SAMPLE PART

WELDING & ASSEMBLY JIGS

Many believe that using traditional CNC methods to create assembly jigs and fixtures made of metal for its strength is the best option even though it is extremely time consuming and expensive. Outsourcing tooling means projects get held up due to long lead times, and machining fixtures in-house results in lost revenue while the machine is down. Additionally, when working with a metal jig or fixture on a metal part scratching or marring of the final part occurs.

When GE finished printing their famous jet nozzle, they needed a strong tooling to hold it in place for CMM and laser marking. Markforged 3D printed fixtures are used because they are stronger and have high-resolution surfaces that will not mar or scratch the part. Markforged 3D printers can print with continuous carbon fiber, fiberglass or Kevlar, producing durable parts with the flexural strength of aluminum and the tensile strength of steel.

GE’s Jet nozzle inspection fixture was printed in 11 hours costing only $22.50 in materials on a Markforged composite 3D printer. These industrial machines can save up to 95% of the cost of tooling by decreasing lead times with same-day printing and reducing material costs in scrap and machining. Thousands of manufacturers around the world are speeding up productivity on the shop floor with Markforged 3D printers, using these machines for a wide range of applications including welding, assembly jigs and fixturing. More is ALWAYS Possible with these revolutionarily affordable Markforged 3D printers offered by DesignPoint.