

WHICH IS BETTER?

INJECTION MOLDING

VS

3D PRINTING



01 ACCESSIBILITY

3D printing is portable while injection molding can range from small-scale to industrial-sized. With 3D printing, you can produce just about anywhere because the machine is portable and handy. With injection molding, on the other hand, you have to exert much effort in moving the equipment to go from one place to another.



02 OUTPUT PRODUCTION

Injection molding can meet extreme demands because it can produce plastic outputs of any size while 3D printing is best known for only producing smaller parts. Injection molding companies are better in this category for their versatility in production.



03 SUITABILITY

3D MANUFACTURING IS SUITABLE FOR:

- Quick turnaround times spanning from 1-2 weeks
- Low volume production runs (100 parts or fewer)
- Designs that require many changes
- Small plastic parts

With the capabilities that both manufacturing strategies offer for your production, the only thing left to do is to know which one is best suited to your design requirements. Here are some considerations that you have to think of in order to have a successful manufacturing process.

INJECTION MOLDING IS SUITABLE FOR:

- Long turnaround times which can last for 5-7 weeks
- High volume production run that (1000+ parts per run)
- Finalized part designs
- Complex part production of any size



04 COST EFFECTIVENESS

It may seem that 3D printing is the most cost-effective option but the truth of the matter is that injection molding outmatches 3D printing in production costs. When you choose injection molding as the production technique, you are able to come up with more output production which will generate more savings for your business in the long run.



05 QUALITY

The entire manufacturing process has one end goal and that is to produce a high-quality part. 3D printing products tend to be raw which requires many allowances for fine-tuning whereas injection molding can produce products that are already polished and ready to be distributed. With only minor refinements required for injection molded parts, you can ensure that you can have a quality product.

KEY TAKEAWAY

Plastic part production aims to generate high-quality and multi-functional products which will be used in a variety of applications. When the similarities and differences between 3D printing and plastic injection molding are compared, it becomes evident that the latter has the most advantages.

Injection molding can produce better products with optimum results. Get the best value out of your manufacturing venture with this production technique and be sure to generate a handsome return on investments.



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