



# company

## Tour of Metalwork

Take a tour of our factory

Savekers Ltd holds a unique position in UK metalwork manufacturing - we handle and undertake every stage of production and finishing at our 60,000 square foot head office and manufacturing site on Aldridge Road in Birmingham. And whilst our range of standard metalwork items extends to over 700, we are constantly evolving our bespoke design and manufacture service for customers as part of our overall strategy to provide total solutions to our customers' needs.

Nevertheless, the manufacturing resource and capabilities of our founding company T Saveker Limited, lies at the heart of our activities and are the foundation for our growth into bespoke joinery, overall business support and corporate wear solutions.

A brief tour of our 45,000 square foot metalwork manufacturing facility will doubtless illustrate this breadth of expertise and introduce you to some of the skills and production facilities that are at our fingertips so that we can control production of customers' items at each and every step of the production journey.

### Water Jet Cutting

Water jet cutting uses a high pressure jet of water that can cut sheet metal up to 25mm thick. With water pressure of 45,000 psi combined with the effect of fine aggregate, even intricate shapes can be cut accurately and easily. Brass, stainless steel, aluminium or mild steel can be cut without incurring the expense of tooling costs, whilst the quality of cutting is such that only minimal polishing is required. This ensures the accuracy of the finished product.

The machine is computer controlled and can be set up to produce new items with only a modest initial programming charge.

Ideal for brackets, support legs and pad handles, the water jet cutter is often used for the manufacture of bespoke items.

### CNC Machining

CNC Machining is handled by our three CNC lathes, which are used to turn items from solid metal bar. Working with brass, stainless steel or mild steel, the machines can accept bar from 10mm to 65mm diameter. Up to 12 operations, including drilling, tapping, turning and milling, can be performed on each item to produce decorative turned products. Each of the machines is computer controlled and can be set up to produce new items with only a modest initial charge. Automatic feeding of the bar from a loader attached to the machines allows for maximum speed and efficiency when turning. And the quality of our turning is such that only minimal polishing is required, ensuring the accuracy of the finished product.

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## NC Bender

One of the latest machines to be added to our factory is the NC bender. Computer controlled, this machine can be programmed to produce accurate bends up to 180 degrees in 25mm and 51mm diameter tube. Suitable for brass, mild steel or stainless tube, this machine can rotate the tube up to 180 degrees to produce 'S' bends or double ramp bends.

In addition, ring rolling is also undertaken to produce large radius bends such as those used for foot and handrails. Ring rolling is available for 6mm rod, 12.7mm tube, all sizes from 19mm to 63mm tube, and assorted liner sizes.

## Welding

Our welding department undertakes a variety of welding processes to suit various materials and products.

Mig welding is used for steel material where strength of the finished item is of paramount importance. Tig welding gives a neat finish and is used for visible areas on mild steel, stainless steel, brass and aluminium. Gas brazing gives a neat join to brass material. And gas silver solder is used for small components where the weld needs to be delicate and precise such as for locks or for welding brass to steel.

## Mirror & Satin Polishing

Mirror or satin polishing is undertaken entirely in house at our extensive production site. This ensures we can provide customers with a high quality finish, either ready to use or ready for plating. Brass, stainless steel, mild steel and aluminium products can be finished in either mirror polished or satin finishes.

The first process involves finishing or banding the items to take out any roughness or impurity from the metal. Next, mopping is undertaken to remove band marks left from the finishing process. Finally the item is colour mopped to give a perfect finish to the final product.

The polishing process uses a variety of machines depending on the size and shape of the product. Hand polishing is undertaken for products unsuitable for machine finishing.

## Plating & Anodising

Our in house plating and anodising plant makes available a wide variety of finishes to suit customer requirements. Polished brass or steel material can be nickel or chrome plated. Polished brass or steel can be lacquered to offer light protection to the finished product. Aluminium can be anodised or etched and anodised to give a satin finish in a choice of silver, gold, black or bronze.

The chrome plating process requires the product to undergo a three part cleaning process, nickel plating and finally chrome plating. The chrome used is environmentally friendly trivalent chrome. The process does not involve heavy metals and is safe both for production staff and the environment. This electroplating plant was commissioned in 2002 and reinforces Savekers' unique position in the UK, giving us the capacity, production capability and skills to manufacture and finish products entirely in house and on one site.

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## Other Processes

Other processes include fabrication by our skilled metalworkers, which is ideal for specially manufactured items such as barriers, rails and handles. Our cutting department utilises a variety of automatic, semi automatic and manual saws to cut materials to length prior to further manufacturing process being carried out. Milling, drilling, pressing and flow drilling (which gives a stronger finished fixing) are all undertaken on site. Our dedicated assembly team ensures that goods are assembled, inspected and prepared for despatch, together with the appropriate paperwork.

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