



The UK's leading industrial chimney specialist





**> IN THE
BEGINNING 1949**



Following his exploits as a paratrooper in World War II (see above photograph), the company's founder, the late Sam Rafferty, wanted a career that demanded the skills of a special type of workman. The qualities of such a man would require a skilled craftsman with the ability and courage to work high above the ground in a demanding environment. With this brief, Sam Rafferty established the Rafferty Steeplejacks Company in 1949, which then became a limited company in 1954 forming the foundation for today.

Since its formation, Rafferty's have continued to invest in growth and diversification with uncompromising standards to their inspection and maintenance services, to building its engineering base to research and develop acknowledge market leading technologies.



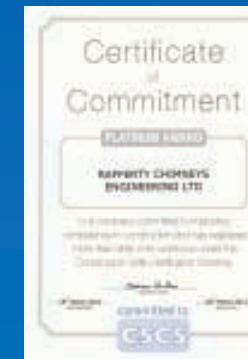
Today with decades of experience behind them, Rafferty's operate throughout the U.K, EUROPE and the WORLD as the U.K's leading specialist in all aspects of industrial chimney engineering from inspection, maintenance and demolition to design, manufacture and installation of new steel chimneys.

The picture above left shows Sam Rafferty (front row right lying down), with Paratroopers of 5 Platoon, B Company just prior to the Airborne drop over the Rhine into Germany, Operation Varsity 1945.

The picture above right shows Sam Rafferty and his five younger brothers Harry, John, Kenny, Ronny and Joe at work in the early 1950's.



> HEALTH & SAFETY




Health & Safety is paramount on every job undertaken by the company with strong emphasis on pre-planning and management consultation to define and highlight potential hazards and risk related activities. Controlling methods and countermeasures are implemented to reduce and eliminate hazards and risks which ensure safe working practices throughout each stage of every contract, to fully comply with all aspects of the Health & Safety at Work Act.

Detailed site specific method statements and risk assessments are produced to our clients on every contract undertaken. Regardless of whether the job is large or small our attention to detail is never compromised.

It is the policy of the Company to make Health & Safety its top priority in all its work activities. The Directors of the Company regard the promotion of Health & Safety procedures as foremost in the Company's function at any level.

The management regularly attend safety requirement seminars and all our on-site workforce are C.I.T.B./CSCS & CCNSG (Scats) Registered and continually receive on-going Health & Safety awareness instruction. Members of Rafferty's management team are also SMSTS qualified.

The modern steeplejack is fully equipped to meet Health & Safety requirements with the use of a full body safety harness and fall arrest system, see the photograph opposite.



> INSPECTION & MAINTENANCE

INSPECTION & MAINTENANCE

Chimney inspection and maintenance have for years been prime elements to the core business of Rafferty's, with our chimney inspection and maintenance service covering all types of chimney structures.

Adopting the philosophy of prevention being better than cure, Rafferty's inspection and maintenance service first applies sophisticated technical skills and visual evidencing techniques to assess the condition of any chimney whether brick, steel or concrete, irrespective of processing function.

As part of this chimney inspection and maintenance service, Rafferty's also supply crucial servicing to lightning protection systems fitted to all types of industrial chimneys. As part of our routine chimney inspection, Lightning Protection Systems fitted to chimneys are inspected and tested for earth resistance and continuity to ensure that they meet the requirements of the relevant standards.



STEEL CHIMNEYS

Steel chimneys of today generally have a 10-20 year design life. By analysing inspection information Rafferty's can provide, via its Computer Aided Design facility, a service which actually determines the remaining life of any particular chimney – essential when the condition of a steel chimney is estimated to have reached a critical stage.

- Inspected to BS4076, CICIND Model Codes, HSE GS53 and ATLAS Guidelines
- Laddered visual inspection with written report and recommendations
- Non-destructive ultrasonic testing technique to determine level of corrosion
- Photographic surveys
- Video film inspection
- Lightning conductors: installed, modified and tested to BS EN 62305:2006 protection against lightning
- Internal surveys of refractory brick/gunite, steel and rubber linings
- External repairs involving painting, aluminium cladding repairs, welding stiffening and over plating

BRICK CHIMNEYS

- Laddered visual inspection with written report and recommendations
- Photographic surveys
- Lightning conductors: installed, modified and tested to BS EN 62305:2006 protection against lightning
- Video film inspection
- External brickwork inspected for fractures, perished joints, bedlifts and loose brickwork
- Internal surveys of refractory brick/gunite, steel linings, using ultrasonic testing technique to determine level of corrosion on steel liners
- Brickwork repairs, pointing, partial demolition and rebuilding, external banding to prevent movement

CONCRETE CHIMNEYS

- Laddered visual inspection with written report and recommendations
- Photographic surveys
- Video film inspection
- Concrete core test samples to determine compressive strengths, carbonation and sulphates
- Cover meter checks to locate depth of reinforcing and sizes
- Boroscope surveys to determine thickness of concrete, internal fracture, laminations
- Schmidt hammer testing
- Lightning conductors: installed, modified and tested to BS EN 62305:2006 protection against lightning
- Internal surveys of refractory brick/gunite, steel linings, using ultrasonic testing technique to determine level of corrosion on steel liners
- Concrete repairs using non shrinkable cementitious materials or epoxy resin based materials. Fractures either polysulphide sealed or resin injected. Painting using masonry or chlorinated rubber coatings

INTERNAL LININGS

- Inspection of Internal Linings
- Refractory Brick Linings Repaired and Rebuilt
- Refractory Gunite Linings Repaired and Renewed
- Steel Linings Repaired, Renewed and Installed

> DEMOLITION

DEMOLITION & DISMANTLING

In addition to chimney inspection and maintenance operations, Rafferty's also remain one of the country's leading companies able to address and overcome the difficulties involved in major demolition and dismantling contracts, particularly within sensitive densely populated and 'live' situations. To see Rafferty's in action demolishing two concrete chimneys please visit our website www.rafferty-steepjacks.com and select 'Demolition'



Brick Chimneys Demolished



Concrete Chimneys Demolished



Steel Chimneys Dismantled

> ON-SITE INSTALLATION

STEEL CHIMNEY INSTALLATION

Our fully trained and specialised labour ensures the precise and safe installation of Rafferty's new steel chimneys.

- Single Flue Steel Chimneys Installed
- Double Skinned Steel Chimneys Installed
- Multi Flue Steel Chimneys Installed
- Guniting Refractory Linings Installed
- Access Ladders, Sample Platforms & Support Steelwork Installed





> STEEL CHIMNEY DESIGN & MANUFACTURE

DESIGN

The complexity of chimney design and manufacture today takes the industry beyond tradition by demanding an informed combination of technology and science. When applied to the ever increasing stringency of environmental influence and legislation this, to a greater extent, governs the parameters of performance.

Computer Aided Design procedures to BS4076 and CICIND Model Codes are applied to the development of all chimney types including: self supporting, guy supported, single flue, multiflue, insulated and clad, twin skin, refractory lined, lattice tower and flues, new flues to existing chimneys and advice on chimney height requirements.

A full drafting service utilising Autocad techniques provide general arrangement and detail drawings supplied either as prints or on disk. On contract completion, Rafferty's further provide full documentation for future reference including: design calculations, as-built drawings, material test certificates, copies of inspection/Q.A Sheets, weld tests (where applicable), and C.O.S.H details.

MANUFACTURE

Each new installation must comply with not only basic standards of operational safety and efficiency, but also conform to current and projected regulations for factory pollution, clean air acts and the control of energy consumption - the latter now being of huge financial and social consideration.

There are, in short, many more crucial areas of specification that existed when the Company commenced trading. Rafferty's have evolved at a pace to constantly maintain a vanguard position ahead of requirements, ahead of its competitors.

Chimneys built to design:

- Self supporting
- Guy supporting
- Single flue
- Multi flue
- Insulated and clad
- Twin skin
- Refractory lined
- Lattice tower
- Anti vibration dampers
- Access ladders
- Sample platform
- Flues from chimney to plant
- Plate rolling in various diameters up to 20mm thick
- CO², Mig and submersed Arc welding

All types of

- Insulation and cladding, sheet metalwork
- Bends
- Breaches piece
- Dampers
- Expansion joints etc.

N.D.T. Weld

- Dye penetration
- Magnetic particle
- Ultrasonic
- Radiography

GENERAL FABRICATION

We have the facilities to produce all types of high quality fabrications to customer requirements. 15,000 Sq ft of workshop housing 4 No. 5 ton overhead cranes, heavy duty rolls, guillotines and welding machinery compliment our highly skilled workforce to achieve quality fabrications in both ferrous or nonferrous materials.

Chimney design and manufacture remains our core business and with the aid of new technology we are able to receive all types of new subcontract fabrications from wide ranging industries.

We also offer in house design to support customer requirements over a varying catalogue of products:

- Access Platforms
- Fire Escapes
- Walkways
- Tanks
- Support Steelwork
- Afterburner Exhausts
- Kiln Fabrications
- Boiler Exhaust Ducts
- Pressure Vessels

Installation is also offered to give our clients full turn-key options if required.



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