

GSTIN:33BPMPA8720F1Z5



SENTHIL TOOLS

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QUALITY THAT YOU DESIRES

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ABOUT US

SENTHIL TOOLS was incorporated in the year of **2014** and proved its competency as the reputed Manufacturer of

- ❖ **Special purpose machines,**
- ❖ **Low Cost Automation Machines,**
- ❖ **Jig and Fixtures,**
- ❖ **Press Tools,**
- ❖ **Tooling Job Works and**
- ❖ **Machine Spares.**

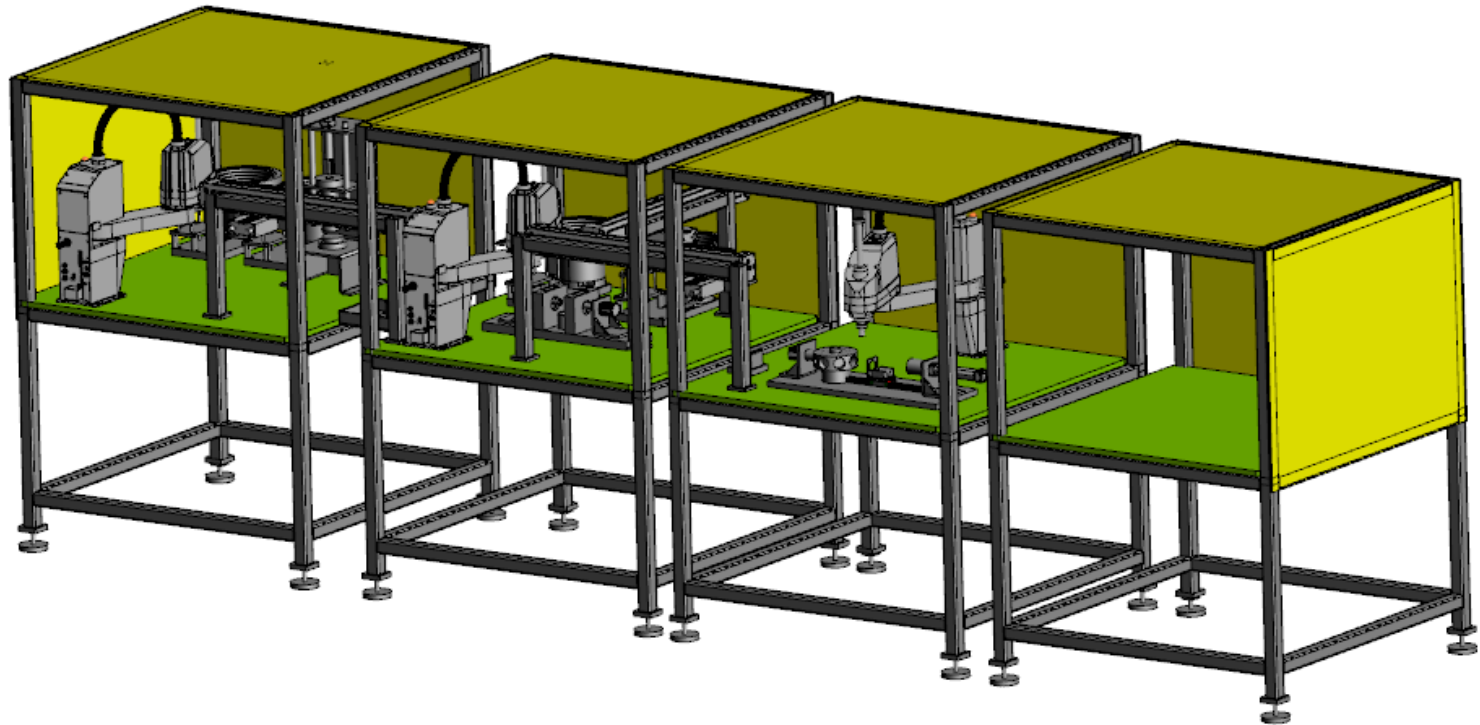
Special Purpose Machine

We conceptualize the system design understanding the customer needs with a collaborative approach and develop the machine. The machine is designed based on the purpose and considering the constraints as well. We are engaged in design, manufacture of special purpose machines for high production rates with consistent quality which is today's need in automobile industries like Assembly stations, Leak testing station, Conveyor systems etc...

Industrial Automation

Industrial Automation controls industrial machinery and processes, reducing the need of human intervention. In the scope of industrialization, automation is a step beyond mechanization. Whereas mechanization provided human operators with machinery to assist them with the physical requirements of work, automation greatly reduces the need for human sensory and mental requirements as well. Processes and systems can also be automated.

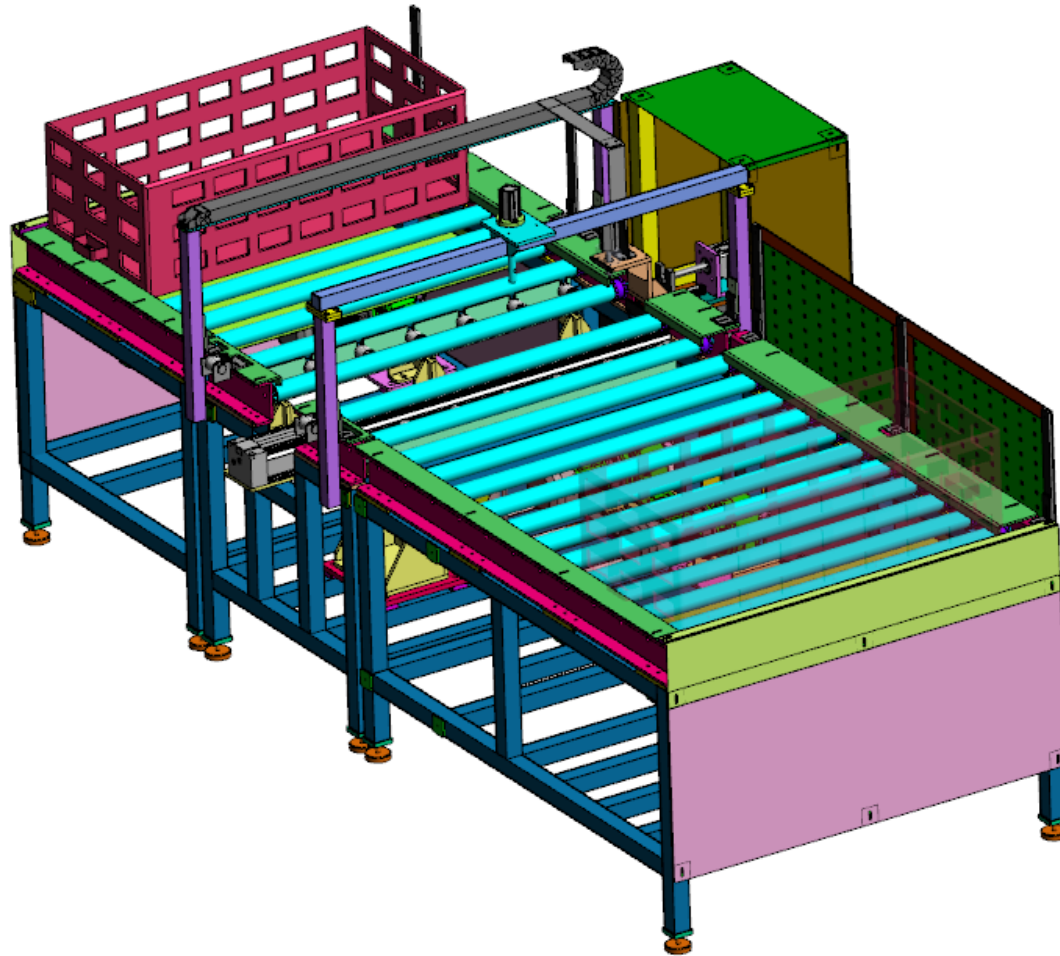
ASSEMBLY LINE-FULLY AUTOMATIC



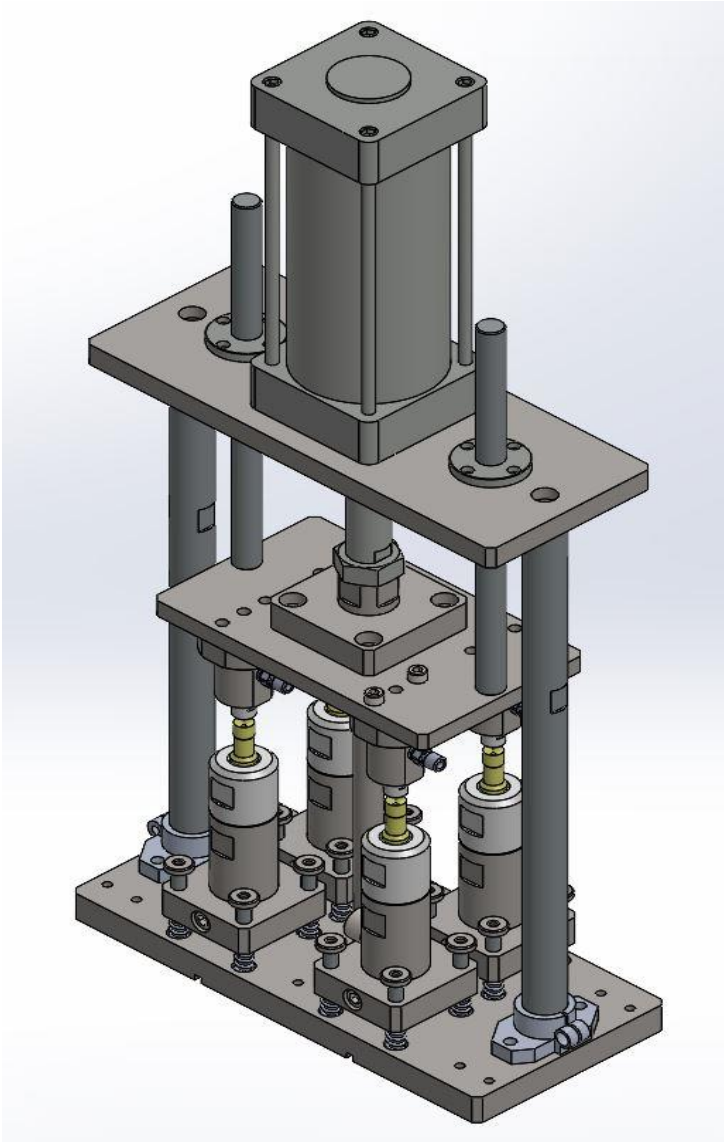
MECHANICAL CAD DESIGN AND ANALYSIS



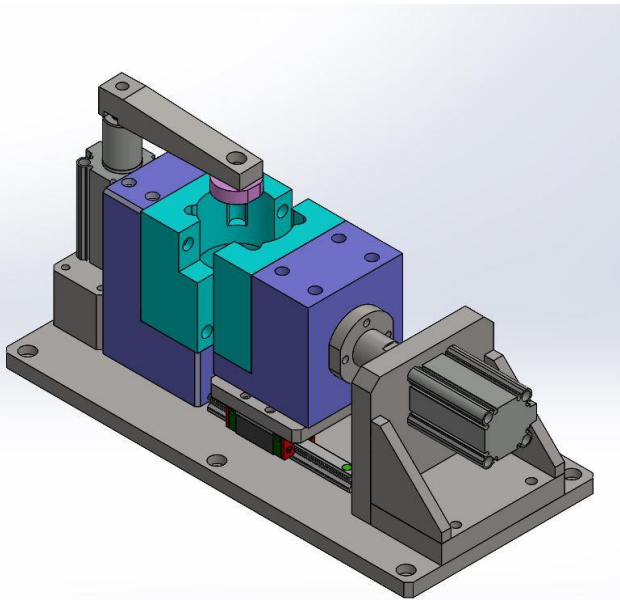
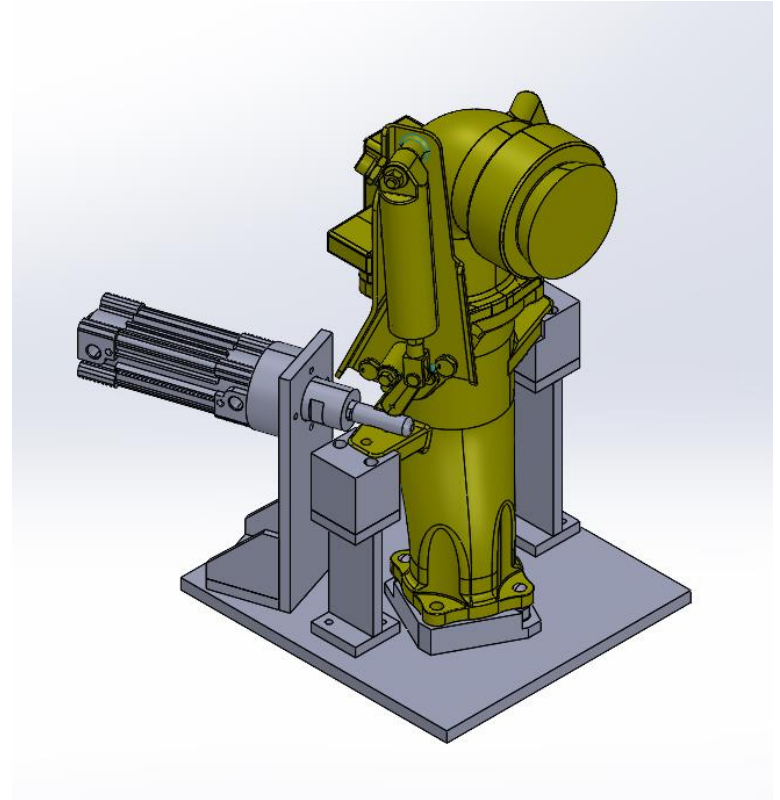
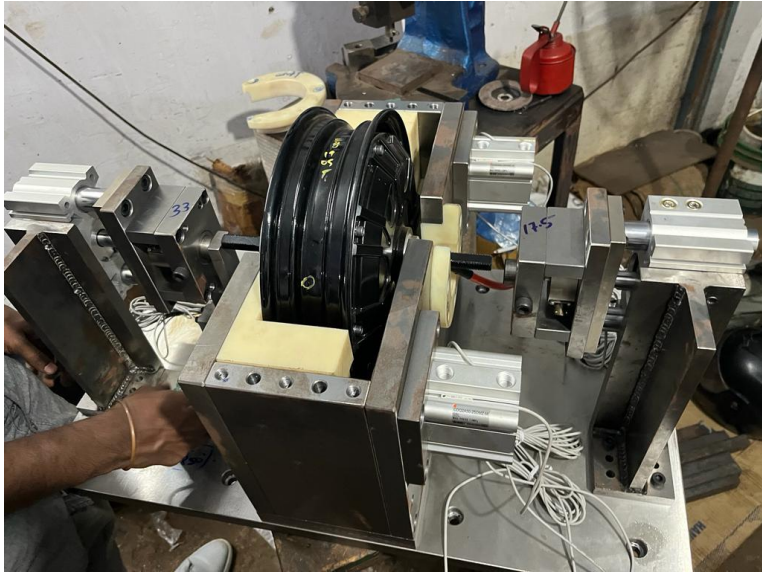
DESIGN AND FABRICATION LOADING AND UNLOADING MACHINE- SEMI AUTOMATIC



DESIGN AND FABRICATION JIGS AND FIXTURES



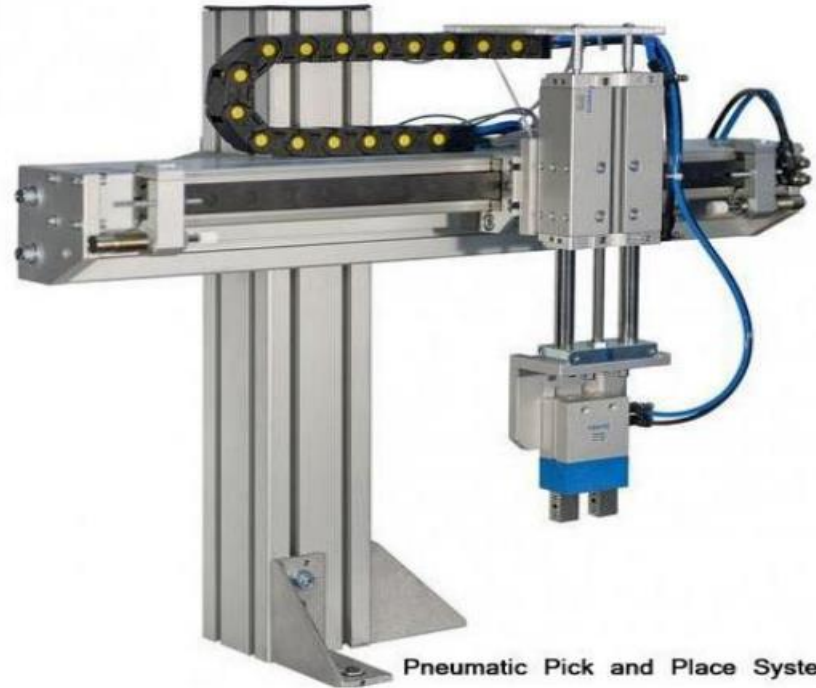
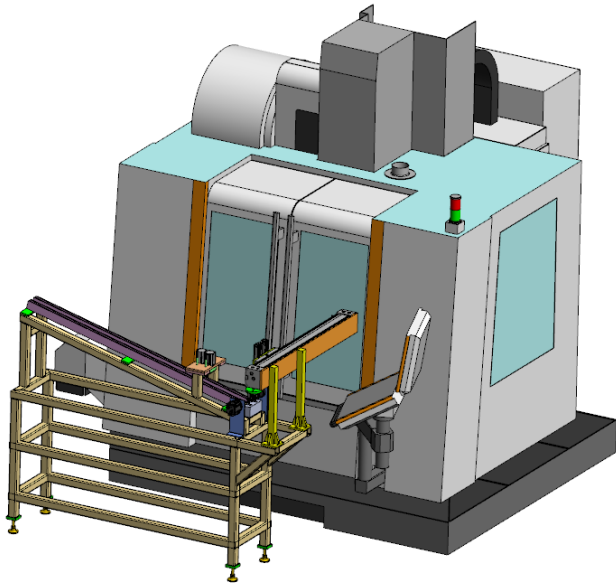
DESIGN AND FABRICATION JIGS AND FIXTURES



LEAK TESTING MACHINE- (DRY & WET)



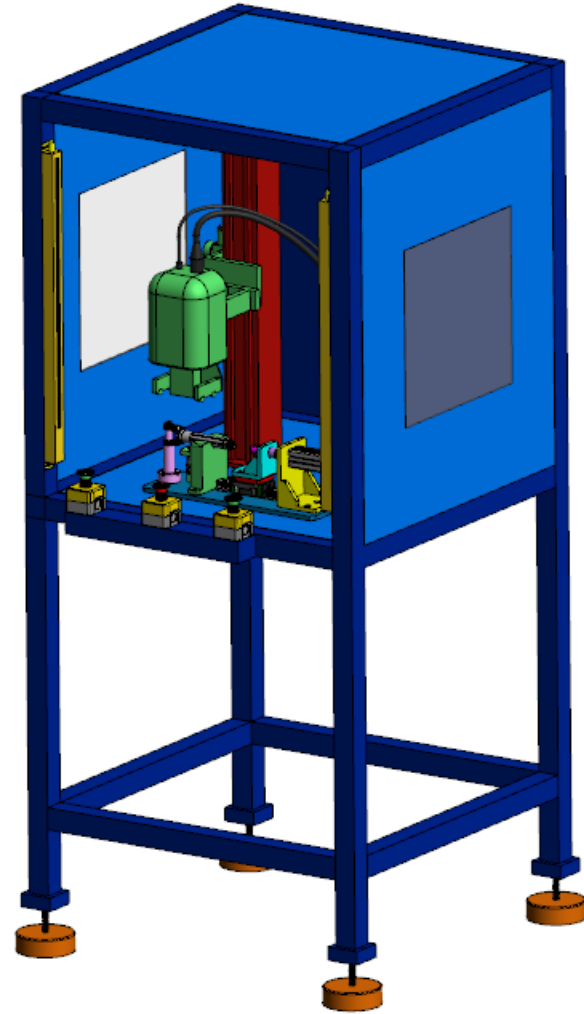
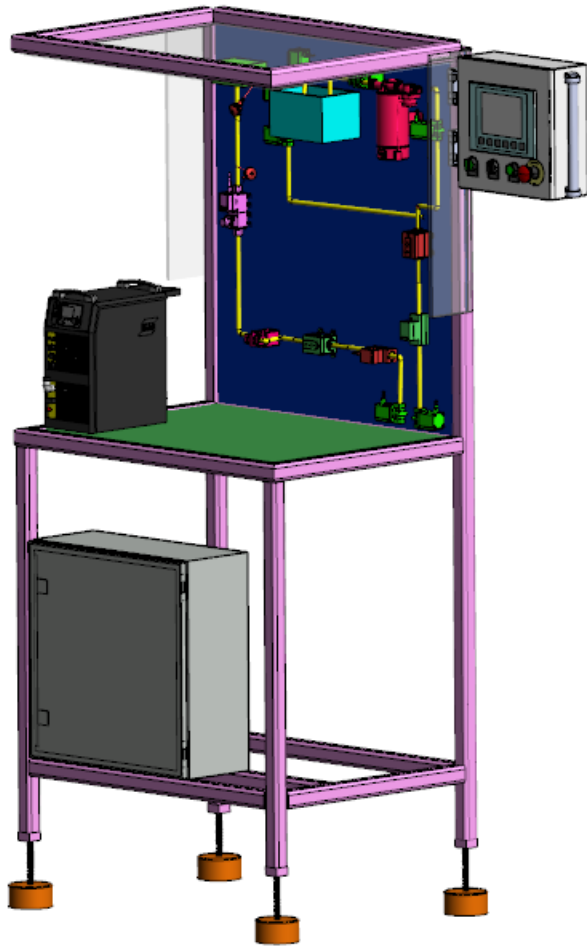
PICK AND PLACE



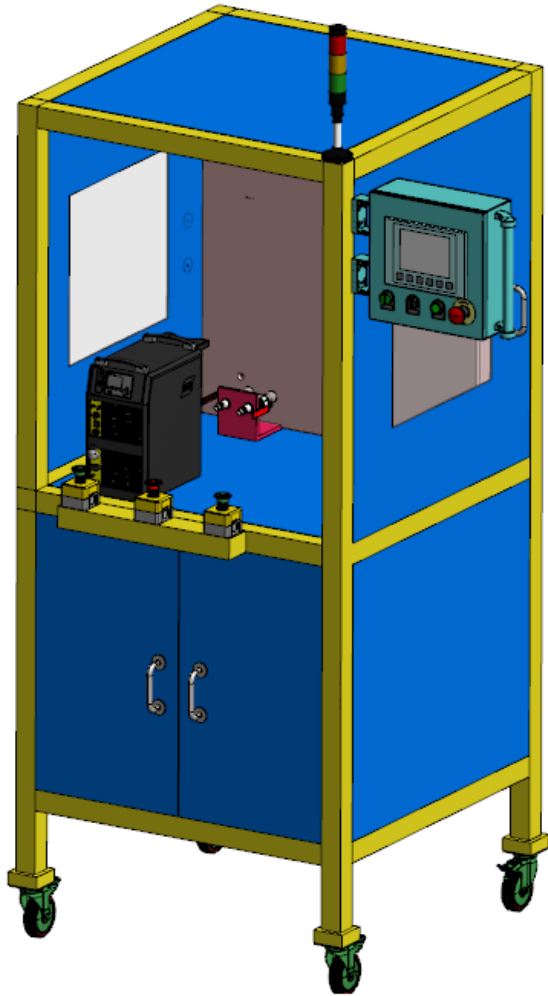
Pneumatic Pick and Place System



PERFORMANCE TESTING MACHINE



LABVIEW BASED PERFORMANCE TESTING MACHINE



PANEL WIRING- PLC PROGRAMMING



AUTOMATION MAJOR PARTS

Bowl Feeders



To feed individual component parts for assembly

Gear / Servo motors



Electric motor uses the basic principles of speed reduction to increase Torque or Force

Sensors



It is a device that detects and responds to some type of input from the physical environment

HMI - Human machine interface

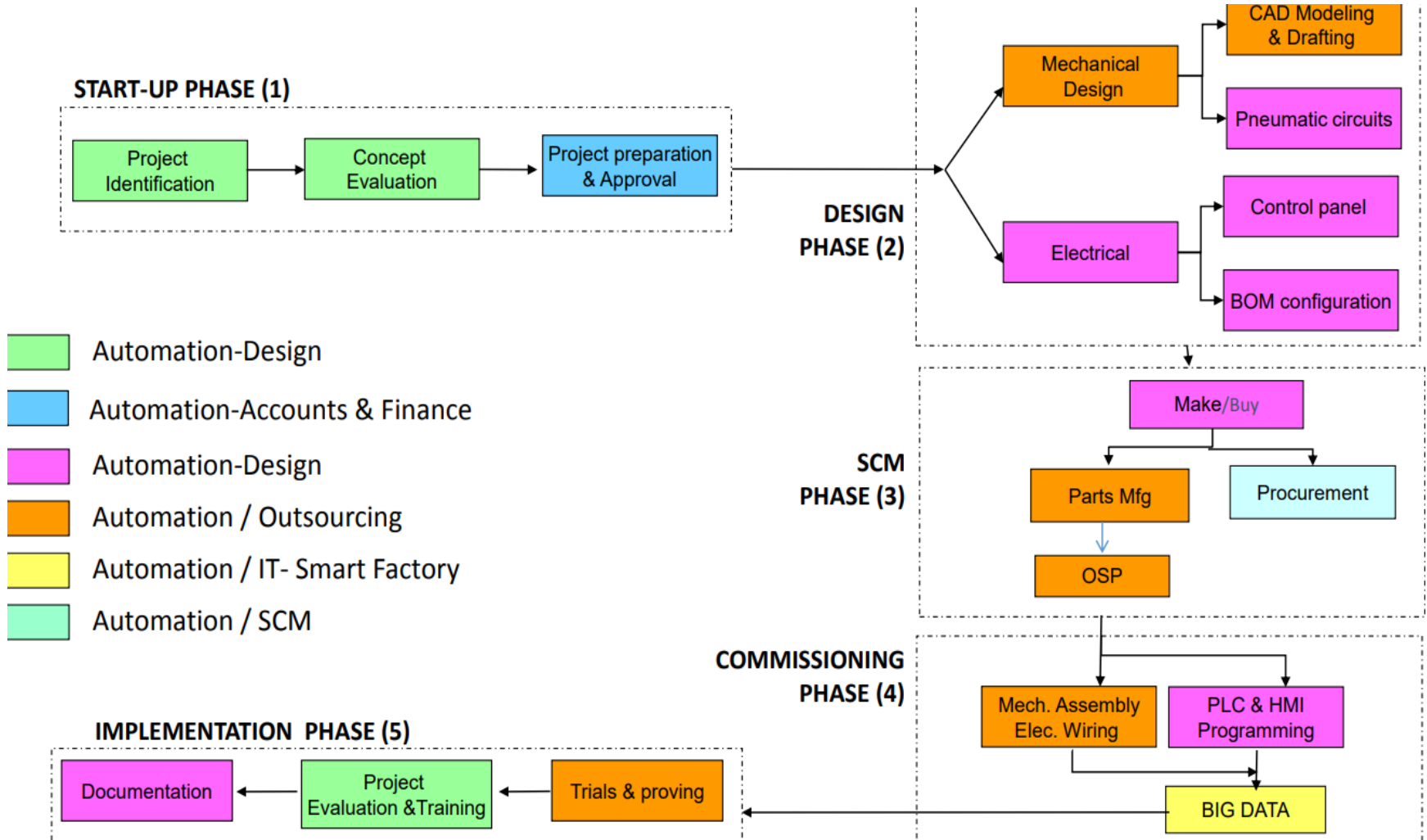


Ability to obtain and display plant data in real time

PROCUREMENT SOURCES

- ❖ PNEUMATICS - Festo, SMC & Schunk
- ❖ LINEAR GUIDES - THK & Hiwin
- ❖ GEAR MOTORS - Bonfiglioli & SEW
- ❖ SERVO MOTORS - Mitsubishi, Siemens & Rexroth
- ❖ GEAR BOX - SSIL & Eppinger
- ❖ FEEDERS - Sortier feeders, Spyro feeders & Elmech feeders
- ❖ PLC - Mitsubishi, Omron, B&R, AB & Siemens
- ❖ ALU. PROFILES - Modular Assembly Technology, Phoneix mecano & Alstrut
- ❖ ACCESSORIES - Misumi
- ❖ BELT - Habasit & Spectraplast
- ❖ SENSORS - Mikrosen, P&F, Balluf & Keyence
- ❖ NYLON ACCESSORIES - Spectraplast
- ❖ ENERGY CHAIN - Igus

AUTOMATION PROCESS FLOW



LOW COST AUTOMATION

- ❖ We develop best in class LCA that resulted in improvement in PQCDs (Productivity, Quality, Cost, Delivery, Safety)
- ❖ To become globally competitive through organizing consistent and reliable manufacturing system to meet customer requirement even under lower wage cost and higher interest rate with our own skill sets.

- ❖ Lesser cycletime
- ❖ Critical to Quality
- ❖ Critical to process
- ❖ Critical to handling
- ❖ More man power involved
- ❖ More than one operator involved in a machine or process
- ❖ Operator fatigue
- ❖ ROI must be less than a year



PRODUCTIVITY
IMPROVEMENT



QUALITY
IMPROVEMENT



KAIZEN



POKAYOKE



SET-UP
CHANGE



SAFETY &
ENERGY

OUR MACHINERIES AND FACILITIES

MILLING MACHINE



Brand new M1TR machine of
Aero Star brand, bed size
1270x 254 x 480mm

MILLING MACHINE-1



MILLING MACHINE-2

SURFACE GRINDING MACHINE



New Surface Grinding Machine
Of Guru Arjan Brand, Bed Size
450x250x300mm



Planner Machine

LATHE MACHINE



Conventional Turning machine
holding capacity of Dia 600mm

Conventional Turning machine
holding capacity of Dia 200mm



OUR RECENT WORKS (TOOL ROOM JOBS AND PRODUCTION JOBS)



OBJECTIVES

- ❖ **Quality** - Consistent Good Quality Products
- ❖ **Cost** - Less Manufacturing cost
- ❖ **Delivery** - Faster Production Rate

OUR CLIENTS:



WHEELS INDIA LIMITED



SAKAZAKI ENGRAVING INDIA
PRIVATE LIMITED



SIBAS
ULTRASONICS



Fueling Innovation



THANK YOU FOR YOUR VALUABLE TIME

