TOGETHER WE CAN CREATE A BETTER FUTURE

WE WANT TO BUILD AND IMPROVE THE ADDITIVE MANUFACTURING INDUSTRY WITHIN SOUTH AFRICA ENGAGING SMALL BUSINESSES TO LARGE CORPORATIONS.
ABOUT US

Established with the core purpose of providing South Africa with the first of its kind manufacturing HUB focusing mainly on “Metal Additive Manufacturing”.

Founded with a strong emphasis on using high technology manufacturing methods, Metal Heart will deliver components and solutions to clients at competitive pricing structures. Our aim is to change the way you see and understand the manufacturing world forever.

MISSION

To change the manufacturing market by offering clients high technology solutions, that enhances their product and production capabilities, and saves money.

VISION

To change the industry through world-leading innovative and technologically advanced products, that will enhance the product manufacturing process.

OUR LAB TECH

FOR 3D METAL PRINTING

SLM 280 HL

Meet the SLM 280, ideal for medium to high volume metal additive manufacturing part production and prototypes. It handles all our Aluminium and Tool Steel Jobs. (1.2709, AlSi10Mg Materials)

SLM 125 HL

Meet the SLM 125 HL, Precise, economical and suitable for research and development as well as small lot production environments. We print titanium with this machine and exclusively use it to for all medical related jobs. (Ti6Al4V Material)

OUR LABS

With the latest Additive Manufacturing technology the possibilities are endless. Its the Technology that brings all the industries together. Here are the 4 divisions we are currently focused on.

FOR NOW

WE ALSO DO

ENGINEERING PLASTICS CAPABILITIES

ULTEM, PEEK, ABS, NYLON AND OTHER MATERIALS

CNC MACHINE CAPABILITIES

5 AXIS CNC MACHINE
8+2+2 CNC LATHE

WIRE CUTTING

LARGE BODY WIRE EDM MACHINE

HOT ISOSTATIC PRESS (NEW TO THE LAB)

ADVANCED HEAT TREATMENT.
SERVICES

We are all about solutions. That’s why we offer a range of services all under one roof to optimise production and give our clients a one stop shop.

**ADDITIONAL MANUFACTURING**

We offer our clients advanced manufacturing technologies to improve their product offerings. Through the use of Additive Manufacturing (3D Printing), clients can now manufacture more complex and better-designed components than ever before. Clients have access to a wide range of 3D Printing technologies and materials to get the best product desired.

**QUALITY CONTROL**

With us, clients get a detailed quality control services by means of point cloud to CAD comparison to ensure parts are manufactured to the correct tolerances. Regular Quality checks are done to ensure parts are manufactured to the correct tolerances.

**DESIGNING SERVICES**

Our designs are attentive and precise resulting in products that function more optimal within the specific client needs, be it Additive Manufacturing or conventional manufacturing methods, moulds or the actual product.

**REVERSE ENGINEERING**

With this dynamic tool, an existing physical part is scanned by using advanced software to generate a digital copy of the part for re-production.

**HEAT TREATMENT**

Our Additive Manufactured materials have straight forward heat treatment profiles. This allows us to assist our clients to get the best performance out of their manufactured parts.

**PLATING TECHNOLOGY**

Through strategic partners, Metal Heart offers a range of plating technologies, from Anodizing, Diamond-Like-Coatings and various others according to customer requirements.
This certification allows us to manufacture any Medical devices and implants. The medical industry rapidly growing and is already one of the largest users of additive manufacturing. The medical industry gains great advantage because of the freedom of complex design and personalisation that the additive manufacturing technology has to offer. Ground breaking uses for this technology is being done and revolutionary research is made all within the boundaries of the additive manufacturing medical field.

**FOCUSED ON CUSTOMER SPECIFIC OR PATIENT MATCHED IMPLANTS**
NEW TO THE LAB

WE ARE EXPANDING
WE ARE EXTENDING OUR INTERNATIONAL FOOTPRINT

HOT ISOSTATIC PRESS
ADVANCED HEAT TREATMENT CAPABILITIES
We want to sit down and find a solution with our clients. Our additive manufacturing technology combined with our team of professionals promises an easy but effective process for our clients.

"A BETTER TOMORROW... STARTS TODAY"

We don’t only want to change the future of manufacturing, we want to be the reason it changed.