
FLOUCH
Engineering Company Limited



Flouch are a leading manufacturer of refractory anchorage systems. With over **50 years' experience** and expertise in a variety of industries, we offer a wide range of products which we supply to customers around the world.

We have been manufacturing refractory anchors since we were established in 1960, although our multi-generation, family-run business actually started out supplying metal clads for refractory blocks.

As applications changed, we were asked by our clients to begin manufacturing refractory anchors for monolithic linings. In the early days these were made using power press and guillotines. However, as clients began requesting larger volumes and faster deliveries, we were quick to move with the times and we now use a range of CNC robot machines in our manufacturing process.

At Flouch, different generations work together to create a unique approach which combines decades of experience with a fresh, modern outlook.

In an ever-changing industry, we are always looking for new ways to meet our customers' requirements. Our commitment to innovation is what keeps us at the forefront of our ever-changing industry.

What we do

At Flouch, we offer more than just the refractory anchors themselves.

The refractory anchorage industry is dependent on a number of other services to enable the whole process to flow effectively and efficiently. We offer the full package of services to our customers.



Positive Material Identification (PMI)

Using the right metal or alloy can mean the difference between a safe, efficient operation and one that is not fit for purpose. But how do you know if the material you're using is up to the job at hand? PMI is the term used for the testing of materials to determine their chemical composition. This enables all parties to understand what metal or alloy is being used.



Stud welding

Stud welding is a similar technique to flash welding. It is a fast, reliable, and accurate method of welding, which involves welding a fastener or specially formed nut onto another metal part. Access is only required from one side, eliminating reverse marking, and leaving the area around the stud flat and clean. In addition, as no holes are punched in the metal plate, corrosion problems are reduced, and the weld is leak proof.



Solution annealing

Solution annealing is a process in which the material is heated, followed by fast cooling or quenching. This allows the material to soften and/or optimise corrosion resistance. We can offer solution annealing as part of our service.



Dipping

Dipping is an in-house solution coating system to help with expansion on both round and flat type anchors. Dipping is used to prevent cracking in the refractory. The plastic caps allow for expansion to reduce the chances of cracking.

Need more information?

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Industries

Since we were first established in 1960, our company has evolved to supply a range of industries. Alongside our CNC machining capabilities, we also fabricate in-house, which allows us to adapt to the needs of different customers and industries.

As times change, we know that new industries will emerge, and at Flouch, we are already planning ahead to ensure we can cater for the needs of these industries.

Cement

The cement industry is the backbone of sustainable development. At Flouch, we are a major supplier to cement plants both in the UK and abroad. Our CNC machining capabilities enable us to offer the high-quality products they need - with quick lead times.



Aluminium

Closely related to the steel industry is the aluminium industry. Aluminium is the most important non-ferrous metal used in building construction. Flouch supplies stainless steel anchors which are used to retain and support heat-resistant refractory lining in aluminium smelting and holding furnaces.



Petrochemical

The petrochemical industry converts raw materials from oil refining and gas processing into a wide range of products. These include plastics, synthetic fibres, fertilisers, adhesives, dyes, detergents, and synthetic paints and coatings. Due to the fast-moving and competitive nature of the petrochemical industry, products need to be manufactured to the finest margins. We produce consistently high quality, cost-effective products, time after time.



Steel

The steel industry is critical to the global economy, being the material of choice for so many elements of manufacturing, construction, transportation and consumer products. Traditionally valued for its strength, steel has also become the most recycled material on earth. Flouch is situated in the heart of the UK steel making industry, and we're proud of our long history of supplying to it.



Power

The biomass industry uses raw material such as wood pellets and chips, bioenergy crops and even domestic waste to produce energy. As demand for greener energy increases, the biomass industry is set to grow exponentially. At Flouch, we've adapted and developed our services and we're already in a position to support that growth.





Technology

Using the latest technology, Flouch manufactures refractory anchorage systems for customers around the world, working in a variety of industries including cement, aluminium, petrochemical, biomass and steel.

Our state-of-the-art CNC robot machinery is operated by experienced and highly-skilled staff, ensuring that we manufacture the highest quality products - every time.

Our use of technology gives us the flexibility to offer faster production and shorter lead times, so we can adapt and react to individual customer needs.

Our enhanced quality management processes have been in place for many years, and we're constantly reviewing and fine-tuning them to ensure we incorporate the latest advice and best practice.

Our products undergo several checks at different stages of the manufacturing process, to ensure our consistently high standards are maintained.



These materials can be offered in a range of diameters from **3mm to 25mm**, and if you require different diameters we can supply these on request.

Materials

At Flouch, we offer our products in a wide range of materials to meet the demands and requirements of our customers.

We keep large amounts of stock including materials such as Carbon Steel (ST37), AISI 304 (1.4301), AISI 304H (1.4948), AISI 309 (1.4828), AISI 310 (1.4845), 253 MA (1.4835), AISI 316 (1.4401), INCONEL 601 (2.4851) and 800H (1.4876). We can also supply different alloys on request.



1.4845 is one of the most widely used grades of heat-resistant stainless steels supplied into numerous industries.



1.4301 is a general-purpose stainless steel, called 18-8-steel, with good corrosion resistance, impact strength and formability.



1.4835 is an austenitic, high-temperature stainless steel with good resistance to oxidation.



2.4851 is used for applications that require extremely high resistance to heat, and very high resistance to oxidation and corrosion at higher temperatures.

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