



**Mirror, Mirror... The Fairy Tale of
Our Finish "Fashion"**



The Joy of Joining Metal with Plastic
The Nano-Tech employed at VICTOR



Greener, Trendier and Highly Efficient
Electrophoresis Deposit (**ED**) at VICTOR



5 Tools under TS16949

How much do we know their Relationships?



Mirror, Mirror... The Fairy Tale of Our Finish “Fashion”

Where the consumer demography shifted to the younger aged and more individually focused group, the demand of consumer electronics over product appearance has also increased. The stunning mirror-effect surface finish that has recently emerged in the market is just another new trend to cater such demand.

Mirror-effect is a three-step mechanical polishing process including grinding, sanding and fine polishing to achieve a smooth, glossy and mirror-reflective-effect surface.

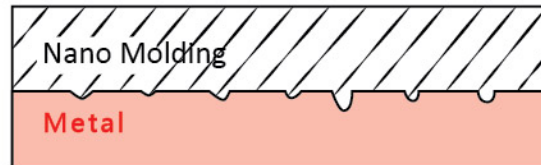
- 1、 Grinding is used to modify coarse surface and minor surface defects, which will leave hard lines on surface due to the mechanical process.
- 2、 Sanding is used to eliminate some of the hard lines from the Grinding process, but will still leave evenly distributed but still detectable lines.
- 3、 Fine polishing is employed at the last stage using polishing wheel to take off any remaining marks from previous process to obtain an even, glossy, line-free and mirror-like status, where a mirror-effect finish will ultimately be achieved.



At VICTOR, mechanical polishing is another area of our specialities. We are specialized in Alum-Mag fine polishing, mirror-effect polishing, and die/fab lines removal process. We work hard to lead the Fashion of Alum-Mag Finishing and are ready to offer our customers the most stunning finish line of excellence.

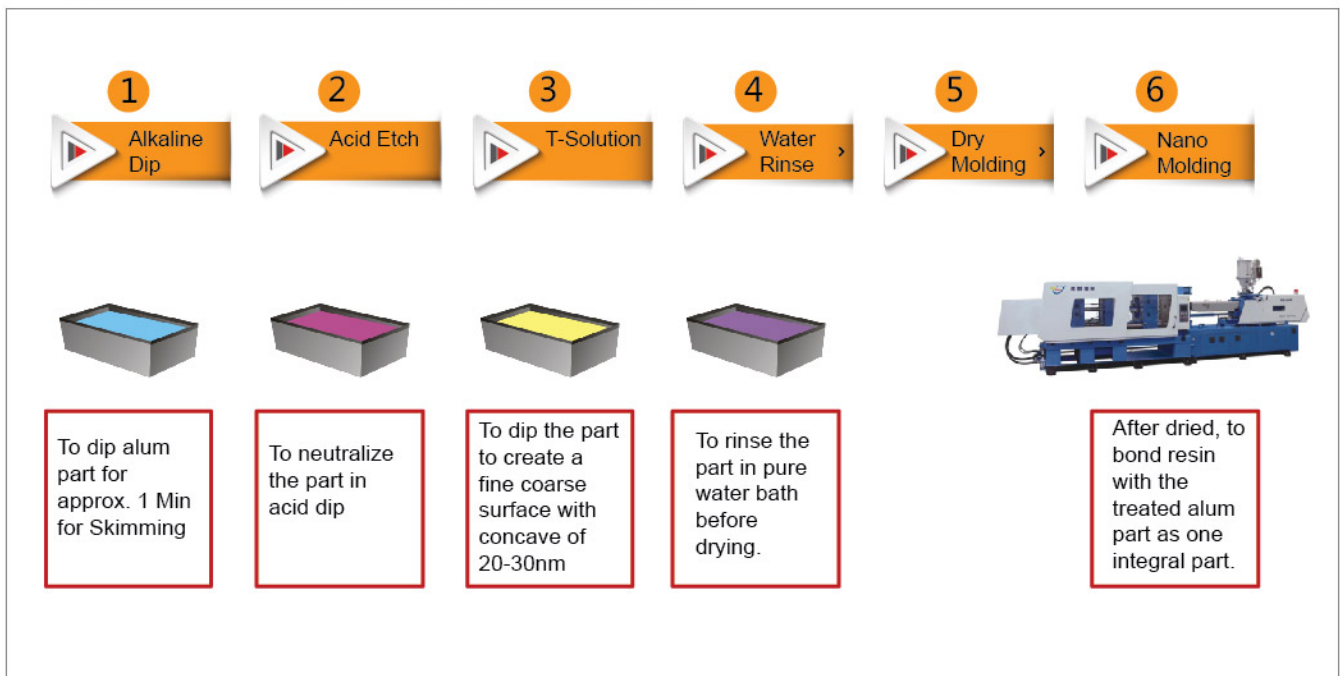
The Joy of Joining Metal with Plastic The Nano-Tech employed at VICTOR

When electronic products enters as a fashion and are widely favored by the market thanks to their light aluminum structures and colorful appearance, the ability to create an integral body of a product and solve the signal interfered by binding different types of material becomes a true challenge. As the saying goes, the need is the necessity of invention. With the birth of Nano Molding Technology, or NMT, VICTOR quickly invited it to join its family for the fun of offering our customers another superior product of joined materials as one integral part, also make wifi signal receiving well.



Nano Molding Technology is to bond different types of material such as metal and plastic, to become one integral piece using nanotechnology.

Here is a nice flow chart to illustrate the process:

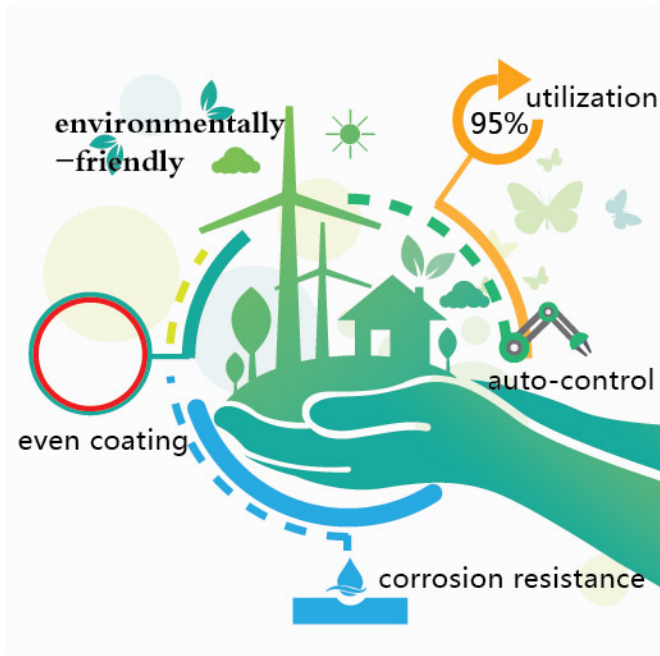


Technology innovation is our ongoing pursuit. With our full-range production chains in high-end surface finishing, we are at your service for the very expertise support on technology and quality of excellence.

Greener, Trendier and Highly Efficient Electrophoresis Deposit (ED) at VICTOR



Electrophoresis Deposit (or ED), through the motion of dispersed particles relative to a fluid under the influence of a spatially applied electric field, applies primer coating onto a surface. In recent years, elements, like market demand for metallic finish and consumer sense to be environmentally responsible, have all been factored in by variegated industries in their own development.



The Electrophoresis at VICTOR has such attributes as superfine finish, toxic-free application, and automatically controlled production and quality process, which has been well received by our customers in all kinds of industry.

Compared to other coating processes, ED are well known for the following features:

1. Shorter processing time in the water tank for entire process streamline.
2. High throw power enables even coating on surface, especially on complicated geometric shapes.
3. Low viscosity.
4. Water-soluble base minimizing substrate is considered an environmentally-friendly coating.
5. Acrylic base coating of ED ensures the coating properties of high corrosion resistance and decorative nature; and with it being highly transparent, a better metallic finish can be obtained when blended with various colours.

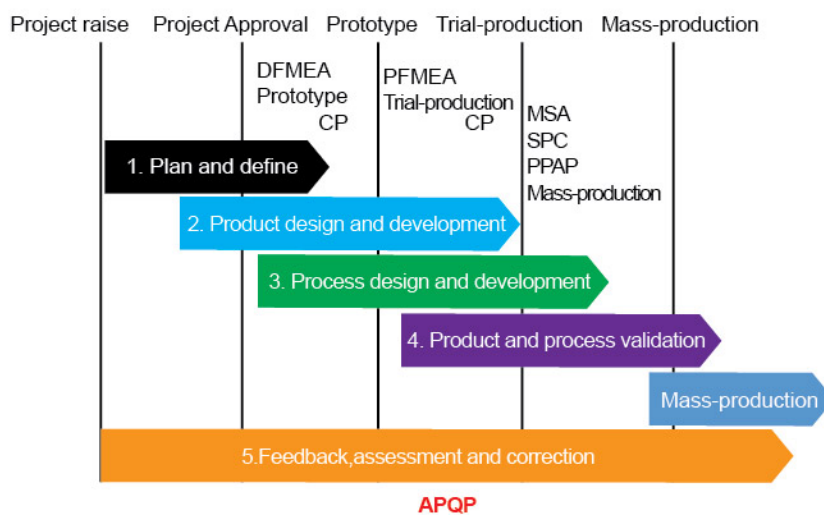
With continuous technical advance at our company, we are striving to refine and standardize our PHD process, so that we can meet and exceed the evolving market demand with confidence.



5 Tools under TS16949

How much do we know their Relationships?

TS16949, a quality module designed for the automotive parts and components industry, is an ISO quality management system. VICTOR has adopted and been implementing TS16949 to facilitate compliance to customers demand using the Big 5 under TS16949.



So how much do you know about the Big 5 and their relationships?

▶ **APQP** - Advanced Product Quality Planning - is a framework of product design and its manufacturing process design before mass production for the purpose of quality assurance.

▶ **FEMA** - Failure Mode and

Effects Analysis - is one of the highly structured, systematic techniques for failure or potential failure analysis on product, on its parts and components, and on any of various stages over manufacturing process and the subsequent effects.

▶ **MSA** - **Measurement Systems Analysis** – is a “Measurement over Measurement”, using statistic and analytic charts to analyse resolution and variation of the measurement system to evaluate if it’s effective and applicable for the product and its manufacturing process.

▶ **SPC** - **Statistical process control** - is a method of quality control which uses statistical methods. SPC is applied in order to monitor and control a process so as to ensure it operate at its full potential and impose prompt corrective action to restore normal process as soon as abnormality has been discovered.

▶ **PPAP** - **Production Part Approval Process** –is a process to supply customer with product sample and required documents before mass production for the purpose of ascertaining full compliance to customer’s design request.

In short, APQP is a Quality Plan Process to start at the launch of the project and end at the completion of PPAP which is placed at the latter stage of the APQP process, while FEMA at the initial stage for preventive purposes. MSA and SPC are both quality management tools that are considered most appropriately deployed at the PPAP stage.

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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