



Automation

SPM

We

iMatics has Engineering experts with 20 years experience in Automation & Production based at Chennai, exclusively to cater the needs of niche SPM Automation sector.

Our prime focus is manufacturing Special Purpose Machines (SPMs) for Production Automation in a variety of industrial applications.



Our Solution



Initial concept

Final delivery

we offer full capability Under One Roof

***Design, Engineering, Manufacturing
and Project management***

- regardless of size, budget or marketplace -

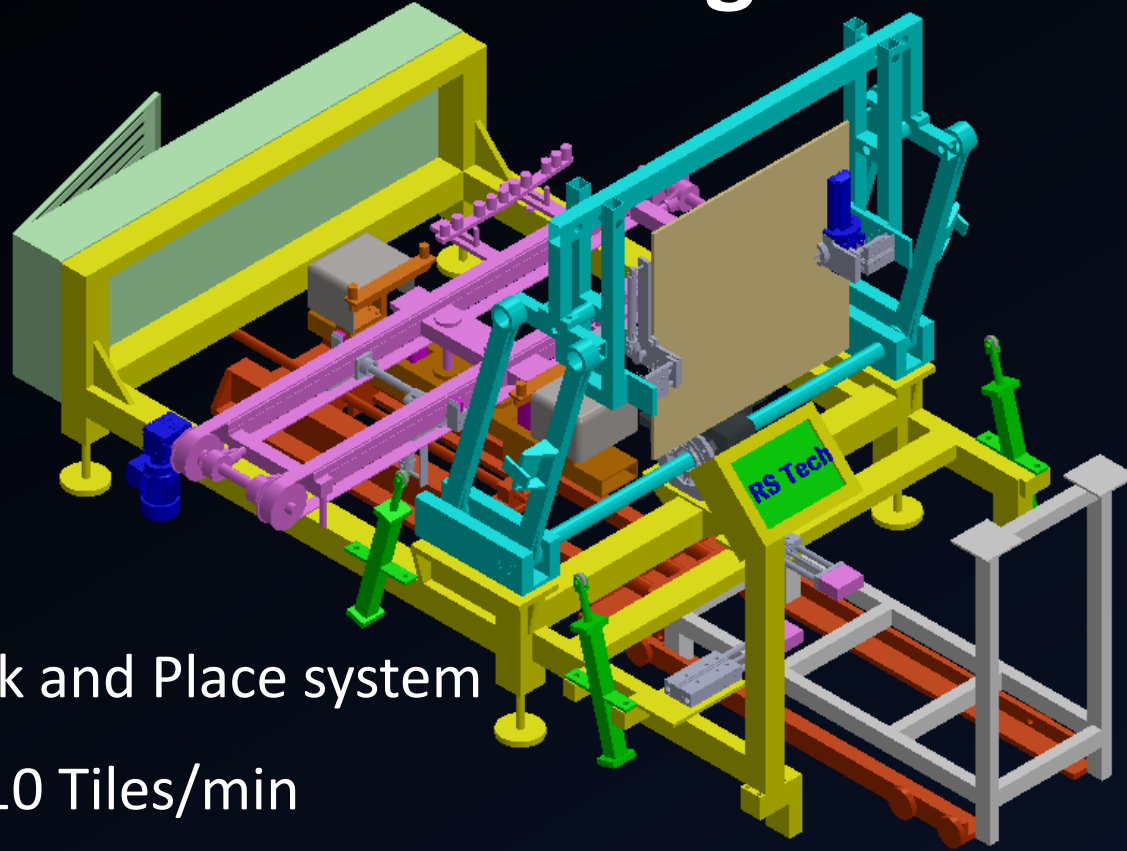
What we do

- ✓ Assembly Automation
- ✓ Packaging Automation
- ✓ Material Handling Automation
- ✓ Loading & Unloading Automation
- ✓ Automation machines for Medical Products
- ✓ Robotics
- ✓ Reverse Engineering



Projects

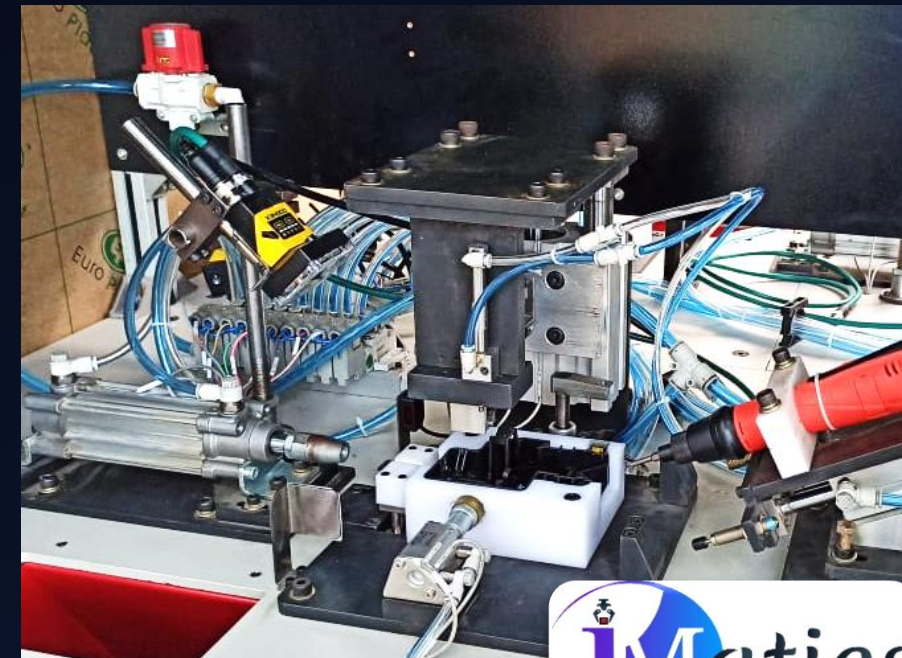
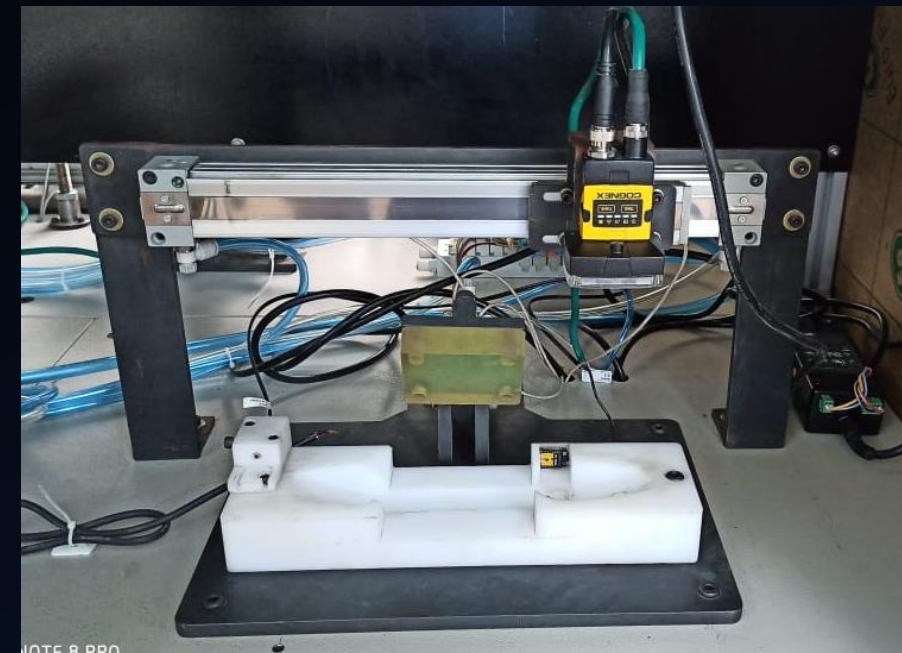
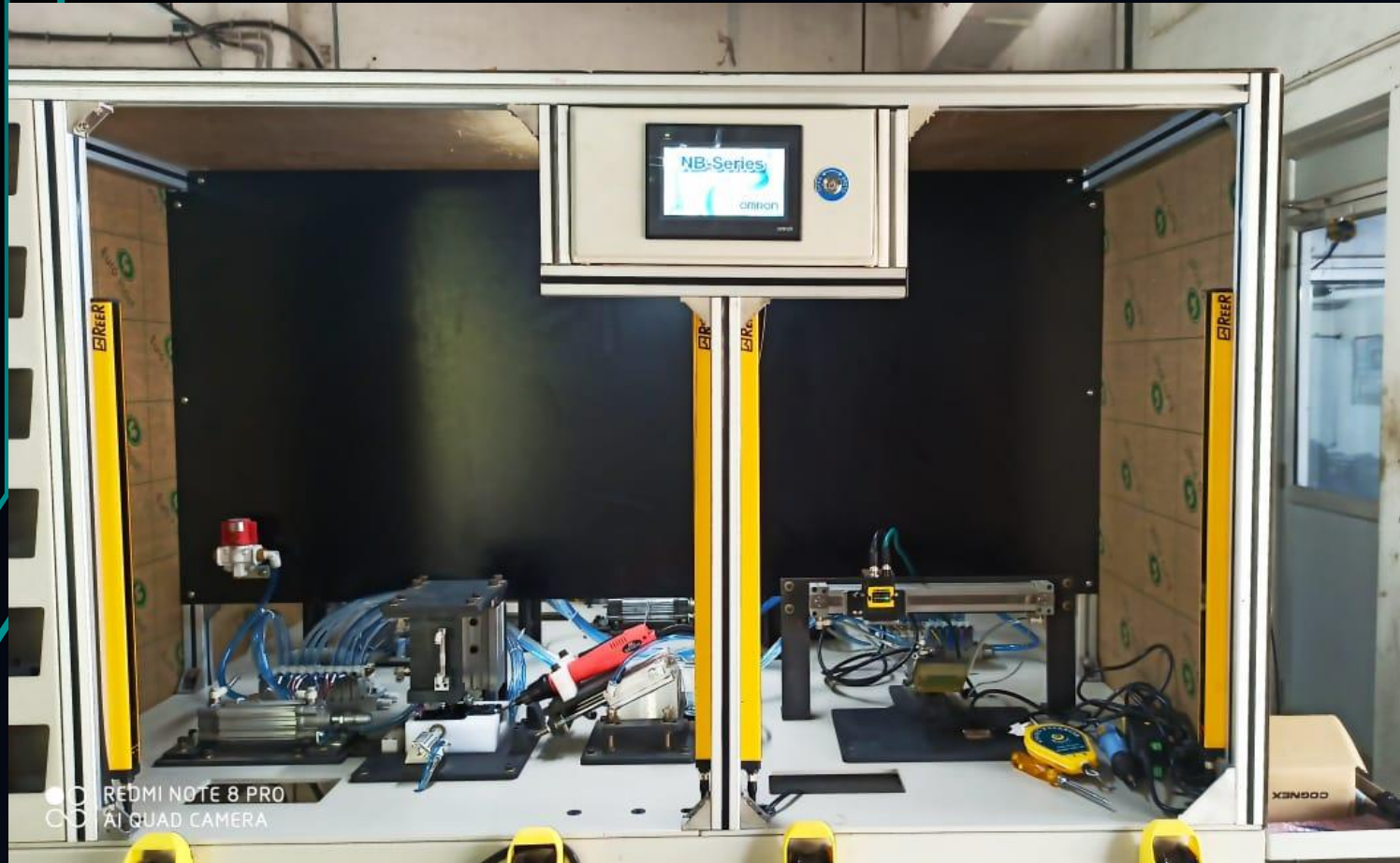
Robotic Tile Unloading & Stacking Machine



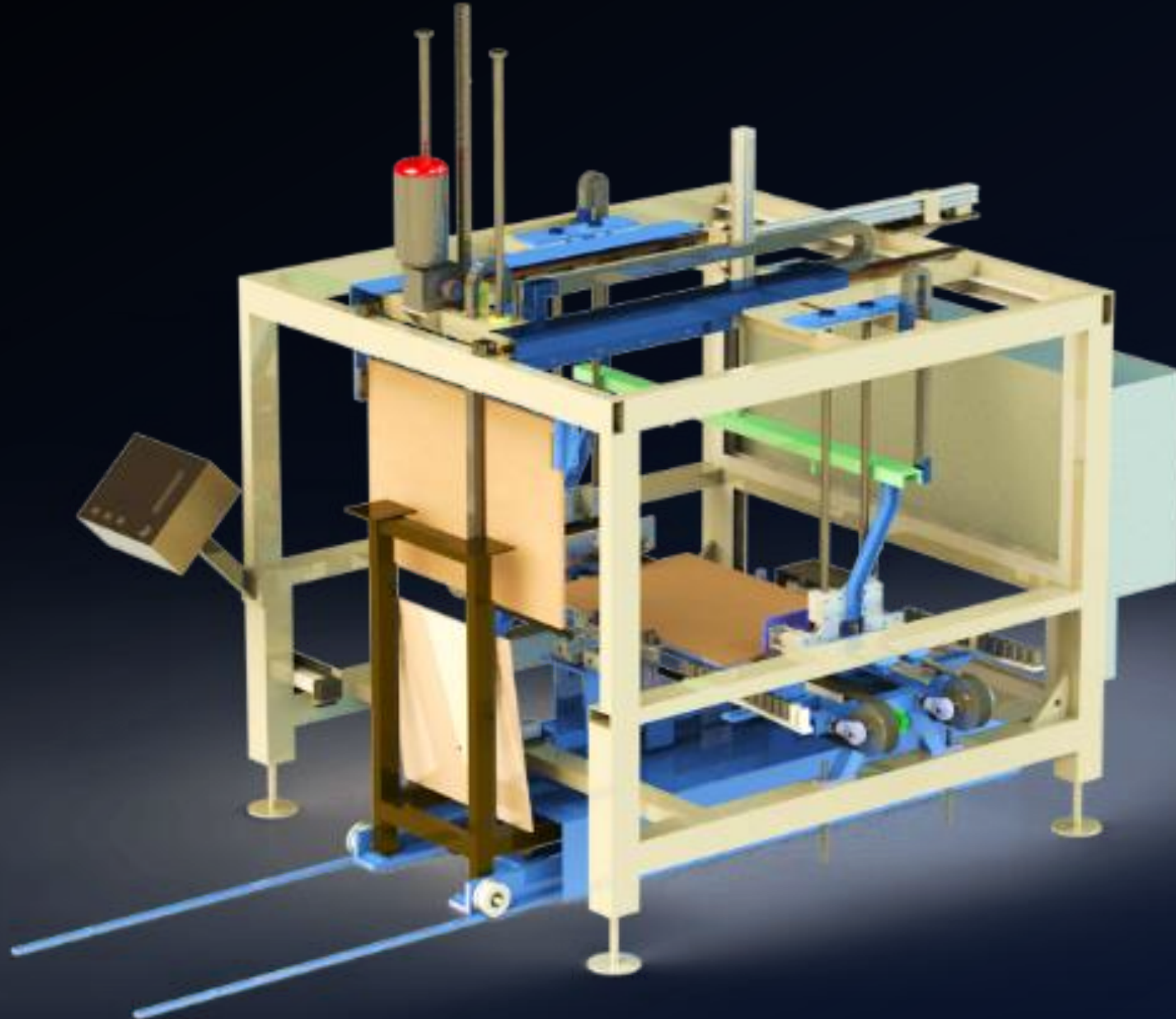
- ✓ Rotary Pick and Place system
- ✓ Speed of 10 Tiles/min
- ✓ Can handle 600mm, 800mm and 900mm tiles
- ✓ Reduced Change over time
- ✓ Auto Tile orientation



Vision inspection for KIA Door Handle



Robotic Tile Sorting and Stacking Machine 3D Model



Robotic Tile Sorting and Stacking Machine

- ✓ Speed of 10 Tiles/min
- ✓ Can handle Multiple tile sizes
- ✓ Auto Tile Orientation
- ✓ Reduced Change over time
- ✓ Grade sorting by color mark sensing technology
- ✓ Premium standard parts from OMRON, FESTO, BONFIGLIOLI, SCHNEIDOR, SIEMENS

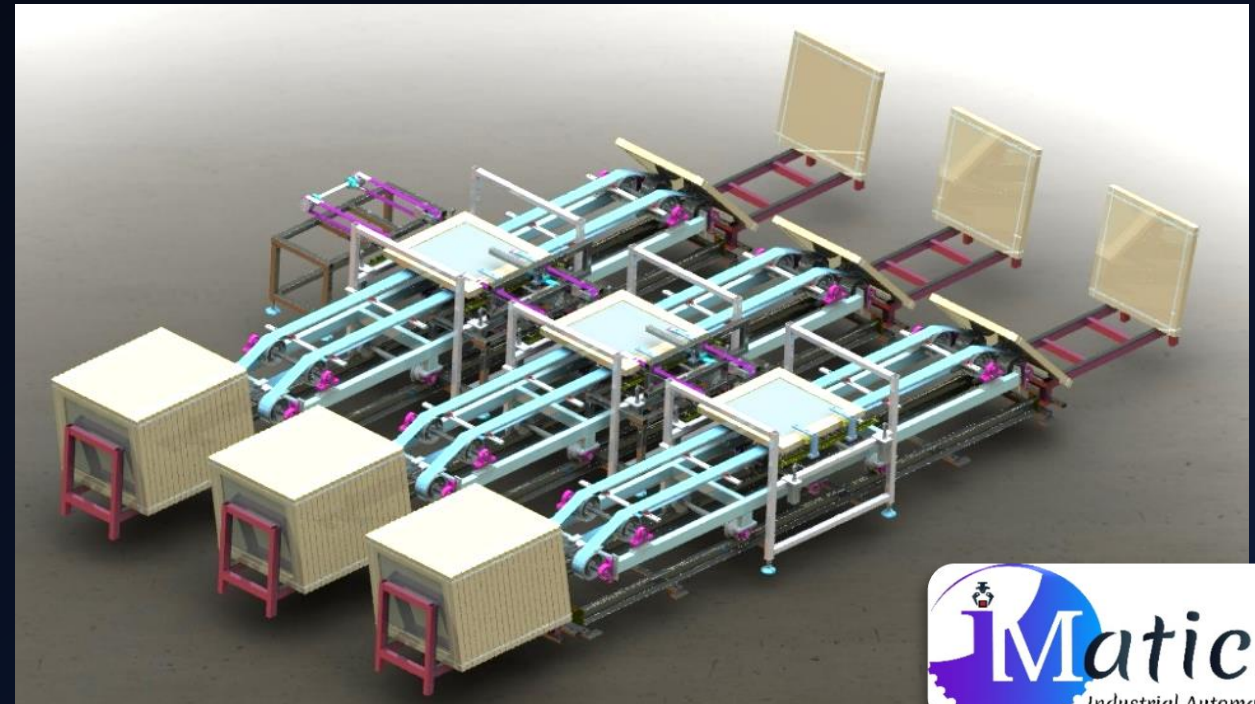


Automatic Conveyorised Packaging Line

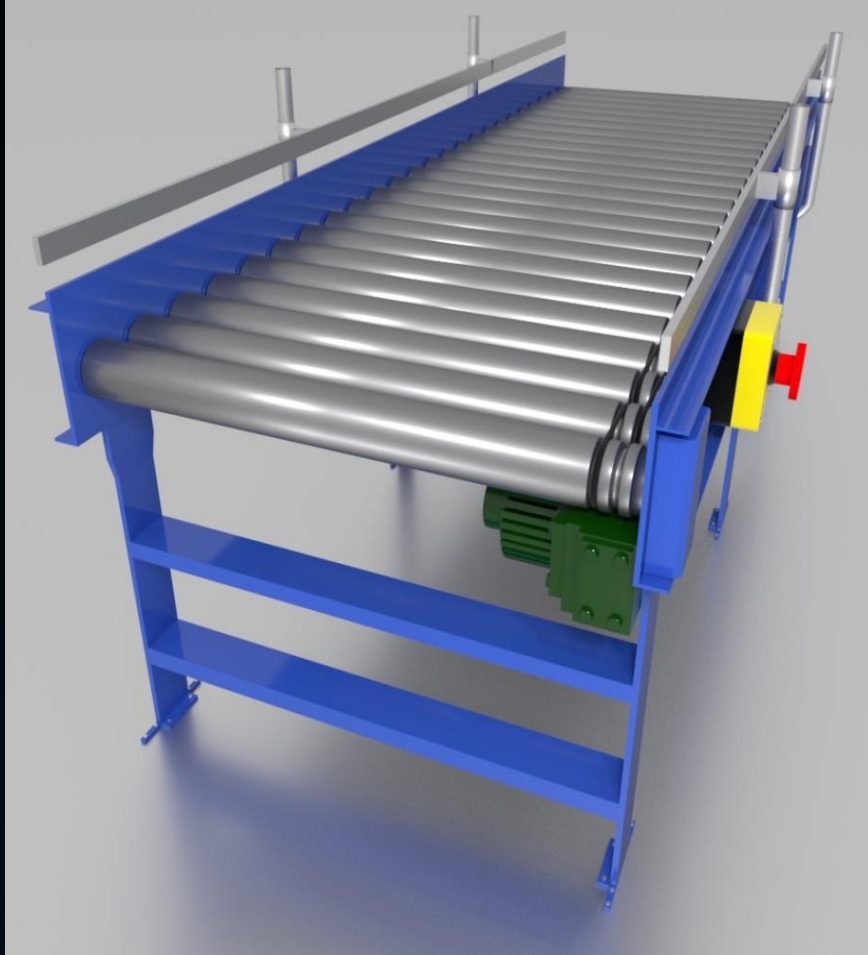
- ✓ FULLY AUTOMATIC , needs only two operators
- ✓ Output upto 3600 packages per shift
- ✓ Automatic 3ply carton folding and strapping
- ✓ Auto loading & unloading system



Material Handling Equipments & Conveyors

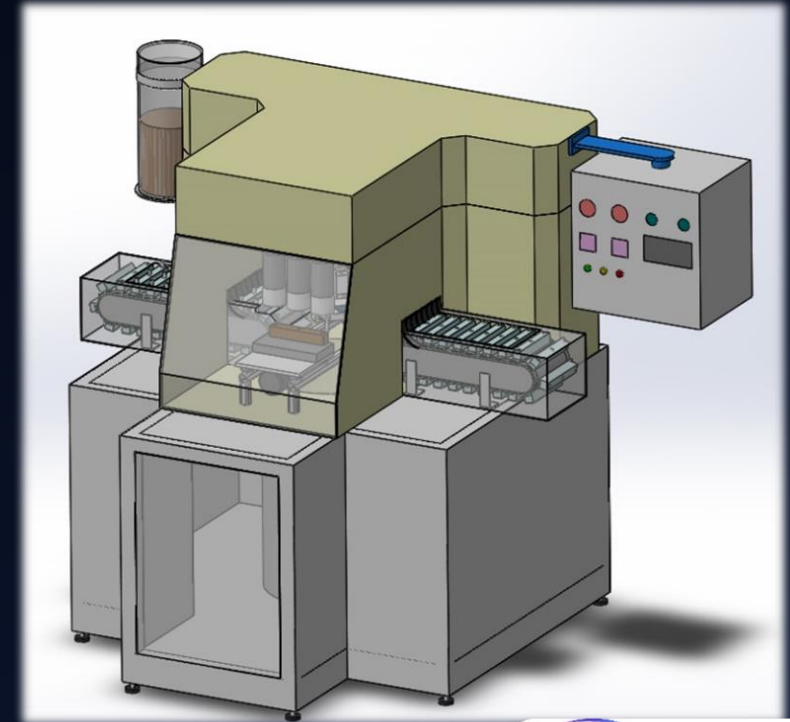
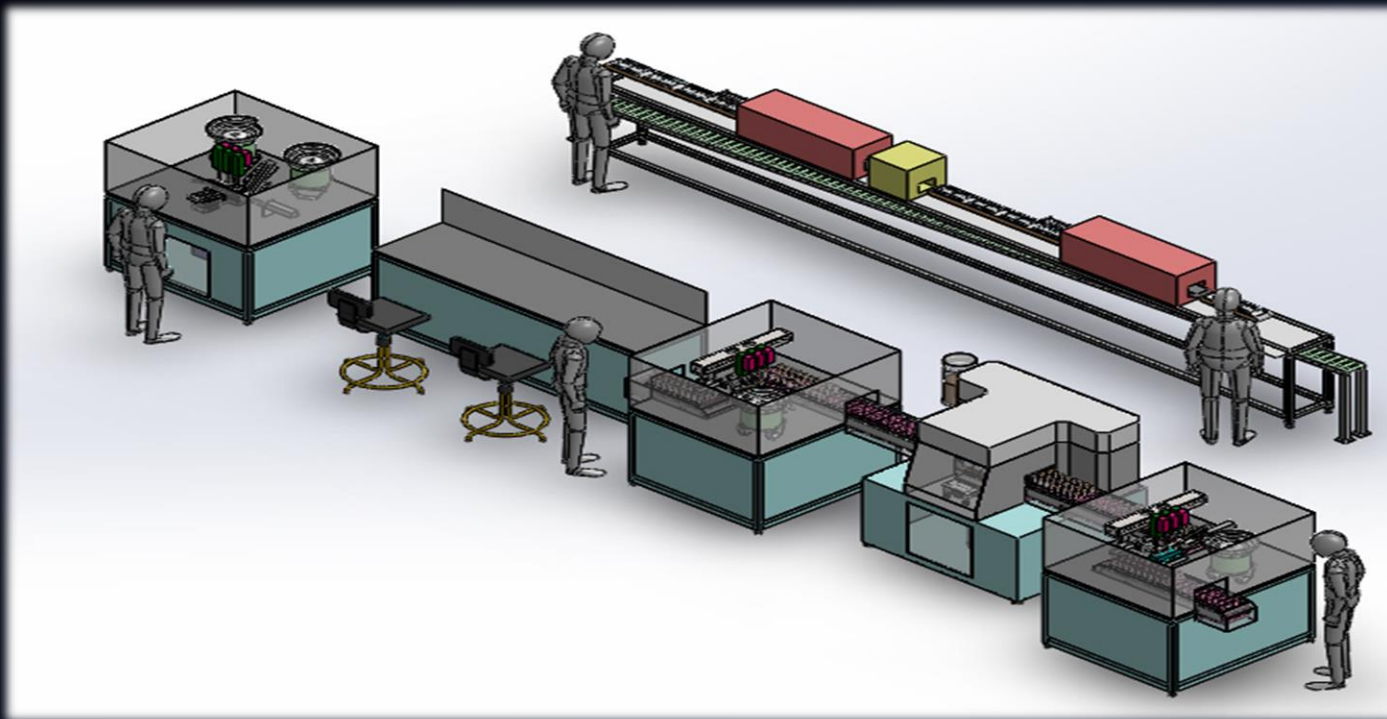
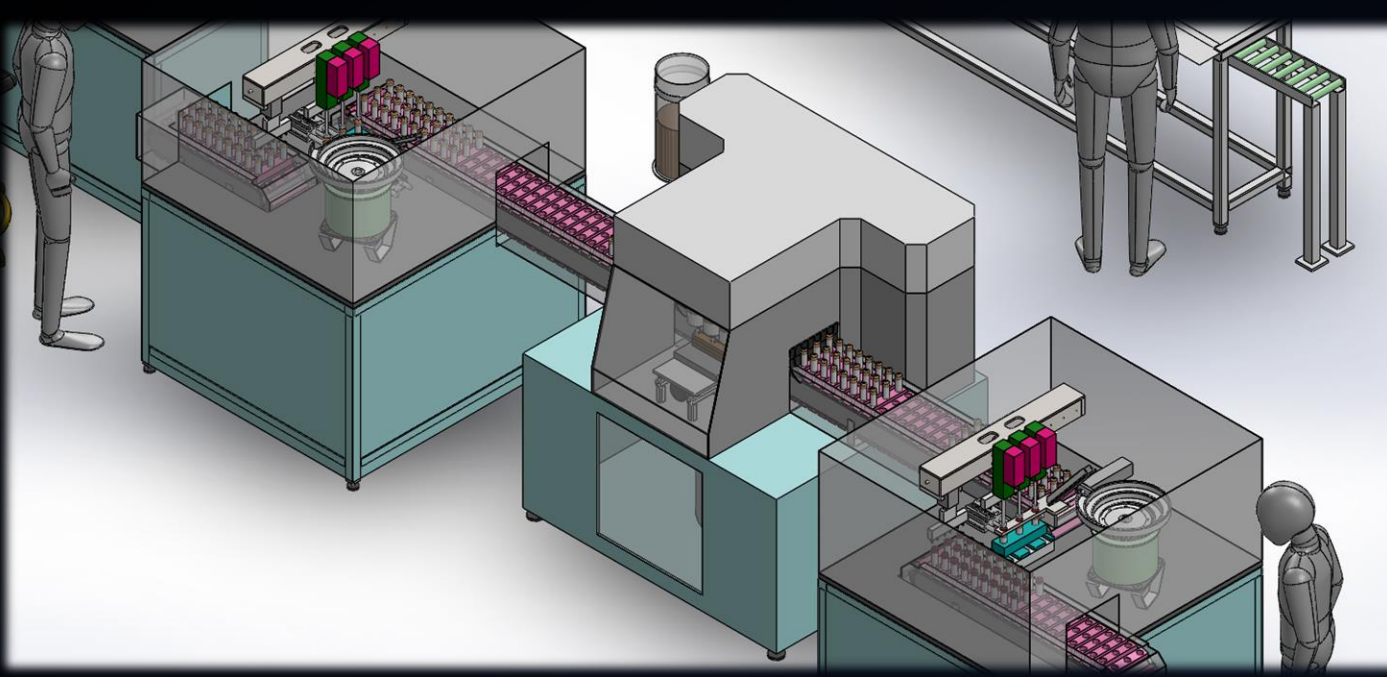


Conveyors



Ceramic Fuse Assembly Line

1. Copper Cap Assly by HydroPneumatic Press
2. Silica Powder Filling by Air pressure , Pick&Place Mechanism
3. Loctite Dispensing thro 2 Axis Servo control
4. UV Curing
5. Auto conveying line



Syringe Assembly & Packaging Machines

Syringe Assembly machine

- ✓ Semi automatic soft blister packing
- ✓ Can handle syringe sizes from 2ml to 50ml and Needles
- ✓ PLC and Servo motor control system

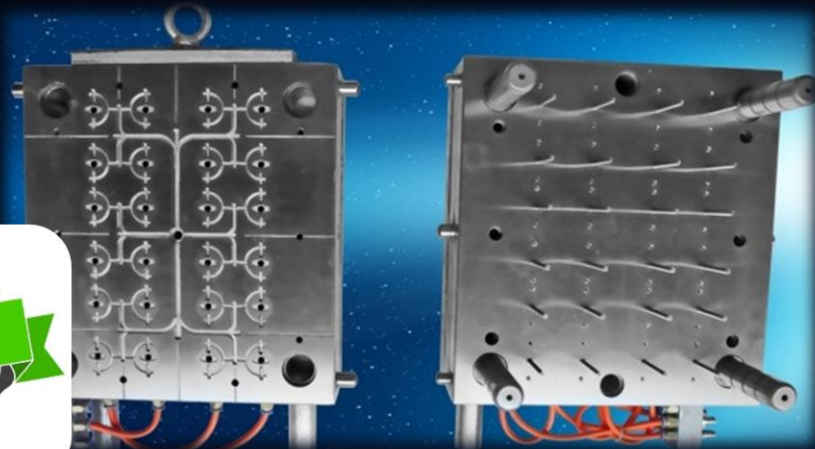
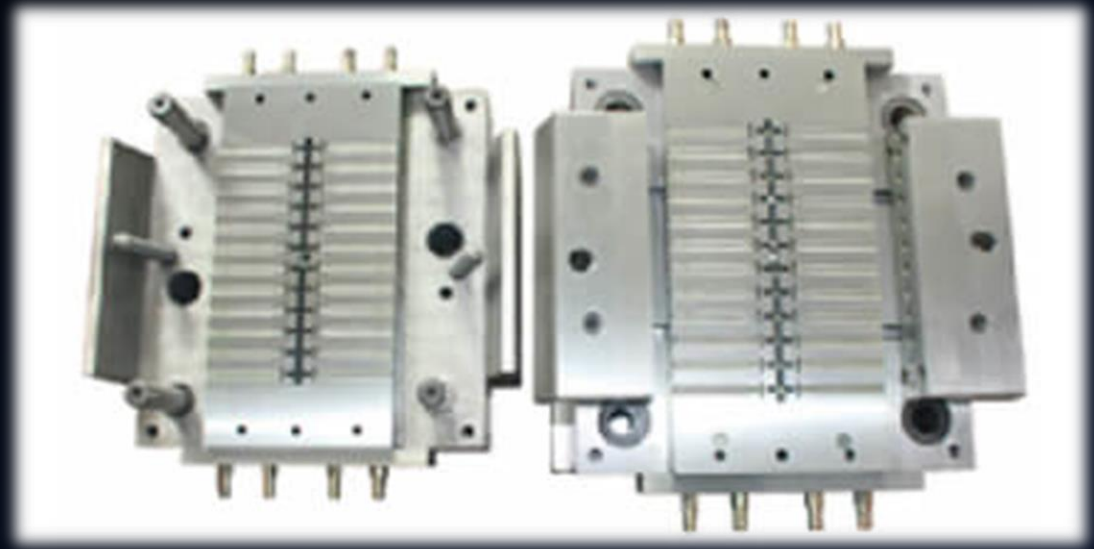
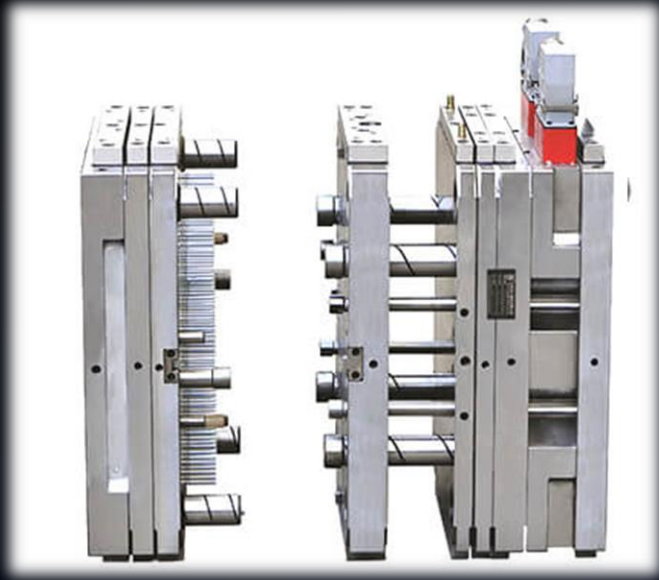


Blister Packing Machine



- ✓ Semi automatic soft blister packing
- ✓ Can handle syringe sizes from 2ml to 50ml and Needles
- ✓ PLC and Servo motor control system

Injection Moulds for Syringe Barrel & Plunger



Syringe Blister Packing Machine with Auto feeders



Syringe Auto Feeder



Syringe storage bunker feeder



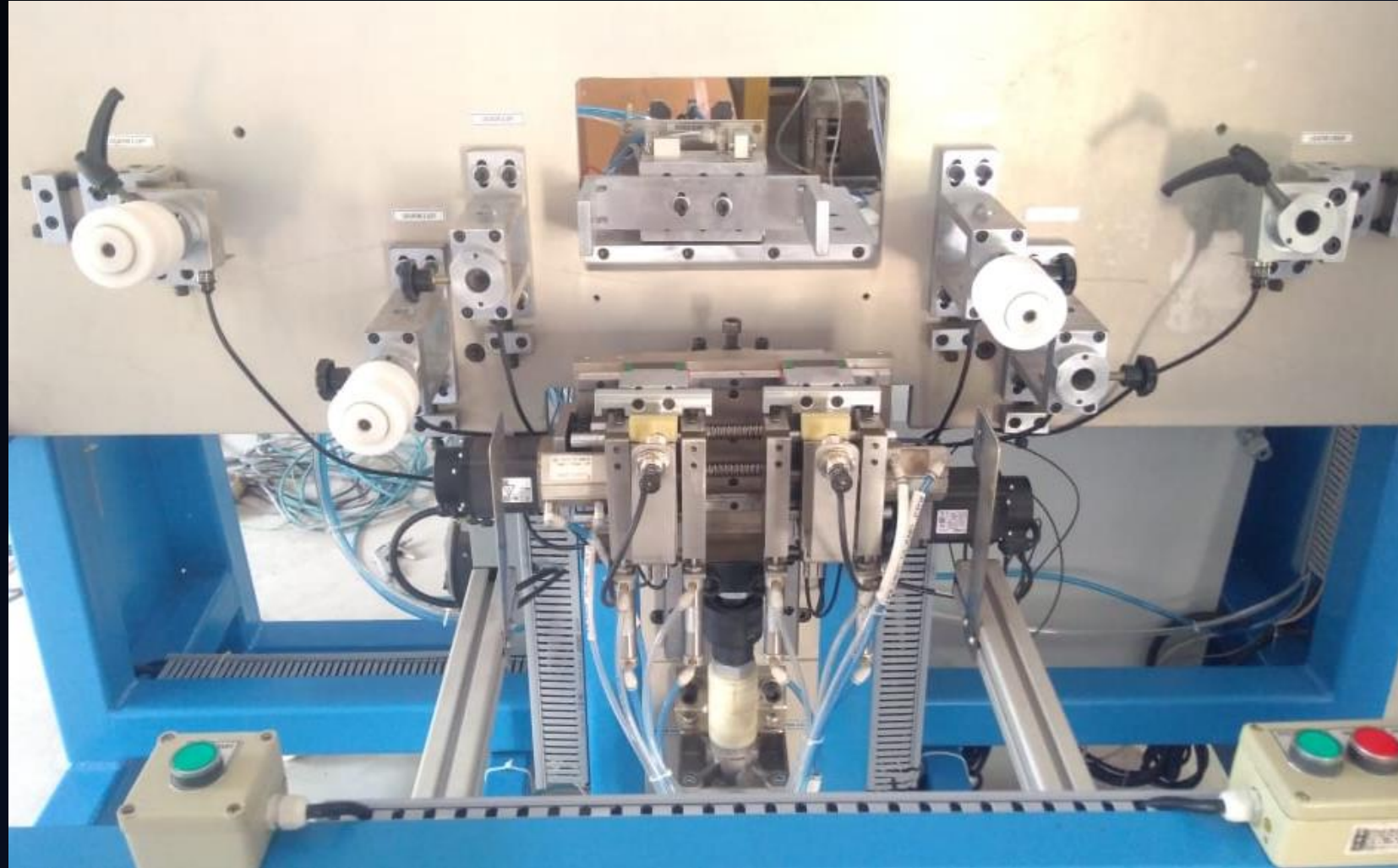
Needle Auto Feeder



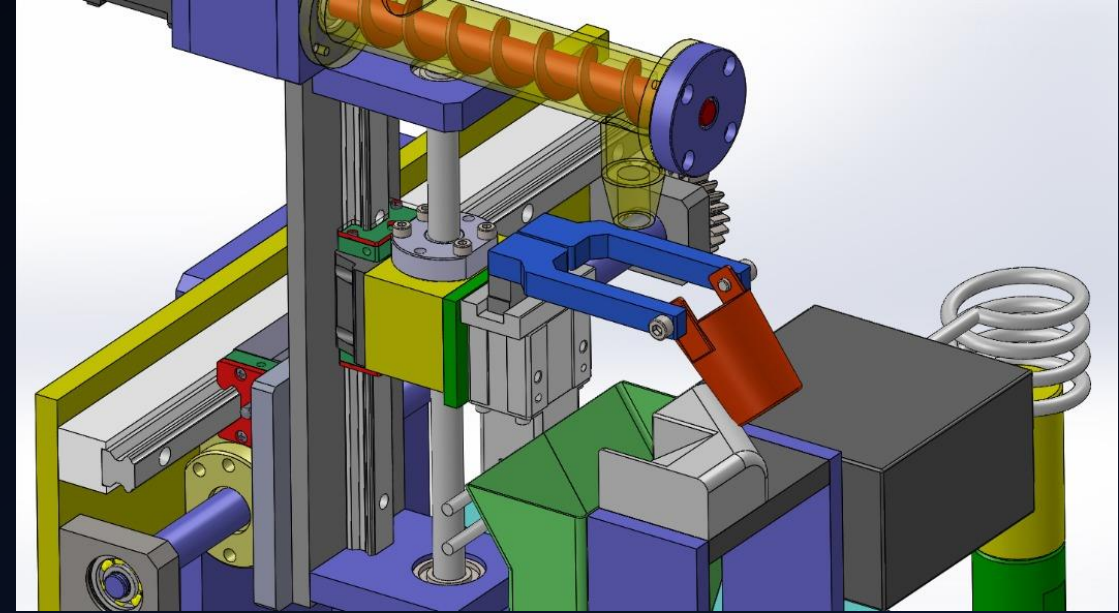
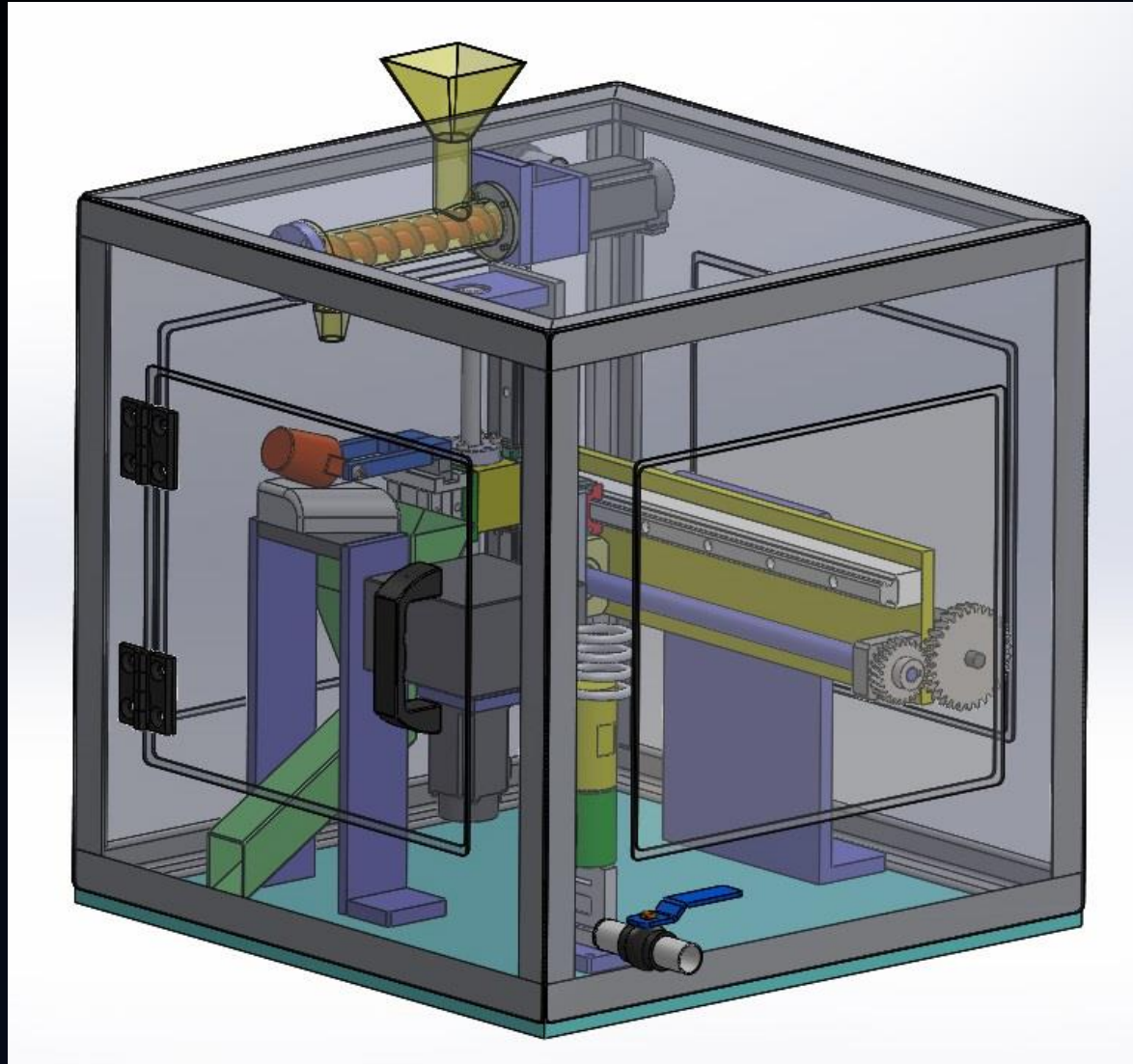
Syringe Needle Assembly Machine



Wind Shield Glass Assembly Setup

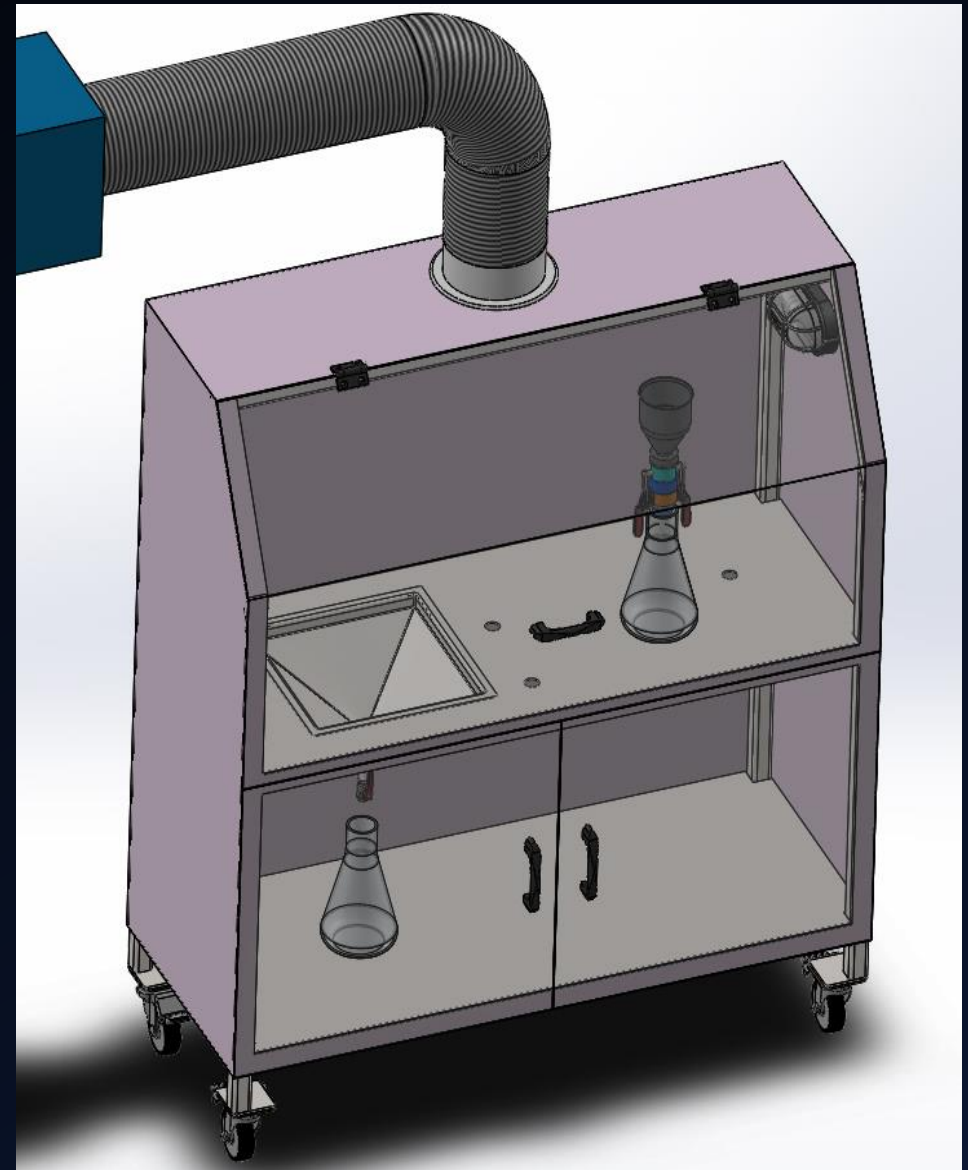


COAL CHARACTERISATION CHAMBER for IIT Aerospace Dept





FUME HOODS



SINGLE PIECE FLOW LEAN MFG LINE





THANK YOU



iMatics

Plot No 16, Self Help Industrial Estate,
Keelkattalai, Chennai - 600117, INDIA

+91 9003099265, +91 9092810768



ravikumar@i-matics.com , imatics.chn@gmail.com



www.i-matics.com

