



IMI Norgren

Case Study

New Factory Compressed Air System

Global fluid power company IMI Precision Engineering produces, under the Norgren brand, one of the widest ranges of quality pneumatic and fluid control products such as actuators, air preparation products, fittings and valves. Norgren has extensive leading brands in its portfolio including Lintra, Excelon, Pneufit, Martonair, Enots, Herion, FAS and Buschjost.

COMPANY
PROFILE

The Challenges

IMI Precision Engineering approached Thorite with a challenge to install and test multiple pressure air ring main systems in their new Norgren factory at Fradley, Staffordshire. Unusually for an industrial compressed air system the working pressures for pipework required varied between 7 and 400 Bar. Particularly challenging was the time frame involved as the builders, Cleggs, had already completed much of the factory construction prior to Thorite being called in to provide the compressed air supply.

A demanding brief..

Our installations team set to work on the design and planning of the pipework systems carefully following the customer's brief which was very extensive and detailed as would be expected for such a sizeable project. Due care and diligence had to be applied in order to meet the requirements of a plethora of standards and regulations from fifteen different official bodies. These ranged from Building Control Regulations

through to requirements of the Health and Safety Executive, the Local Water and Electricity companies and last but not least The Control of Pollution Act!

Performance Specification

The Thorite design team had to provide a detailed design proposal package in accordance with the main contractors programme. Termed the **Performance Specification** the proposals had to include details including...

- Detailed design drawings.
- Working installation drawings for 10 ring mains. A comprehensive technical submittal providing full technical details of all plant and equipment and systems to be used on the project
- A calculations submission

The final tally came to almost 2 kilometres of pipework with a total of 235 drop lines and included a full Written Scheme of examination for compliance with the Pressure Systems 2000 Regulations.

Unique skills

Thorite's Installation Team possess a unique skills set which enabled us to provide the multi pressure systems solutions required in this case. We have the ability to meet targets at short notice and work flexibly with all contractors. The contract was completed and commissioned on time and within budget.

