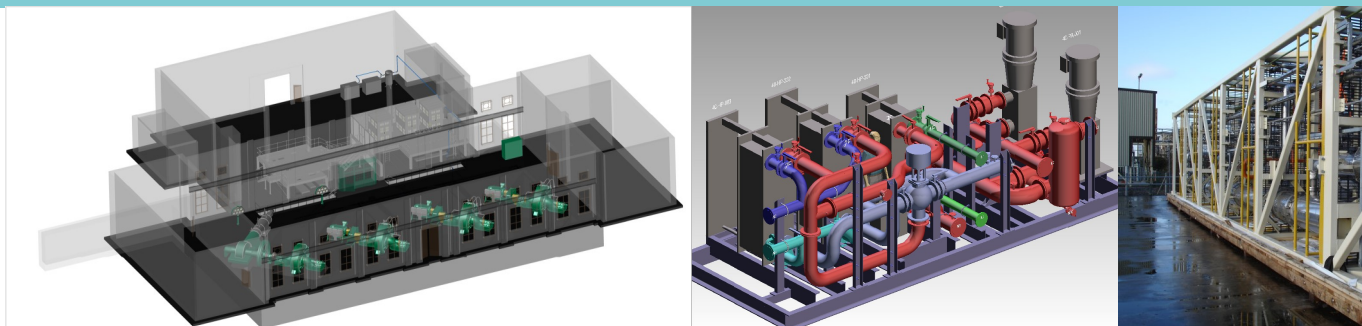


Designed today, installed  
tomorrow



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## Engineering and Design Department



### Boulting mechanical design services:

Process Plant

Overall Layout and Piping Design

Mechanical Equipment Specifications  
(API-610/ API-650)

Valve, Line, Piping Specials and Tie-in  
Schedules

Stress Analysis (ASME B31 or BS EN 13480)

Piping and Insulation Specifications (API/  
ASTM/ANSI/B31.3)

Plant General Arrangement Drawings

3D Visualisations and space management

Detailed Piping Arrangements

Isometric Drawings

Mechanical and Piping Installation Scopes of  
Work

Demolition Scopes of Work

Small Scale Detailed Designs

Site Surveys / Inspection Reports

Proposals, Specifications and Estimates

Process Engineering Consultancy Services

Piping and Instrumentation Diagrams

Pump Selection and Sizing

### Great projects start with confident designs

Our highly skilled, qualified and experienced design team deliver electrical and mechanical design solutions to a wide range of industries. We utilise the latest tools and techniques, including 3D modelling and Building Information Modelling (BIM).

### Confidence with our experience

With over 60 designers in our team, we have a flexible resource. With an ethos of early engagement and collaboration together with getting it right first time, we pride ourselves that our detailed designs will be installed tomorrow.

### Confidence with the latest standards

Using practical knowledge and extensive experience our team of in house designers can deliver a suite of cost effective, innovative and safe design solutions. And with our Quality system assured to ISO9001:2015 you can rest assured we consistently meet your needs and have a strong customer focus.

### Confidence with our CDM2015 principal designer role

Our experience in fulfilling the principal designer role within CDM 2015 ensures that health & safety is embedded in our design processes, and are considered at the earliest opportunity whatever your project.

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tomorrow



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## Engineering and Design Department

### Boulting Electrical and Instrumentation design services:

Low and High Voltage Distribution Schemes (up to 33kV)

Full Electrical Installation Designs. (BS 7671)

Electrical Fault Level, Load Flow, Protection, Coordination and Discrimination Studies (IEC 60909)

Arc Flash Incident Energy Studies (IEEE 1584)

Earthing System Design (BS 7430 / BS EN 50522)

Coordination of lightning protection schemes to BS EN 62305

Motor Control Systems (BS EN 60439-1 / 61439-1)

Low Voltage Switchboards and Package Substations (BS EN 60439-1 / 61439-1)

Secure Power Supply Schemes

Building Services (Small Power, Lighting etc.), BMS and HVAC Electrical Services

Intruder, CCTV and Fire Alarms Systems (BS 5839-1)

Server Room Design

DATA and Structured Cabling Systems Profibus, ASi, Ethernet, Cat 5e&6

Process Plant Field Instrumentation (BS EN 62382)

Custom Built and Standard Control Panel Designs (RIO, Festo Valve Islands)

PLC / SCADA Systems – Software Development and Testing

URS / FDS Development

Automation and Process SIS Control Systems. (IEC 61508 – IEC 61511)

Including Alarm and Trip Schedules and Proof Tests Documentation

Hazardous Area Classification (via associate Consultancy)

Hazardous Area Designs (BS EN 60079)

3D Visualisations and space management



### Cost effective and future proof designs

We utilise a range of software to create designs for you, including Building Information Modelling.

- Intergraph CADWorx® Plant Professional 3D CAD Software
- AutoCAD® 2015
- Autodesk Revit®
- Microsoft® Office & Project
- Amtech Pro-design Suite™
- SKM PTW (HV Design)
- RELUX and DIALux Lighting Design Packages
- Building Information Modelling (BIM)

To find out how our design team can deliver confidence to your next project, contact us today.