

Hasco-Thermic Ltd: Digitalisation of the Galvanizing Industry

NORDIC GALVANIZERS' ANNUAL AND MEMBER MEETING

23rd April 2019

Agenda:

- A little bit about Hasco case studies
- Digitalisation what is it?
- Hasco's 3 new products
 - 1. HASCO REMOTE SOLUTION®
 - 2. HASCO SMART FIRING
 - 3. HASCO QUALITY CONTROL
- Conclusion



Parent Company - B E Wedge Holdings

- Galvanizing since 1850's
- Largest Galvanizing Group in United Kingdom
- Galvanize at 14 locations in United Kingdom
- Interests in over 40 plants
 Worldwide
- Access to Proving Ground
- Honest Product Feedback
- Practical Galvanizing Experience

34 Countries

- Austria
- Belgium
- Chile
- Czech Republic
- Egypt
- Germany
- Ghana
- Greece
- Hungary
- India
- Indonesia
- Israel

- Ireland
- Italy
- Kenya
- Libya
- Lithuania
- Malta
- Mauritius
- Morocco
- Netherlands
- Nigeria
- Oman
- Russia

- Saudi Arabia
- Slovakia
- South Africa
- Spain
- Switzerland
- Taiwan
- Turkey
- United Kingdom
- USA
- Zimbabwe

Latest References



Joint project with Ingenia Cranes, Austira and Körner kvk Tanks, Austria -Commissioned end 2014

Kettle Size: 12.5 x 1.8 x 3.5

No of burners: 8 burners

Capacity: 25 tonnes per

hour average

 Maximum Capacity: 39.5 tonnes per hour

Annual Production – 75,000 tonnes

- Scope of supply:
 - High-Velocity Galvanizing Furnace
 - Flue gases to water heat exchanger
 - 5 Compartment Drier
 - In-line zinc bath fume enclosure

Customer Testimonial

On the installation of the highest capacity galvanizing furnace in the world:

'there was no question who we were going to trust with the furnace, Hasco are the high velocity guys.'

Ozgun Keles, Project Manager
Mitas Galvanizing, Turkey



Latest References

Transvaal, South Africa

First furnace - installation 2011

Kettle Size: 12.5 x 1.2 x 1.8

No of burners: 6 burners

• Capacity: 11.5 tonnes per hour

Second furnace – installation Summer 2014

• Kettle Size: 12.5 x 1.2 x 1.8

No of burners: 6 burners

Capacity: 11.5 tonnes per hour

Third furnace – installation Winter 2016

• Kettle Size: 15.5 x 2.0 x 3.2

No of burners: 6 burners

Capacity: 15 tonnes per hour





Latest References – Case Study





ACROW Galvanizers Ltd, UK - installed 2016

Kettle Size: 5 x 1.2 x 3.3
No of burners: 4 burners

Capacity: 10 tonnes per hour

- Scope of supply:
 - High-Velocity Galvanizing Furnace
 - 'Pilling' Galvanizing Kettle
 - Travelling Galvanizing Enclosure
 - Single Compartment Drier
 - Gas-to-water Heat Exchanger
 - Installation and Commissioning
- Features
 - Siemens S7 Control Panel with Profibus protocol
 - Inverters on all Fans
 - Digital Solutions

Industry 4.0

Digitalisation

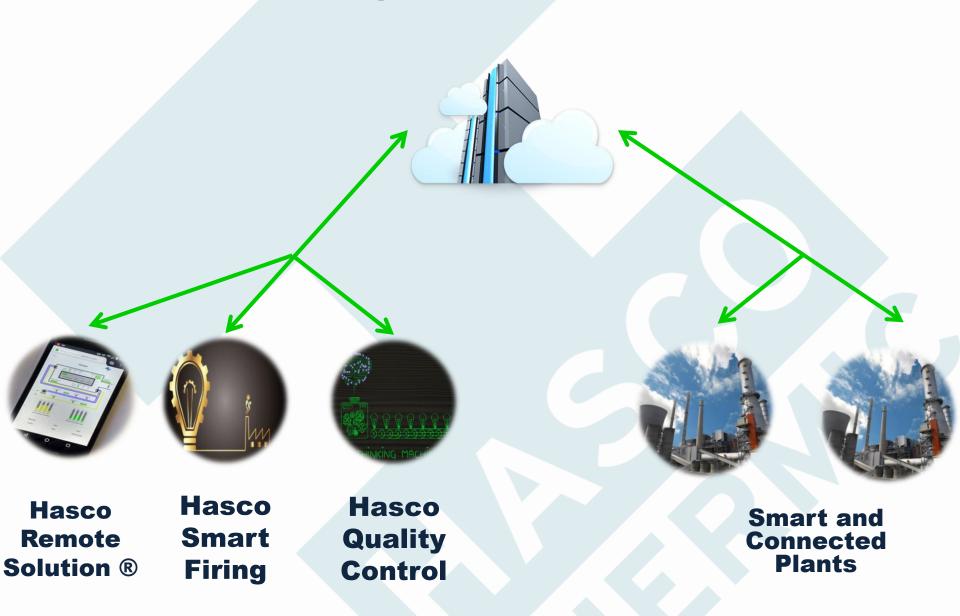
Big Data





'What gets measured, gets better'

Digitalisation

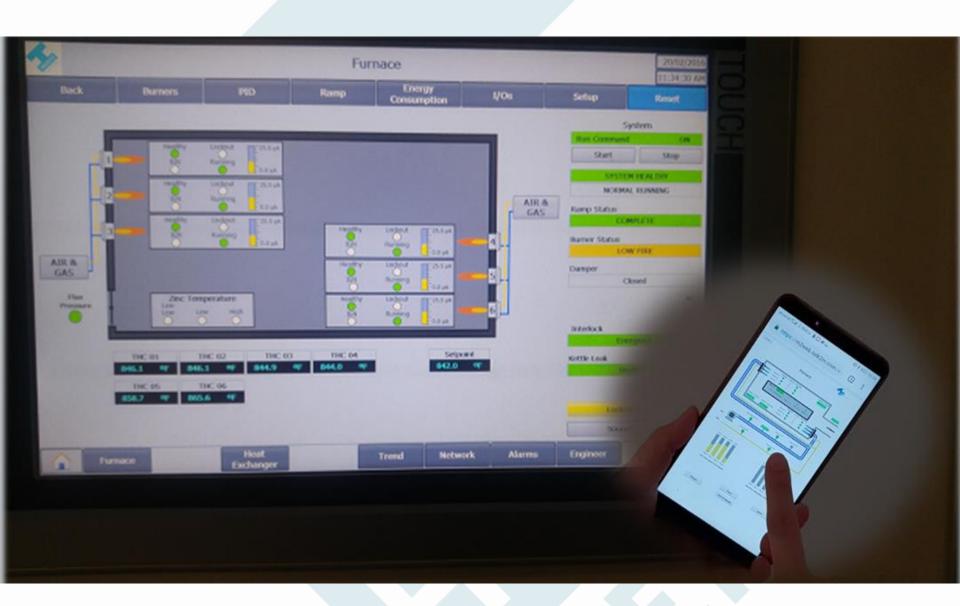


As secure as on-line Banking...



Hasco-New Product Range

1. HASCO REMOTE SOLUTION®



Hasco-New Product Range

1. HASCO REMOTE SOLUTION®

2. HASCO SMART FIRING

Effect of Hasco Smart Firing™

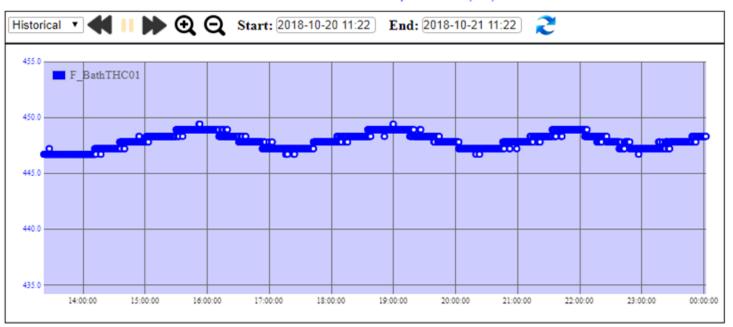
Before (Traditional Pulse Firing)

Log Out



Trend

Furnace Bath Temperature (°C)



Effect of Hasco Smart Firing™

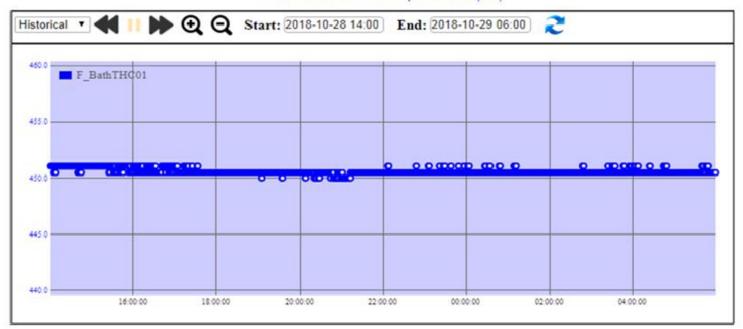
After (Hasco Smart Firing ™)

Log Out



Trend

Furnace Bath Temperature (°C)



Smart Firing Case Studies

Case 1 (running since 2016)
 5250 x 1200 x 3300 - Annual gas saving 21.3%

Case 2 (running since 2017)
 10250 x 1220 x 2700 - Annual gas saving 10.8%

Case 3 (running since 2018) - retrofitted
 13500 x 1750 x 3100 - Annual gas saving 12.5%

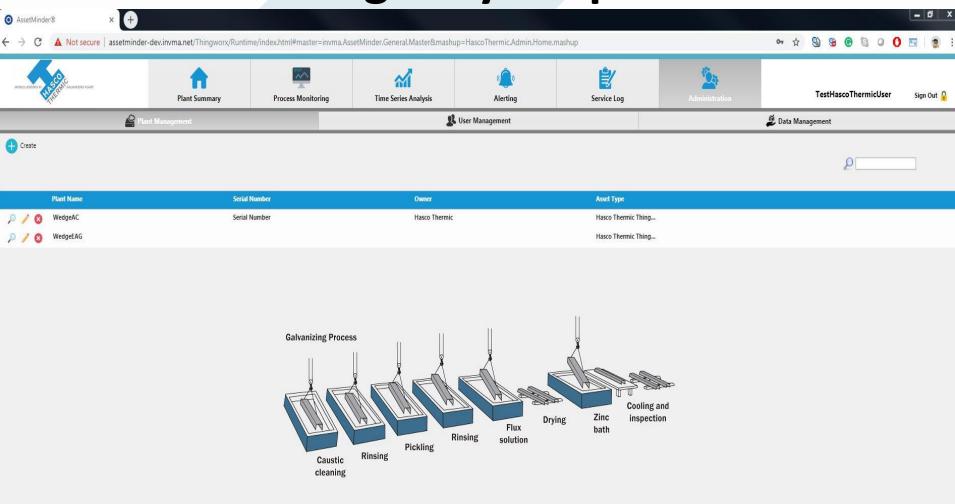
Hasco-New Product Range

1. HASCO REMOTE SOLUTION®

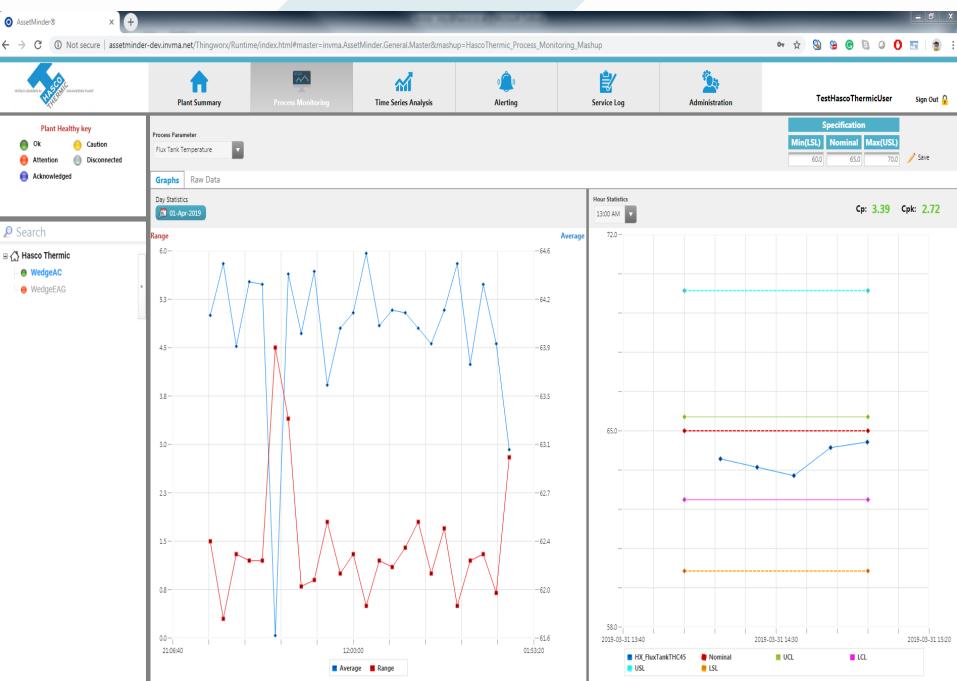
2. HASCO SMART FIRING

3. HASCO QUALITY CONTROL

Configure your plant



See the data



Benefits

- Automatically harvesting data no need for manual readings
- Manual data can be uploaded
- One place for all plant data
- Accurate trends and events to be tracked, understood and analysed
- Automated alarms and notifications against agreed control limits.
- Improved connectivity any equipment can be connected
- Drive behaviours
- Implementation of Statistical Process Control (SPC)

Cost of Quality

Failure

- Re-galvanizing
- Lost opportunity

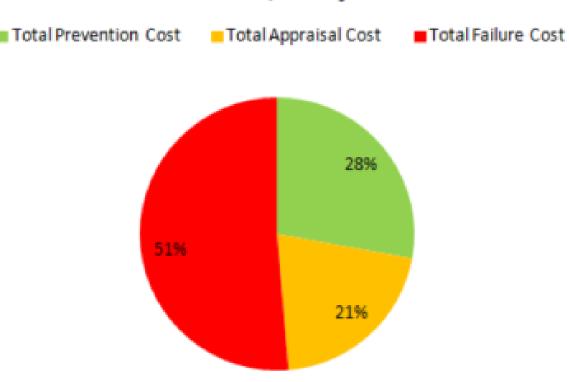
Prevention

- Quality Manager
- Training

Appraisal

- Sampling
- Auditing
- Inspecting

Cost Of Quality YTD



= GBP £10,000 per month = SEK 120,000 per month

'What gets measured, gets better'

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