Don Valley Engineering

A Global Leader in Design, Manufacture and Supply of Complete Turnkey, Material Handling Solutions

- Screens
- Feeders
- Centrifuges
- Bulk Handling
- Materials Handling Solutions

A Global Leader in Design and Manufacture

Manufacturers of Screens, Feeders and Centrifuges Don Valley Engineering Ltd is a preferred supplier to major Quarrying, Mining and Minerals Processing Companies around the world and have earned their reputation through:

- 75 Years of Experience, Research & Development.
- Reliability in the most demanding situations
- A Total Commitment to serving our valued Customers.
- Robust and uncompromised build quality.
- Excellent Process Efficiencies.

Don Valley Engineering Company Limited (DVE)

DVE is a privately owned company which was established in 1947, it's initial market was for repair and general fabrications which, being located in the heart of the Yorkshire Coal Field, inevitably focused on the coal mining industry.

From our modest beginning we have expanded and evolved over the years, gathering a wealth of experience in all aspects of engineering, in particular the processing and handling of bulk materials and the building of specialist screening, centrifuging and maltings equipment, making us one of the leading U.K. suppliers in our chosen fields. We therefore enjoy the enviable position of being a supplier to all major producers and users of minerals, iron and steel, coal, sugar and potash etc.

The company today is predominantly staffed by design and contract management engineers who specialise in all aspects of our business to cater for our broad client base. Our size enables us to respond positively to changing market conditions whilst affording us the ability to maintain tight control of overheads and thus produce economic and effective plant and equipment.

- Project Management
- Feasibility Studies
- Turnkey Projects
- Design & Build
- FEEDs
- Construction

The Right Equipment To Suit Your Application

If you need Bespoke Design and Manufacture of Screens, Feeders, Vibrating Centrifuges & Material Handling Solutions... We've Got it Covered!

Call us:
01302 881188

Email us:
info@donvalleyeng.com

Visit our website:
donvalleyeng.com

Find us:
Doncaster, South Yorkshire,
DN3 1QR

Company Structure

Over the last four years the company has been re-structuring itself and is now split into four divisions:

Don Valley Engineering

Don Valley Engineering Group has been involved in the provision of expertise and the supply of machines and material handling systems to the Mining, Quarrying, Iron and Steel, Minerals and Heavy Industries worldwide.

Don Valley Construction

Providing the complete Construction Services of Mechanical Erection, Equipment Installation as well as complete CDM service as Principal Contractor and Designer, Complete Site Management and Site Supervision.

Don Valley Maltings

Don Valley Engineering is the leading UK provider of Process Plant and Support to the Malting Industry and the only UK company which can provide complete in-house solutions for every aspect of Malting Plants from spares right up to full Turnkey Design.

Don Valley Materials Handling

A key process solutions provider and preferred supplier of material handling applications, including Bulk Storage, Weighing, Feeding and Dosing Equipment for Mechanical and Pneumatic Conveying Equipment and Screw Feeders.

Avetta

nqa ISO 9001 QUALITY MANAGEMENT UKAS MANAGEMENT SYSTEMS 0015

UVDB empowered by Achilles

ABMEC The British Mining Trade Association

ECIA Engineering Construction Industry Association

MHEA

HG Flat Deck Screens

Coal | Aggregates | Potash Ores | Recycling

High Performance | Total Reliability

Linear Motion Flat Deck Vibrating Screens

Don Valley Engineering Linear Motion Vibrating Screens, are used around the world in many of the most demanding operations. More than 40 years of experience in vibrating screen design and development has resulted in a standard of screen which is amongst the most robust, reliable and efficient available. Many of our screens have been operational for more than 20 years, and as a result they represent truly exceptional value for investment. We only build machines which last.

- Bespoke design to suit customer requirements
- Single Deck
- Twin Deck
- Triple Deck
- High grade boiler steel side plates
- Huck bolt construction
- Excitor unit linear motion
- Over 20 years operational lifespan
- A 'best value' Investment

DESIGNED AND BUILT IN THE UNITED KINGDOM

All of our machines are fully assembled and tested prior to shipping.

Screen Data

Effective Width: Up to 4000mm

Effective Length: Up to 12000mm

Mass: Up to 32T

Deck Area: Up to 64m^2

Vibratory Motion: Linear

Amplitude: Up to 15mm

Frequency/Speed: 830 to 995 Cycle/Min

Angle of Throw: To suit application

Inclination: -5˚ to +20˚

Flow Speed: 0.3 to 0.5m/s

Capacity : >3000TPH subject to material

Deck Configurations: Single / Twin / Triple

Deck Types: Compatible with most deck media

Get your Flat Deck Screen specified by the experts

Our application engineers will be pleased to provide you with a specification for the best screen to meet your requirements. Simply provide us with the following basic information:-

- Type of material
- Size analysis of feed material
- Bulk Density
- Feed rate (TPH)
- Separation sizes required
- Moisture content

From 3D modelling to manufacture!

All of our machines are fully assembled and tested prior to shipping.

Multi-angle 'Banana' Screens

Coal | Aggregates | Potash Ores | Recycling

Optimal Performance
Total Reliability

Multi-angle Banana Vibrating Screens

Don Valley Engineering Banana Screens employ the latest technology in multi angle machines which are capable of achieving exceptional throughputs for relatively small screening areas. The screens include a number of different screening angles with a wide variety of deck types and apertures to meet the particular process requirements.
The screens are designed to accept most types of deck system including polyurethane, punched steel plate and wedge wire.

- Bespoke design to suit customer requirements
- Single Deck
- Twin Deck
- High grade boiler steel side plates
- Huck bolt construction
- Excitor unit linear motion
- Over 20 years operational lifespan
- A 'best value' Investment

The benefits of Multi-angle screenings are:

- Improved efficiency in sizing material due to formation of a thin bed depth
- Smaller footprint
- Lower water consumption with wet screening
- Lower energy requirement, than for an equivalent throughput on a conventional flat deck screen
- Higher feed rates for an equivalent deck area

Screen Data

Effective Width: Up to 4000mm

Effective Length: Up to 12000mm

Mass: Up to 32T

Deck Area: Up to 64m^2

Vibratory Motion: Linear

Amplitude: Up to 15mm

Frequency/Speed: 850 to 995 Cycle/Min

Angle of Throw: To suit application

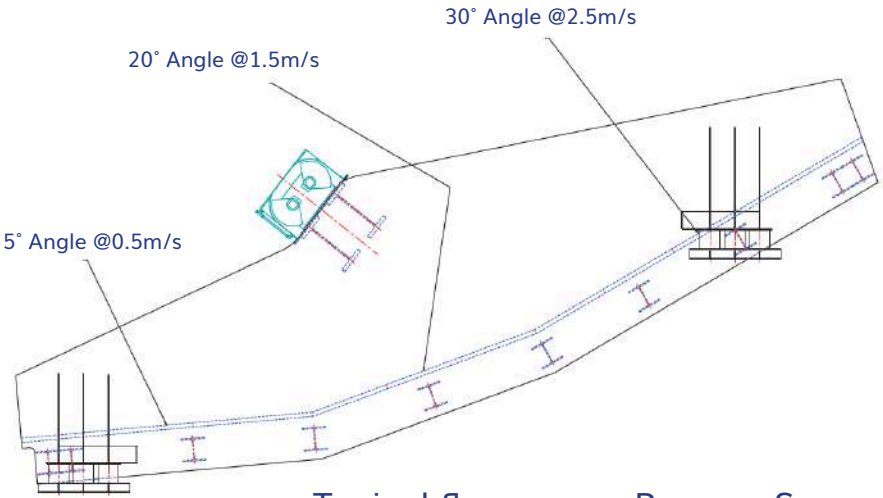
Inclination: Variable, multi-angle

Flow Speed: Variable

Capacity : >3000TPH subject to material

Deck Configurations: Single / Twin Deck

Deck Types: Compatible with most deck media



Typical flow over a Banana Screen

Get your Banana Screen specified by the experts

Our application engineers will be pleased to provide you with a fully detailed specification of the Banana Screens, based on receiving the following information:-

- Type of material
- Size analysis of feed material
- Bulk Density
- Feed rate (TPH)
- Separation sizes required
- Moisture content

VS Dewatering Screens

Coal | Minerals | Sand Washing

VS Dewatering Vibrating Screens

Our range of VS type dewatering screens has been designed specifically for the drainage of wet, often fine minerals, from the carrying fluid. To do this they employ a number of features including a sloping back panel to dewater the feed as it arrives at the machine, a rising inclined dewatering deck to create a deep dewatering zone from which the solids are extracted by the action of the machine, and variable height barriers to aid dewatering of the extracted mineral prior to discharge. VS type dewatering screens are produced in a number of standard sizes to meet typical production requirements and they can operate at high frequency when required by the process.

- Designed specifically for the removal of free moisture from Coal, Sand washing, and other minerals
- Quick and easy alteration of the screen deck angle allowing fine tuning to be carried out to maximise output and efficiency
- The use of a polyurethane deck system is extremely secure whilst in use and easily changed to suit varying conditions. Can also be fitted with Stainless Steel Wedge Wire Panels
- The amplitude of the screen can be easily adjusted to ensure that optimal efficiency is achieved
- Ease of maintenance has been designed into the screen to provide maximum operating time

DESIGNED AND BUILT IN THE UNITED KINGDOM

Product Information

A range of 13 sizes

Back deck 45° angle to main deck

Variable main deck angle

Linear Motion

Huck bolt construction

High dewatering efficiency, providing a transportable product

PU or Stainless Steel wedge wire deck panels

High grade boiler steel side plates

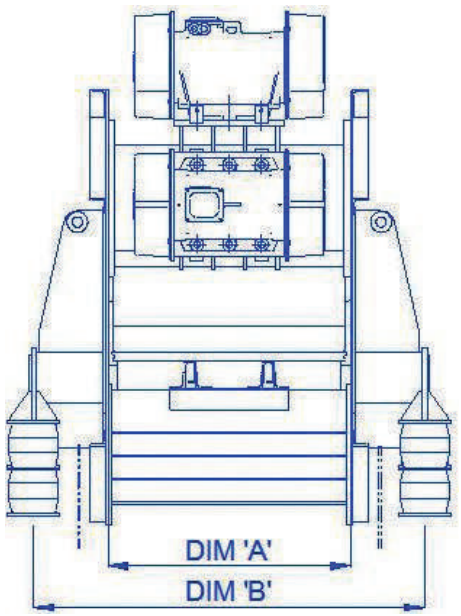
Frequency/Speed: 1000RPM or 1500RPM

Screen Size	DIM 'A'	DIM 'B'	Capacity TPH
VS 6/27.5	630	1200	63
VS 9/27.5	930	1500	93
VS 12/27.5	1230	1800	123
VS 15/27.5	1530	2100	153
VS 18/27.5	1830	2400	183

Screen Size	DIM 'A'	DIM 'B'	Capacity TPH
VS 9/30.5	930	1500	93
VS 12/30.5	1230	1800	123
VS 15/30.5	1530	2100	153
VS 18/30.5	1830	2400	183

Screen Size	DIM 'A'	DIM 'B'	Capacity TPH
VS 9/36.6	930	1500	93
VS 12/36.6	1230	1800	123
VS 15/36.6	1530	2100	153
VS 18/36.6	1830	2400	183

* Screen Capacity is based on 100 TPH /Mtr. Width, with a Deck Aperture of 1mm. Measurements in mm.



We can help you with your Screen selection...

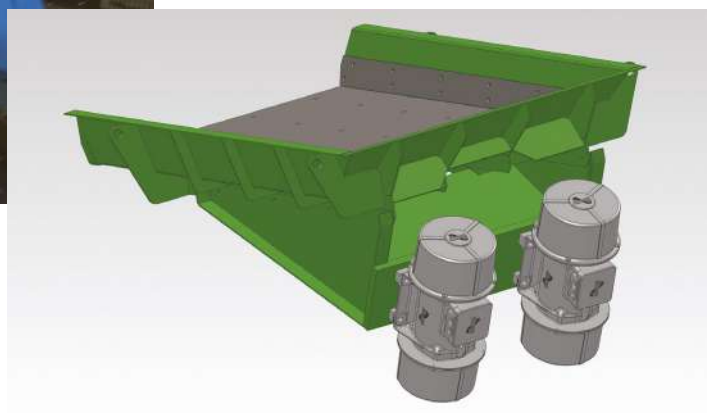
Our application engineers will be pleased to provide you with a specification for the best screen to meet your requirements. Simply provide us with the following basic information:-

- Type of material to be screened
- Dry TPH or M^3/Hr of Slurry
- Feed slurry RD or w/w solids
- Bulk density
- Size analysis of the feed stock

- A standard range or bespoke to suit customer requirements
- Size and duty as required
- Choice of protective and noise reducing liners
- Designed & built for continuous operation
- Capable of processing tens of millions of tons per annum on large machines
- Ultra durable to withstand the most demanding environments
- Ultra reliable, providing decades of operational peace of mind
- Excellent payback on investment

Vibrating Feeders

Coal | Aggregates | Ores | Recycling



Industial Vibrating Feeders

We build vibrating feeders to suit virtually any appropriate industrial application. Our machines are always designed and manufactured to exceed the demands which will be put on them either by the nature of the feedstock, the operation, the environment in which the machine will operate, or any of these factors combined. We only build machines which last.

Don Valley Engineering can supply a range of Vibrating Feeders, with capacities ranging from 100 tph to 2500 tph. Vibrating feeders can be used for transferring bulk materials from hoppers, bins, crushers, etc. in a variety of applications including chemical, mining, foundry, quarrying and iron and steel industries.

Features of Vibratory Feeders:

- Smooth vibration
- Long service life
- Low Power Consumption
- Simple Structure
- Simple Maintenance
- Reliable operation
- Low noise
- Easy to adjust
- Easy to install

High capacity feeders for controlling flow of bulk materials from storage piles, bunkers and bins rated at up to 2500 tons per hour. Due to the fact that the two vibrator motors rotate in opposite directions they create a mono directional vibrating motion which is transmitted directly to the trough at a carefully calculated working angle.

The electromechanical feeder comprises of :-

- A channel shaped carcass assembly fixed onto a support, designed to withstand the stress caused by the vibration motion.
- A suspension system.
- Two vibrator motors fixed to the chute, each with drive shafts that have adjustable unbalanced weights.
- Rotation speed 960 rpm or 1450 rpm
- Capacity to suit customer requirements.

Adjustment of the amplitude of the vibration is made by adjusting the unbalanced weights. The feeders require very little maintenance and are capable of operating under difficult or arduous environmental conditions.

Get your Vibrating Feeder designed by the experts...

Our application engineers will be pleased to provide you with a specification for the best vibrating feeder to meet your requirements. Simply provide us with the following basic information:-

- Type of material
- Size analysis of feed material
- Bulk density
- Feed rate (TPH)
- Moisture Content

DESIGNED AND BUILT IN THE UNITED KINGDOM

- A standard and bespoke designs
- Fixed or variable speed
- Optionally fitted with a Fines collection conveyor
- Size and duty as required
- Designed to take high impact loads and abrasive materials
- Positive or negative inclination

Apron Feeders

Coal | Coke | Stone | Iron Ore
Sand & Gravel | Scrap Metals

Volumetric Feeding from Bunkers, Bins and Stockpiles

Don Valley Apron Feeders are used for volumetric feeding of material from bunkers, bins or stockpiles. They can be either fixed or variable speed to suit the application.

The machines are designed to operate continuously in arduous conditions with high impact loads and coarse and abrasive materials.

As well as our standard Apron Feeder designs, 1000mm to 2500mm wide, Don Valley produce a range of bespoke design Apron Feeder's to suit special applications and installations. Don Valley Apron Feeders can be either positively or negatively inclined.

Our Apron Feeders consist of two-strand heavy duty chain fitted into cast steel pans. The chain is supported on standard chain carrying rollers and full face plain rollers on the feeders return side. The feeders are designed for continuous operation, with side frames fabricated in rolled steel sections, built to withstand high-impact loads.

Get your Apron Feeder designed by the experts...

Our application engineers will be pleased to provide you with a specification for the best Apron Feeder to meet your requirements. Simply provide us with the following basic information:-

- Type of material
- Size analysis of feed material
- Bulk density
- Feed rate (TPH)
- Moisture Content

- Bespoke design to suit customer requirements
- Size and duty as required
- Over 20 years operational life expectancy
- High quality components
- Electrical or optional hydraulic drive systems
- Full saftey guarding
- Optional rotation sensors and other safety/control devices

Belt Feeders

Coal | Aggregates | Ores | Recycling

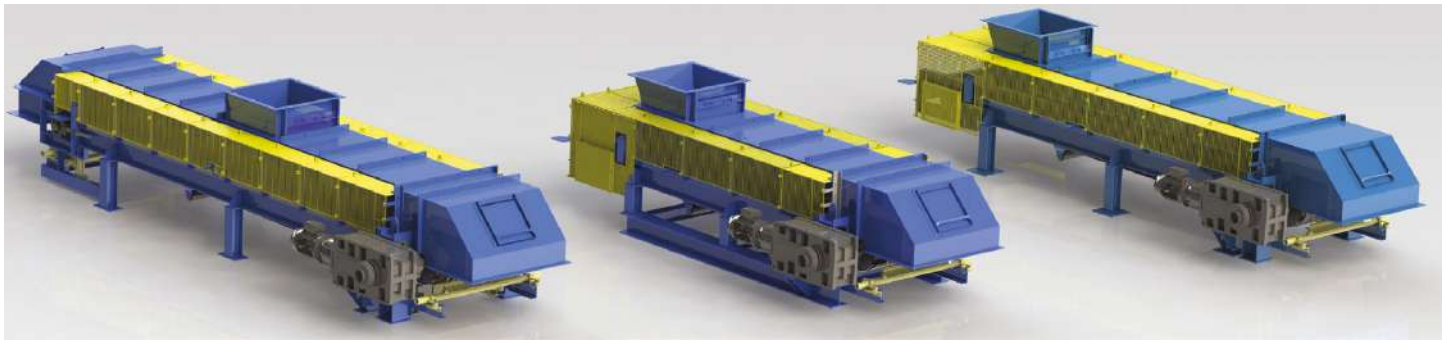
Industrial Belt Feeders

We build bespoke Belt Feeders to suit virtually any industrial application. Our machines are always designed and manufactured to exceed the demands which will be put on them either by the nature of the feedstock, the operation, the environment in which the machine will operate, or any of these factors combined. We only build machines which last.

The basis of the conveyor is that the drive frame and tail frame are standard units in a range of belt widths to suit the tonnage and material to be conveyed. The conveyor length is made by utilising standard stringer sections. The conveyor can be supplied with a range of covers to suit each customers individual requirements from full steel covers to netting covers to simple wind boards.

The steel covers can be either fixed or hinged; the netting wind covers are stretched over the frame and secured on the fixing bar. Wind boards can be any height or material and fixed in slots or with bolt fasteners. The conveyor is equipped with a belt cleaning system to suit the material being conveyed as we know different materials require different types of cleaner from tangential to secondary to brushes in materials from tungsten to polyurethane we use both our own and the customers experience to select the most effective solution for belt cleaning.

The conveyor is driven by a shaft mounted geared motor. The drive drum is rubber lagged to ensure a positive drive to the conveyor belt which ensures positive and consistent transfer of the product. The conveyor is capable of being used horizontally as well as with positive or negative inclines for transportation of materials. The range of products which can be conveyed range from seeds, grain, malt, sand, aggregates, powders and many similar products.



Get your Belt Feeder designed by the experts...

Our application engineers will be pleased to provide you with a specification for the best belt feeder to meet your requirements. Simply provide us with the following basic information:-

- Type of material
- Size analysis of feed material
- Bulk density
- Feed rate (TPH)
- Moisture Content

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Belt Conveyors

Quarrying | Mining | Recycling | Biomass | Grain Feeds
Power Stations | Materials Processing | Dock Side

If you are planning to buy belt conveyors, let us provide you with a quotation...

We can provide a wide range of modular and bespoke belt conveyor systems, to suit from light to very heavy duties and applications, and the range covers the requirements of virtually every industrial sector.

Our belt conveyors are noted for their robustness, reliability and high performance, and as a result of their proven performance they are installed in major quarries, mines and process plants around the world.

We can also provide the full Gantry and Trestle arrangements as required, and to add to our in-house capabilities we can install and commission everything for you.

- Modular and Bespoke systems
- Fixed or Mobile
- Full range of duties to suit all applications
- Wide choice of proprietary components
- Wide range of belt widths and types
- Choice of protective finishes
- Suitable for a very wide variety of products
- Choice of weather / protective covers
- Fully Enclosed Options
- Gantry and Trestles to suit
- Full installation available

Get your Belt Conveyors designed by the experts...

Our application engineers will be pleased to provide you with a specification for the best belt conveyors to meet your requirements.

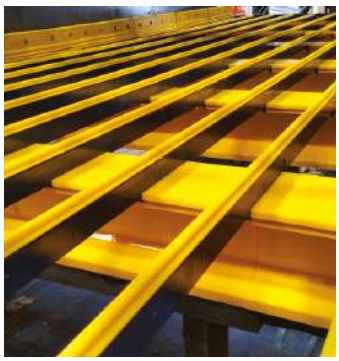
Specialists in Technological Problem Solving

We are specialists in heavy industry material handling - conveying, screening, cleaning, washing, dewatering, separation, drying and cooling. We assist in all processes from initial feasibility studies and front-end engineering, planning to the construction of plant infrastructure, mechanical installation and electrical installation.

Our material handling expertise is derived from years of working in the UK coal industry, from coal preparation, the design of complete plants (including washing and cleaning), to separating and screening. We now serve a wide host of industries, providing environmentally friendly energy production.

Our exploration and preparatory work in mines and quarries require outstanding technology and materials. Don Valley Engineering Ltd. Process Solutions are used where others fail, offering you high quality, reliable and affordable solutions

- Modular Coal Preparation Plants
- Screening and Separating Plants
- Bulk Handling, Storage and Conveying Systems
- Rail and Truck Unloading Systems
- Weighing Feeding and Dosing Systems for coal, iron ore, precious and base metals



Wear Protection

- Bonded rubber or bolted with steel backing
- Polyurethane cross member protection with magnetic fixing
- Polyurethane side wall protection
- Below deck and above deck protection
- Spray applied polyurethane / polyurea
- Hard faced wear liner plates

Rubber Buffer Mounts

- Robust and flexible screen support
- Promotes reliability and life time longevity, compared to coil springs
- Reduced vibration loadings
- Minimal dynamic vibration by the use of isolating frames

Cross Members

- Machine faced end plates on drive beams and cross members
- Glue sealed and permanent fixing
- Secure huck bolt fasteners used

Linear Action Excitor Drives

- Two sets of rotating segments on each side of gear box
- Four bearings and two gear synchronised shafts
- Oil lubrication system with gearbox breather
- Flange connected using cardan shafts
- Driven by a single static electric drive motor

Factory Testing

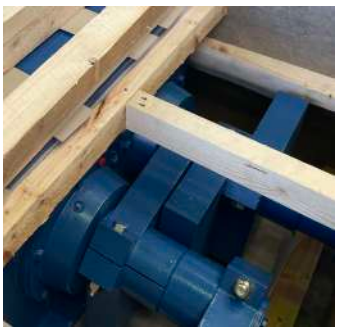
- All Excitors are fully inspected and individually tested
- Screens factory tested before dispatch
- Screens monitored and natural frequency test data recorded

Linear Action Out Of Balance Electric Drive Units

- Two out of balance electric motor drives
- Adjustable vibration amplitude
- DOL starting, self-synchronising
- Optional DC or reverse phase braking systems

Dedicated After Sales Service

- Dedicated After Sales Service team
- Fleet of Skilled Service Engineers
- Large selection of Spares carried
- Fully stocked service Vans
- Call out service
- Monthly and 3 Monthly service Plans
  - Minor "A" Service & Visual inspections
  - Major "B" Full service inc replacement parts



Excitor Service Exchange Scheme

- Reduces downtime
- Full range refurbished exciters carried
- Same day service
- Cost effectuve

Don Valley Engineering specialise in providing value added solutions associated with bulk handling of feeding, screening, dewatering, storage and conveying.

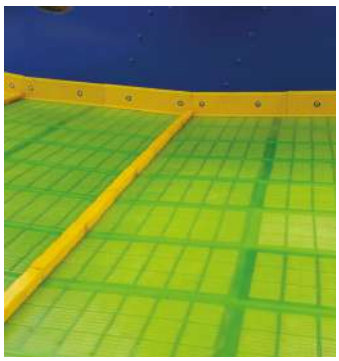
Designed to meet your application

High Quality, Cost Effective, Reliable Solutions

We offer a wide range of services from initial design concept, cutting edge fabrication to manufacture & assembly. We also provide factory acceptance testing and mechanical installation by our own in-house engineers, as well as commissioning and final handover.

Don Valley Engineering, Our Name is Your Guarantee

We Built our Reputation on Trust, Innovation & Reliability



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