



## Who we are



## WE ENHANCE YOUR BUSINESS

We are a group of enthusiastic engineers passionate to solve engineering problems and dedicated to provide high quality design, engineering, product development, and manufacturing services for the industries that strive to achieve superior products.

**Our team** consists of members with well versed experience from various verticals of industries like mechanical design, electrical, electronics, and manufacturing. We aim to build up long-term cooperation and provide top notch service in design and product development areas. Allowing clients to remain focused on their business as we efficiently handle all of their design and manufacturing requirements.





# Vision & Mission



## Vision

To become a world class design and cutting edge manufacturing Company, by caring our customers and offering them innovative solutions.



## Mission

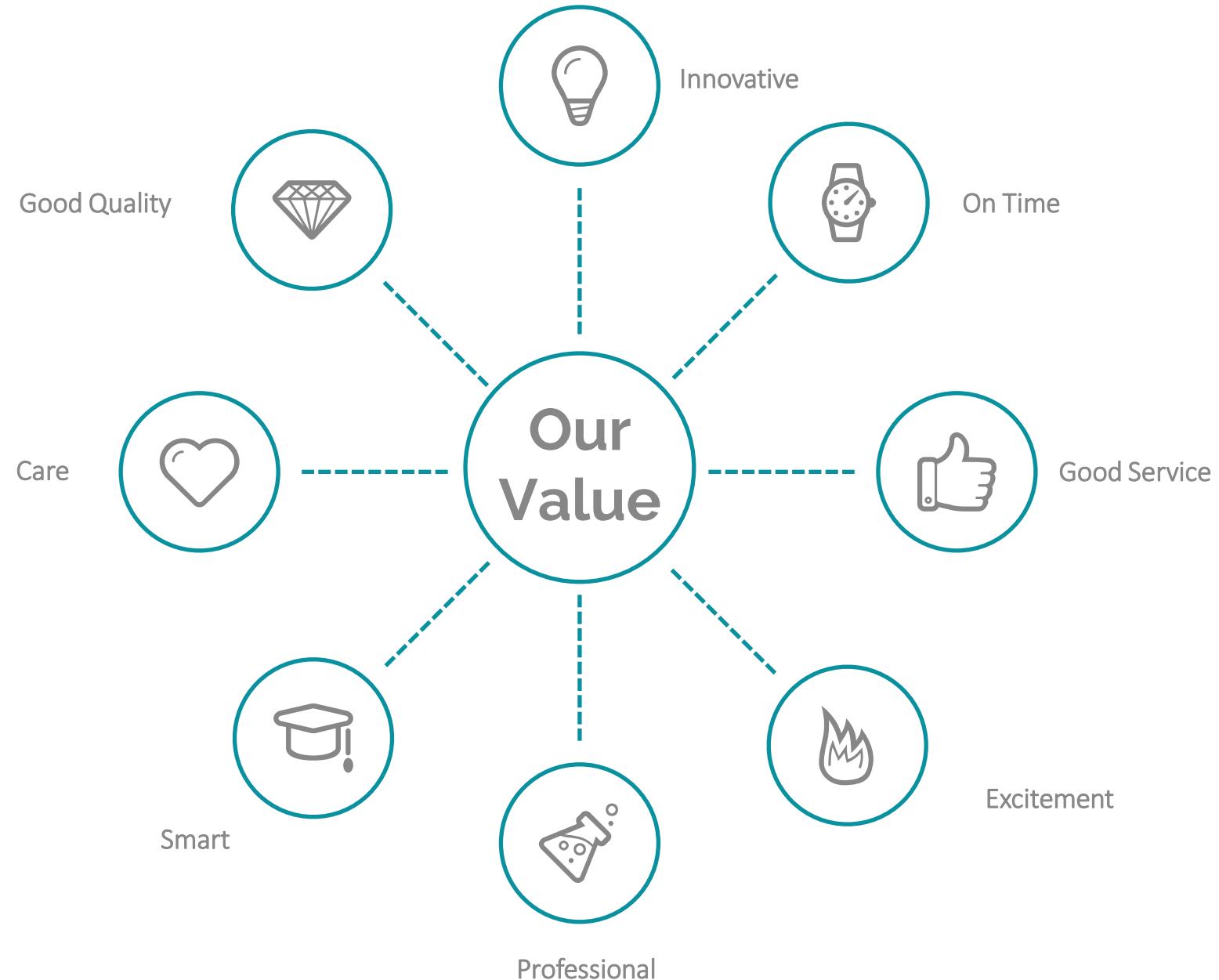
Our mission is to respect every individual and make customers, employees and suppliers partners in progress through automation and application of latest technologies for designing the future.



## Core Values

There is this notion that to grow a business, you have to be ruthless. But we know there's a better way to grow. We believe businesses can grow with a conscience, and succeed with a soul and that they can do it with inbound. Also, our existence and prosperity is because of our customers. Customer satisfaction is paramount to our business success. Hence, we strive to exceed expectation.





# Solutions Services



## Product Innovation

- New Product Development
- Automation & Testing
- Rapid Prototyping
- Innovation Target Costing
- Product Benchmarking & Teardown



## Product Optimization

- Product Engineering
- CAD Design and Detailing
- Product optimization
- Assembly Prototype (Full Scale Functional)



## Manufacturing Engineering

- 3D Printing
- Jigs & Fixture
- CNC Machining
- Plastic Machining
- Sheet Metal Fabrication



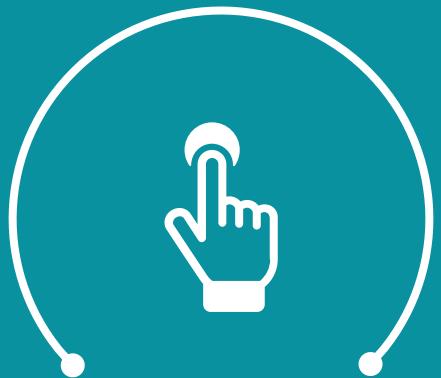


# Core Competency



# ENGINEERING SERVICE

## Approach to R&D Projects



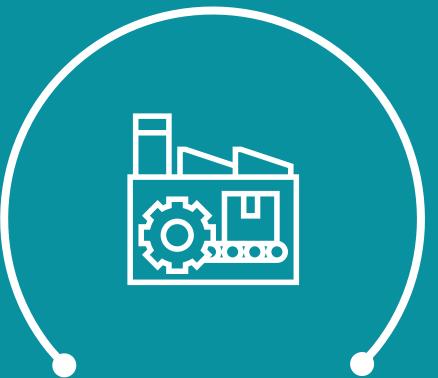
### Feel

We take the time to understand your needs and your aspirations for **product design**. Our prototypes help to get **real-life touch and feel** of your products



### Field

We visit locations where products are available to **observe the products** and take feedback. We **engage with users** to get a better understanding of their needs



### Floor

We get on the shop floor to understand for **thorough examination of application study, get insights and ensure the designs are manufacturable**.

# Engineering Services

## 2D to 3D Conversion

Conversion of 2D drawings from the print, dwg/dxf or image format to high quality feature based parametric 3D models is our expertise area.

## 3D to 2D Conversion

There is an immense need in the industry for development of 2D drawings from the models generated by designers. Typically for reverse engineered and concept models, there is a need to create product and manufacturing drawings as per the sample drawings or drawing generation standards. Toolabs helps companies in this niche area by providing deep engineering and CAD tool expertise for delivery of product drawings.

## 3D Parametric Solid and Surface Modeling

We have expertise and facility to generate 3D feature based parametric models (with part history) for casting, sheet metal components, plastic products, etc. We bring in value by generating models based on the product idea, arriving at various concept models and incorporating functional design and safety standards.

## Reverse Engineering

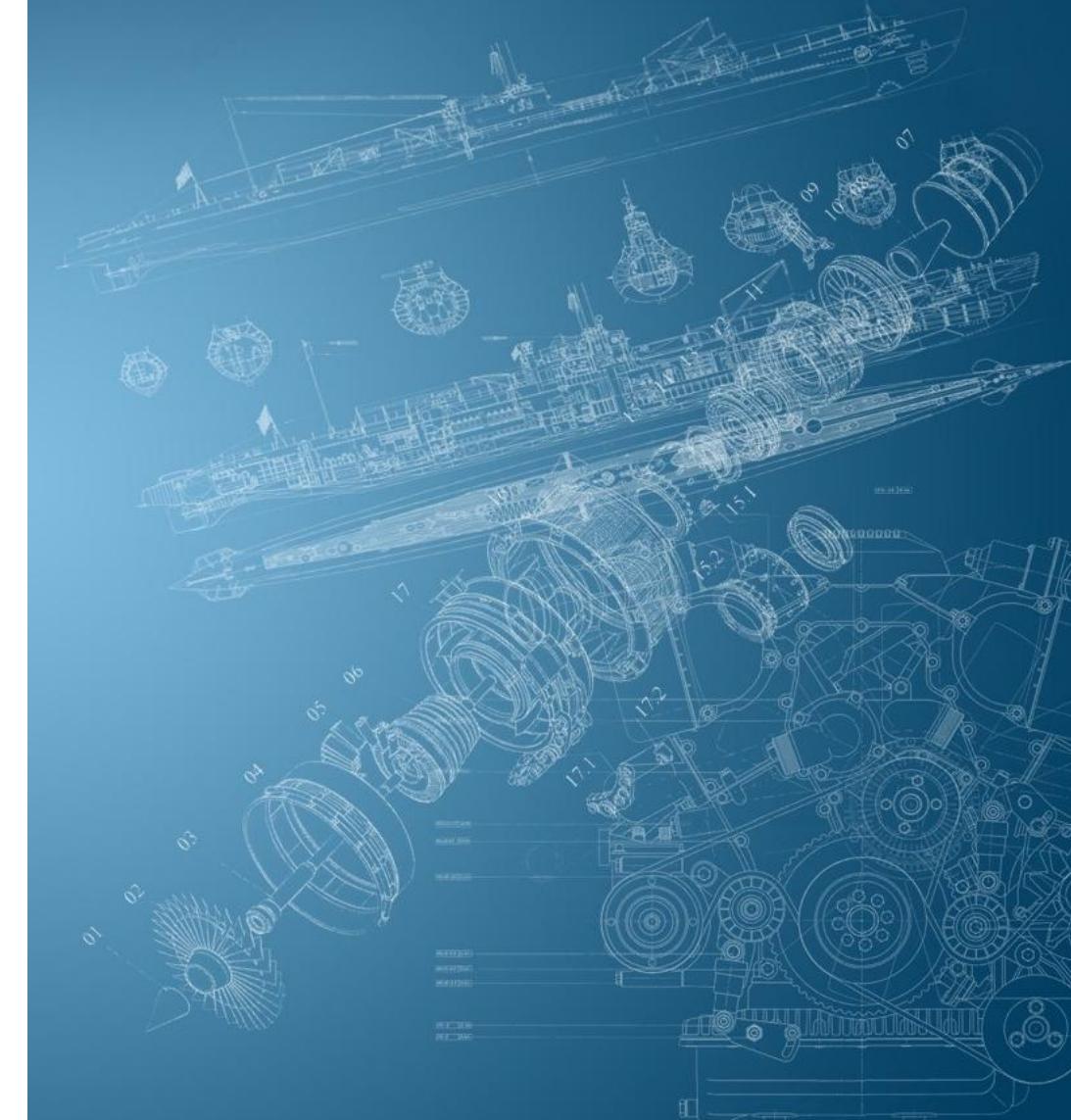
Reverse Engineering techniques are effectively used in scenarios where physical models may require digital interpretation for enhancing or modifying the product to suit a different segment/application. We convert the given physical models or image files of the product to digital models with accuracy and integrity.

## Surface Modeling

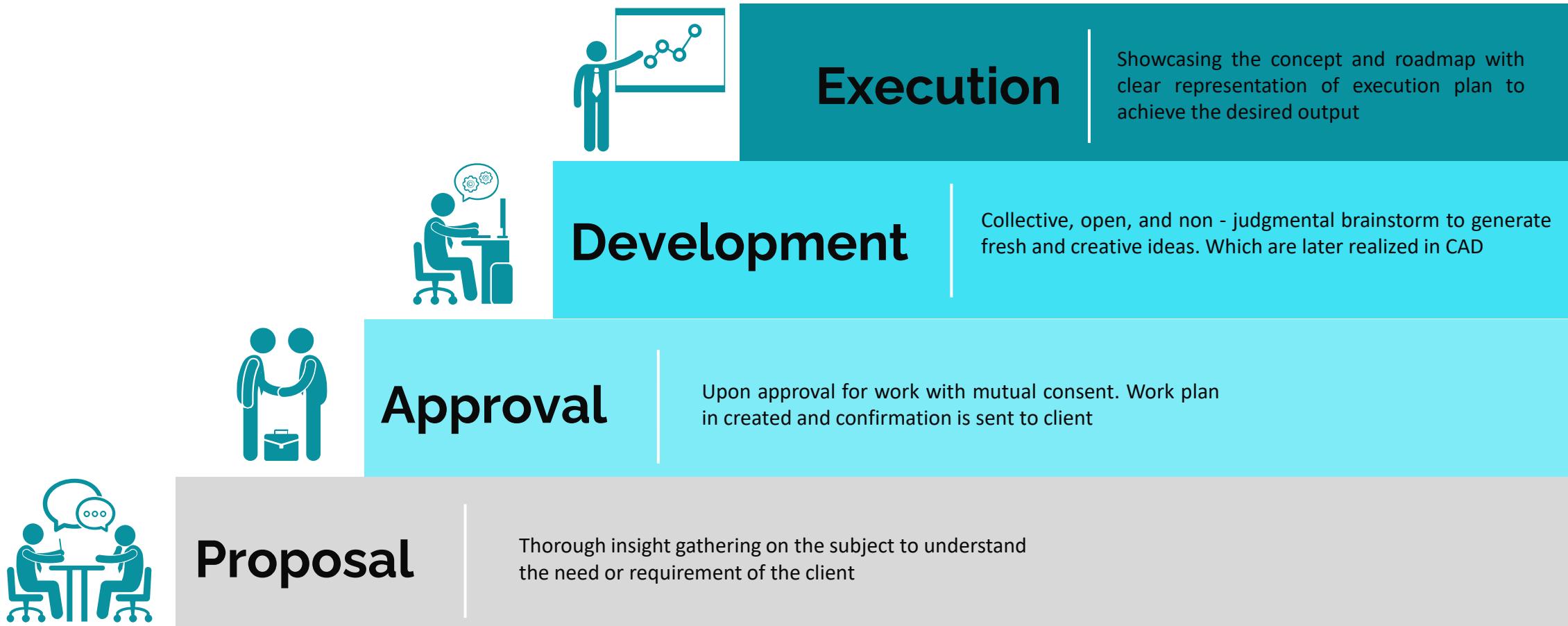
Innovation and creativity are the two vital needs of the industry and we help companies by improving the aesthetic appeal of their products. In Surface modeling our product design team involves in generating aesthetic features to improve the styling and appearance of the products. We provide the product concept for review and presentation and also create animation for realistic appeal. The presentation can be delivered in video files as well as PowerPoint presentations.

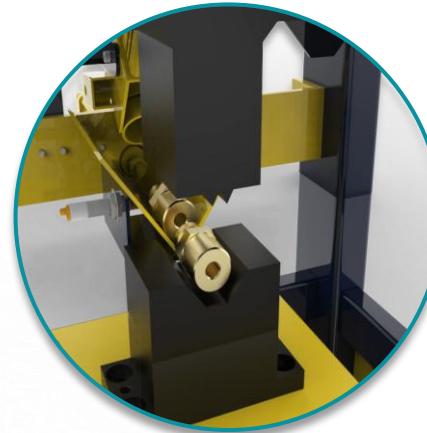
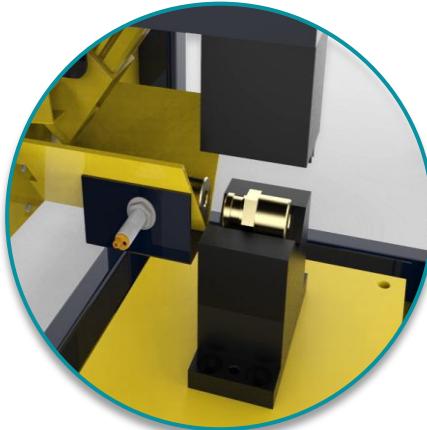
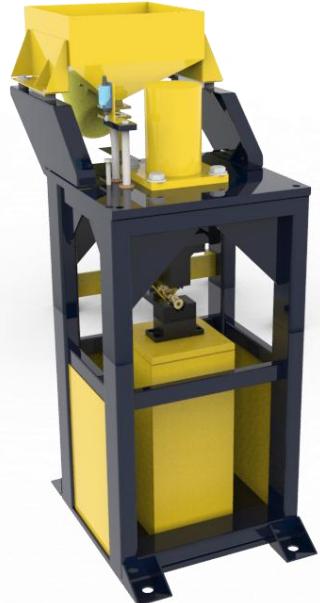
## Assembly Modeling

Product designers produce General Assembly layout (Skeleton Layout) of the product to be manufactured. We have expertise to develop the assembly from the given layout, using top down configuration, interference detection check and ensuring physical interaction of components using physical dynamics. We create multiple configuration of the assembly, apply corresponding materials to the components, and generate assembly drawing with Bill of Materials and recommendations based on customer input.



# Our Process



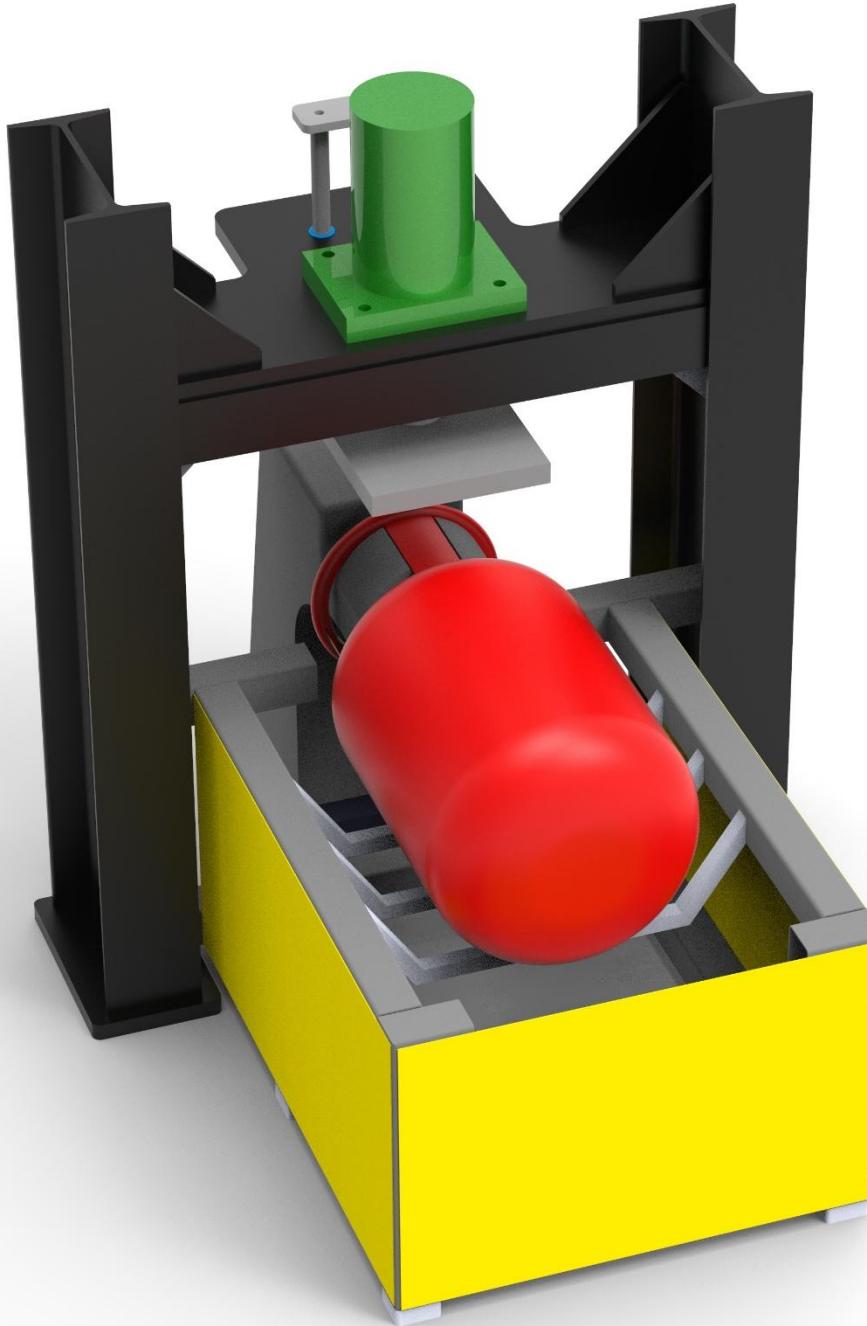


## Project

### Valve Crushing Machine

#### About Project

Cylinder Valve Crush Machine Is a fully automated special purpose machine designed to replace manually operation used to crush domestic cylinder valves. It is capable of crushing valves at the rate of 200 - 250 pieces per hour which enables high productivity.



# Project

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Number Punching Machine

## About Project

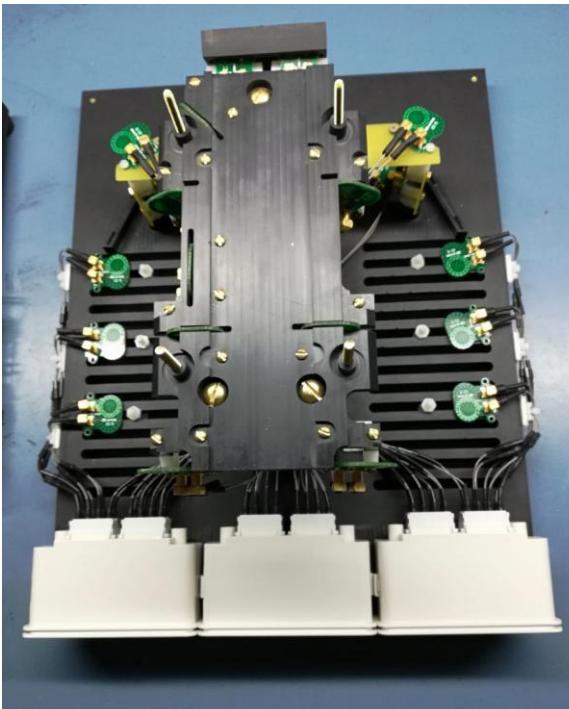
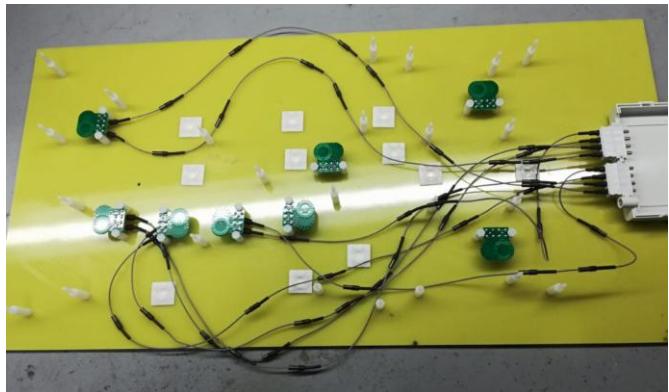
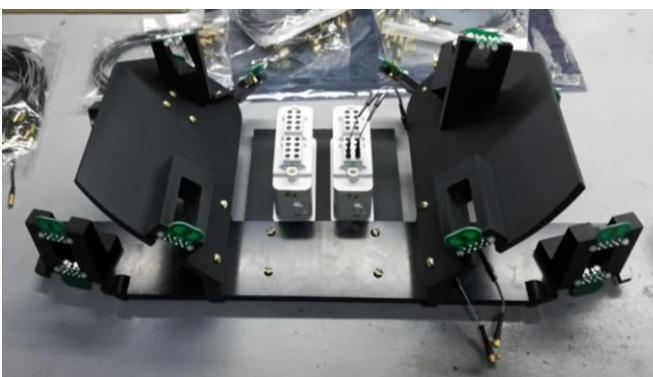
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Number Punch Machine is a custom built special purpose machine to punch serial number on the domestic cylinders. This machine enables the user the ease of operating and safely punch the required numbers effortlessly.



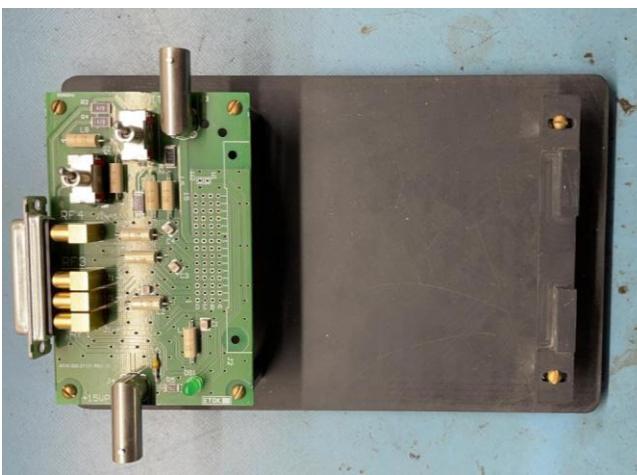
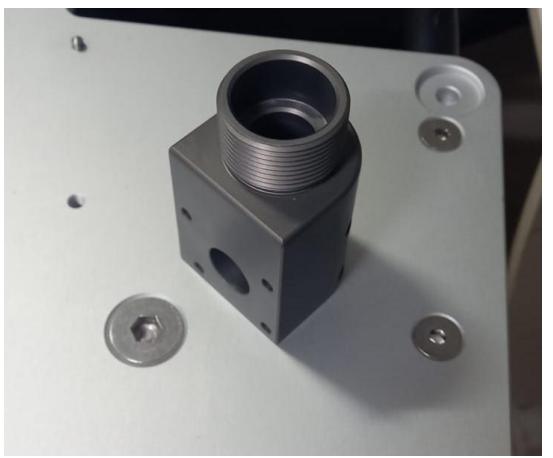


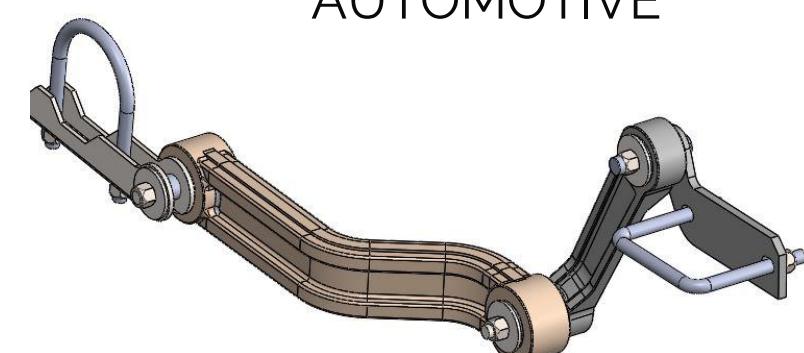
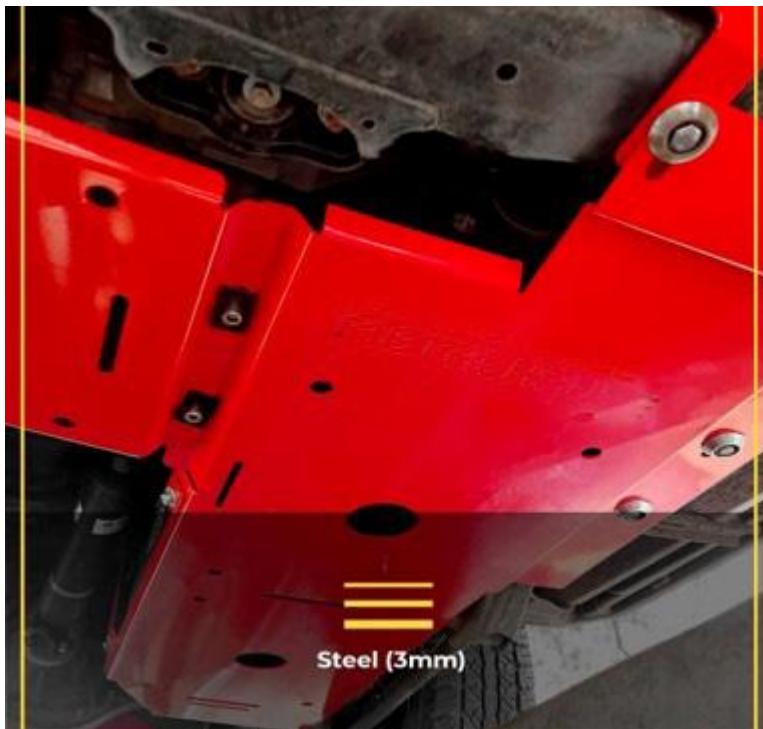
## Medical Fixtures



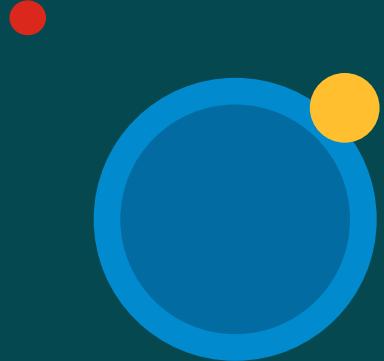


# Medical Fixtures





AUTOMOTIVE



# Contact Us

*A NEW BEGINNING AWAITS...*



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