

MIRROR FINISH

3D Logics is an ISO 9001:2015 & ISO 13485:2016 certified manufacturing facility

high energy centrifugal barrel • centrifugal disc equipment • media separators • media & compound

3D LOGIC'S CHALLENGE:

Established in early 2018, 3D Logics was adept at creating parts that were accurate and consistent, but often had inherent surface roughness. The company had persistent finishing challenges with metal products, particularly titanium and nickel-based Inconel parts which are extremely tough and require high energy and very exact media to properly finish. Being a startup with just a few employees, 3D Logics wanted a partner that could provide finishing expertise and advice, as well as a selection of specialized media that would enable them to provide high end finished parts to their growing customer base.

ABOUT THE CLIENT

3D Logics
Centrifugal Barrel Finisher

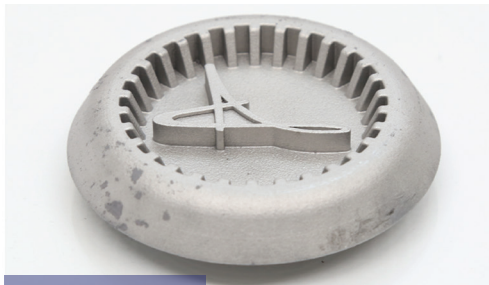
Industry:
3D Printing

Location:
Hillsboro, Oregon

3D Logic's industrial 3D printing technology is used to create parts and other items for the medical, automotive, aerospace, artistry and consumer goods industries. The company uses two additive manufacturing processes – direct metal laser sintering and selective laser sintering – to print objects layer by layer using powdered metal, powdered nylon or nylon-filled material.

OUR SOLUTION:

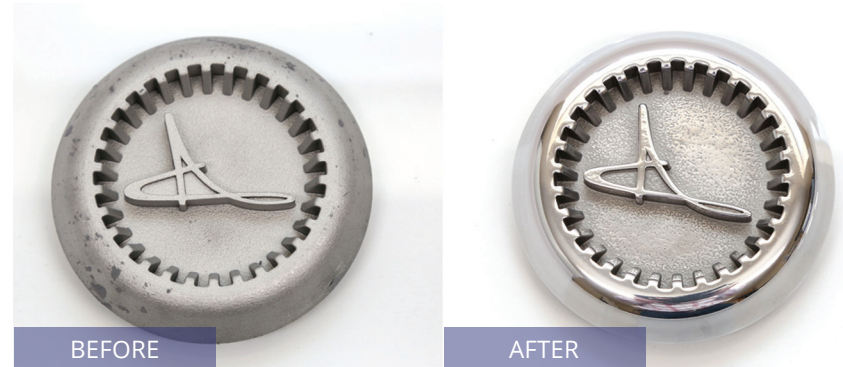
3D Logics evaluated many equipment manufacturers, but ultimately Mass Finishing Inc. (MFI) had the whole package they were looking for – the best systems (made in Minnesota), years of experience and a large selection of media. 3D Logics purchased an HZ-40 High Energy Centrifugal Barrel Finishing (CBF) Machine, and MFI partnered with them to help their employees gain a better understanding of which media to use depending on the material, size and shape of the item. Whenever 3D Logics has a new part, they can send it the MFI technical team, who will develop the finishing process and send a report so 3D Logics can provide their customers with the highest quality metal and plastic/polymer parts.



BEFORE



AFTER



THE RESULTS:

Thanks to their HZ-40 CBF and technical assistance from MFI, now 3D Logics can put a mirror finish on their titanium parts, and get precisely finished parts in 20 to 30 minutes. 3D Logics Owner Sterling Logan is very pleased with his HZ-40 CBF and happy to recommend MFI to anyone who has finishing questions. He appreciates the MFI technical team's help, quick response, and honesty to tell him when a barrel finisher isn't the best finishing solution. That's because they don't just want to sell him a machine and media, they want him to have the best possible solution.

"Our customers immediately noticed a difference when we started using the HZ-CBF. They asked, 'Wow, are these 3D parts? This is incredible, these parts are amazing. What did you do?' Mass Finishing gives us a leg up on the competition and we're happy to partner with them. Anyone seriously looking at barrel finishers should take a close look at Mass Finishing. They'd be in good hands."

- 3D Logics Owner Sterling Logan