



The key to Enhanced Paint Adhesion
— *Application of Bonding Film*



The Right Fabrication for My Product



A Personalized *Logo* made by VICTOR

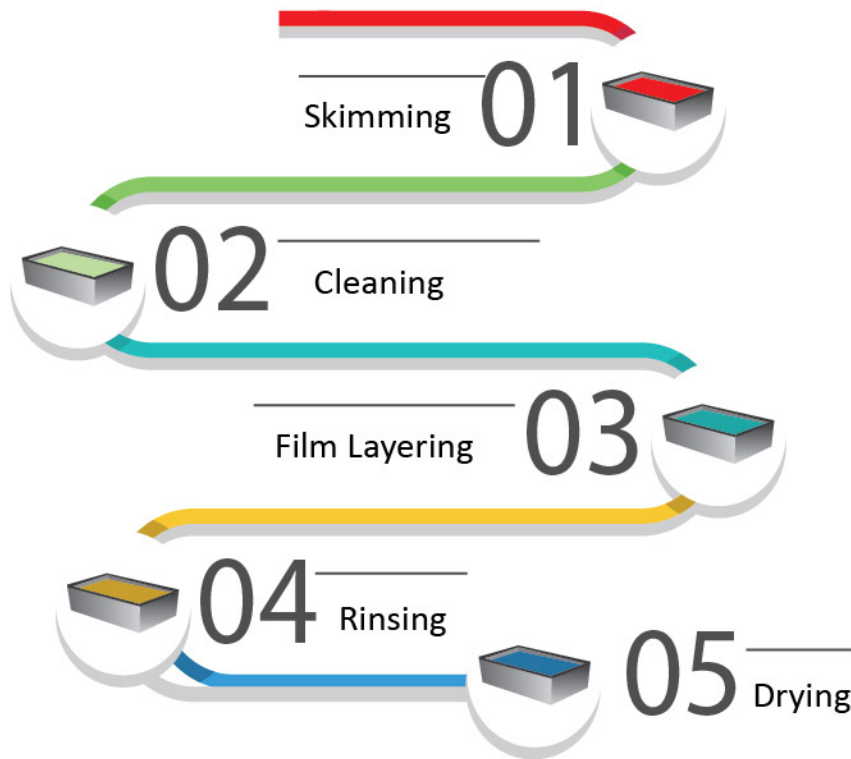


CNC Probing System

➤ The key to Enhanced Paint Adhesion —— *Application of Bonding Film*

It's always been a critical topic of the industry to seek for enhanced paint adhesion over aluminum surface for better product wear-resistance and durability. At Victor, we have found paint adhesion greatly improved through the aluminum bonding filming application.

This application is a pre-treatment process on metal surface prior to the subsequent processes. It allows the bonding solution to form a bonding layer over the surface in order for an enhanced adhesion to the proceeding paint coating.

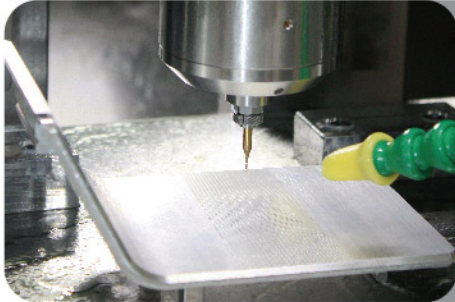


5 steps in the film-bonding

There are 5 steps in the film-bonding process including **skimming, cleaning, film bonding, rinsing, and drying**. Skimming is an alkaline cleaning process which removes anodic coating, burs, and other particles. The part will then be cleaned to prevent residue built-up before dipping in the bonding film solution to form the bonding layer. Once the layer is formed, the part will be further rinsed to take off the excessive layer, then it will be placed in the dryer to complete the process.

The bonding film serves for an enhanced ultimate coating adhesion. It also prevents surface corrosion and oxidation during the process, which in turn prepares and backs up for the subsequent coating quality.

➤ *The Right Fabrication* for My Product



In the current market, a new trend - surface-perforating on electrical or acoustic housing part seems to take over the traditional mesh cover approach. Hence, selecting the right tool for perforation is a vital step at product development stage. At Victor, we strive to achieve fabrication excellence by offering solutions to meet the multitude needs of punching sizes, spaces and thickness.

CNC operates under a digitally controlled system that has been fully developed and very reliable. Such system requires just a few parameters reset on its screen terminal to adjust the size between and depth of the holes while retaining exact precision and milling efficiency. However, there is a constraint in the rate between depth and diameter of the drill hole up to 5 to obviate drilling bit breakoff.

CNC

Laser

The laser beam works by instantly heating, melting and vaporizing away the target spot to get the desired fabrication design. This application involves no wear and tear of the tools, but is capable for in-depth milling and fine milling on tilted surface and suitable for high-density area milling.

Etching is a chemical process by using chemical solutions to etch off the target area. It works well with sheet or plate of thickness up to 1mm.

Etching

Stamping

Stamping is a mechanic process by applying stamping presser and tooling over working material. Stamping can achieve good productivity by multiple punches at once with a minimum setup cost. It works well on parts with holes consistently spaced and lined, but the diameter of the hole must outsize the thickness in order for the presser to apply its force.

➤ A Personalized *Logo* made by VICTOR

When the design of electronic device walks towards being fashionable, we notice that the Logo design takes an analogous approach. To make your logo standing out from the crowds is what customers ultimately seek. Here is where Victor comes in to the play to customize your Logo by offering a wide range of applications including Screen Printing, Pad Printing, Stamping, Laser Engraving and Etching.



Screen Printing

Screen printing is a printing technique whereby a mesh is used to transfer ink onto a substrate, except in areas made impermeable to the ink by a blocking stencil.

Pad Printing

It's a technique, by using a transferrable curve-face silicon printing pad, to press ink onto the parts to display desired characters or patterns.

Laser Engraving

It's a laser version of engraving a desired letters or patterns.

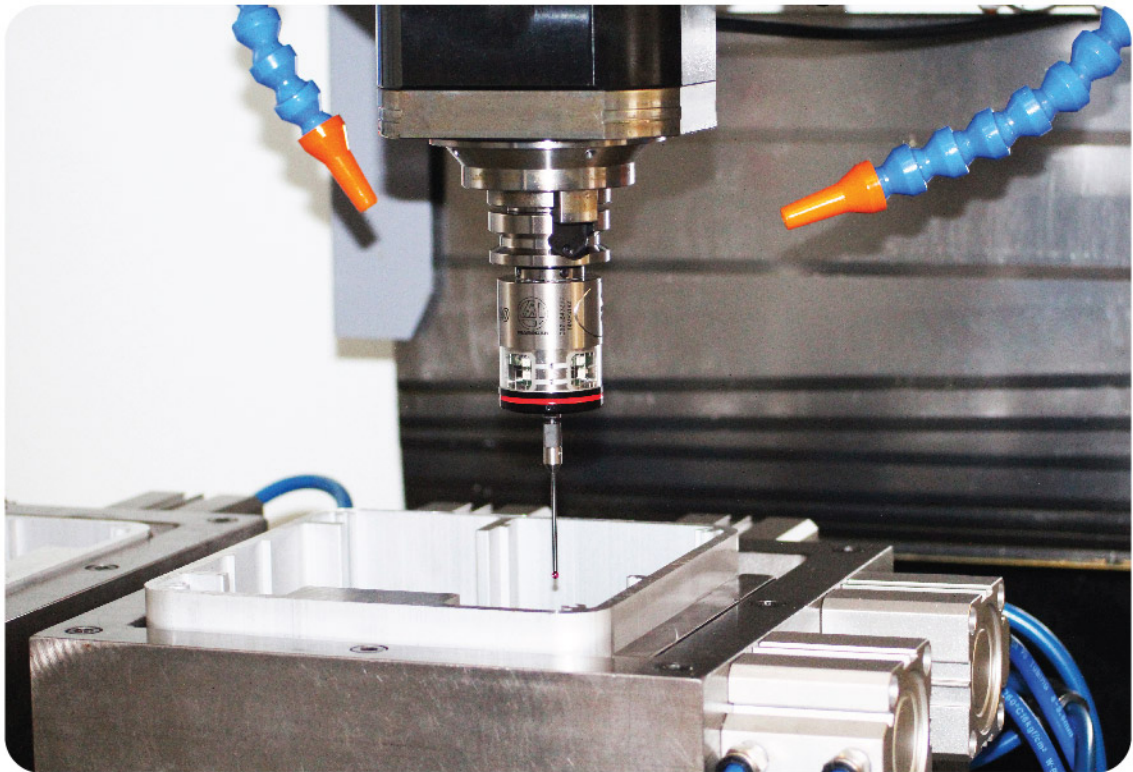
Stamping +Drill Engraving

Drill engraving is an application for a striking, even surface of fine texture by simulating traditional engraving. The application is used in tandem with the Stamping Process.

High Gloss Etching + Anodizing

The effect of an embossed pattern or skeletal cut-out reached by way of photo-exposure through an etching process using chemical solutions.

Please log on to contactus@victoralu.com if you would like know more about our Logo making stories.



➤ *CNC Probing* System

To overcome low efficiency and instability of manual testing, CNC probing system has been introduced to manufacturers and becomes indispensable for enhancing fabrication precision. It measures against the characteristics of a machine part, and adjusts fabrication programming for better machinability and size detectability of a finished product.

CNC probing head is commonly used in **machine positioning** and **parts inspection**.

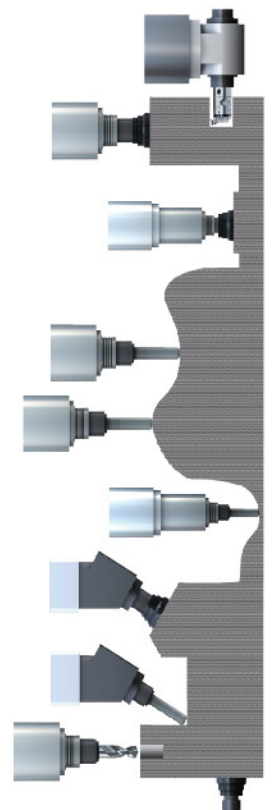
MACHINE POSITIONING

CNC probing system auto-detects position of the machine part, and auto-updates tolerances on related parts so that fabrication can be resumed after re-positioning. This saves high cost on jig tooling and the inconvenience of using a manual caliber, precludes human errors, and improves mass production stability.

PART INSPECTION

During fabrication process, the CNC probing head will inspect critical dimensions of an individual part, while auto-updating tooling offset compensation values to be applied in upcoming job. Upon completion of current job, the probing head will re-inspect for dimension conformity.

A series of CNC probing system have now been in commission in our facility, which greatly improves production reliability over manual process, makes it possible for custom fabrication, and sends a warranty on production consistency and precision.



COMPANY PROFILE

Our company was founded in year 2000. Being a company specialized in sophisticated alloyed aluminum fabrication and high-end surface treatment, JM Victor is not only refined with hands-on experiences through years of accumulation through the sector chain of precision manufacture, but also with unparalleled wealth of knowledge enriched from company operation and management process, which enables the company to offer solutions in overcoming design and production bottlenecks in high-end aluminum fabrication.

In Jiangmen High-Tech Industrial Park, we have invested in construction of our new cyber-physical powered Smart Plant embracing the core Industry 4.0 design concept. The new plant, residing on an area of 100,000 square metres, comprising a global lab of aluminum-magnesium surface treatment and a smart CNC fab centre with its own casting house and stamping workshop, will add on a new chapter of consummate expertise to the venture of JM Victor.

Our Mission Statement

We stand by our commitment to share the harvest and happiness with our staff and workers, create value for our customers and cultivate a company culture with a vision. This is the foundation for the sustainability and continuity of our company and our business.



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