Implementing Digitisation  15/11/2016
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Delivering performance-critical solutions for the most demanding requirements to meet current and future global energy needs
EMPLOYEES AND LOCATIONS

Design, manufacture and maintain fluid-filled electric motors, pumps and steam turbines for high pressure, high temperature applications across the energy sector.
PEOPLE

We are passionate and take pride in our can-do attitude, ease to do business with and ability to work at pace.
How it all started in 2011
Grunt Work!

It’s not about how hard you can hit, it’s about how hard you can get hit and keep moving forward, that’s how winning is done.

We grafted- Mega 5S events.

We planned our future together.

We delivered our arrears.
Building the Future Factory

We demolished the old

We built the future factory

We educated ourselves on our processes

We trained together
Most importantly we engaged our people
We built a Management Information System MIS

- Global Sales Pipeline
- CRM linked to ERP
- Live sales dashboards
- ‘What if’ sales operational Scenario planning
- Synergy Dashboard drives project management
- Supplier Portal
- Statistical process & throughput control
- CAPA IT quality management system
- H&S management
- Paretos linked to ERP for root cause analysis
- CI improvement App
- Health of the contract (finance)
- Gemba Lean Academy

A digitised visual management system accessible by all!
### HT Luton Synergy

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HTG Computer Aided Engineering Systems

- 2 Seats of ANSYS
- 3 seats of CAMworks
- 26 seats of Solidworks
- Maxwell Electrical software
- CAD Link auto BOM exporting
HTG Driveworks Integration

Rules Based Design Automation for products that are the same, but different

- Respond Quickly to Sales Enquiries
- Capture / Protect Know-How
- Reduce Repetitive Tasks, Cost of Custom Designs
- Bridge Gap between Engineering & Sales
- Scalable Solution, all the way to the web
Smart factory, smart people

The development of our people is providing the foundation for improved collaboration and knowledge sharing, increasing our agility and responsiveness based on a shared set of values.

We recruited the brightest and best.

Ross Meikle leading our morning meeting. He is currently managing the FMC Subsea BC10 project.

47,000 hours of employee training to date

89% Apprenticeship retention with 100% job role placement

75% of our graduates are promoted within three years

MIS Synergy Dashboard
One of my first projects:

...heavy engineering was new to me
and some of the shop floor still provided a level of shock....

...but I had a vision with Rob Cruse, right there...
The vision

SMART movement of our product, and manufacturing on the Crusers® to:

• Improve safety
• Reduce crane lifts
• Eliminate forklift trucks
• Reduce cycle times through single minute exchange of die (SMED)

• Tablet computers on Crusers®
• All relevant docs and job travelers accessible
• The connected and paperless shop floor
• Location detection technology
The reality today
Get prepared or left behind, it’s our choice!
1. Witness Simulation Project of the year 2015 Winner!
2. HTG Luton Improvement Plan – An improvement project across the entire business
3. 3D printing for product design, factory layout development and marketing
4. HTG FY2016 Sales and Operational Budgeting Simulation
5. HT Group Marketing, Sales and Operational Simulation
6. HT Kunshan, China Simulation of existing and future factory
7. HTG Peterborough Sales and Operational Simulation of entire business
8. HTG Delhi India Simulation of rewind centre
9. SQDCP Visual Management using digitised reports
10. Digitised testing, auto test reporting, remote test witness and customer web portals
11. 3D CAD facility models of all HT Group sites
12. Supply chain web portal
13. Digitised design and engineering
14. Cable WND Cruser® Industry 4.0 winding machine
We have been busy promoting Industry 4.0

18 work experience students and 5 Internships this year!

Engineering diversity is one of our assets

Witness Simulation

3D Printing
The Success of our Digitisation Journey

2011 original equipment on-time-delivery 16%

2016 original equipment on-time-delivery 100%

BCP lead time reduced from 75 weeks to 35 weeks

Submersible lead-time reduced from 56 weeks to 34 weeks

Aftermarket parts lead-time reduced from 19 weeks to 9 weeks

Cost avoidance of £0.5 million through the use of future factory simulation

Major order wins as a direct result of using simulation and virtual reality

Improved business intelligence
...and we are now open for business
Thanks to our Partners

Knowledge Sharing & Partnerships

- University of Bedfordshire
- Epicor
- Cranfield University
- Brunel University London
- University College Birmingham
- Virtalis