

NEW CHALLENGES AND REQUIREMENTS IN SHEET METAL STAMPING



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New challenges and requirements in sheet metal stamping

There is a whole gamut of things happening in the technological front, and no industrial field is far behind. Thousands of new product, tools equipments, and machineries are being launched every day around the globe. Sheet metal stamping industry has also seen a lot of changes in the past few years. In order to stay adept with the latest changes, sheet metal stamping suppliers need to stay attuned with all the latest requirements.

With the introduction of new technology there are also many challenges in this industry, and some of them are highlighted here. It is important to overcome these challenges with the help of latest technology in order to stay ahead in the competition.

Brief summary on challenges and requirements

Stamping simulation technology has considerably matured in the last decade. Now there are more refined and detailed models available that have improved the forming analysis and capabilities to provide best solution. Here are some of the challenges faced by the industry:

Stringent requirement on quality

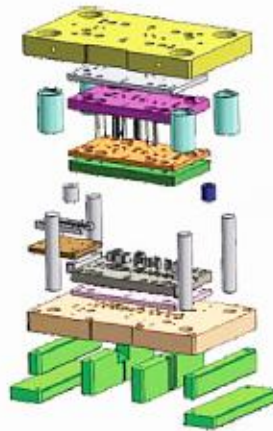
The clients from several industries have become more and more stringent when it comes to the quality aspect. Efficiency and top of the line quality in sheet metal stamping can never be understated. Subpar materials are a strict no and there are a lot of tools and equipments for detection. Any critical flaw will have a huge impact on the completed product and so there is a stringent requirement for quality.



There are several ways to tackle this situation and maintain supreme quality. Well established industries have several processes in place to make sure that the quality is never compromised. The quality is inspected in every step of production and the final result is expected to be nothing less than 100 percent. How is the quality aspect being worked on? Well, here are some ways in which well established industries are making sure to keep up with the best quality.

Use of advanced metal stamping solution

The smart and innovative companies make sure to use the best of what's available in technological front. In order to make sure that production meets all the stringent quality control requirements, the companies use advanced metal stamping solution. For the companies to get a proper idea about how their quality fares, it is crucial for them to also understand the impact of technology. Firstly, the companies need to invest in understanding the huge role technology plays so that it can be used in the best way. So rather than just conducting some random tests in various areas, a good sheet metal stamping company ensures that advanced solutions are implemented throughout the floor to get quality results. Some of the reliable solutions that most companies go for are in-die sensors, video sensors, and so on. This helps to detect a problem in an early stage and then also come up with a reliable solution for the same.



Statistical process system to the help

SPC (statistical process control) is a technology that has been used to keep a track on the metal stamping process on a real time basis and monitor any variances in it. In this system there are acceptable ranges that need to be put in beforehand in order to get all the data accurately. SPC software is used in an automated process with the set norm. This helps the manager or operator to also get in tune with the relevant trends of this industry. As a result, the right solutions can be implemented to the project as and when there is a need for it.

This is an important requirement in sheet metal stamping industry because then the staff can understand a problem and then come up with the right solutions. A major benefit of this process is that not just to handle ongoing issues, but it is also for the staff to research about a problem and implement strategies that will help in a way that these problems do not appear again. There are several other trending inspection methods in this market but SPC is considered to be the most efficient to handle various issues in this industry.



Use of the in-die detection system

Another pressing challenge in the sheet metal stamping industry is the protection of tools and die system. There are various things that can and does go wrong on the production floor, how do you tackle this problem? Well, the in-die detection system helps the companies do just that. These are great systems for precision metal stamping industries because they can help prevent a lot of damages. This system is also considered to be effective in getting quality products.

The companies are not just able to save a lot on the common issues but also improve on getting the best solution to a problem. In the latest work environment this is one of the most crucial requirements of a sheet metal stamping industry.



The use of coordinate measurement machines

These machines are also a latest requirement needing fine tuning in this industry. There are numerous benefits of implementing this system in a company. Even within tight manufacturing tolerances, the machines are able to provide precise measurements of the parts being stamped. This is crucial for the success of operation because it ensures that the certain set geographical parameters are met according to what are specified on the blue print. Review chart are then viewed on real time to detect and come up with the right solution to any problem.

There is a need to be extremely reliable

Apart from being technically advanced, it is crucial for a sheet metal stamping company to be reliable in all of their processes. From the inception of an idea to the delivery of a final product, the company needs to let the clients know that they are reliable in all of their operations. There is an increased competition in the market and there are also varying needs from customers. As a result the companies need to be reliable and make sure that the clients are provided with not just any quality, but only the best quality services.

There are several ways for industries to do that, and having the latest equipments and processes in place will help to create a proper image in front of the clients. If the companies are reliable, it helps them to gain more clients and also provide the best services in a long run. Of course, the experience of a company also plays a crucial role in this regard because years of providing the best services is what helps a sheet metal stamping supplier be reliable as well.



A client likes have transparent functions

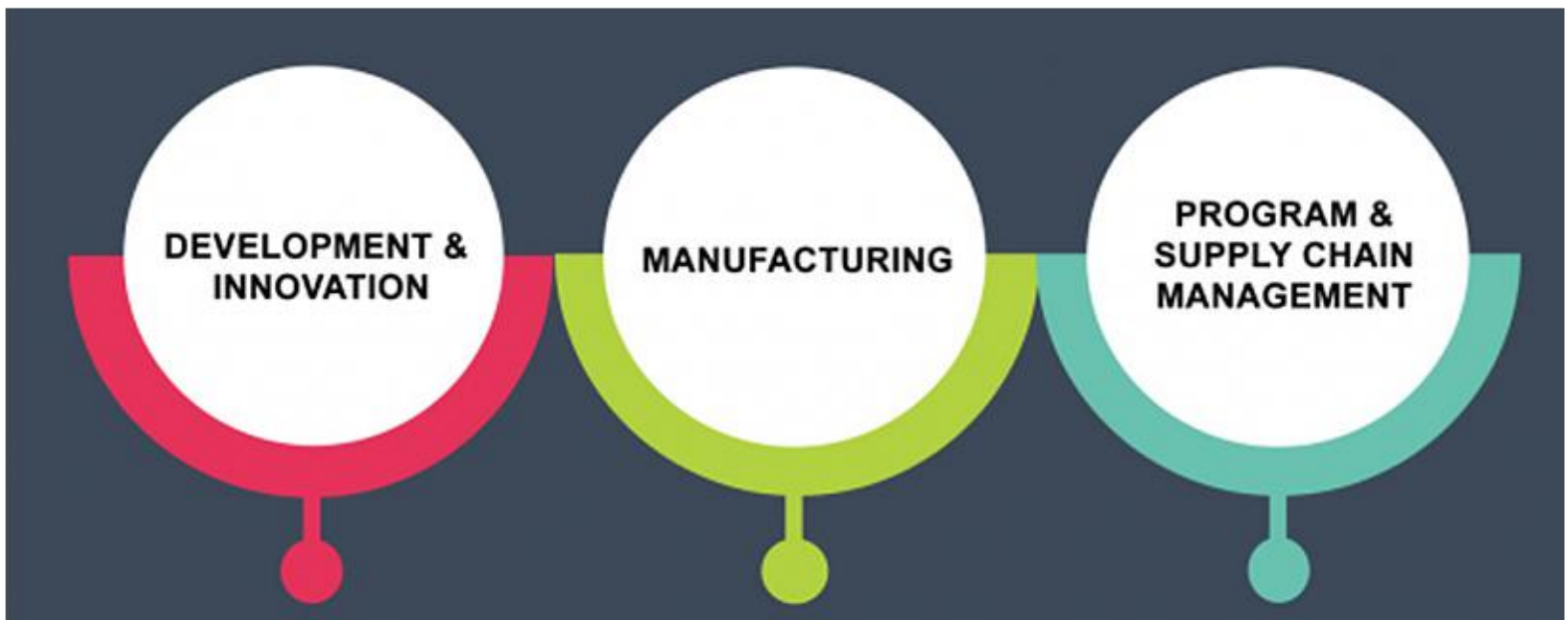
There is a lot of money, time, and investment being done in the sheet metal components from clients and so there are a lot of requirements from a supplier as a package that comes along with work. One such requirement is also to have transparent functioning. A good company will also keep their clients looped in for every aspect of their project. So rather than just providing a delivery date and schedule, the companies also need to keep clients in loop when it comes to designing, stamping, packing and dispatching the finished product.

It is definitely a major requirement because it helps a company to keep their clients involved. The clients in turn can also plan their activities well revolving on the completion of various processes. The transparency of functions needs to be practiced not just with the clients but also across the various departments in a company. This helps the different departments to work as a single body and come up with the desired results in sync. So the sheet metal stamping company needs to implement strategies that help workers from various departments to communicate freely with each other about various changes, updates, and progress on a project.

Organization need to be organized

Gone are the days when anything and everything was tolerated from a sheet metal stamping industry. Nowadays, the organizations are expected to be highly organized in all of the processes that they do. So from the communication part to delivering stamped products to client location everything needs to be organized. This helps the clients to understand commitment towards the work and more work follows as well.

If the organization has properly organized departments then they are able to carry out all the different functions efficiently. This is definitely a requirement that metal stamping companies cannot ignore in these days of fierce completion. How can this be achieved? Experienced and efficient managers, latest tools, proper oversight, the right administration and similar such things help a company to be properly organized. The depth of a company is reflected from the time a client contacts via, phone, email or a personal visit to the property.



Quality certifications are essential

Quality certifications are a major decision making factors for client as well. A client does not just look at what is promised by a sheet metal stamping supplier but also what is available on papers. For example, a client will only get to know that the supplier has been doing extremely well based on the quality certifications earned in the past. Yes, the supplier needs to work extremely well and ensure top quality control processes to earn these certificates. ISO certificates play a crucial role in ensuring that the supplier has ensured top quality service at all times.

It is definitely not easy for a supplier to earn ISO certificates. These certificates of international standards are presented to an organization after a proper scrutiny of their processes. The organization presenting these certifications make sure that no stone is left unturned in this regard, and that every aspect is carefully checked before giving out this certificate.

Being updated with the latest innovations

A sheet metal stamping supplier cannot just stick with what they have been doing for years. What was successful and loved few years ago may not necessarily be appreciated and considered to be reliable in these times. What is the solution? Well, apart from all the latest gadgets, tools and machineries, the supplier needs to have a watchful eye on the latest innovations in this industry.

The innovations and processes help a company to stay in sync with the required changes and provide the perfect solution to their clients. As the clients see that latest technologies and tools are being implemented and used by the suppliers in their several processes, it also helps them get a clear picture about what they can expect from them as well.



Eigen keeping up with the challenges

Eigen engineering has been a leading supplier of sheet metal stamping from several years. In the last two decades the company has not just seen the industry being evolving in terms of technology, requirements, and processes, but it has also made sure to stay in sync with all the changes. Eigen is not only limited to the city, state or country of its origin but has spread the wings wide across and soaring high in the international market so to speak. The implementation of latest technology, organized structure, ISO certifications and a great reputation in the international market speaks volumes regarding this company.

There are several feats being accomplished in the last two decades and the company is known for always exceeding its own set standards and reaching new heights to provide the most efficient and reliable services to clients across the globe.

System Certifications



ISO 9001 ISO/TS 16949
Automotive quality management system certified



AS 9100C
Aerospace quality management system certified



VDA Qualification Certificate - Continental
VDA Audit Score - 84%





Thank You

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