

STAINLESS RESTORATION LTD



SURFACE FINISHING TECHNOLOGY

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STAINLESS RESTORATION LTD

THE COMPANY

FROM THE BEGINNING...



Stainless Restoration Limited started its journey way back in 1994 when the Managing Director, Mr Frank Morris, held the position of Technical/Sales representative with Avesta Sheffield Distribution Ltd (ASDL), later to become known as Outokumpu Stainless.

During his time at ASDL Frank was charged with promoting the welding consumables and also the "post welding cleaning" products which included pickling paste, spray gels, cleaners etc. It was during this time with the industry experts in stainless steel that Frank honed his already core knowledge of welding stainless steels and duplex with further deeper knowledge of stainless and more importantly the cleaning and preparation of the HAZ prior to service.

Working alongside some of the industry's best and most knowledgeable leading lights in "all things stainless" such as Dr Chris (Duplex) Baxter helped Frank improve his working knowledge.

Another individual who has helped Frank become the business man he is today was his former boss at ASDL, Mr Jim Wheatley, who showed him how to be present with customers and how to deal with the customers and their needs. Some of the values which Frank uses today in his business and personal life have been influenced by Jim.

Forgiveness, tolerance and a sense of fairness was what was learnt during his time at ADSL under Jim Wheatley, this of course has to be balanced with the success of the company and the need to develop the right culture within the business.

It was when Frank left ADSL that he asked his old boss Jim if he could continue to market the Stainless Steel Chemical pickling products; his boss agreed and the early days of SRL were born. During this time SRL was intent on just selling chemicals to distributors and end-users alike, however it soon became clear that end-users didn't like the idea of handling, storing and using these chemicals and would often ask Frank if he could undertake the practical work of conducting the cleaning operation along with the sale of the chemicals.

Frank obliged and this was the start of the on-site mobile pickling department which soon took-off.

From these early beginnings in the 90's SRL has managed to continue to grow over the last decade into one of the leading "metal finishing" companies in the UK specialising a wide range of metal finishing processes from;

pickling - passivation - electropolishing - mechanical polishing - glass beadblasting - shotblasting and industrial painting - plastic fabrication - consultation services - chemical sales

over the course of this journey SRL has seen many of its suppliers and employees fall by the wayside for a variety of reasons least of all that SRL has continued to have a fix goal which is to be professional, the best and most focused "metal finishing" company in the country. This aim is not without its casualties or indeed rewards. SRL in its strive to gather a high standard of work force and suppliers to help support its needs has had to let go of those individuals and suppliers that either don't share the same aspirations to grow stronger and better or they are unable to provide products and services that we demand of our suppliers going forward.

It has taken a long time for Frank to find the right team of managers that could embrace the companies ethos and instil the right culture needed to impress upon our customers that our business is serious, we take every customer serious and if the customer(s) wish to commit to SRL we will show 100% commitment in return.

2015 will see the addition of yet another team member Alan Dobson who will help develop and materialise a long term goal of SRL to secure the ISO 9001 accreditation certificate which is the accumulation of many years of work to get the proper management systems in place.

Another important development has also been the introduction of the new bespoke "global" software system named "Prometheus" after the Greek deity who gave man fire, with which man went on to flourish the Earth.

It is important that we mention the team of managers that are helping to keep SRL at the forefront of the countries metal finishing industry.

General Manager: Rob Wilson, Production Manager: John Glynn, Health & Safety managers: Rob Wilson, QA manager: Alan Dobson,

Environmental: Darren Edwards, Sales manager: Frank Morris, Accounts: - Louise Dunworth

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PICKLING AND PASSIVATION

IN-HOUSE CONTRACT

Over 50,000sq/ft of floor space and a combined lifting capacity of 120,000kg over 9 overhead cranes. This allows SRL to undertake a vast array of work at its Manchester finishing shops

This can range from a large "one-off" fabrication or high volume items that can be immersed in one of several chemical pickling baths. Any items too large or complicated to be immersion pickled can be spray pickled with our Enerjex TM to achieve an equally successful finish.

Typical items for contract pickling may include:

Pressure vessels
Walk ways and handrailing
Cylinders

Pipe work
Heat exchangers
Tanks

A documentation pack is available on request for all in-house contract pickling services.
Example of pickling



BEFORE PICKLING

AFTER PICKLING



Heat treated 316L clad vessel internal BEFORE pickling



Heat treated 316L clad vessel internal AFTER pickling



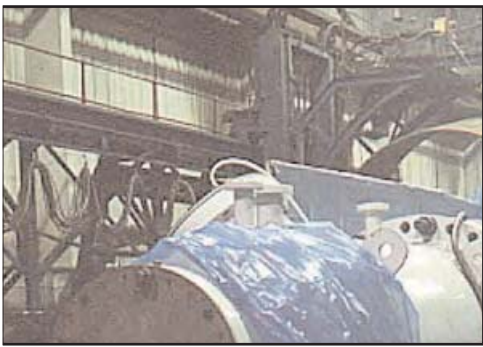
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STAINLESS RESTORATION LTD

PICKLING AND PASSIVATION

ON-SITE CONTRACT SERVICES



“If the mountain won’t come to Mohammed”...

Stainless Restoration Ltd are often asked to visit a the customers site in order to conduct a pickling & passivation operation on all types of fabrications or systems.

Reasons for a site visit are usually because the item is either too large to ship or the item can’t be moved from site owing to its fixed position within a building or plant etc.

This is no problem... SRL are more than accustomed to conducting on-site contract pickling and passivation services.

SRL are able to carry out both internal and external pickling of vessels, hoppers and tanks, either by spray ball, circulation or manual spray gel pickling methods. Closed-loop circulation of pipe work and sytems is also undertaken on site to degrease, pickle and passivate internal pipes / tube spools.

A full documentation pack is offered prior to the start of a site contract comprising:

Method statement
Training certificates
Risk assessment
Insurance certificate

MSD sheets Procedure
(confined space etc)
COSHH date
Insurance certificates

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STAINLESS RESTORATION LTD

ELECTROPOLISHING

Stainless Restoration Ltd offer an electropolishing service to the UK stainless steel fabrication / manufacturing industries.

The electropolishing work undertaken cuts across all market sectors; from small casting and component manufacturers to fabrications for the food industry to more sophisticated items such as vessels for the pharmaceutical sector.

Electropolishing's Key Advantages are:

Bright and aesthetically pleasing finish

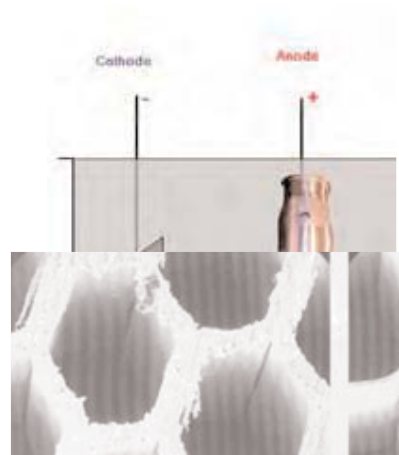
Chemically passive surface

Surface roughness reduced - smoother 'micro' surface with fewer cracks and less surface area

Corrosion resistance maximized by enrichment of the chromium oxide layer

Reduced bacterial growth and easier cleaning due to less build up of product on the surface of the material.

A documentation pack is available on request for all in-house contract electropolishing services.



Micro view of surface BEFORE and AFTER electro-polishing



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STAINLESS RESTORATION LTD

PHARMACEUTICAL

“DEEP CLEANING” (SWAB CLEANING)

The pharmaceutical industry has exacting standards when it comes to cleanliness and Stainless Restoration Ltd are well accustomed with these standards.

Indeed, SRL have helped some of the major pharmaceutical companies and their contractors to design and establish suitable cleaning procedures.

SRL offer a "deep cleaning", or SWAB cleaning procedure, to the pharmaceutical industry. This procedure is particularly important following the installation or commissioning of new equipment or plant that has undergone a mechanical polishing operation to achieve a desirable Ra um finish.

The newly polished surface will often contain deep, ground in dirt, fat or mineral oils that are difficult to remove with the CIP systems found in plant and equipment. The CIP systems are not designed for "deep cleaning" but for removing light, superficial product lightly clinging to the surface.

A full documentation pack is available on request.



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STAINLESS RESTORATION LTD

PLASTIC FABRICATION

NEW or REFURBISHED PLANT AND EQUIPMENT

If you have a requirement for PLANT and EQUIPMENT for a surface finish operation, Stainless Restoration Ltd are able to offer both NEW and REFURBISHED options.

Within this capacity, SRL can design, build, install and commission plant small or large together with all the associated requirements to supply a full turnkey solution.

Services include:

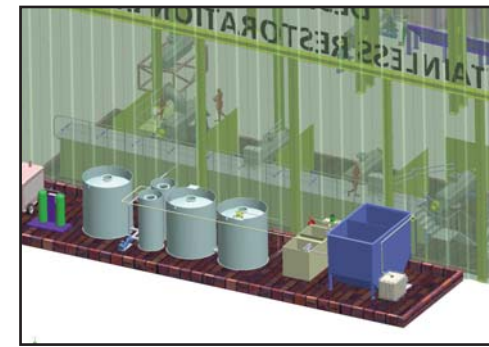
- Design
- Manufacture
- Commissioning
- Chemical supply

With the help of the latest 3D software Solidworks SRL are able to provide detailed CAD drawing 3D modeled to help the client appreciate the lay-out and design of the proposed plant or equipment and also view what their future investment will look like.

SRL supply a range of analytical equipment and services for monitoring the changes in chemistry of your surface treatment processes and also equipment for the analysis and monitoring of your waste products prior to discharge to drain, helping you as a company keep on the right side of the regulations.

Equipment offered covers all aspects of ANALYSING, FILTERING and NEUTRALISATION of chemicals.

Contact the sales desk for further details.



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STAINLESS RESTORATION LTD

ENERJEX™ CHEMICAL SALES

ENERJEX SURFACE FINISHING PRODUCTS

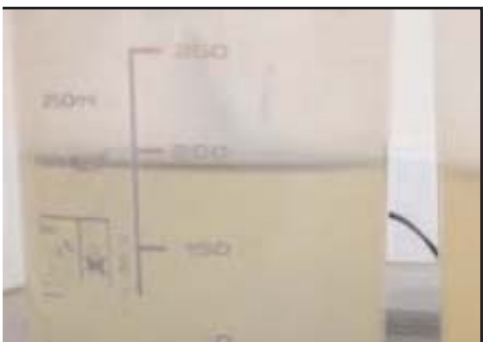
Stainless Restoration Ltd are the UK Manufacturer & distributor for Enerjex finishing chemicals.

SRL are able to ship Enerjex finishing chemicals across the UK offering a next day delivery to most destinations. Manufacturer safety data sheets are supplied with each product. Application data sheets are available on request. SRL offer advice and guidance on how to use the products and indeed will gladly guide you through the correct product choice for your application.

All products offered are "tried and tested". The full range of Enerjex finishing products are not sold to the UK market in the hope they work but are tried and tested and used in the company's own in-house pickling hall so, "we don't hope they will work, we know they will work"

SRL take great pride in being able to offer the customer the benefit of their experience in chemical pickling and passivation gained over many years of working within the UK and International industry.

- 1xx series - Pickling pastes
- 2xx series - Spray pickling gels
- 3xx series - Immersion & circulation pickling liquids
- 4xx series - Cleaning products
- 5xx series - Neutralization & flocculant agents
- 6xx series - Passivation agents
- 7xx series - Plant & Equipment
- 8xx series - Electropolishing products
- 9xx series - First aid & PPE products



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STAINLESS RESTORATION LTD

BLASTING “White” steels

IN-HOUSE or ON-SITE CONTRACTS

Stainless Restoration Ltd provide a comprehensive blast cleaning service to the stainless steel fabrication and manufacturing industries.

A number of blast rooms are operated, up to 15,000 cu ft, with dedicated equipment for blast cleaning of stainless and other “white metals” ensuring no cross contamination of components is made. We are able to deal with high volume components for a quick turn-around. Larger jobs can be catered for with 5 over head cranes in the blasting shops with a combined lift of 120,000kg.

We also have the capability to provide on-site blast cleaning services across the UK and Europe.

A range of media types can be used from virgin glass to Aluminium oxide and other less popular types.

A ranges of different surface finishes can be achieved from roughness values to gradients in lustre / reflectivity.



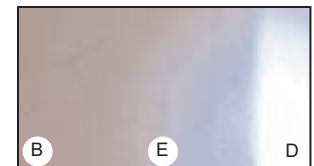
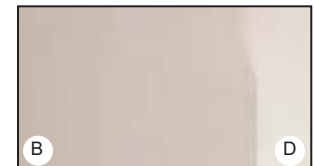
A) Virgin plate,
Hot rolled 6mm mill finished 316L stainless steel

B) After Aluminium oxide blasting ONLY single stage.

C) After glass bead blasting ONLY single stage.

D) Glass bead blasting on-top off Aluminium oxide;
Two stage operation, will remove fine scratches and render a pristine surface with a higher lustre than Aluminium oxide on its own. - see below (E)

E) This picture help to illustrate the reflectivity of the two surfaces. You can see that the LH side, Aluminium oxide only (single stage) is duller than the RH side which has the glass bead blasted finish on-top of the Aluminium oxide (two stage).



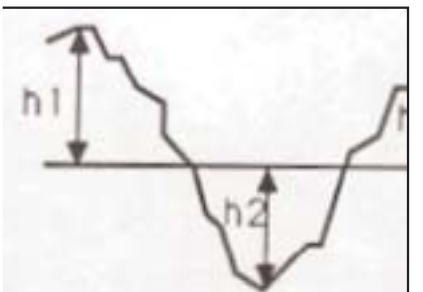
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STAINLESS RESTORATION LTD

MECHANICAL POLISHING

IN-HOUSE or ON-SITE CONTRACTS



From pressure vessels, hoppers and ducting to balustrading or just about anything that is accessible, Stainless Restoration Ltd are able to offer a mechanical finishing service to all industries.

SRL offer both in-house contract mechanical polishing at either its Manchester based facility or at its Halifax facility and on-site contract polishing anywhere in the UK, Europe or the world.

It doesn't matter what the requirement is; from a simple brush finish or a very high mirror finish SRL will achieve your requirement within budget and on time.

All mechanical polishing is done to the clients' specification. This may be expressed as a grit finish (old money), or as a Ra μm value (modern precise). SRL have equipment for measuring μm finishes on various surfaces.

If you are uncertain of which surface finish you require, consult the sales desk for further information.

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STAINLESS RESTORATION LTD

PAINTING & SHOTBLASTING; “White & Black” steels

SRL have invested £250,000 into extending its existing Blasting & Painting department at its Hyde Manchester factory. The development changes include, new booths for painting, new natural gas heating systems, new lighting and extracting equipment, new multiple paint pumps and equipment. Other investments include inspections equipment and testing equipment.

Four extra environmentally controlled paint booths each with a volume capacity of around 15,000 sq/feet. The facility is able to process “consistently” 24 hours a day, 7 days a week and 364 days per year at the same temperature, regardless of the temperature differences outside even in winter when it can get as low as -10 degree C.

This allows SRL to not only guarantee a consistency in quality of its workmanship but also SRL is able to deliver on time as promised without the

Upon request a full documentation pack is available.
The environmental condition and paint conditions are recorded within the documentation.

SRL employ NACE qualified inspectors to ensure all the customer specifications are complied to correctly and conditions are met before each and every stage of the operation.

facilities include;

- ICATS trained blasters and painters
- NACE qualified inspectors level 1, 2 and 3
- NORSOK M501 compliance
- 4 overhead cranes with a combined lifting capacity of 70,000 kg
- Paintshop floor area 40,000 sq/ft



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STAINLESS RESTORATION LTD

UHP - ultra high pressure

WATER JETTING & WASHING. 40,000 P.S.I.

Stainless Restoration Ltd offer a range of UHP jetting and HP water washing operations both in-house at our Manchester factory or indeed at your site anywhere in the UK.

SRL are proud members of the Water Jetting Association and we take seriously the codes of practice laid down by the association in its BLUE CODE of practice.

The Blue code of practice has evolved over the years since its inception in 2002 with the help of the Health & Safety Executive (HSE) and is now recognised as the true reference for the High Pressure Water Jetting Industry.

SRL have access to a wide range of low pressure and Ultra High Pressure jetting equipment.

The application for water jetting is wide and varied ranging from: unblocking tube bundles in heat exchangers, cleaning internal bores of pipe spools of various diameters, 1" to 24" in diameter and upwards also vessels and a vast array of other equipment can be cleaned with the HP and UHP processes.

Every contract that is undertaken by SRL will be accompanied with a documentation pack which will include a safe operating procedure sheet like the one shown here. All the information required by the operators to execute the contract safely and to the right standard is provided in this document.

Critical inspection hold points are included in these SOP which can not be passed by until an authoritative signature is gained before hand.

authoritative signature is gained before hand.



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STAINLESS RESTORATION LTD

CONSULTANCY

WORK

"Rust never sleeps"... Stainless Restoration Ltd have a wealth of experience in trouble-shooting corrosion problems and product surface contamination problems. These include: roughing, smut formation, pitting attack, SCC (stress corrosion cracking), MIC (microbiologically induced corrosion), etc.

SRL can conduct a site visit and offer a comprehensive report on the problem as well as possible remedial work solutions.

Visit the trouble-shooting and technical library section on our website at www.stainrest.com

With many years in the metal finishing industry consulting and tendering for contract in all of the following areas;

- Pickling
- Passivation
- Electropolishin
- Mechanical polishing
- Beadblasting
- Shotblasting & Painting
- Chemical sales
- Plant design and Fabrication

There is NO other company within the UK or even Europe that has such a breadth and depth of knowledge on metal finishing products and services under one roof as Stainless Restoration Ltd.



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DOCUMENTATION

A full documentation package is presented before and after a contract should the client require. For in-house work a Procedure and Certificate of Conformity are offered.

For site work, typically a document pack would comprise:

- Procedure
- Method statement
- MSD (manufacturer safety data sheets for chemicals)
- COSHH data sheets
- Certificate of Conformity
- Copy of public and product liability insurance certificate
- Personnel training certificates (confined space etc)
- Process rinse water removal certificates
- Other documents might include a log of the “grab sample” for any air monitoring that has been conducted during the contract.

Copies of documents from the blasting & coating division are available with all contracts upon request. ALL data is recorded and logged for reference purposes. Comprehensive contract data record sheets can be given if required.

In June 2015 SRL secured its long term goal of ISO 9001 accreditation



CONTACT DETAILS

Stainless Restoration Ltd are a leading metal surface finishing company specialising in the chemical treatment, blasting & coating of metals.

With over 70,000 sq/ft of factory floor space and a vast assortment of equipment to assist in both in-house metal surface finishing along with on-site contract services.

Grades Include:

300 series stainless steel
Duplex Family of steel
Nickel based alloys
Aluminium

Market Sectors Include:

Pharmaceutical
Pulp and Paper
Marine
Oil and Gas
Petro Chem
Water Industry
Architectural
Nuclear

STAINLESS RESTORATION LTD

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