

Image courtesy of Don Valley Engineering

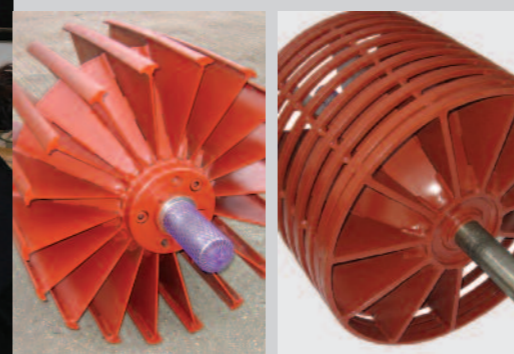
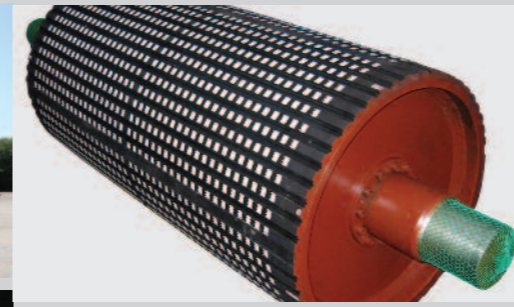
## Special Purpose Machinery and After Market Services to Industry

Quarrying, Recycling, Clay Preparation, Paper,  
Power Generation and other Key Industrial sectors



## Our Engineering Heritage

Hallamshire Engineering Services Limited is an internationally recognised engineering company having an engineering pedigree stretching back as far as 1720.



Hallamshire offers a diverse range of products and services, working mainly within, but not limited to, the quarrying, recycling, clay preparation, construction, paper and power generation industries. Operating to international standards, Hallamshire operates a policy of continuous improvement and development to enhance product quality and reduce production lead times.

The Company's main product lines include:-

- Bulk Material Handling Systems
- Conveyor Pulleys
- Clay Preparation Parts and Equipment
- Drilling Services and Products
- Hard Facing & Wear Control
- After Sales Service and Support

In 2009 Hallamshire Engineering Services (HES) became part of Group Rhodes, one of Europe's leading manufacturers of special purpose equipment for markets as diverse as aerospace, environmental and heavy ceramics. Being part of a larger group has enhanced the Company's technical skills and ensures that it continues to develop new solutions to meet customer needs.

Benefiting from the extensive design and production facility of its new parent company, (which includes a fabrication division) Hallamshire continues to operate from its existing Sheffield site with a compact management structure, thereby offering customers a flexible and rapid response to changing market conditions.

**Main (left):** CNC/ NC Machining Facility

**Top:** Hallamshire's 16000 Sq Feet Sheffield site includes design, machining, fabrication and assembly departments

**Bottom:** As a member of Group Rhodes, Hallamshire operate an approved apprentice programme, to ensure a high level of skills retention.

**Below:** All design work is undertaken in-house



**Main (right):** Hallamshire supply a full range of bespoke conveyor pulleys to suit customer applications

**Top:** Solid faced pulley with ceramic lagging

**Bottom (left):** Slatted pulley (vane type) with deflector plates

**Bottom (right):** Spiral design pulley with deflector plates

## Conveyor Pulleys

Bespoke conveyor pulley design and manufacture has been a major part of the business for over half a century, the Company is responsible for the development and introduction of the 'Spiral' conveyor pulley into the UK during the 1960's. Hallamshire is renowned for its supply of a full range of high quality products to OEM's and 'End Users' alike.

### Conveyor Pulleys - Solid (tubular) Design

Hallamshire is a major UK supplier of conventional conveyor pulleys and rollers. These can be manufactured to customer specification or alternatively Hallamshire will provide a suitable design for the application being considered. Our design department is always available to undertake full design calculations based on the provision of the conveyor design parameters by the customer. Pulleys are supplied with either a crowned or flat profile. Slight crowning during the final machining process aids belt tracking and over tensioning of the belt edges.

### Conveyor Pulleys - Spiral Design

Hallamshire is the original designer and manufacturer of the 'Whittington' Spiral Wound Conveyor Pulley. These pulleys have been developed for use in situations where the self-cleaning and self-tracking features of the opposing spirals are considered to be advantageous. As with conventional, tubular pulleys, spiral pulleys are supplied with either a crowned or flat profile.

In situations where conventional pulleys suffer due to a build-up of material between the belt and the pulley (leading to costly belt, bearing or other damage) the spiral pulley is the correct choice. The spirals scrape the material off the back of the belt and into the pulley cage area from where it is displaced to the outside of the pulley and out of harm's way. Extra deflector plates can also be fitted to ensure a more positive discharge if required.

### Conveyor Pulleys - Slatted Design

As an extension to our range of Spiral Wound Conveyor Pulleys Hallamshire has developed the Slatted Pulley for use in situations where there is a preference for a self-cleaning action but where the application is not conducive to the use of a Spiral pulley. As with conventional and spiral pulleys, the slatted design is supplied with either a crowned or flat profile.

The construction of slatted pulleys lends itself to the incorporation of optional deflector plates to ensure a more positive discharge if required. Well proven designs, materials and manufacturing processes are used to ensure durability and long service, and meet the needs of applications that dictate the use of stainless steel, or special paint finishes / coatings.

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## Bulk Material Handling Systems

Hallamshire utilises leading edge handling techniques and is able to design, manufacture and integrate additional equipment to deliver a cost effective solution.



Hallamshire has over 50 years experience in the design, manufacture, and installation of conveying equipment. It was formerly marketed under the 'Numecc' name which was renowned for its introduction of sidewall conveyors and elevators into the UK during the 1960's, producing its own bespoke design modular system.

The company has since developed its products for the bulk handling sector and supplies both conventional & sidewall Conveyors and Elevators, Belt or Chain Bucket Elevators and Screw Conveyors, either singularly or as a complete system. All equipment is designed to suit the application requirements and consultation with the customer plays an important part of the initial concept design process. Our history in the supply of this type of equipment has provided Hallamshire with a wealth of experience in most material characteristics and applications.

More recently the company has commenced the development of powered roller conveyors, chain conveyors and pallet dispensers for packaging lines and is keen to further develop this arm of the business to complement its bulk handling capabilities.

Customer Benefits of Choosing Hallamshire Engineering Services.

- Design, manufacture and installation are all undertaken by one company.
- Experienced in all forms of conveying equipment and therefore able to advise on system design.
- By offering both sidewall conveyors and elevators, materials can be transported between different levels and over horizontal distances without the need for troublesome transfer points.
- Totally enclosed casings are available for dust free environments.
- Cost effective and quality designed products.
- Engineering and Technical backup from the Hallamshire production and engineering team.

**Main (left):** Stockpile conveyor application  
**Top:** Sorting and packaging handling system  
**Bottom:** Weigh belt feeder  
**Below:** Bucket elevator drive section



**Main (right):** Turnkey brick setting line designed, manufactured, installed and commissioned by Hallamshire.  
**Top (left):** Mobile sand blast unit for brick texturing  
**Top (right):** Texturing roller for brick texturing line  
**Bottom:** Clayworking machinery spare parts

## Clay Preparation Parts and Equipment

Hallamshire offers both consumable and strategic wear parts for clay preparation machinery such as augers, scrapers and mixer grids.

As specialists within the clay working industry, Hallamshire is proud to be recognised as a major supplier in respect of spare parts, machines and handling solutions.

Excellent Group fabrication, machining and fitting facilities ensure its compliance with ISO 9001:2008 standards and reassure customers of our quality commitment and services to the industry.

Hallamshire carries extensive stocks for a wide variety of machines ranging from Box Feeders and Grinding Mills through to Mixers and Extruders manufactured by Handle, Craven Fawcett, Peterson, De Boer, Aberson etc. and many items are readily available for immediate delivery at competitive rates.

Examples of Consumable Spares:

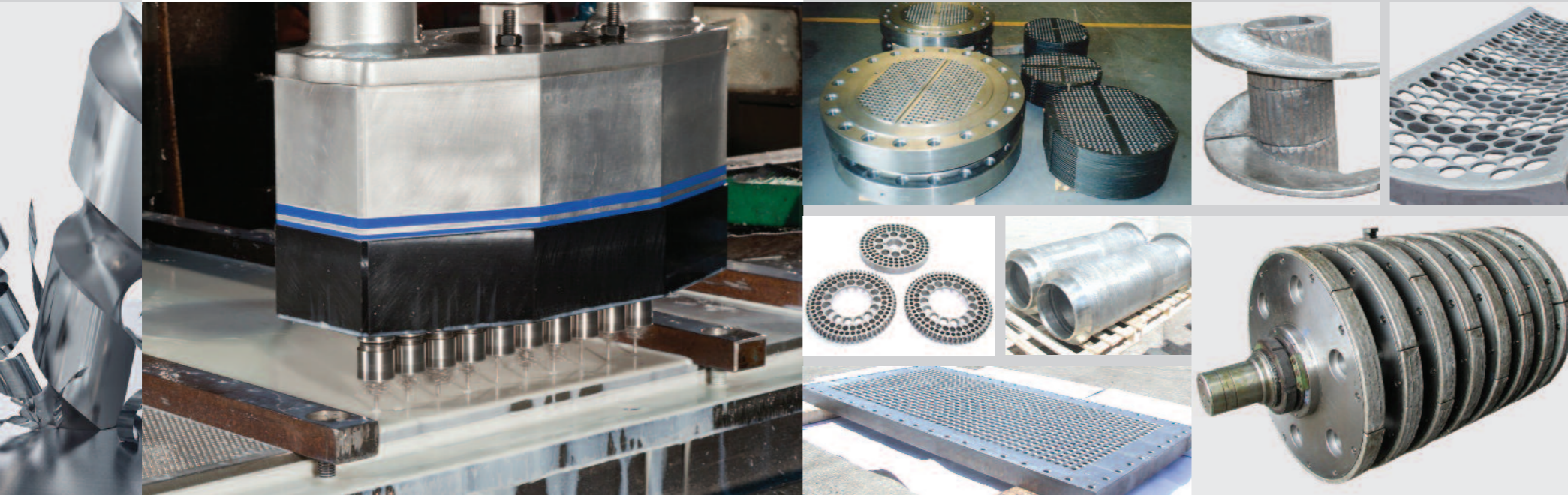
- Hammer Mill Rotors, Bodies, Tips & Liners
- 28% Extruder Augers, Sealing Cones & Others
- Box Feeder Slat Assemblies (Complete)
- Dry Pan Drilled Grids and Dead Plates
- Mixer Knives & Shanks (Hard Faced Option Available)
- Pan, High Speed & Smooth Roll Scrapers (Hard Faced Option Available)
- Wet Pan Slotted Grids & Dead Plates
- Incl. Spares Including Roller Hoops, Dead Plates & Scrapers

Examples of Other Products and Services on Offer:

- Production Line Machinery
- Special Projects
- Comprehensive hard facing service

## Drilling Services and Products

The company boasts a comprehensive NC / CNC drilling facility. Plates are drilled with multiple holes for such items as pulper plates, used in the paper and pulp industries, steam strainers for the power generation industry and tube and baffle plates for heat exchangers.



Hallamshire Engineering has an internationally recognised CNC & NC drilling facility at its Sheffield site offering a range of quality products. Alongside this product range, Hallamshire provides a sub-contract service for the production of drilled holes in plate, tube and other sections.

Over 60 years experience in this market provides great expertise in drilled perforation technology and our continual improvement programme ensures that the latest tooling and techniques are utilised in production. This in turn ensures that customers are provided with the best quality products at competitive prices.

Multi-Spindle Head technology has also been utilized by Hallamshire for many years in order to provide hole and pattern integrity throughout the drilled area, thus ensuring maximum plate stability.

Unlike holes produced by a punching operation, drilled holes can be provided with different cross-sections i.e. cylindrical, bi-cylindrical, conically tapered, countersunk, counterbored etc.

Main Market Sectors include:-

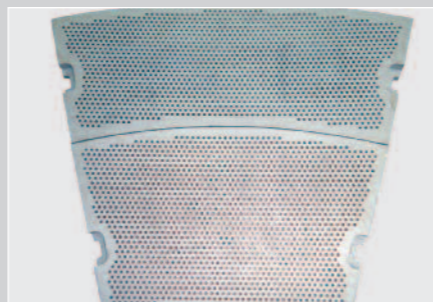
- Pulp & Paper Processing
- Power Generation Industry
- Heavy Clay Processing (Brick Manufacture)
- Chemical & Process Plant (Heat Exchangers Etc)

The above products are high precision drilled, and sometimes fabricated components. As they often perform a critical function within a larger system, they undergo rigorous quality inspection procedures throughout the production process.

Hallamshire aims to provide:-

- Accurate High Quality Product
- On Time Delivery
- Technical Backup
- Competitive Prices

- Main (left):** Multi-spindle drilling head
- Top:** Tube plates and baffles for a heat exchanger for the process plant industry
- Centre (left):** De-flaker disks for the paper industry
- Centre (right):** Strainer tubes
- Bottom:** Tube plates for the process industry
- Below:** Grids for dry grinding mill



## Hard Facing and Wear Control

Hallamshire offers a unique range of products and services for the surface treatment of components that are subject to arduous wear conditions. The process we offer improves product life expectancy and reliability.



- Main (right):** Hardfacing application
- Top (left):** Auger hard faced with TENROCK™
- Top (right):** Screen coated with TENROCK™
- Bottom:** Hammer mill rotor with tips hardfaced with TENROCK™

Hallamshire has over 50 years experience of product and process development in the field of hardfacing and wear control, and offers a unique range of products and services for the surface treatment of components subject to arduous wear conditions. The TENROCK™ product range of hardfacing products offers economic surface enhancement solutions and improved product life expectancy.

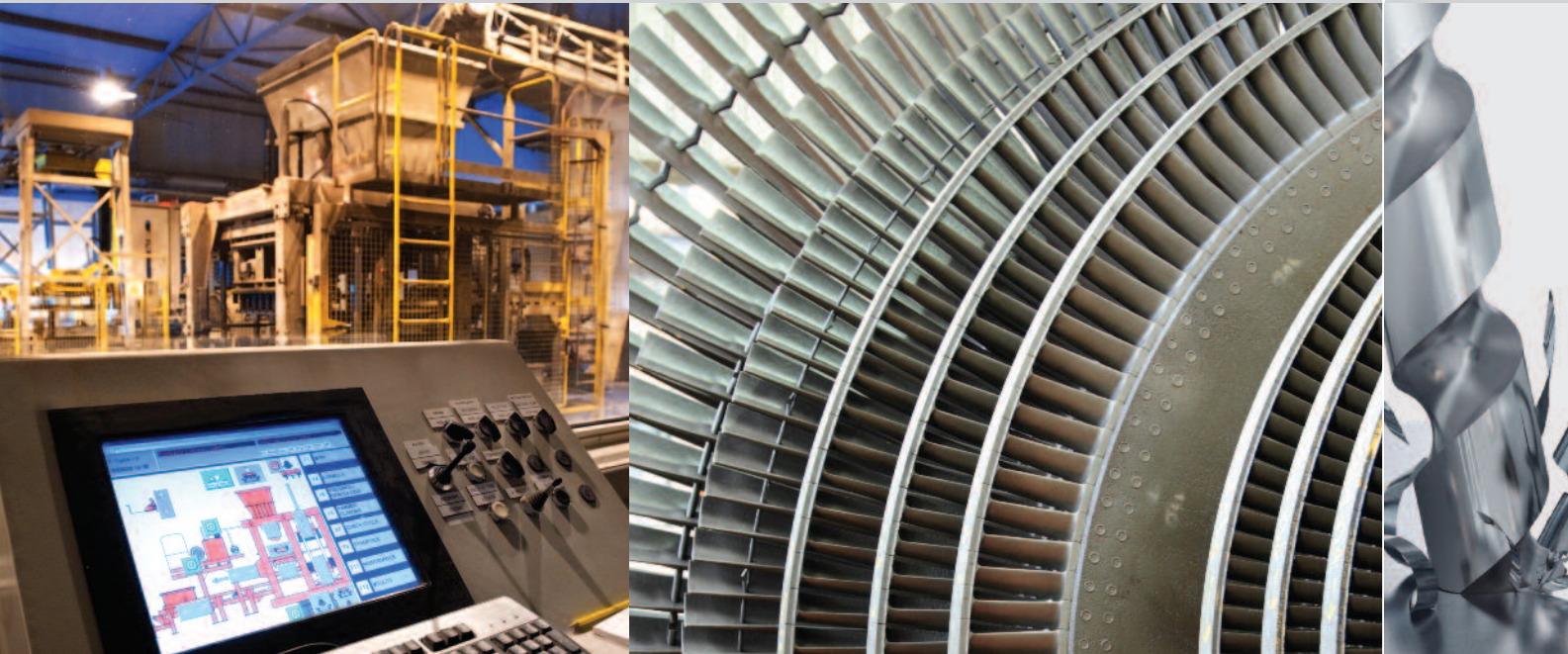
As a major supplier in to the heavy clay (brick), concrete and paper industries, all of which incorporate processes that create wear problems, many component enhancements and application improvements have been fully tried and tested.

Hallamshire Engineering is the sole provider of TENROCK™ hardfaced components and is the UK distributor of MADUR hardfacing materials including:-

- 'Spray Base Powders' with a hardness scale of 20 – 60 Hrc.
- 'Flexible Cord Electrode'
- TENROCK™ 2000 – Cord containing cast tungsten carbide : Good for wear resistance.
- TENROCK™ 3000 – Cord containing spherical tungsten carbide : Increased shock / impact resistance.

### After Sales Service

Offering a comprehensive after sales service, Hallamshire employ a team of highly qualified and experienced engineers. As part of our customer service support we also offer comprehensive maintenance cover to suit your particular needs.



**Left:** Brick Manufacturing Facility  
**Centre:** Power Generation



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