/ balance for the heat	Ω	Ω	Ω	Ω
8	Large TV for complete status dashboard	○	○	○	○
9	Hooters and Flashers as Alarms	Ω	Ω	Ω	Ω
Reports					
1	Furnace & Heatwise consumption	•	•	•	•
2	Individual Furnace power consumption Vs Time Chart	•	•	•	•
3	Operator Specific reports		•	•	•
4	Day to Day Comparison between heat power consumption	•	•	•	•
5	Sintering Plot of power consumption	•	•	•	•
6	Customized reports (Nos) *Based on automated input data	1	3	5	10
7	Scheduled e-mail reporting	•	•	•	•

• Available feature ○ Customer Scope Ω Optional feature not included in default package

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