



Eager Towards Innovation...!



V-Medhas Technologies Pvt Ltd

Company Profile



ABOUT COMPANY



- ❖ We **V-Medhas Technologies** started in 2016 with prime motto of Engineering, Manufacturing and factory automation solution to leading Manufacturing companies across the world
- ❖ V-Medhas is fully capable of giving end to end design support, Prototyping, New product development, Resource deployment, quality and inspection support, 2D drafting.
- ❖ Our service extends up to all domains like Aero, Automobile, Special purpose machines, Machine tool and heavy machineries, Semiconductor, Locomotive, Medical Equipment's, Conveyors and packaging machineries.

OUR MISSION AND OBJECTIVE



MISSION

CUSTOMER COMES FIRST; Commitment to providing excellence To help customers achieve their business objectives by providing best in class consulting innovative, Cost-effective design and manufacturing solutions and services

OBJECTIVE

Provide most innovative reliable services to our valuable customer to satisfy their need at its best

RESOURCE POOL



V Medhas has small efficient team under highly skilled SME guidance to cater our customer needs with high rate of quality factor and innovation.

Our technical team consists of

1 Subject Matter Experts- 25 Years of experience SPM design.

1 Team leads- 10 years of experience in SPM

3 Design Engineers- 3 to 5 years of experience

5 CAD engineers- 1-2 years of experience

OUR CLIENTS



ITC Limited



DMG MORI

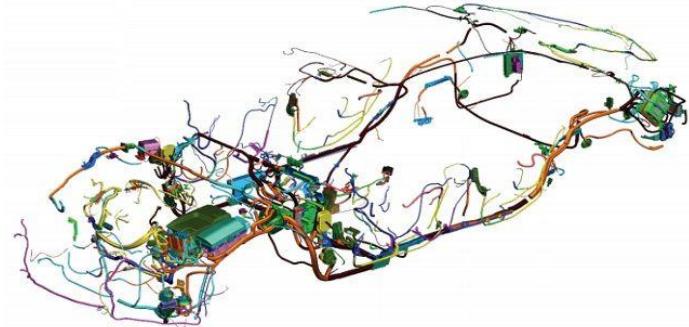
DR.FRITSCH
INDIA

DOMAIN EXPERTISE



V Medhas is known for providing excellent and unique design solutions to it's customer in the field of

- **Machine Designing**
- **Reverse engineering**
- **2D drafting**
- **BIW design and drawing**
- **Electromechanical Engineering (EME)**



Aravind . K

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TEAM CAPABILITIES

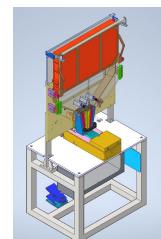
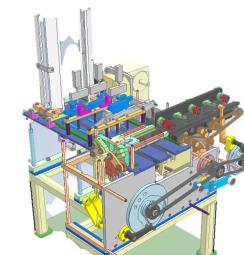
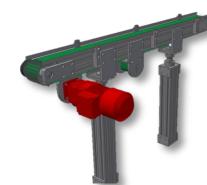
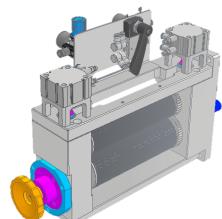
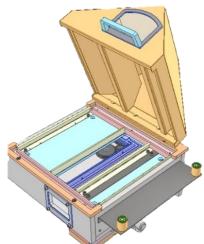
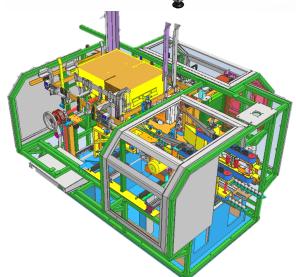
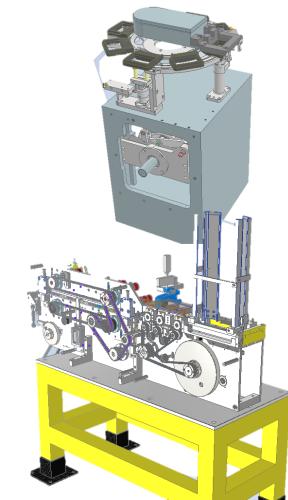
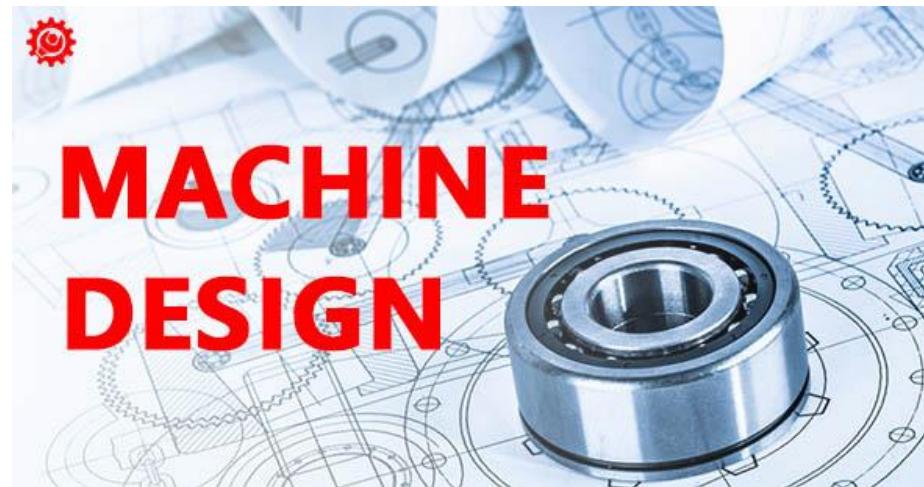
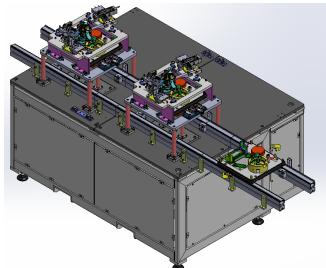
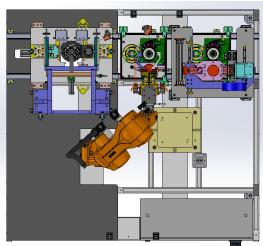
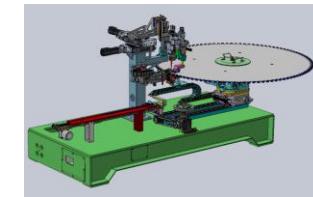
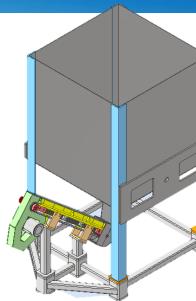
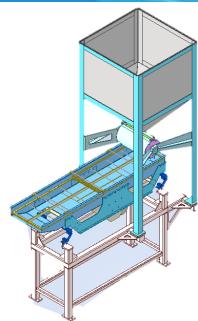
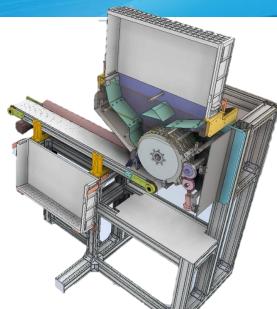
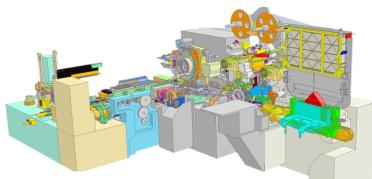


- ❖ Design of modular machine units for special purpose machines for speeds upto 400 products per minute
- ❖ Conceptual, preliminary, and detailed review of complete kinematics using Inventor design and simulation.
- ❖ Well versed in new product development in various domains and are passionate for on time delivery with quality
- ❖ Offer wide array of computer Aided design services such as mechanical, architectural and structural drafting, 2D paper to 3D Cad conversion, reverse engineering and much more with impeccable quality, innovative solutions and most importantly the most feasible option to beat the cost for solution.

PROJECT DELIVERED SO FAR.



DESIGN PROJECTS



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REVERSE ENGINEERING AND DESIGN MODIFICATION FOR PACKING MACHINE



Machine Description: Cigarette Packing machine reverse engineering and design modification for new pack style

Machine Speed: 600 pack per min

Sub assemblies: 9 major sub assemblies (V-Medhas Scope)

Total no. of parts: 918 change parts

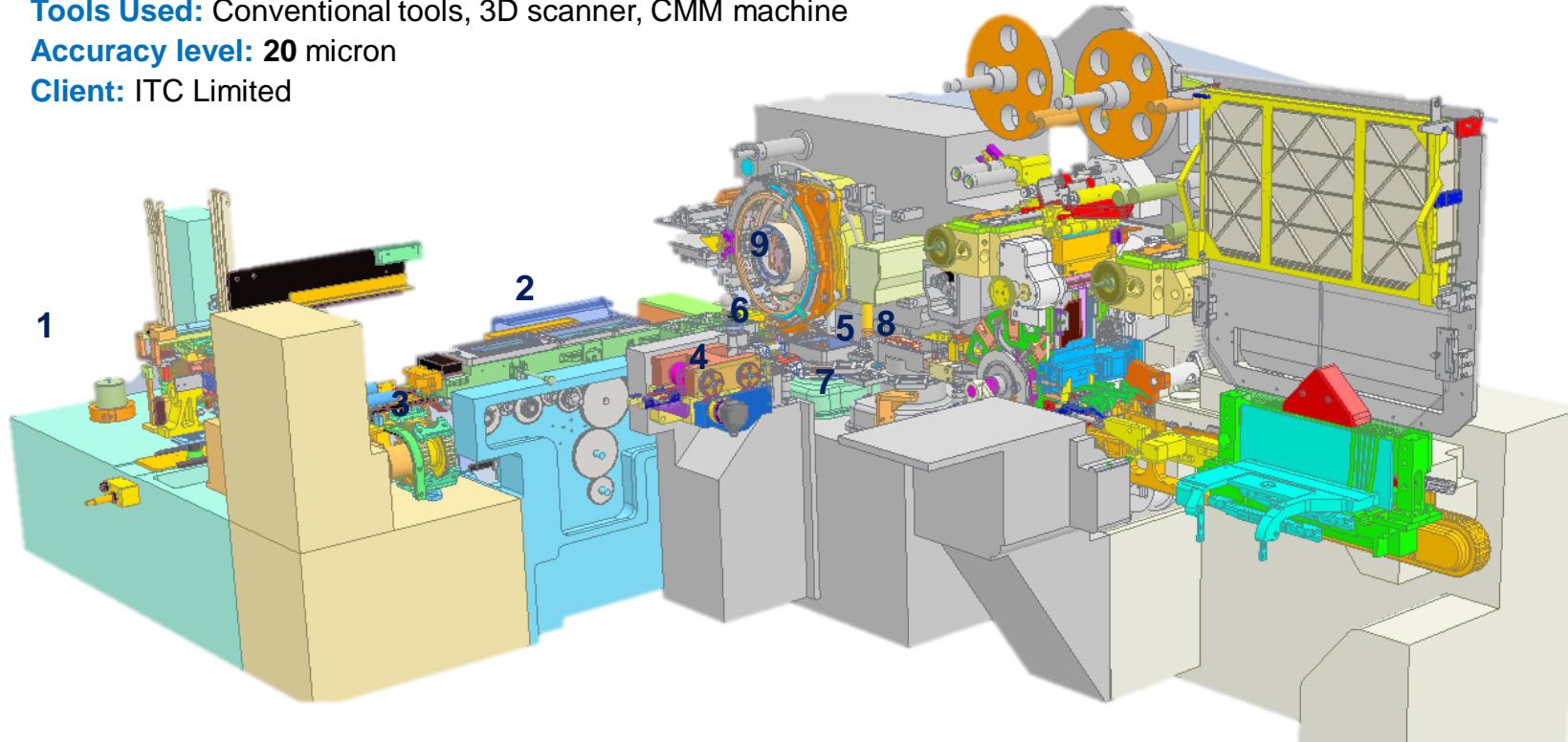
Duration: 2 months for reverse engineering, 1 months for design modifications, 20 days for drawings

Engineers supported: 1 Senior engineer, 2 engineers from V-Medhas 2 SME from Client.

Tools Used: Conventional tools, 3D scanner, CMM machine

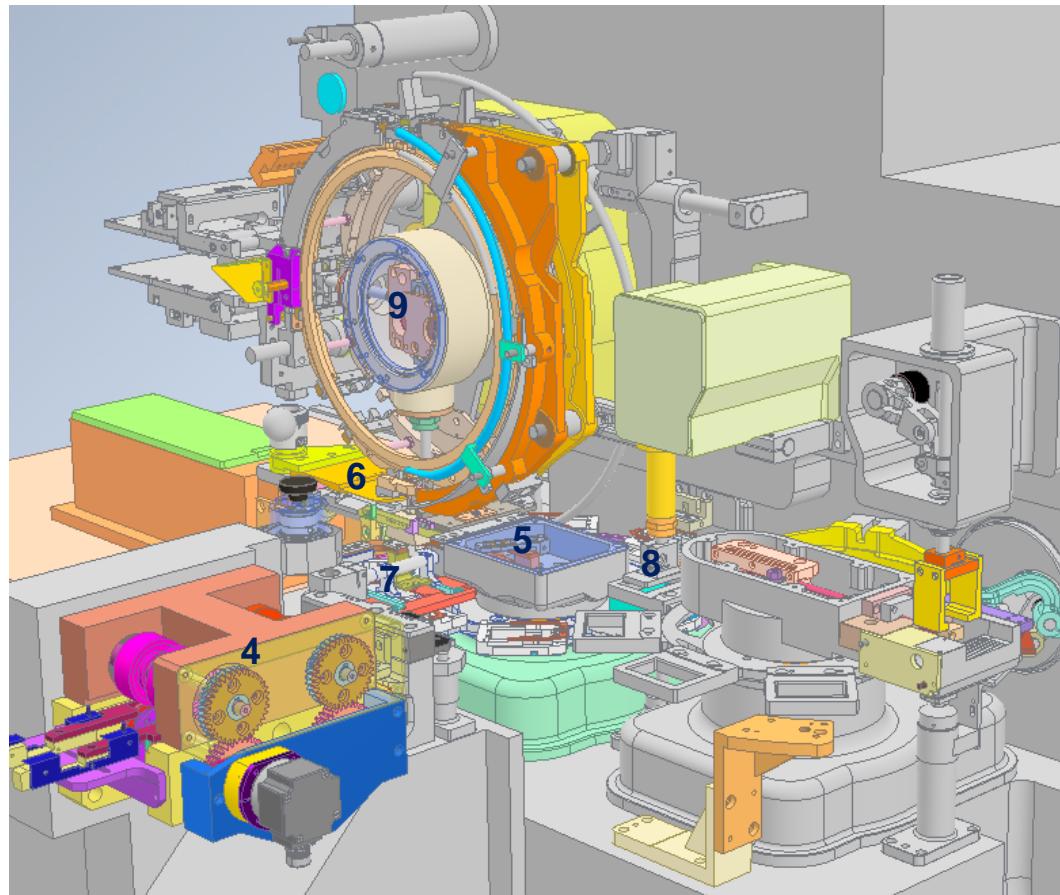
Accuracy level: 20 micron

Client: ITC Limited



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REVERSE ENGINEERING AND DESIGN MODIFICATION FOR PACKING MACHINE CONTD.,



DESIGN AND DEVELOPMENT OF LASER WELDING MACHINE



Machine Description: End to end design of Laser Welding machine

Machine capacity: 100mm to 1600 mm blade dia

Total no. of parts: 489

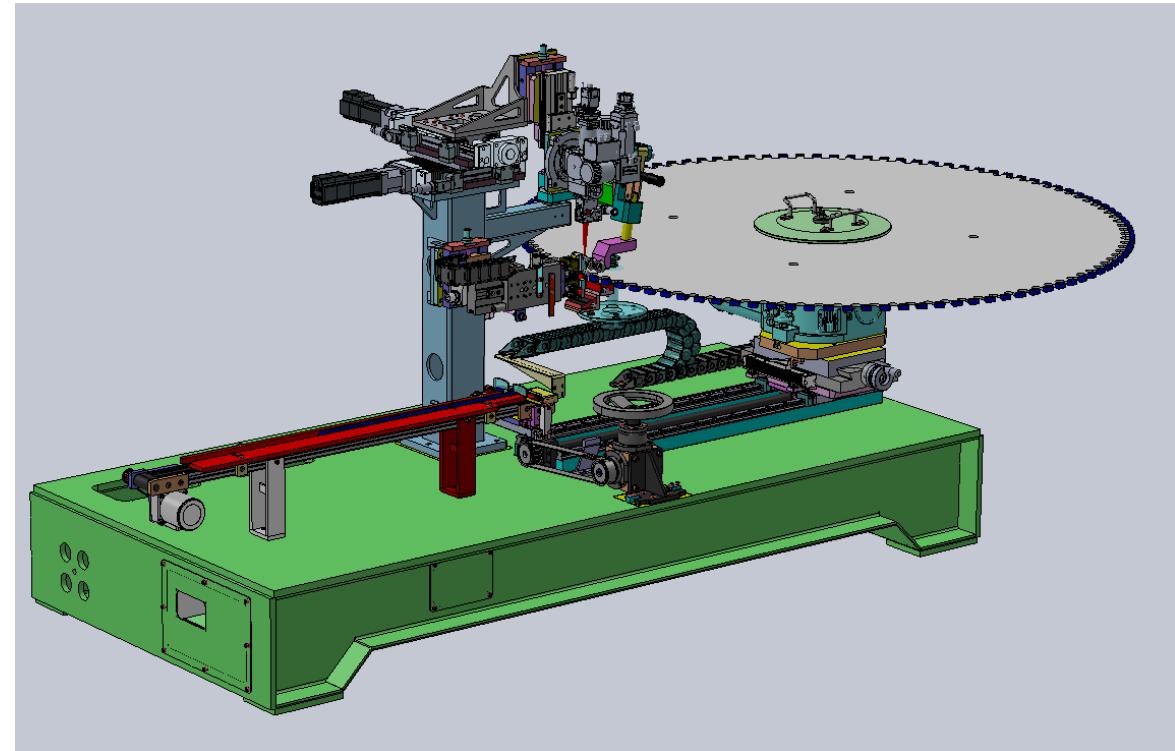
Duration: 3 months

Engineers supported: 3

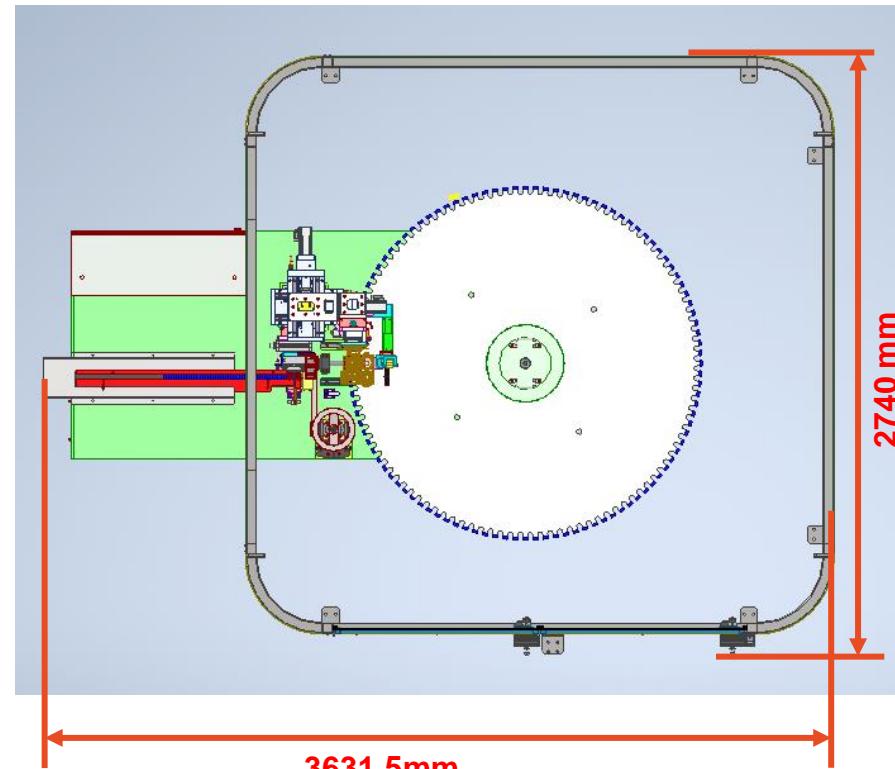
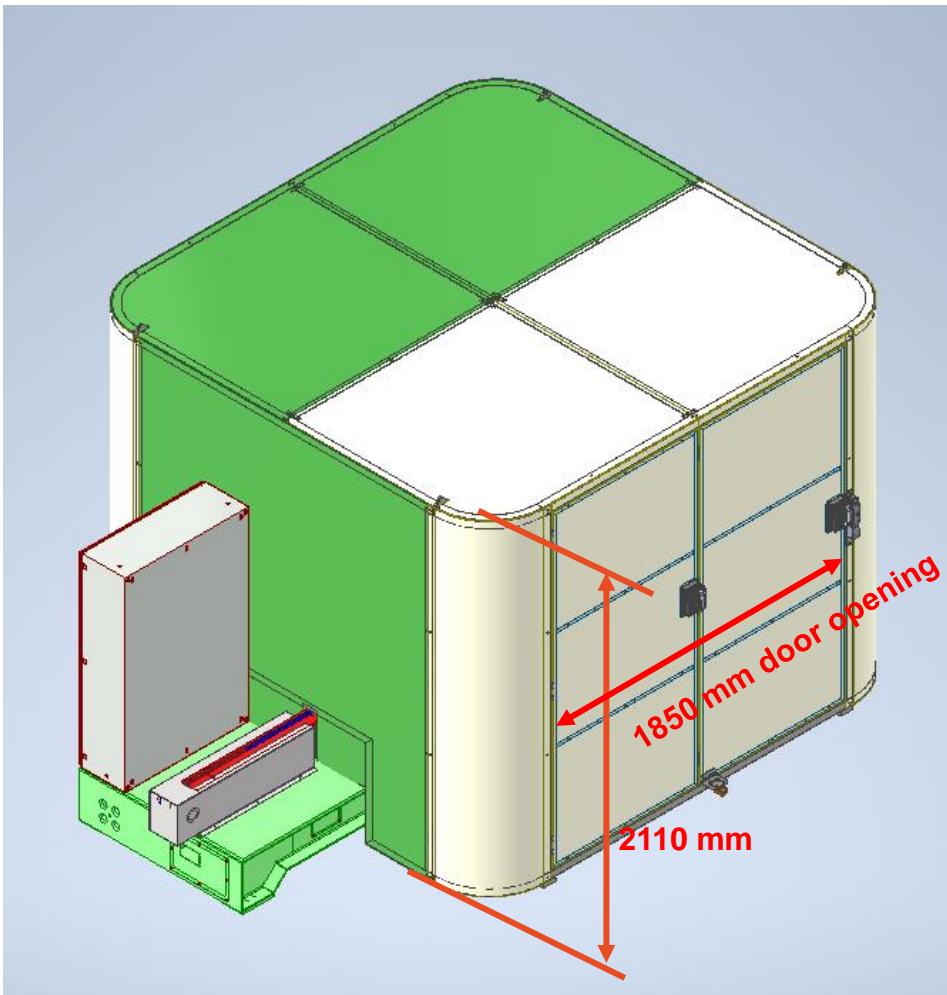
Tools Used: Solidworks

Machine Size: 3631.5x2740x2110

Client: Dr. Fritsch



DESIGN AND DEVELOPMENT OF LASER WELDING MACHINE



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CONVERSION AND DESIGN MODIFICATION OF CASE PACKER



Description: Converting existing 2D CAD to 3D parametric modeling and modify the design for new Outer format

Machine capacity:

Sup assemblies: 9

Total no. of parts: 695 + 297 change parts

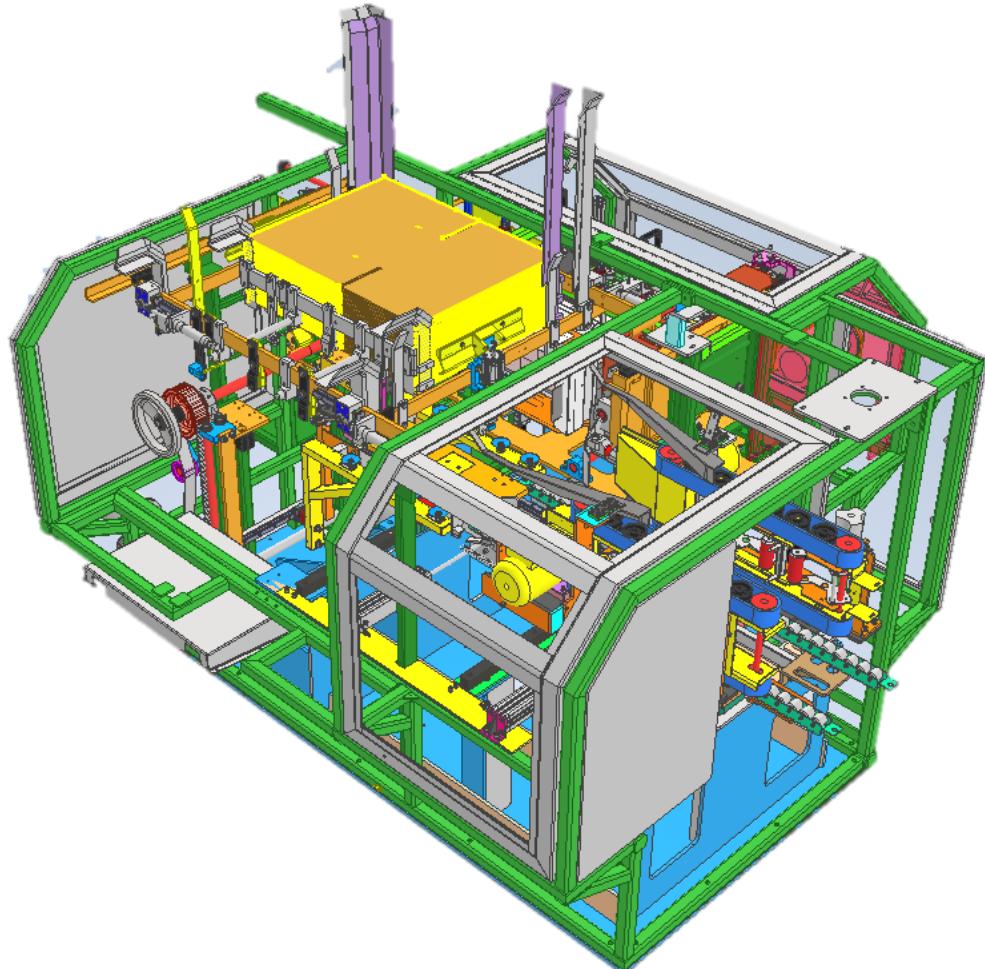
Duration: 4 months

Engineers supported: 3

Tools Used: Inventor + AutoCAD

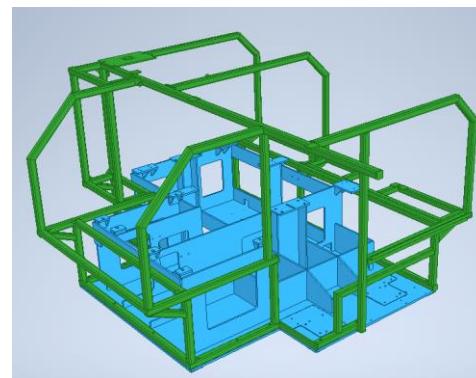
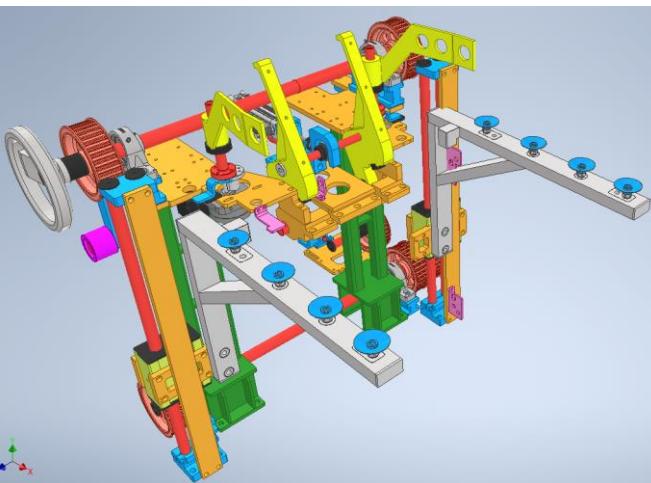
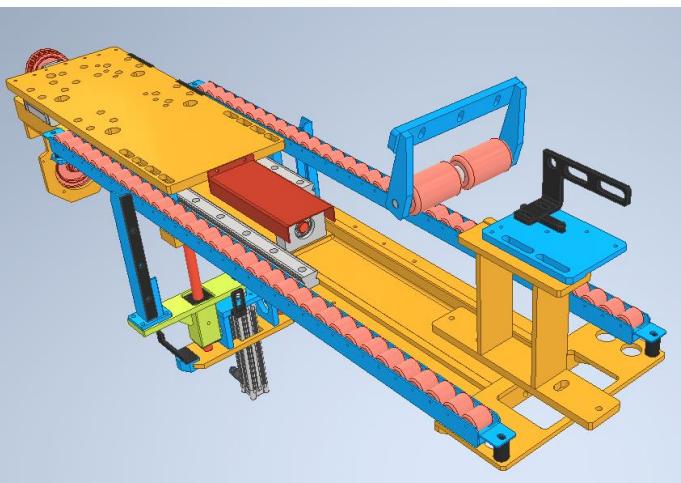
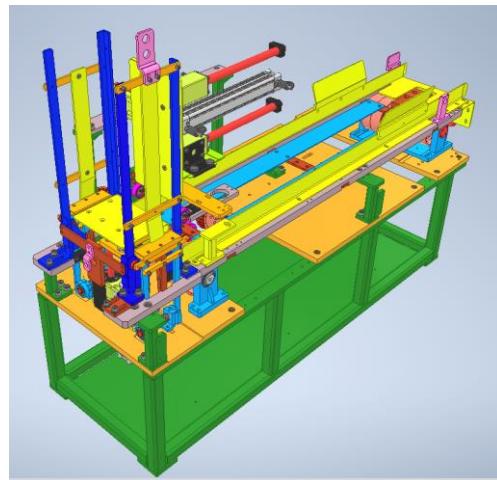
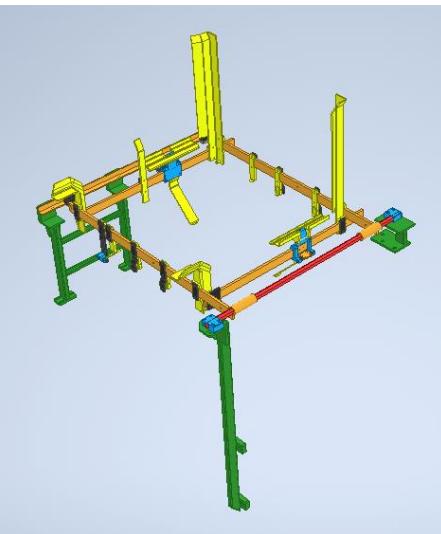
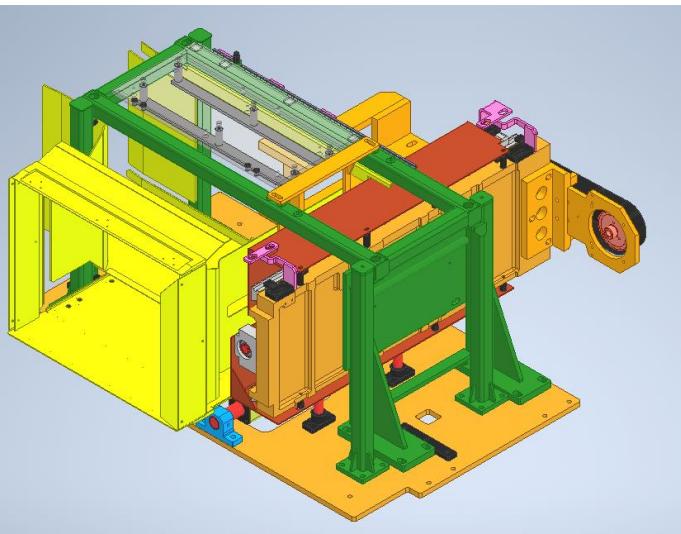
Machine Size:

Client: ITC Limited



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CONVERSION AND DESIGN MODIFICATION OF CASE PACKER CONNTD.,



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END TO END DESIGN OF FILTER ROD SLITTING MACHINE



Description: Filter rod slitting machine

Machine capacity: 400 rods per min

Sup assemblies: -

Total no. of parts: 393

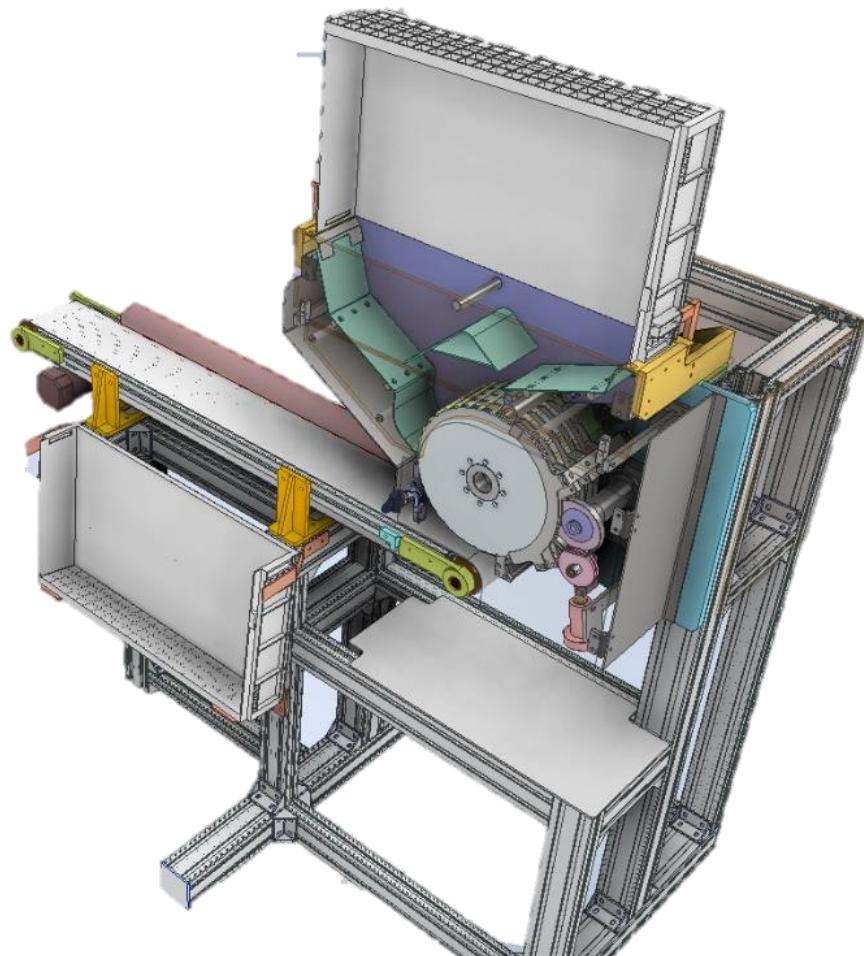
Duration: 2 months

Engineers supported: 2 people

Tools Used: Inventor

Machine Size:

Client: In house development



END TO END DESIGN OF ROLLER FORMING AND O-RING INSERT ASSEMBLY LINE



Description: ROLLER FORMING AND O-RING INSERT ASSEMBLY LINE

Machine capacity: -

Sup assemblies: 8

Total no. of parts: 418

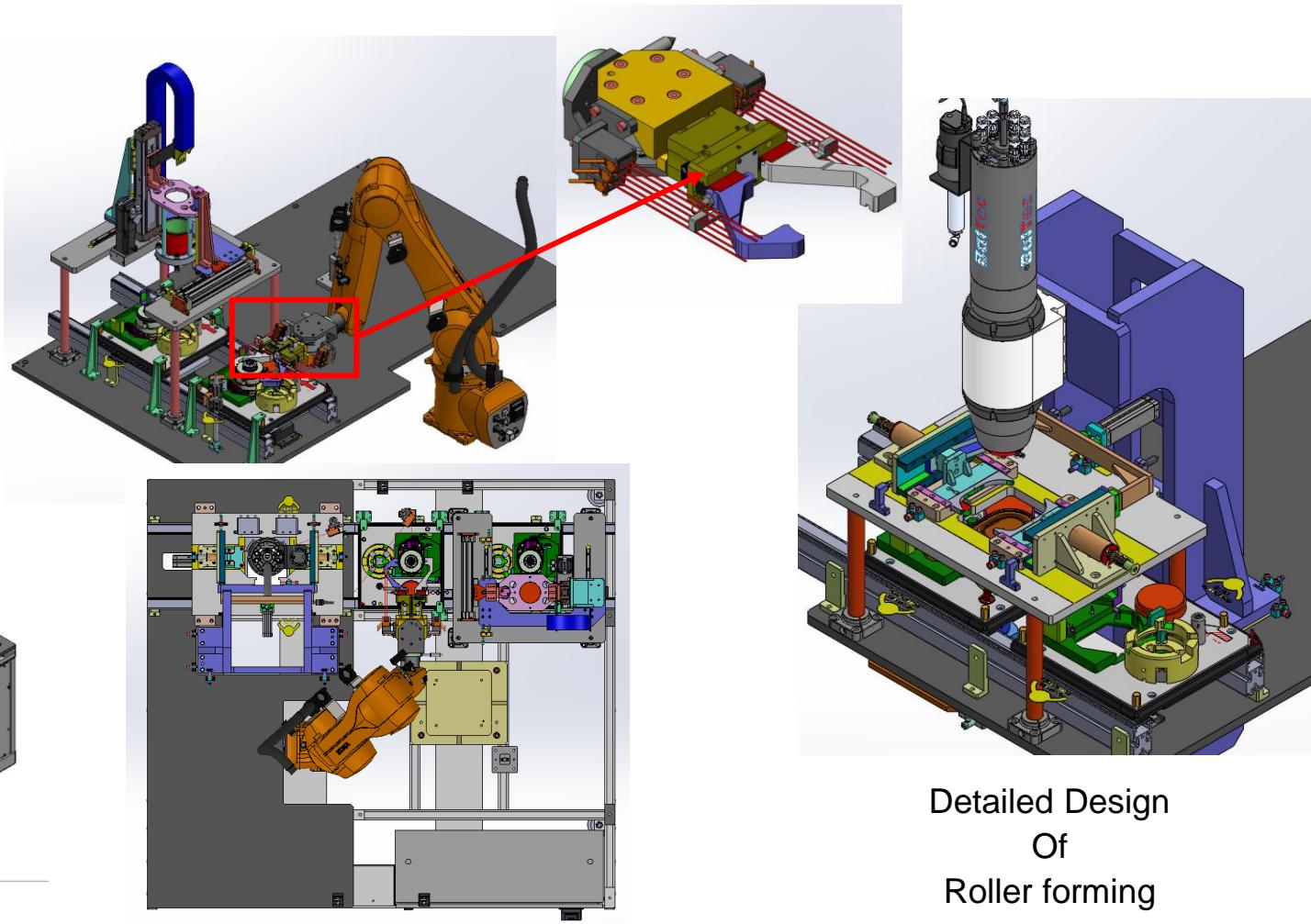
Duration: 2 months

Engineers supported: 2

Tools Used: Solidworks

Machine Size: -

Client: Mold Tek



Detailed Design
Of
Roller forming

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END TO END DESIGN PROBE TEST STATION FOR MOTOR HOUSING



Description: PROBE TEST STATION FOR MOTOR HOUSING

Machine capacity: -

Sup assemblies: 7

Total no. of parts: 285

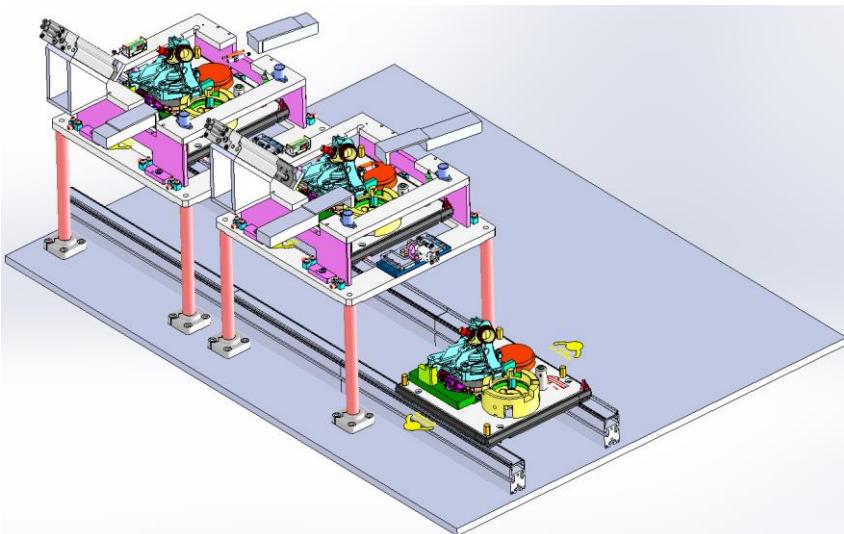
Duration: 2 months

Engineers supported: 2

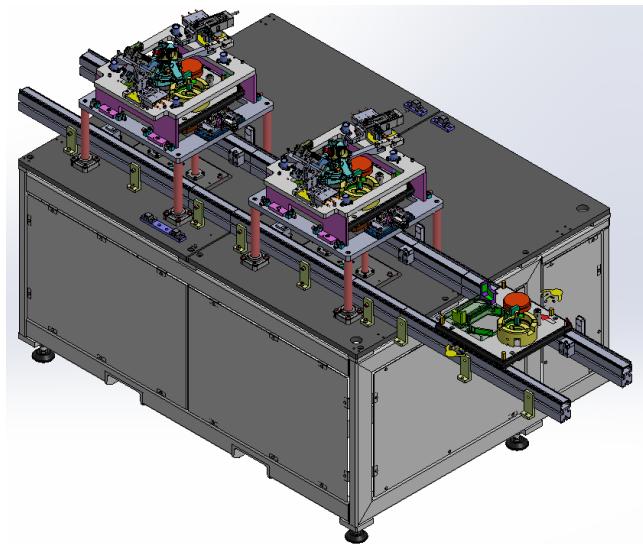
Tools Used: Solidworks

Machine Size: -

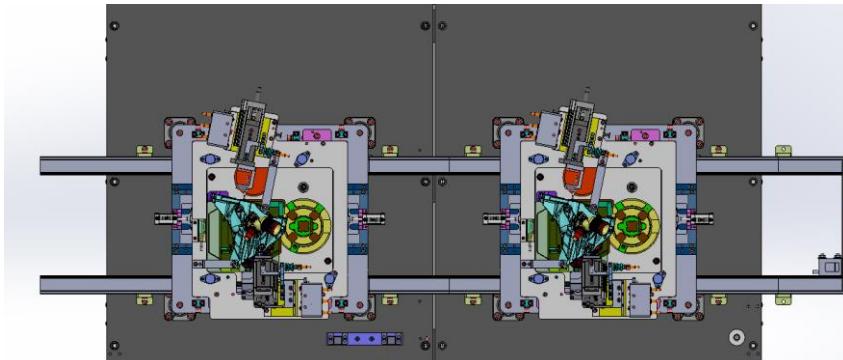
Client: Mold Tek



Concept Design



Detailed Design of Probe testing station



END TO END DESIGN FEEDER MACHINES



Description: Tobacco add back conveyors

Machine capacity: 8kg per hour

Sup assemblies: -

Total no. of parts: -

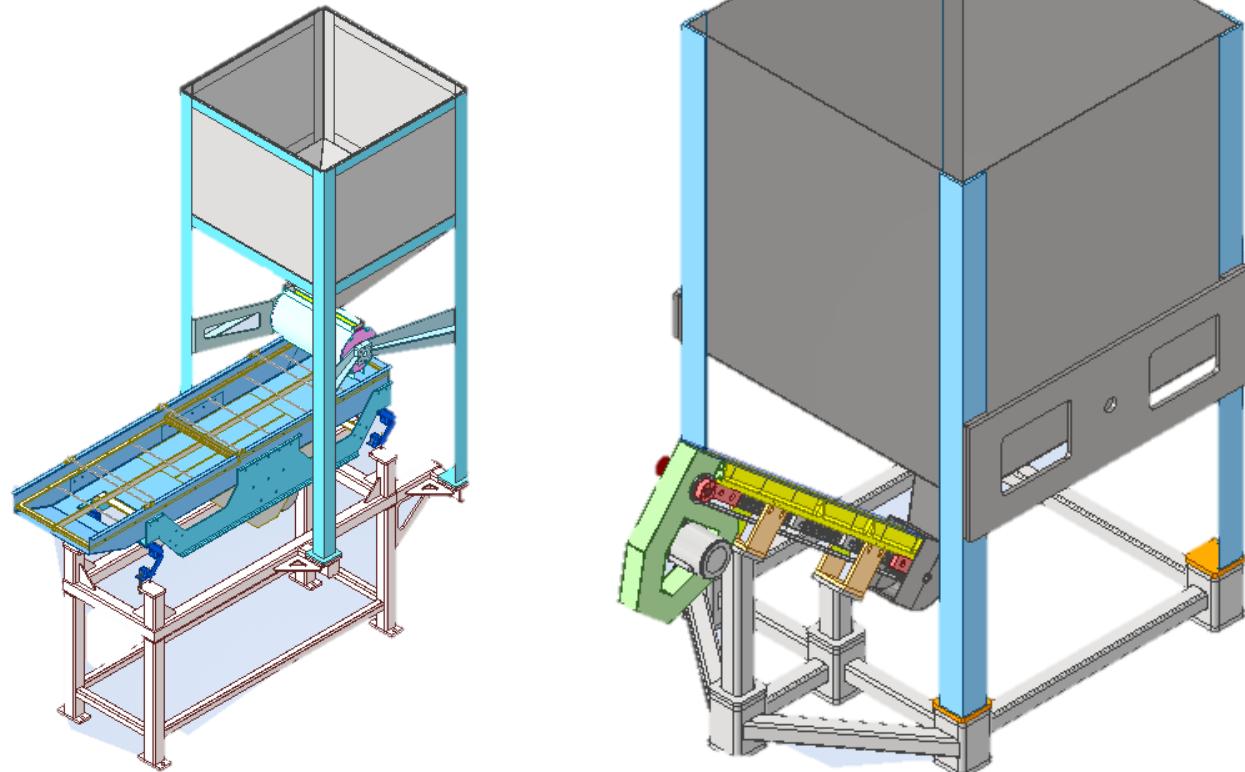
Duration: 2 months

Engineers supported: 1

Tools Used: Inventor

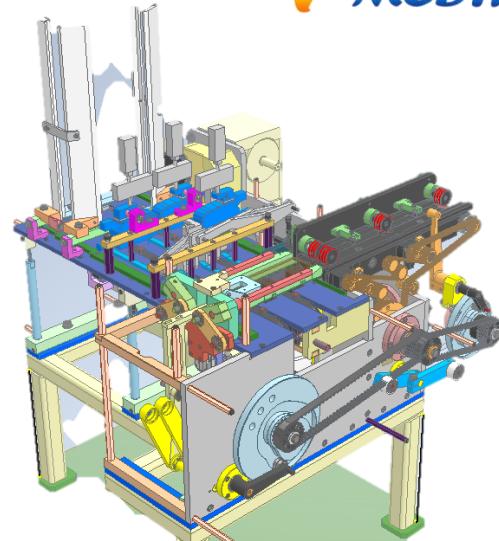
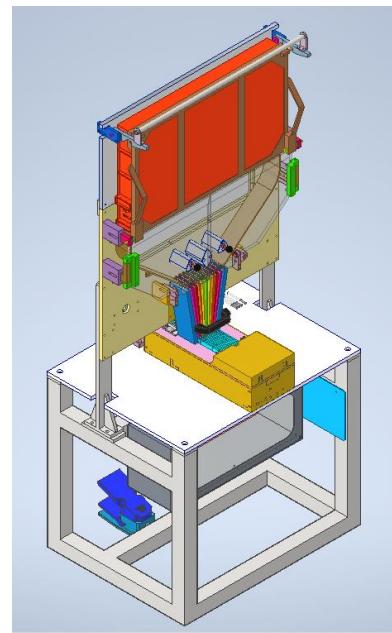
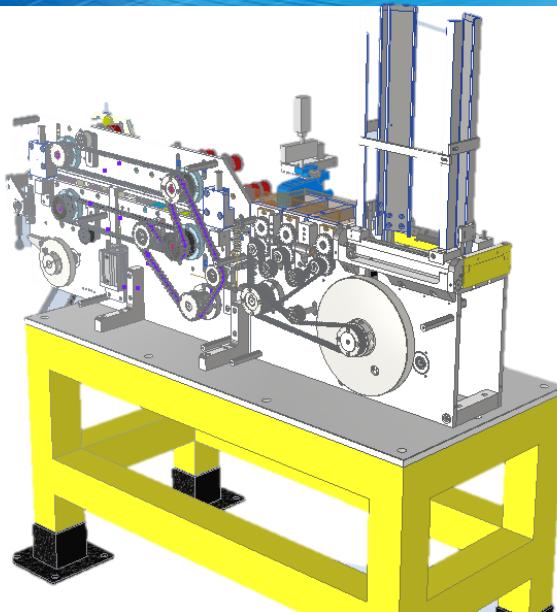
Machine Size: -

Client: In house development



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MODULAR DESIGN KIT EXECUTED FOR VARIOUS APPLICATIONS



Kit Description: Pack formation and transfer unit

Machine Speed: 120 pack per min

Total no. of parts: 412

Duration: 2 months

Engineers supported: 3

Tools Used: Inventor

Kit Description: Cig feeding kit

Machine Speed: 1000 rod/min

Total no. of parts: 112

Duration: 1 month

Engineers supported: 2

Tools Used: Inventor

Kit Description: Under development

Machine Speed: NA

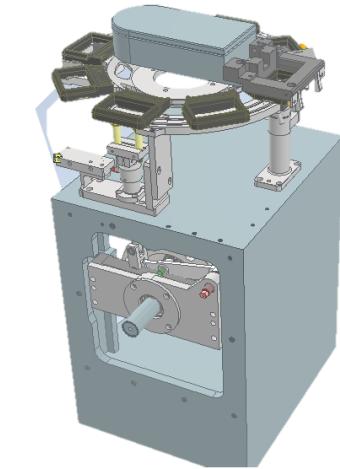
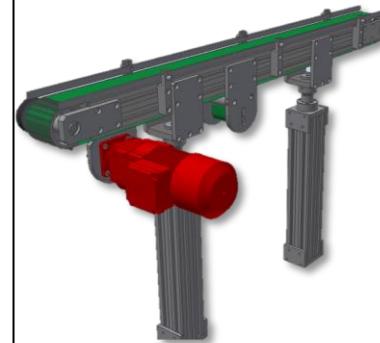
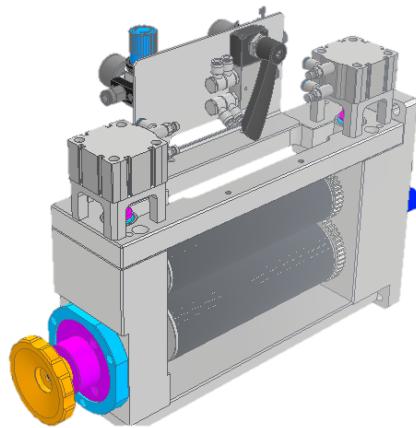
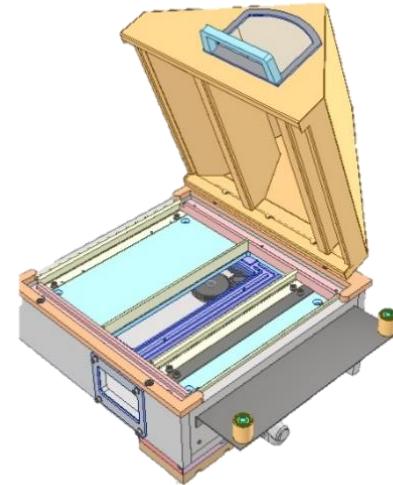
Total no. of parts: NA

Duration: NA

Engineers supported: NA

Tools Used: NA

Modular design kit executed for various applications contd.,



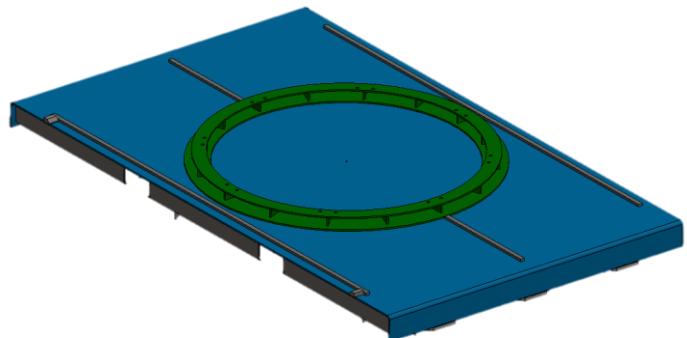
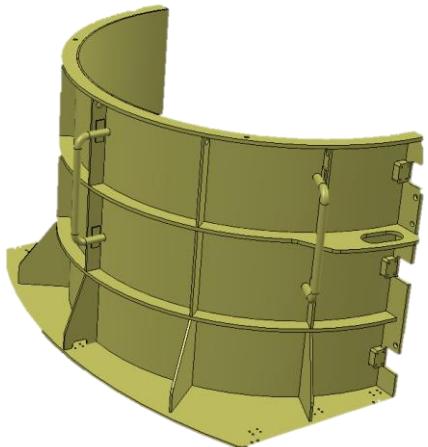
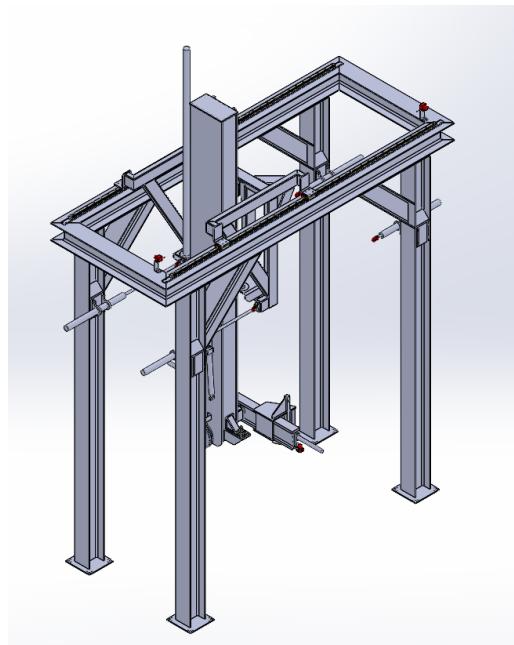
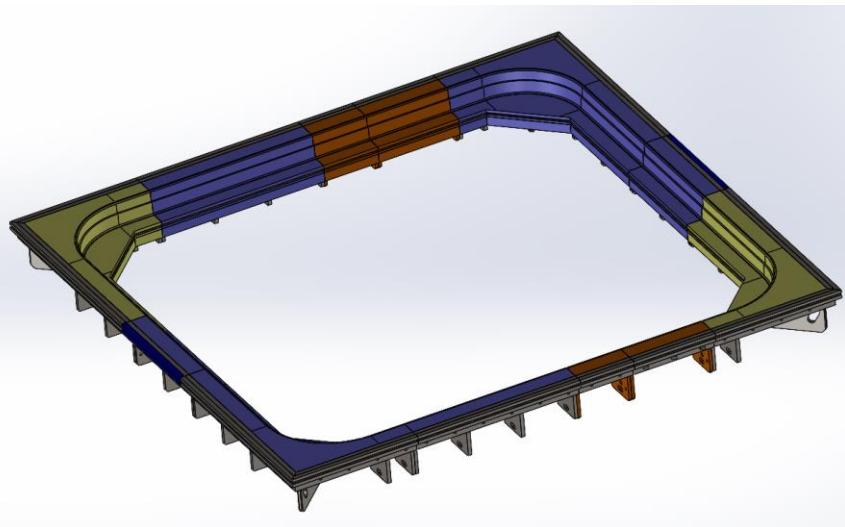
Kit Description: Disk spraying kit
Machine Speed: 700 lpm
Total no. of parts: 71
Duration: 15 days
Engineers supported: 1
Tools Used: Inventor

Kit Description: Crimping roller unit
Machine Speed: 30 m/min
Total no. of parts: 45
Duration: 15 days
Engineers supported: 1
Tools Used: Inventor

Kit Description: Conveyor unit
Machine Speed: 300 RPM
Total no. of parts: 53
Duration: 15 days
Engineers supported: 1
Tools Used: Inventor

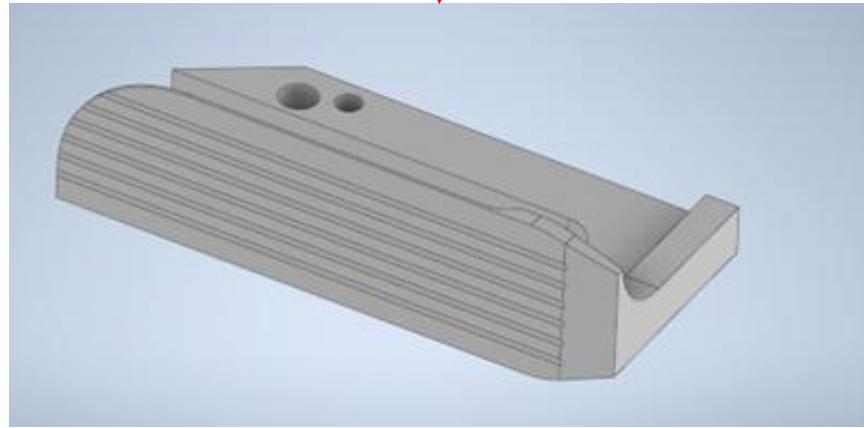
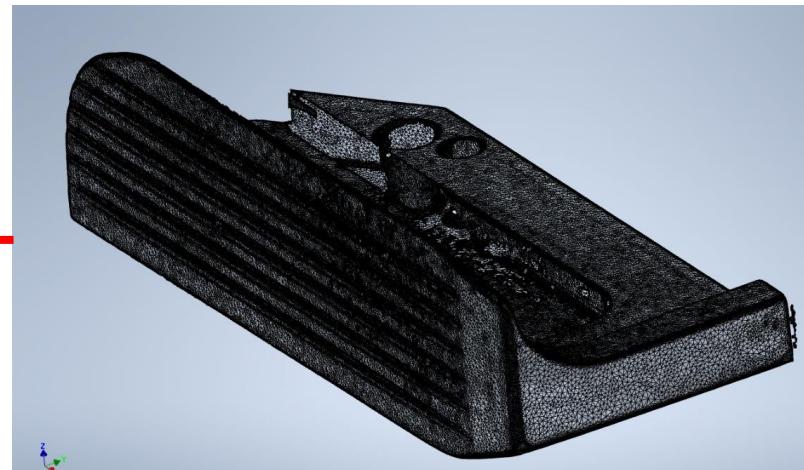
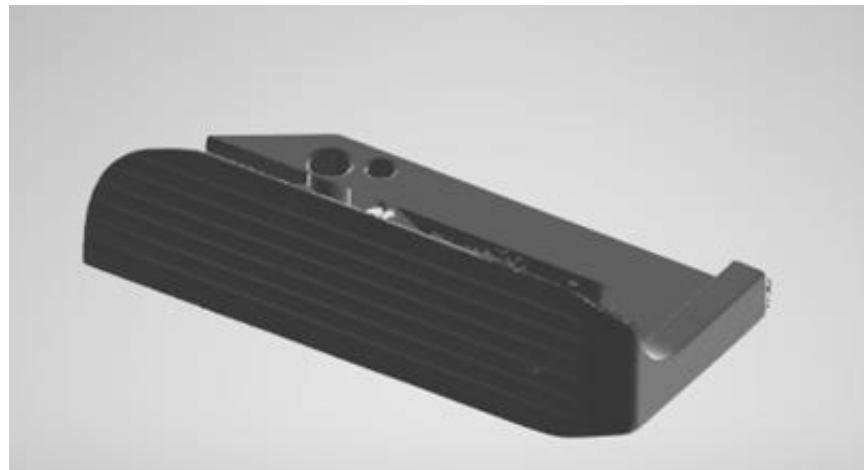
Kit Description: Indexing Turret
Machine Speed: 150 pack/min
Total no. of parts: 48
Duration: 15 days
Engineers supported: 1
Tools Used: Inventor

Mold Design- Client GCI export



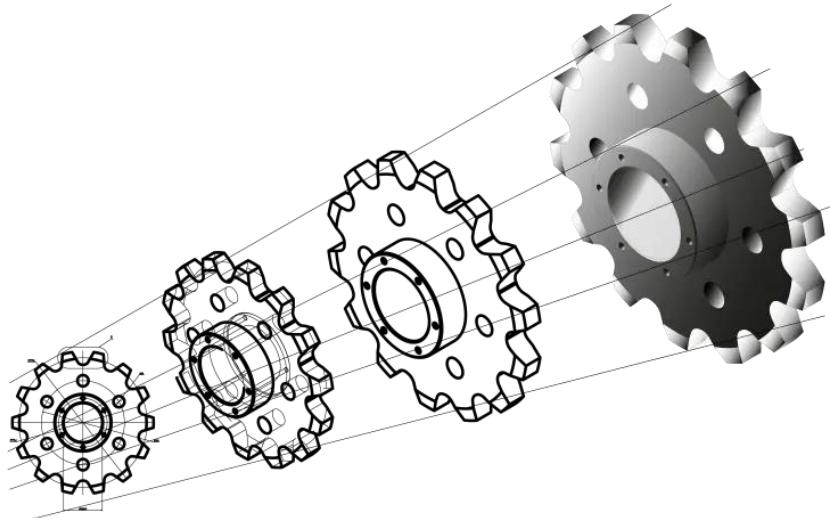
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3D scan to parametric modelling



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2D Drawing support

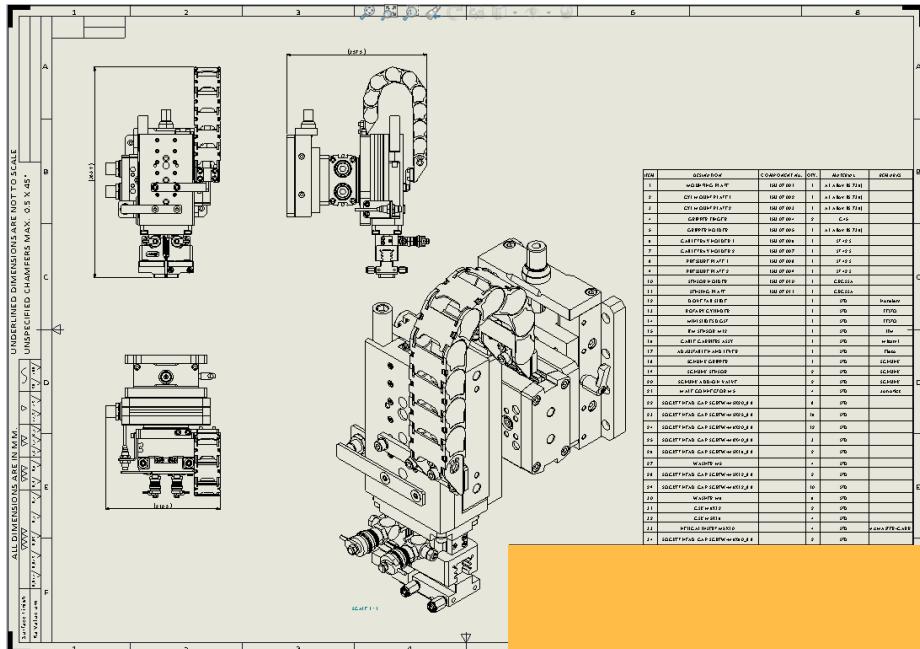
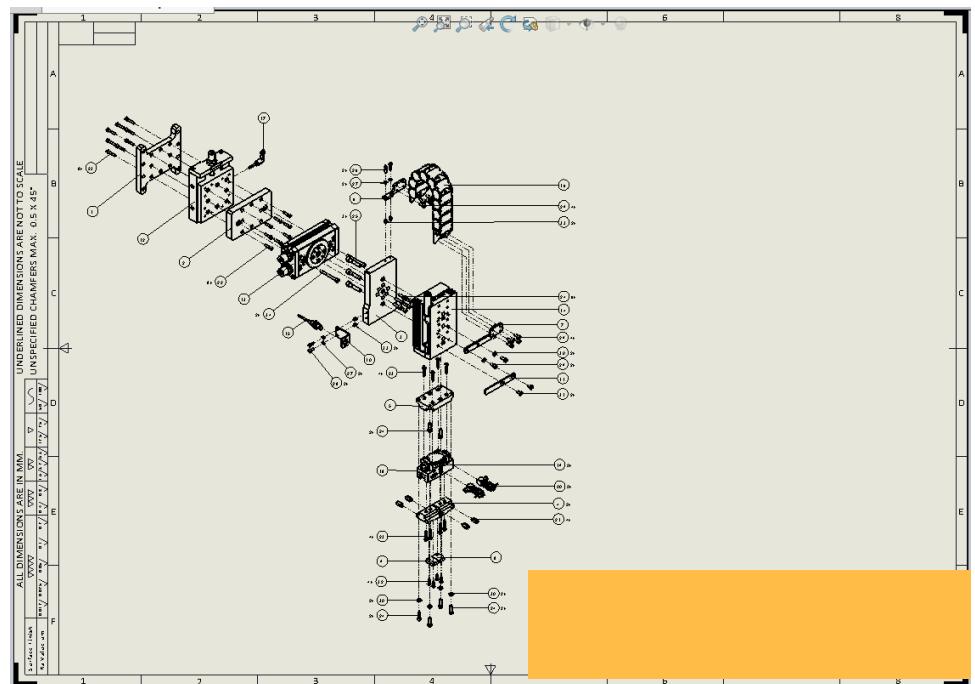


In V-Medhas we supported various 2D drawing work for SPM industries. In 6 years, we developed our own execution and review process for 2D drawing creation, which yields the quality of drawings and minimize the errors.

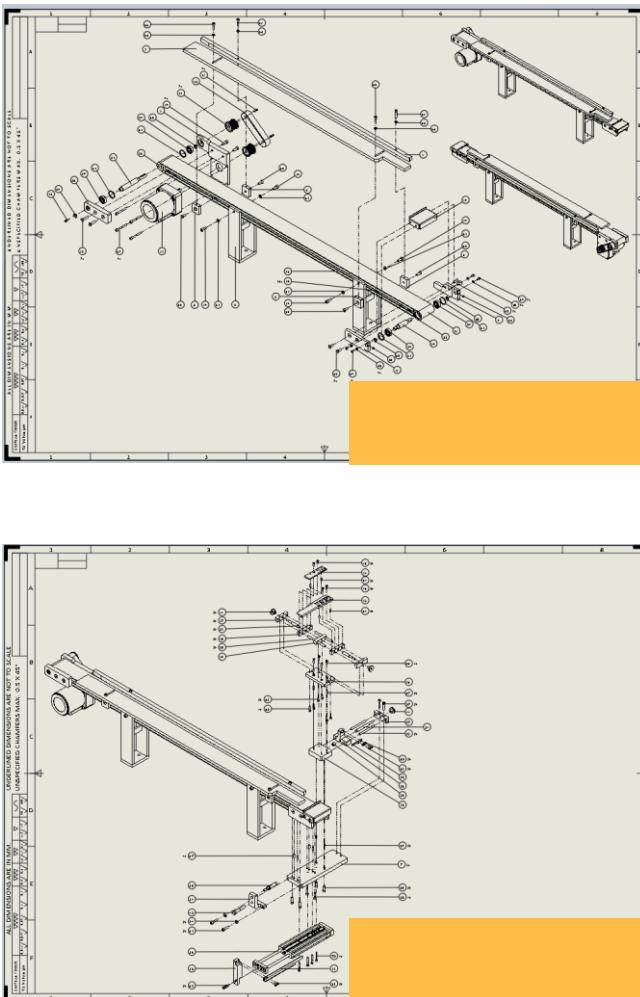
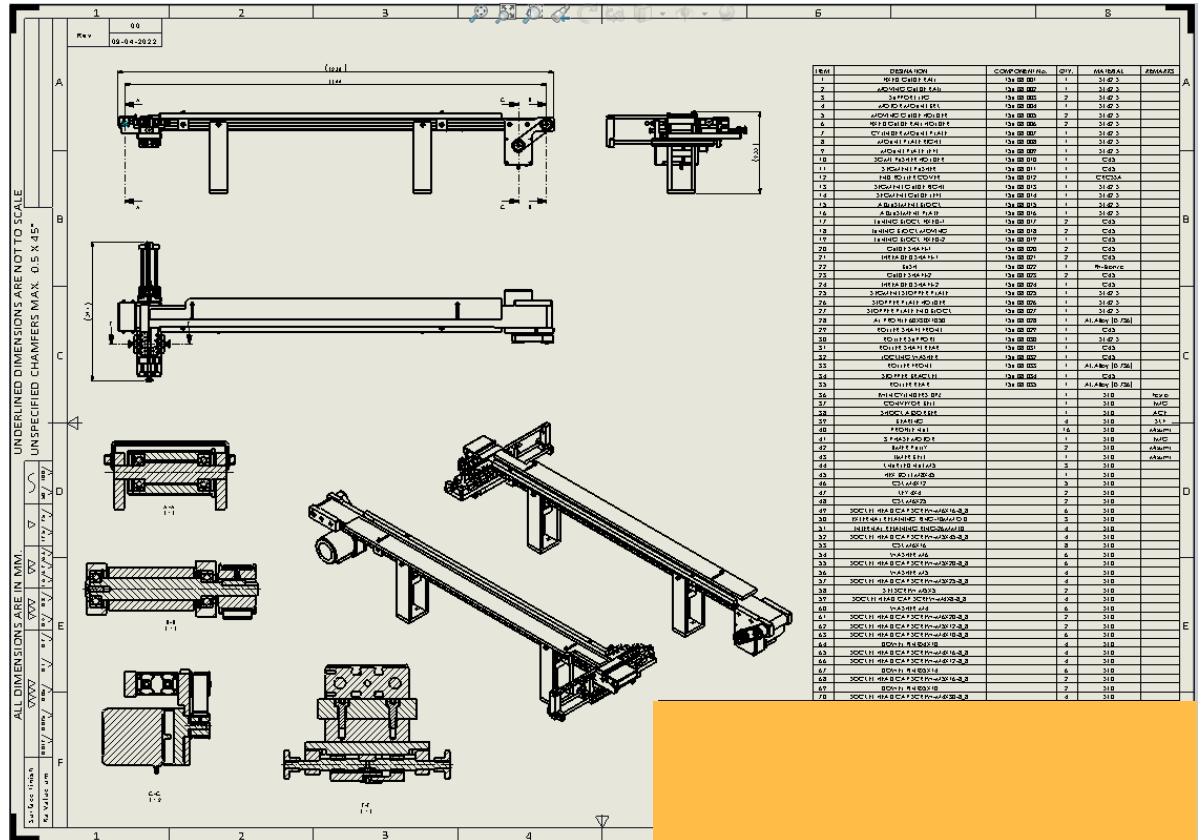
Our team is expertise with Part drawings, welding drawings, assembly drawings, Cam and gear drawings, Sheetmetal drawings with proper GD&T

Typical examples listed in next slides

2D Drawing support_ Assembly Drawings

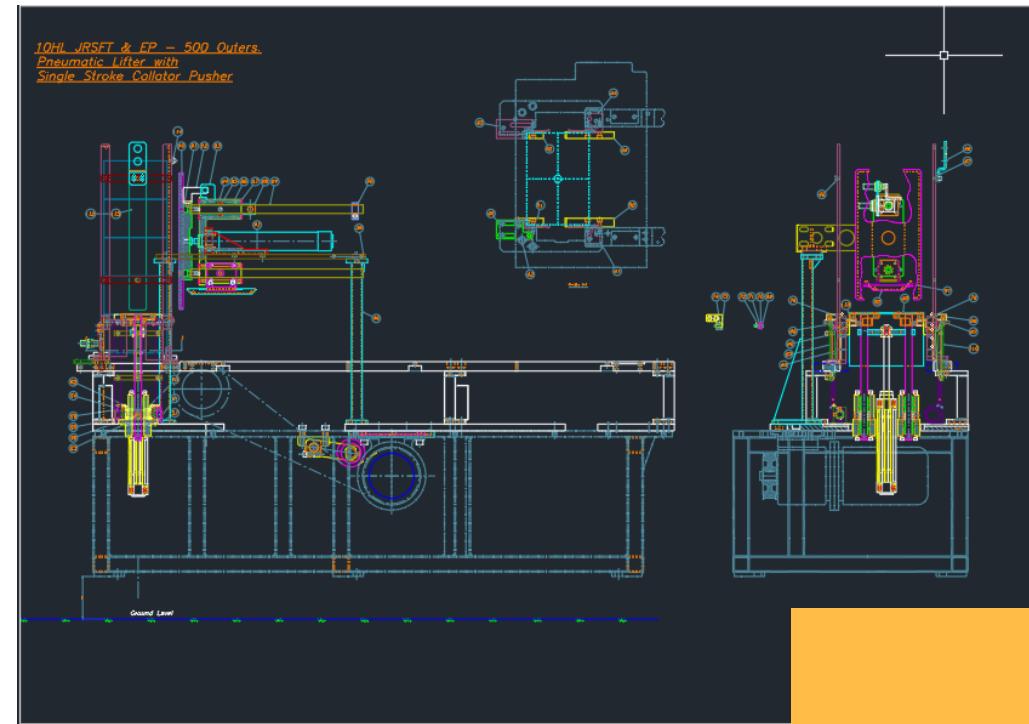
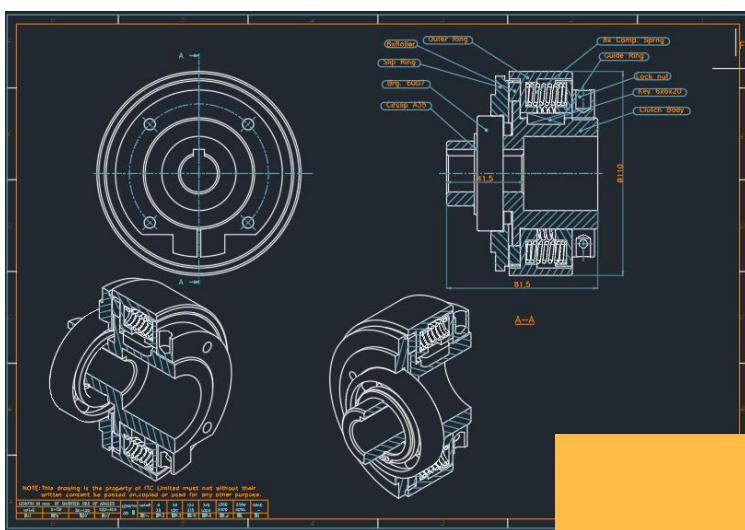
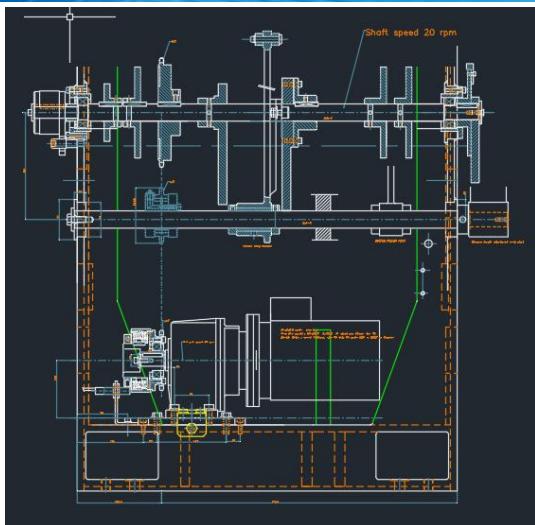


2D Drawing support_ Assembly Drawings contd.,



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2D Drawing support_ Assembly Drawing contd.,

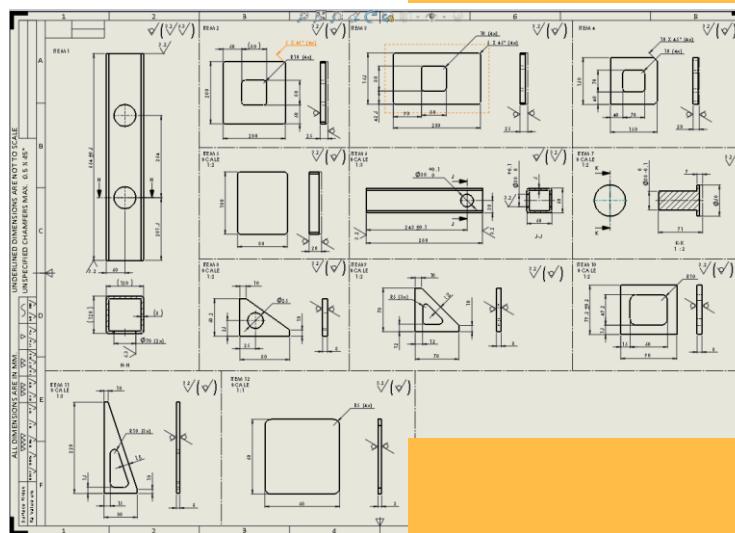
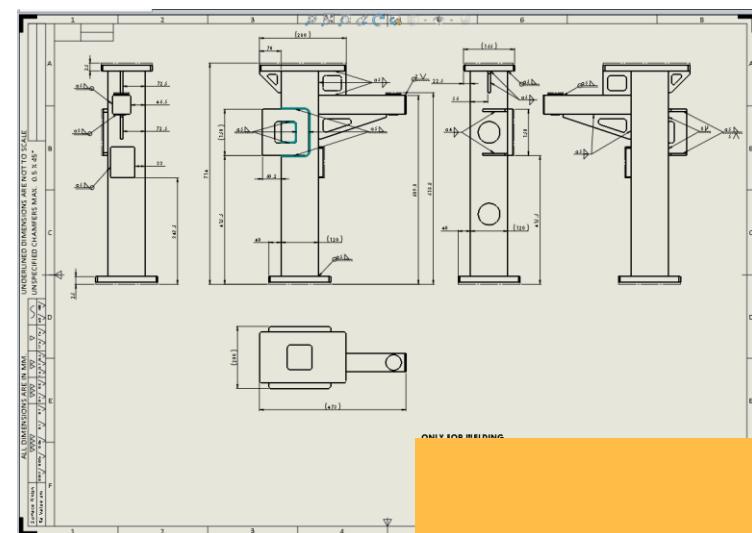
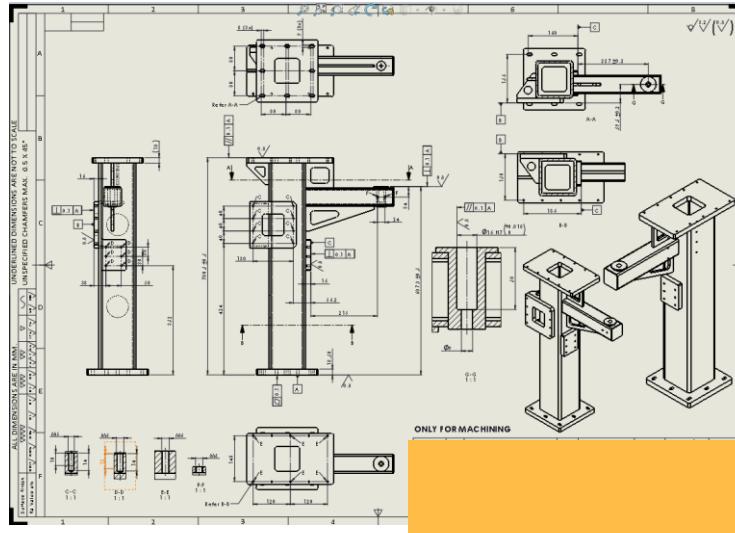
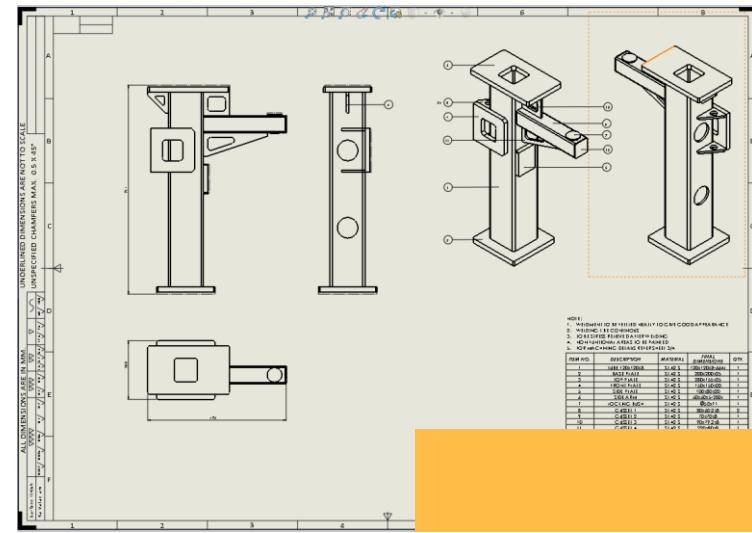


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2D Drawing support_ Welding drawing

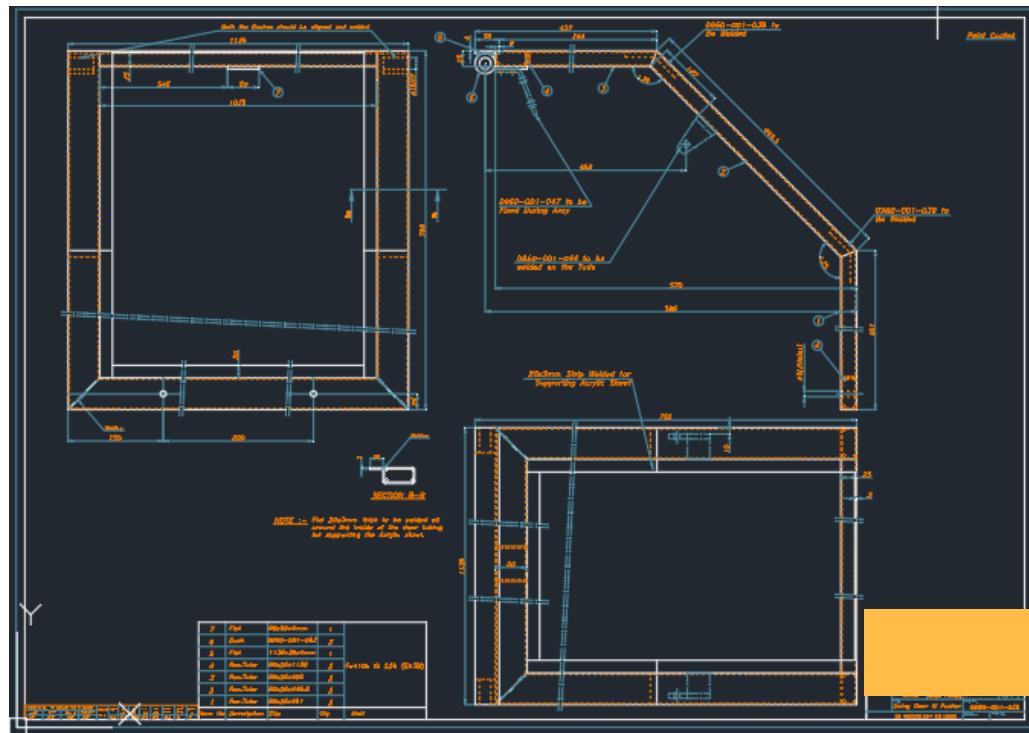
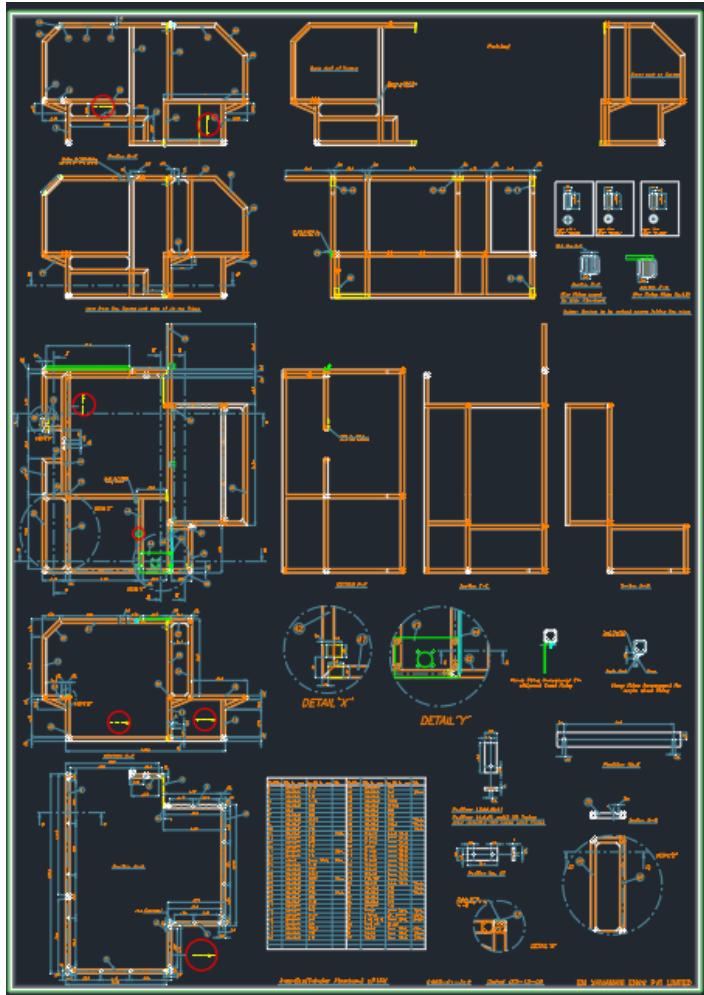


A Typical Welding
Drawing done for
Our client

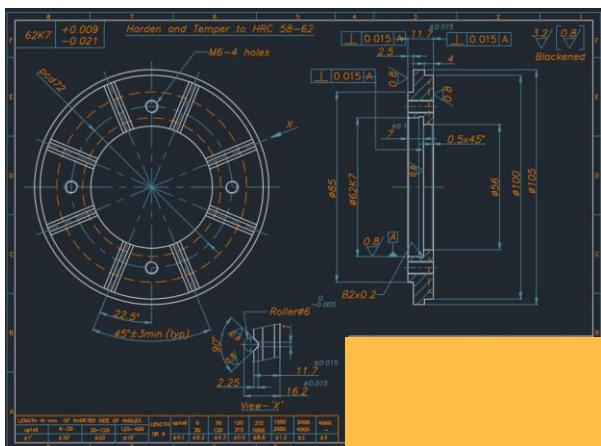
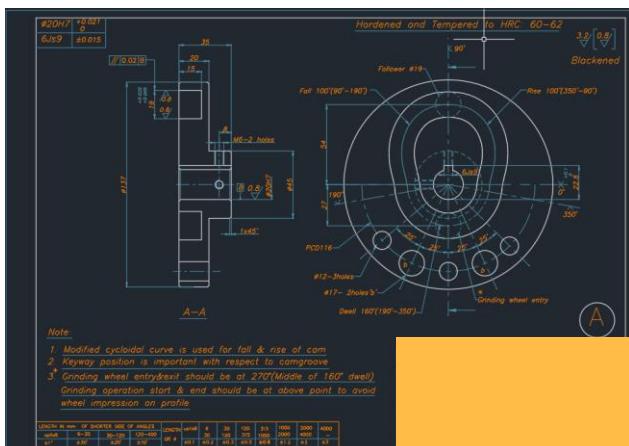
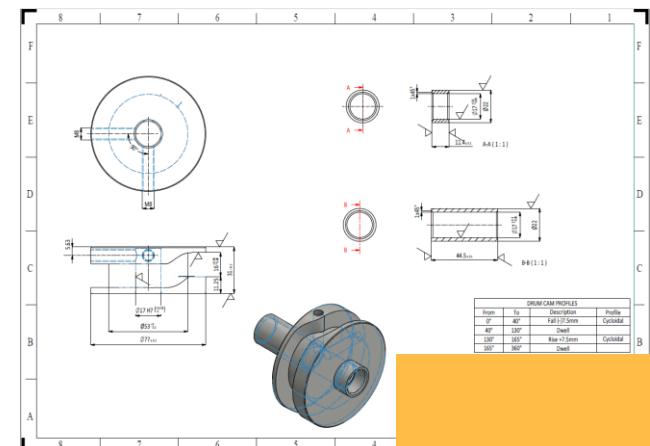
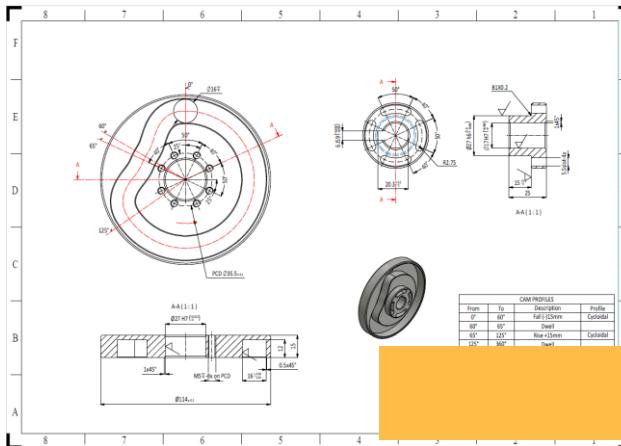
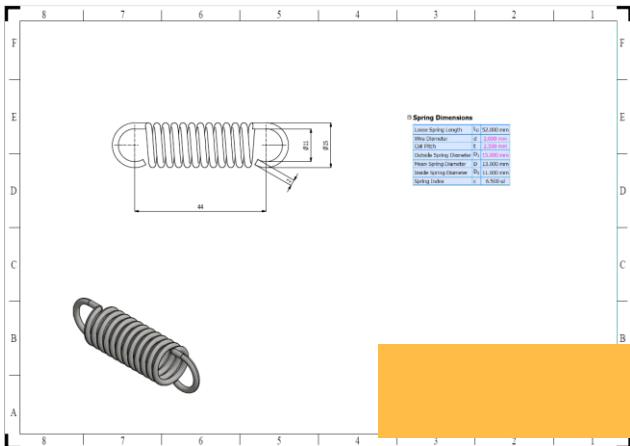
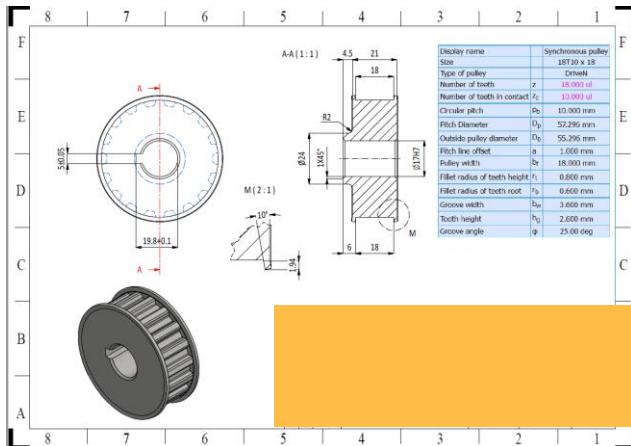


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2D Drawing support_ Welding drawing contd.,

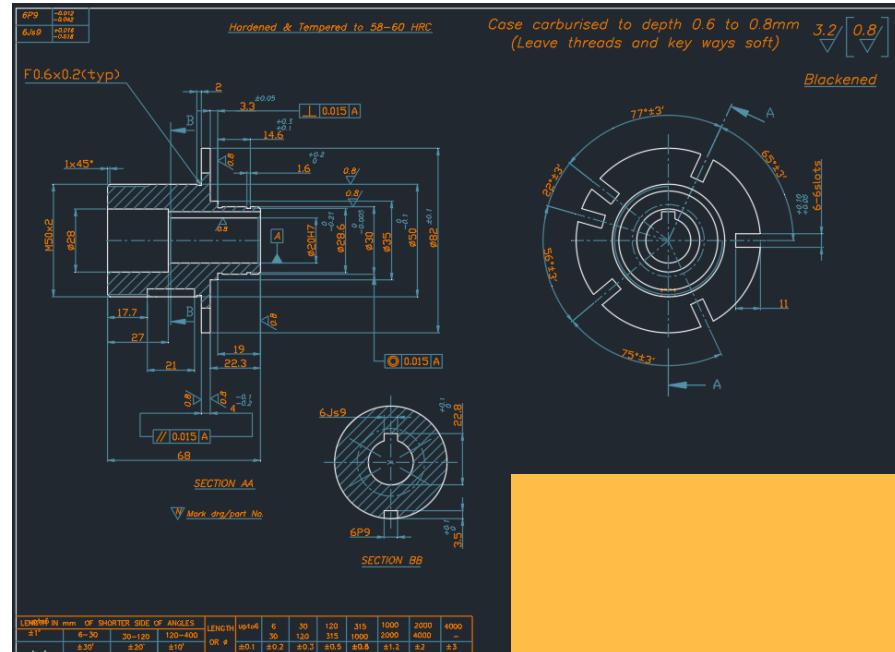
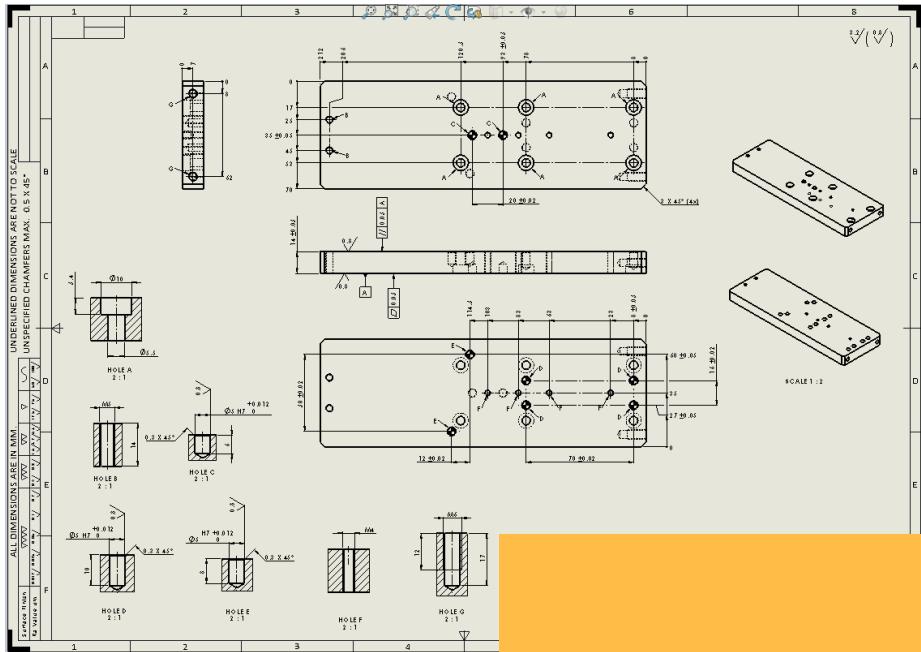


2D Drawing support- Part drawing

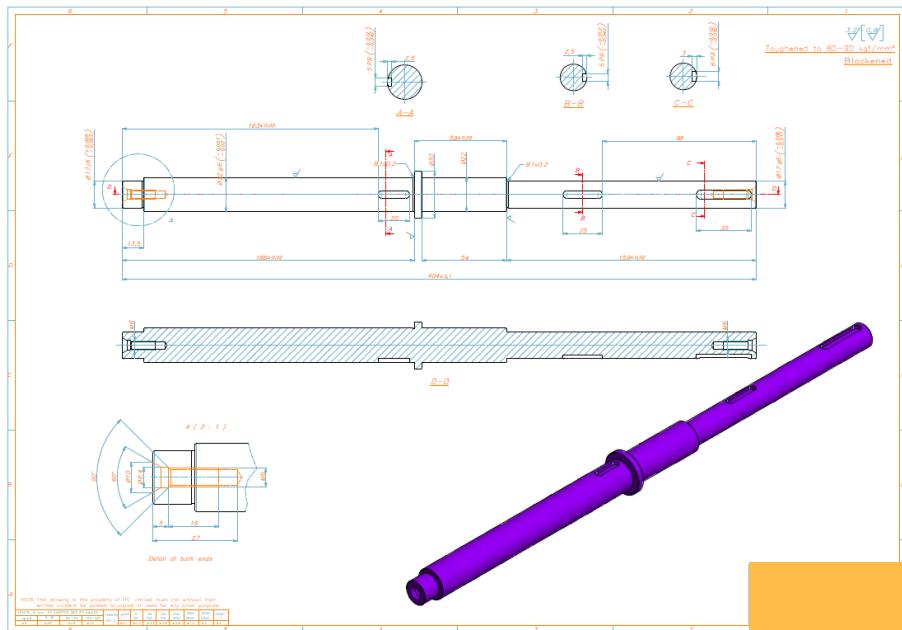
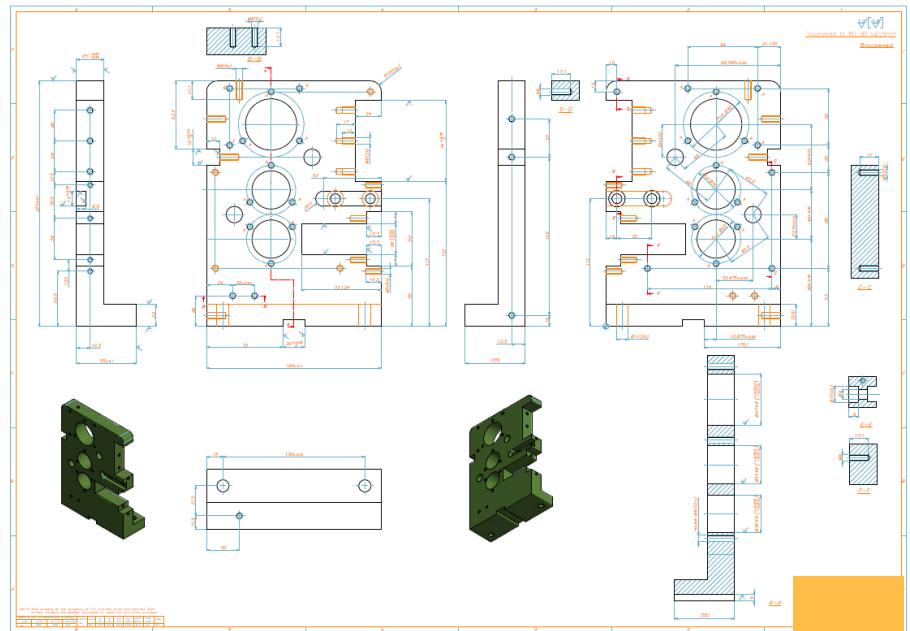


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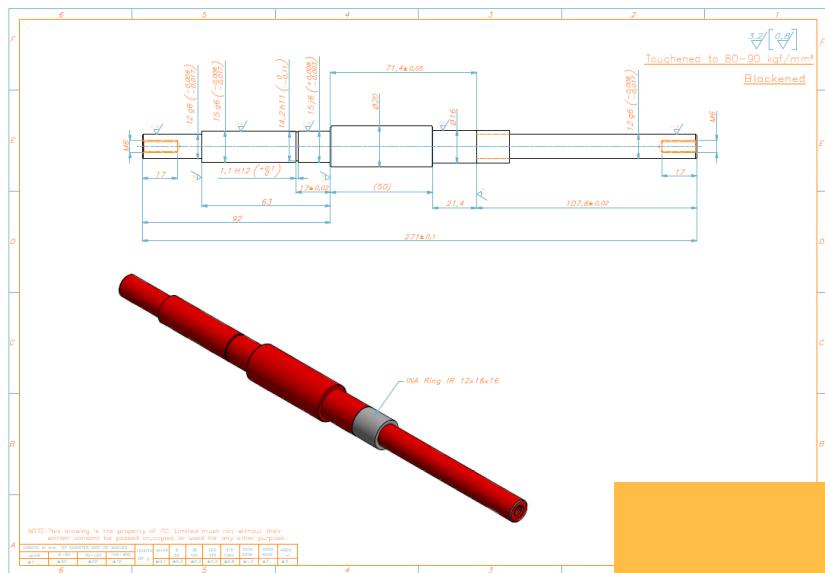
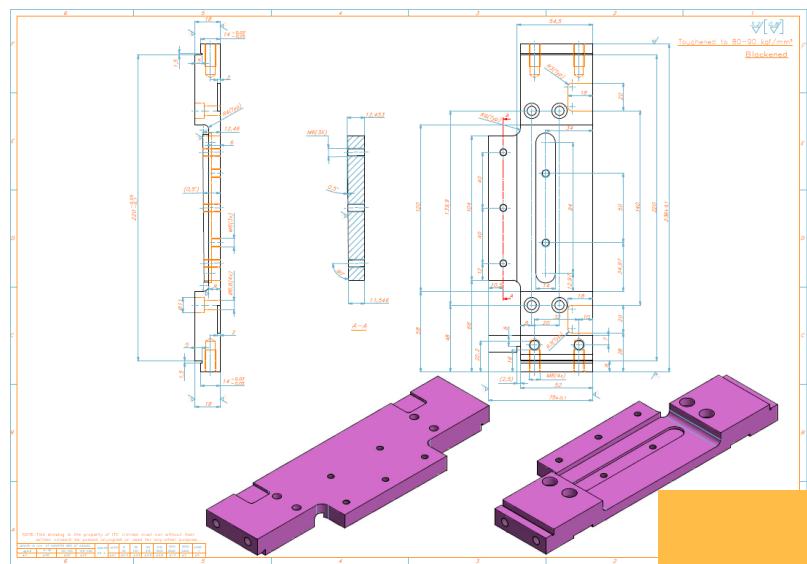
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2D Drawing support- Part drawing contd.,

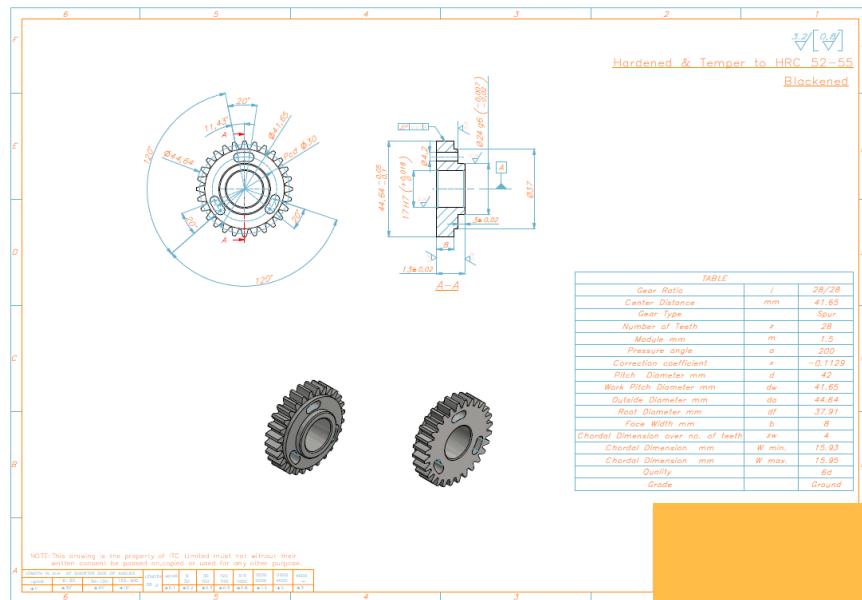
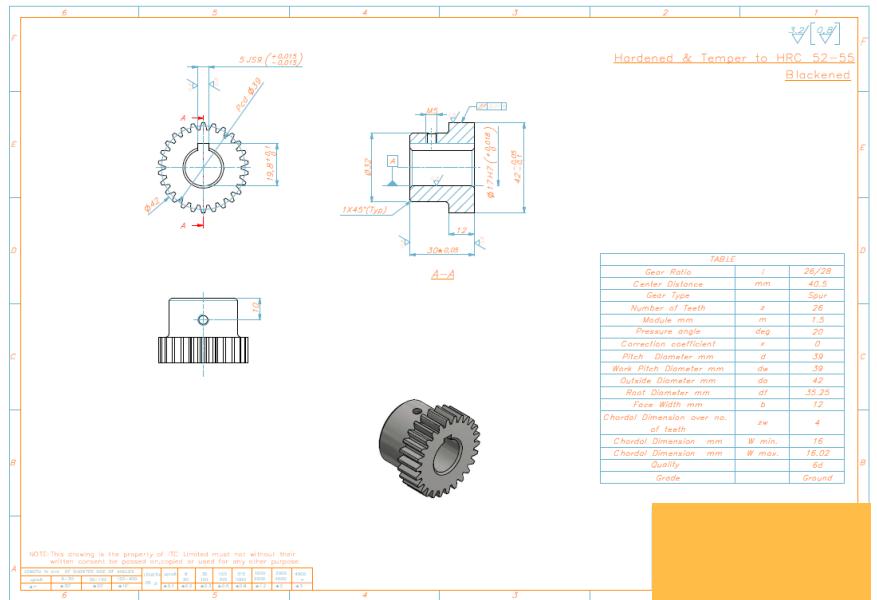


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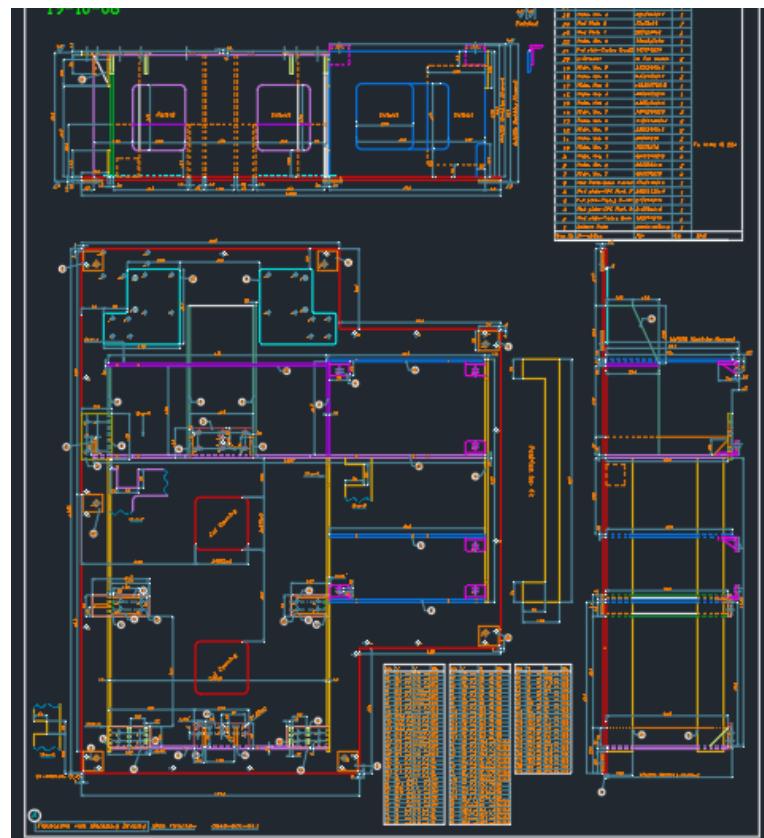
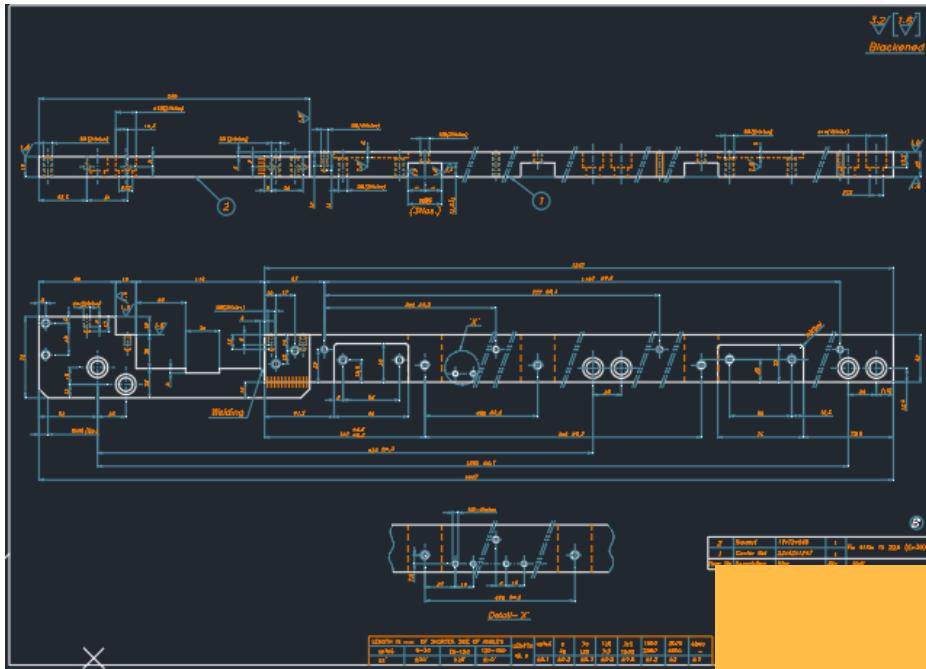


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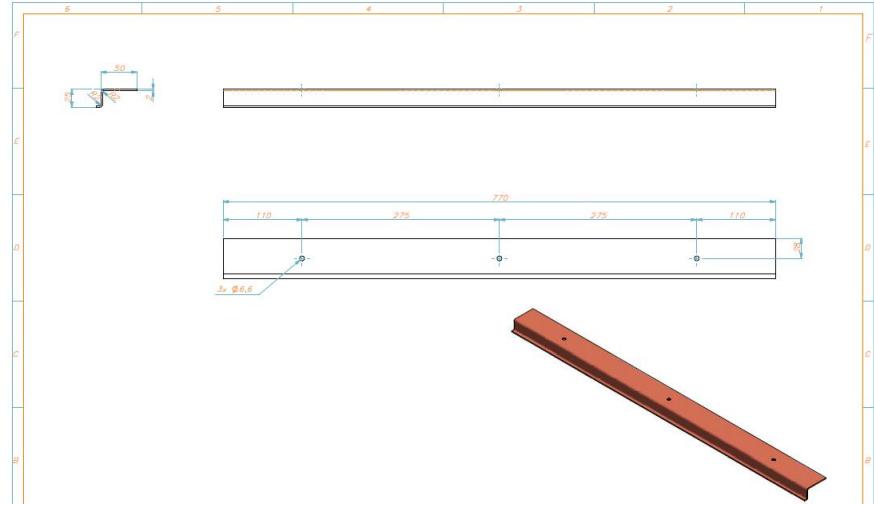
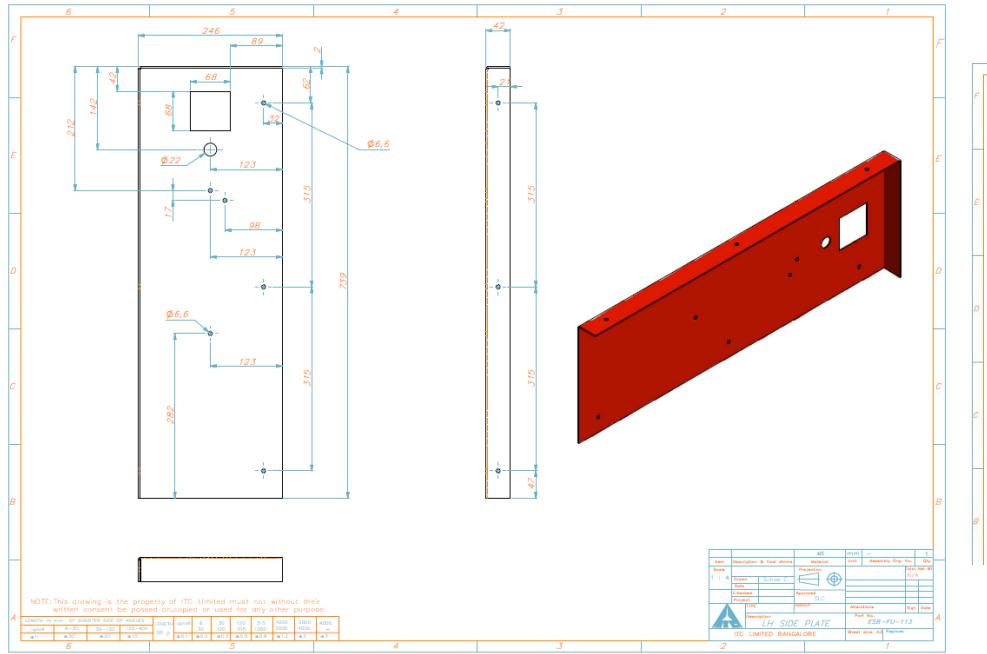
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2D Drawing support- Part drawing contd.,



2D Drawing support- Part drawing contd.,





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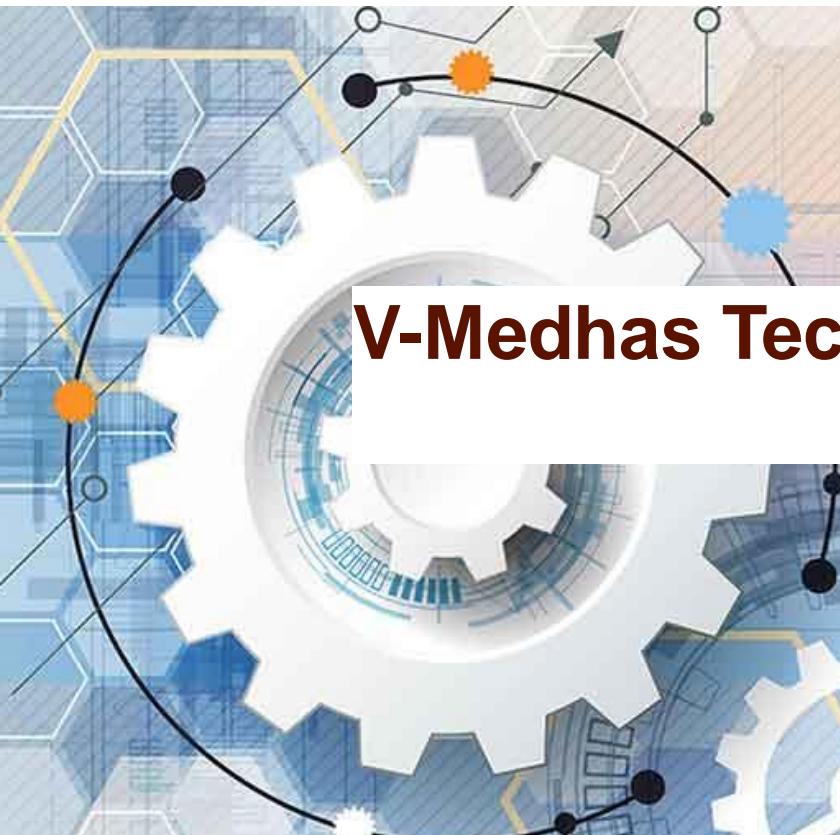
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Eager Towards Innovation...!



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