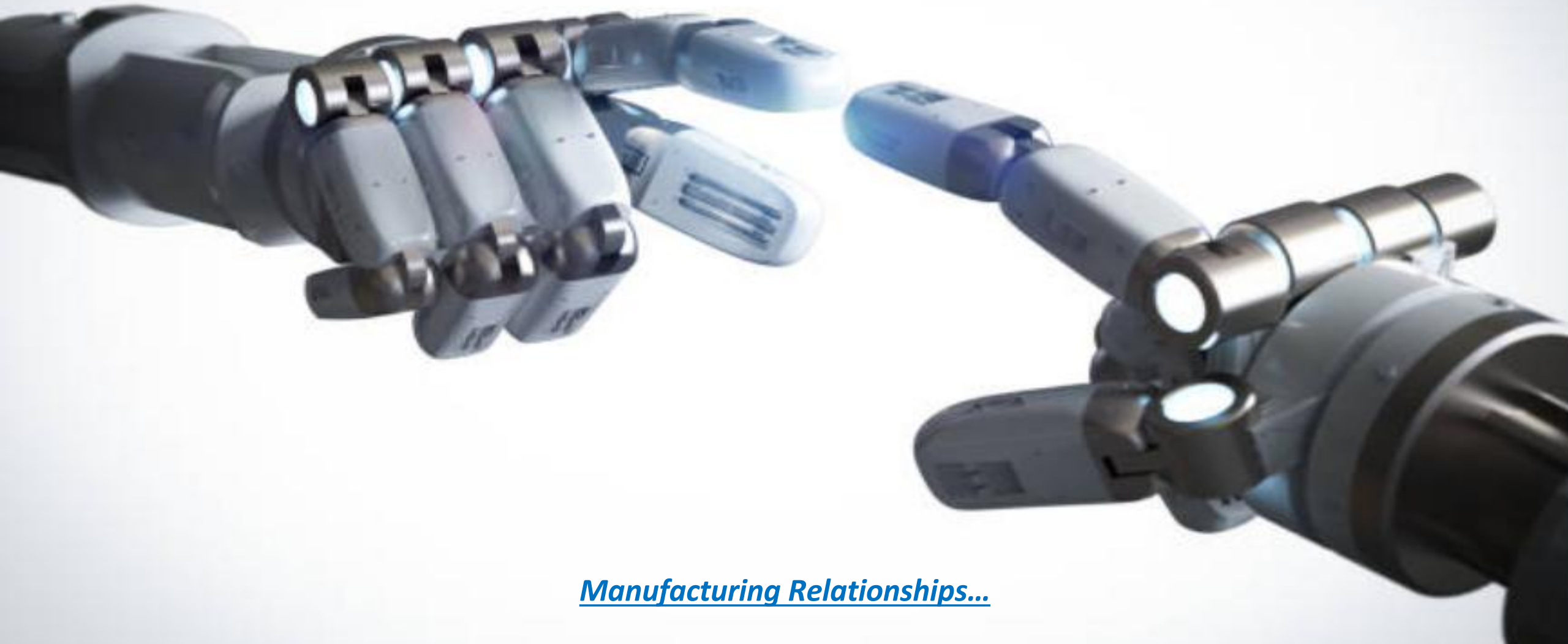


# PRECISION TOOLS & COMPONENTS

H1-830 RIICO Industrial Area, Khuskhera, Bhiwadi, Rajasthan , E-Mail:-[design@ptcbhiwadi.in](mailto:design@ptcbhiwadi.in)



*Manufacturing Relationships...*

- *your...finest Tooling & automation partner*

**PTC** is an India based Automation Company. From specialized welding assembly line, assembly line automation, & machine builder, PTC continues to drive forward-thinking tech solutions and improve production line efficiencies for the automotive industry and offer round-the-clock service support.

Khuskhera, Bhiwadi,  
Rajasthan



**PTC** is established in 2012 with an objective to serve the industry in the field of,

- Special Purpose Machines
  - Mig Welding & Cells
  - Robotic Automation & Process Automation
  - Sheet Metal & Tubler Parts Press Tolling
- All kinds of Industrial Automation Solutions!!!**

## Project Flow

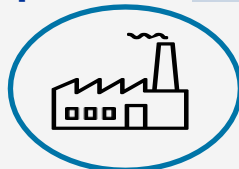
**PTC** offers a complete, one-stop solution for the automotive industry. From first contact to after-sales support, our team ensures that customers get the specialized machines and service they need.



CONCEPT AND  
DESIGN



PROGRAMMING



MANUFACTURE



ASSEMBLY



COMMISSIONING



INSTALLATION



TRAINING



AFTER-SALES  
SERVICE

• *Making your dreams in move*

# VISION AND MISSION



**“To be the Creative & Transforming Technology Organization”**



**1**

**We “Think”**



**2**

**Make “Concept”**

[www.ptcbhiwadi.in](http://www.ptcbhiwadi.in)



**3**

**“Build” It**

# OUR STRENGTH...



2 Wheelers



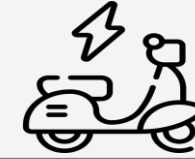
4 Wheelers



Earth Moving &  
Agriculture Equip.



Commercial Veh.  
[Railways & Otrs.]



EV



Medical & Export



PRECISION TOOLS & COMPONENTS





## Areas Of Expertise



### Automotive ( 2 Wheelers)

Manual & Robotic Weld Line (Frame , Swing Arm , Muffler , Handlebar), Inspection Gauges, Notching , Drilling, Leak Testing SPM's, Etc



### Automotive ( 4 Wheelers)

Manual & Robotic Weld Line (Steering Beam Hanger , Hood Lock Engine Mounting ), Inspection Gauges, Notching , Drilling, Leak Testing SPM's, Etc



### Automotive & Earth Moving Equipment's

Manual & Robotic Weld Line (Roof ) Drilling SPM's, Inspection Gauges, Etc

Highly Efficient team with 18+ years of experience in the field Automation & Robotics, enables us for engineering the possibilities.

# We Are For

- 
- A decorative graphic on the left side of the slide consists of four vertical bars of increasing height from left to right. Each bar has a horizontal arrow pointing to the right, starting from the top of the bar. The bars and arrows are colored in a gradient: dark blue, medium blue, teal, and light green.
- ❖ The highly price sensitive manufacturing industry needs SPMs & customer solutions that are efficient, innovative, reliable & cost effective. We are a technology & innovation driven organization with state-of-the-art with highly skilled expert team of engineers, Designers & Technicians.
  - ❖ Organization started by experienced professionals to cater the solutions to the industries in the field of Automation.
  - ❖ Our core strengths are Designing, Manufacturing, Product proving, Quality and in time commissioning & servicing.
  - ❖ Our vision is to satisfy our customers through Quality , New technology and innovation & continual improvements in our products & services.

## Process Planning & Idea

- Optimized Process Planning with full Utilization of Investment
- Line Balancing
- Multi Model Concept
- High Automation & Less Manpower

## Design & Innovaion

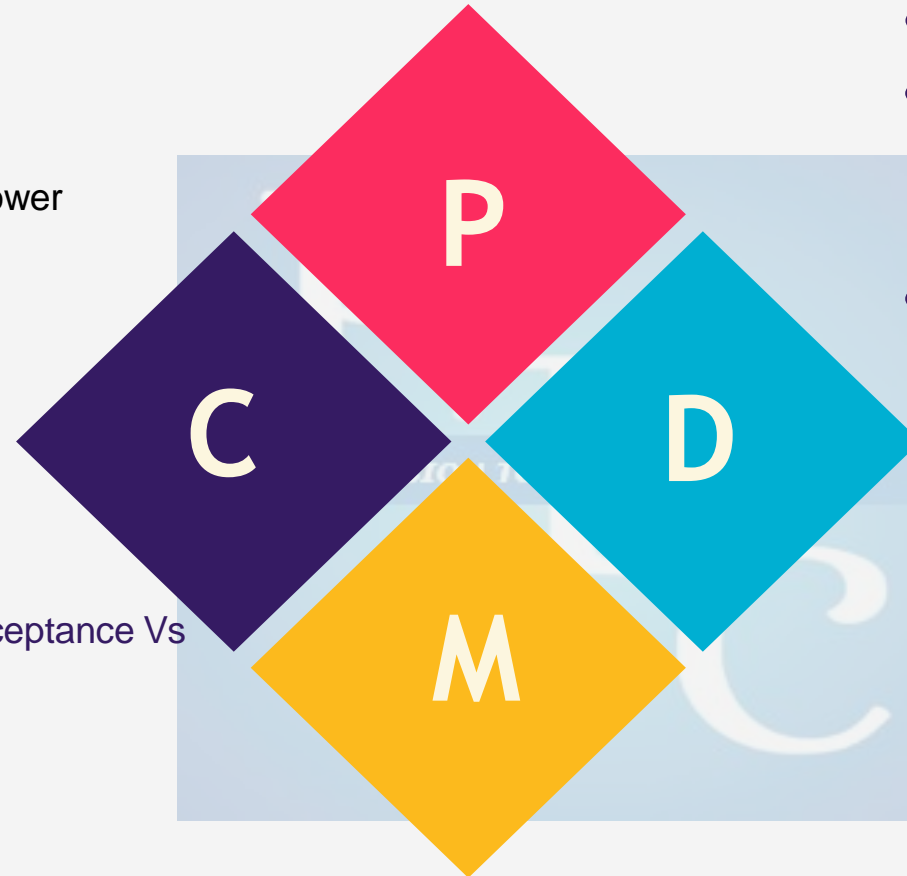
- Design for Quality & Delivery Consistency
- Cost Competativeness & Regidity
- Updated Technology with Global Stanards of Mechanical, Pneumatics, Hydraulics, Electrical & Electronics
- Easy for Maintenance & Manage

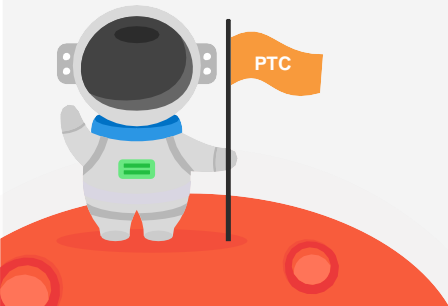
## Commissioning & Service

- Commitment is Commitment Acceptance Vs Execution
- Training & Service Support
- Online Support
- Data Support

## Manufacturing & Trials

- Using Highly Pricise Machineries for Maintain Accuracy in the Child Parts & Assembly Outcome
- Specification Validation with CMM
- Ergonomic & Fatique Judgement





- Joint Trail @ PTC End
- Installation & Commissioning Customer End

## Trial & Installation

### Manufacturing

- Standard BOP – As Per Customer Spec
- Fabrication – In-House / Outsource
- Machining & HT – In-House / Outsource
- Inspection – In-House

## Design & Simulation

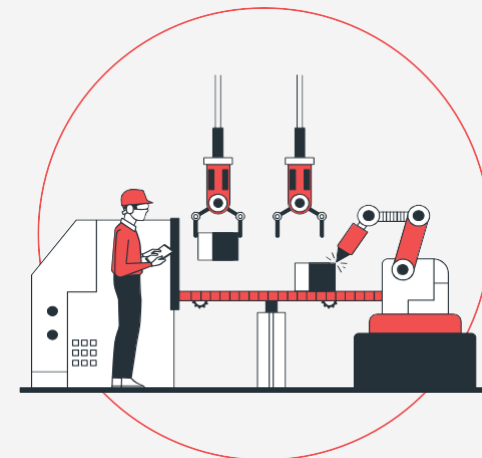
- In-House
- Out Source

## Design Approval

- Customer
- PTC

## Assy & Inspection

- In-House





# Manufacturing Setup



**VMC**  
600x400 mm : 1nos  
700x1330 mm : 1nos  
800X1600 mm : 1nos



**CNC**  
1060 mm : 1nos



**Milling**  
300x1200 mm : 4nos



**Surface Grinding**  
200x400 mm : 6 nos



**Lathe**  
6-8 Fit : 5 nos



**Tool & Cutter**  
1 nos



**Cylindrical Grinder**  
600 mm : 1 nos



**Bend Saw**  
350 mm : 2 nos



**Tapping MC**  
24 mm : 1 nos



**Welding**  
Mig : 3 nos  
Arc : 2 nos



**Portable CMM**  
1.2 mtr : 1 nos  
2.5 mtr : 1 nos  
2.7 mtr : 1 nos



**VVM**  
150mm : 1 nos

PRECISION TOOLS & COMPONENTS

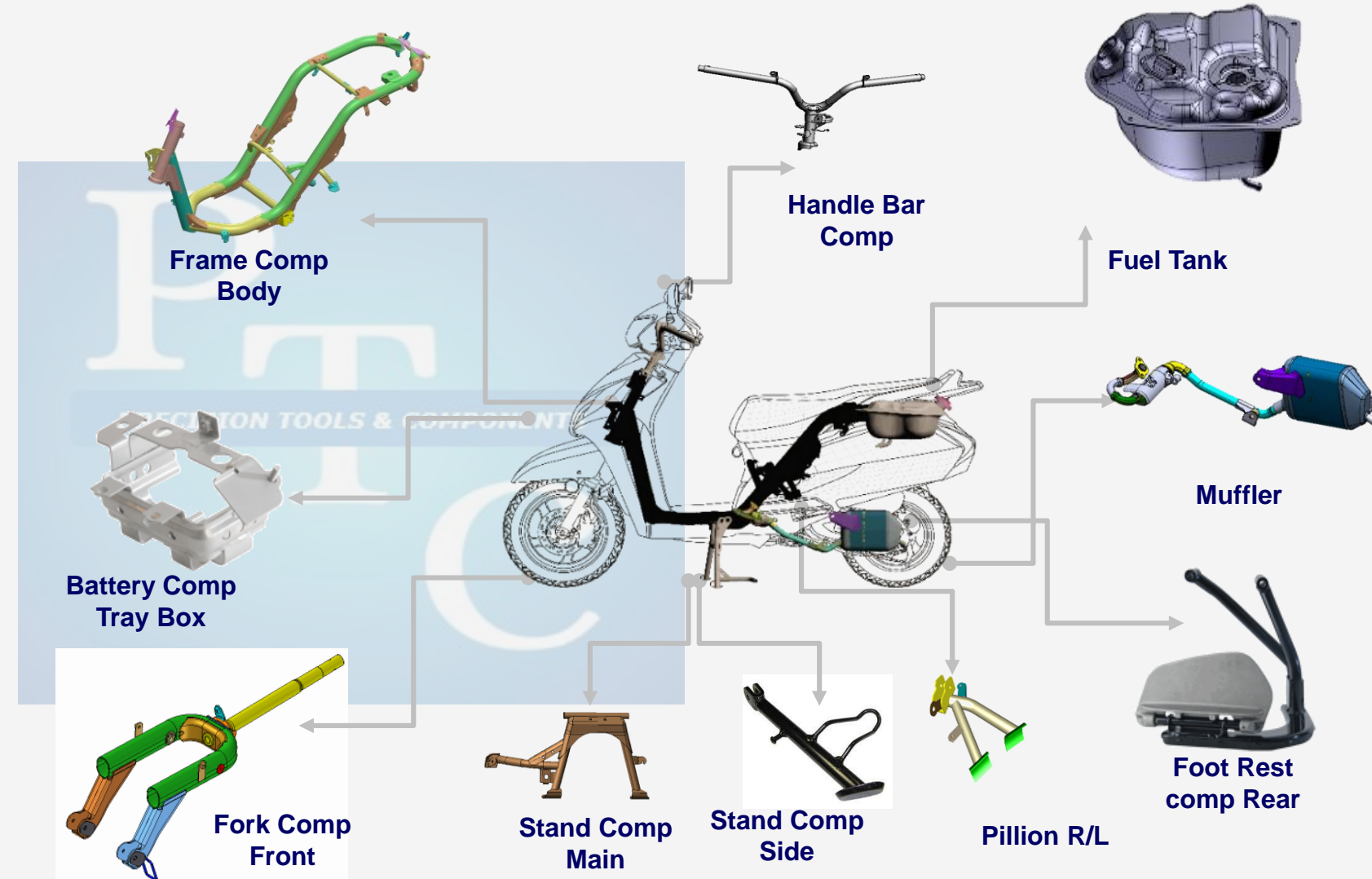
## Welding Lines

Design to Build Robotic Welding cells, SPMs, Welding Fixtures etc. to meet the productivity and consistency.

### Parts Description

- Main Frame
- Front Frame
- Rear Frame
- Main Stand
- Side Stand
- Bar Comp Step
- Battery Box
- Pivot Link
- Engine Link Hanger
- Muffler
- Exhaust Pipe
- Handle Bar

## 2-Wheeler Scooter Parts



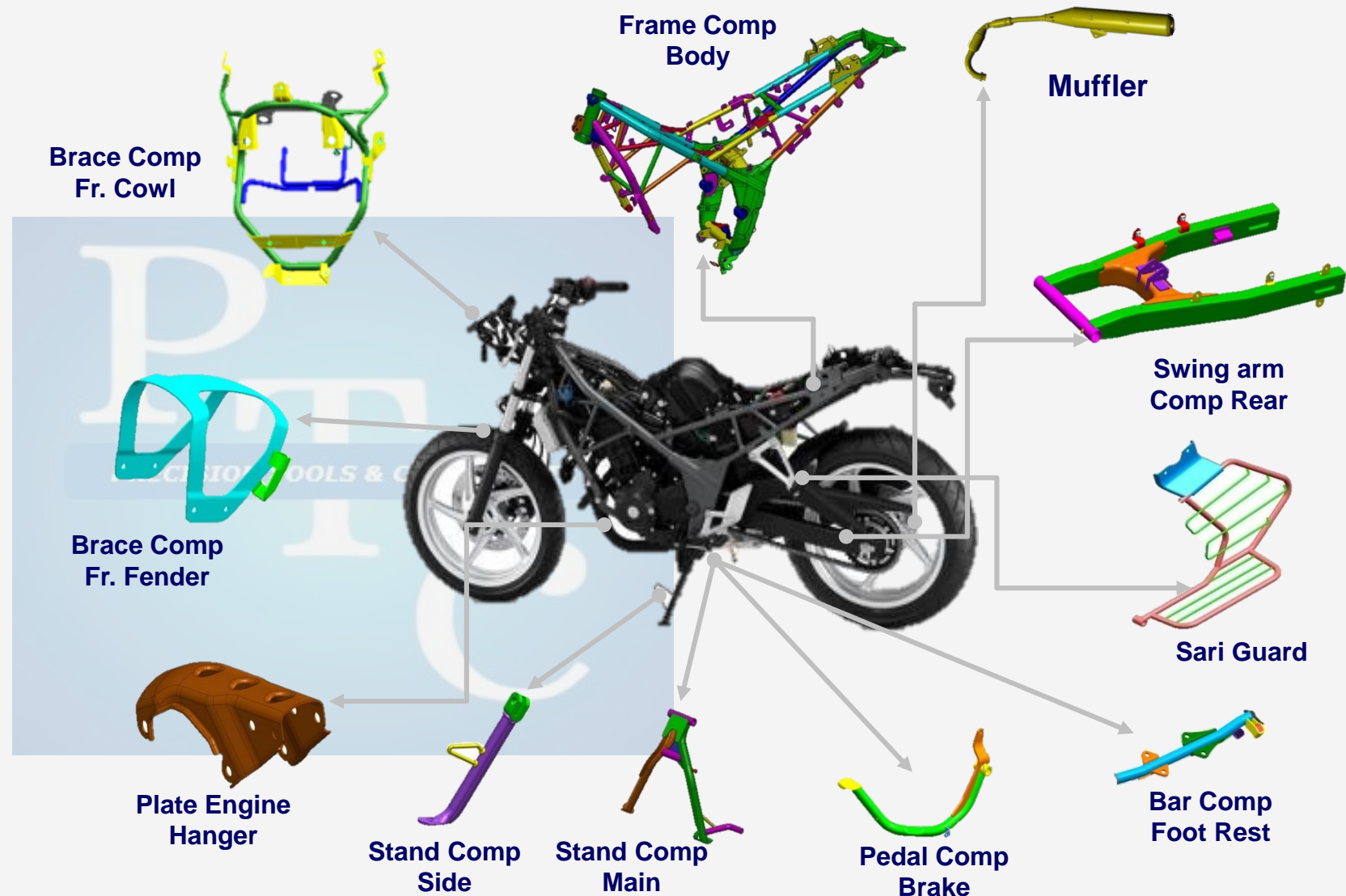
## Welding Lines

Design to Build Robotic Welding cells, SPMs, Welding Fixtures etc. to meet the productivity and consistency.

### Parts Description

- Main Frame
- Front Frame
- Rear Frame
- Main Stand
- Side Stand
- Swing arm
- Mudguard
- Exhaust Pipe Muffler

## 2-Wheeler Motorcycle Parts



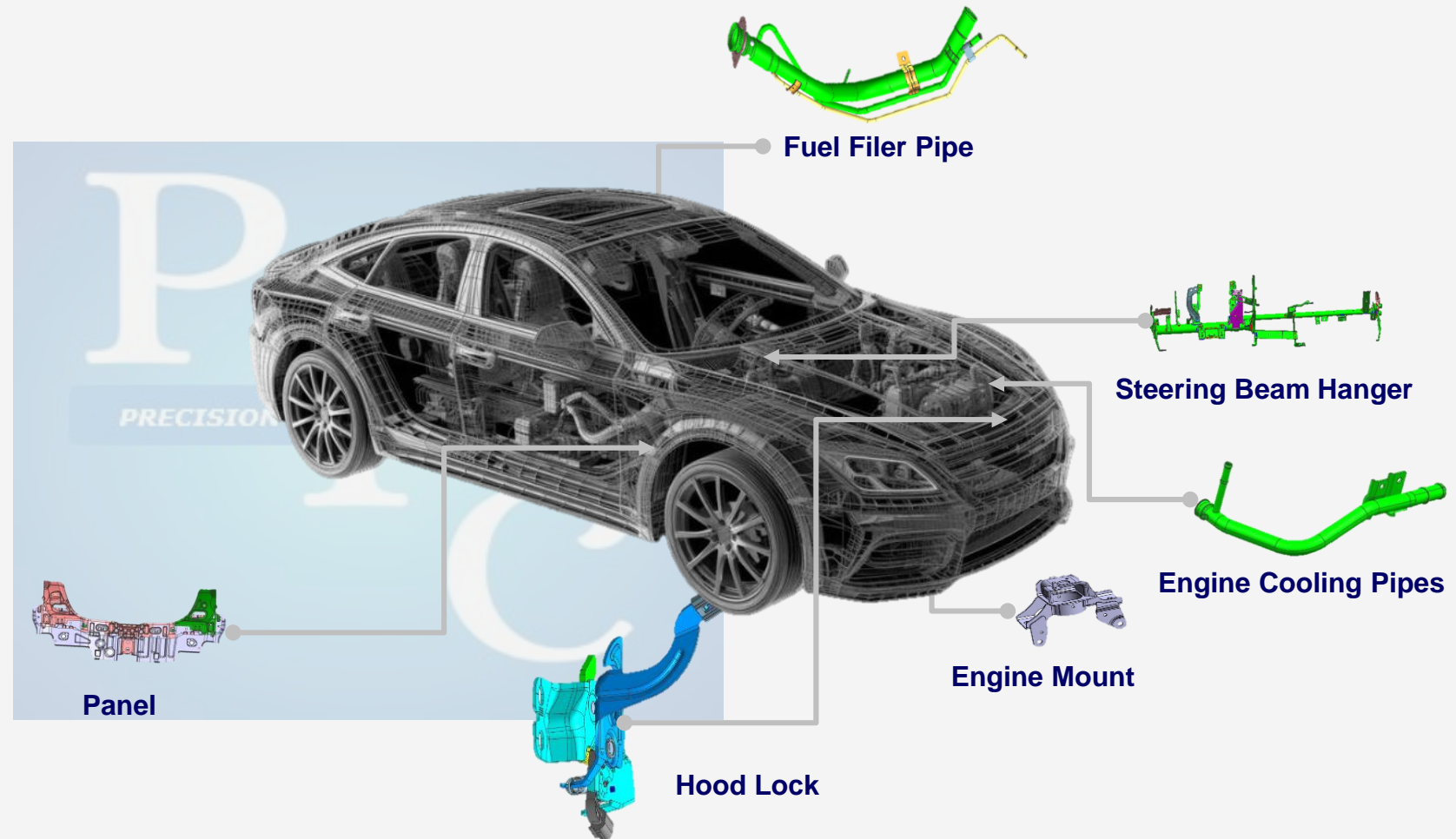
## Welding Lines

Design to Build Robotic Welding cells, SPMs, Welding Fixtures etc. to meet the productivity and consistency.

### Parts Description

- Steering Beam Hanger
- Fuel Filler Pipe
- Engine Mounting
- Hood Lock
- Panel
- Engine Parts

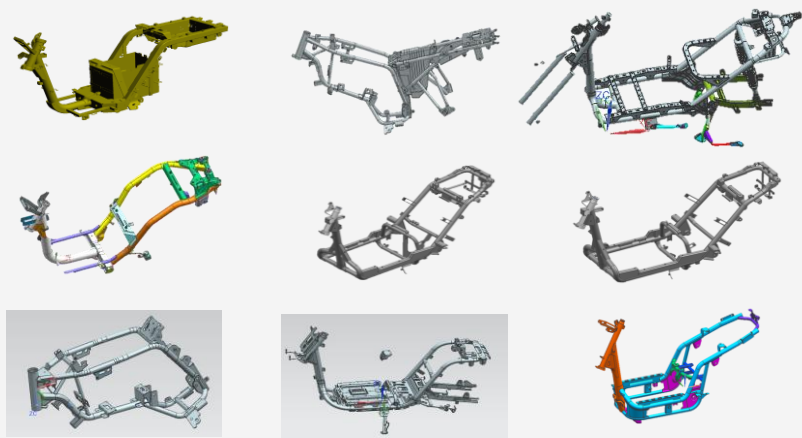
### 4- Wheeler Car Parts





		
<p><b>Frame body Assy.</b></p>	<p><b>Muffler Assy.</b></p>	<p><b>Swing arm</b></p>
	<p>PRECISION TOOLS &amp; COMPONENTS</p> 	
<p><b>Stand Comp &amp; Side Stand</b></p>	<p><b>Handlebar Comp.</b></p>	<p><b>Battery Box</b></p>





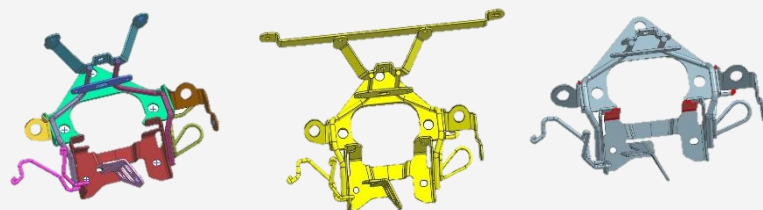
**EV Frame Body Assy.**



**Fr Cover & Fender**



**Carrier comp& rear grip**

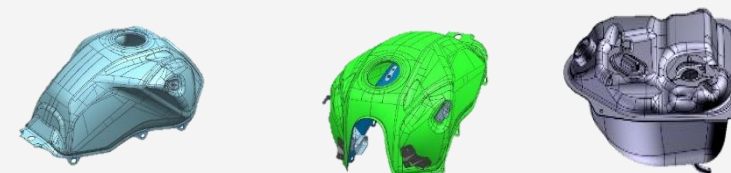


**COWL**

PRECISION TOOLS & COMPONENTS



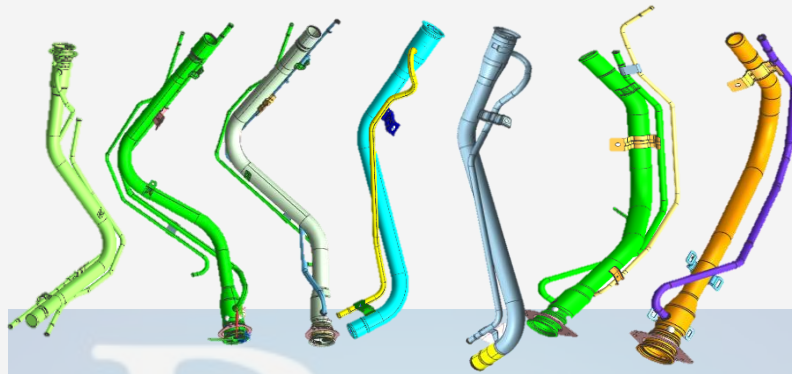
**Link Engine Hanger**



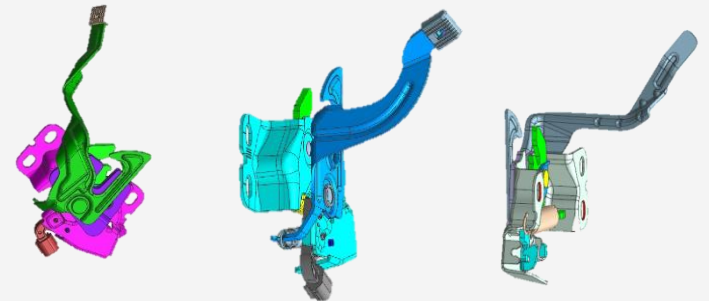
**Tank Comp Fuel**



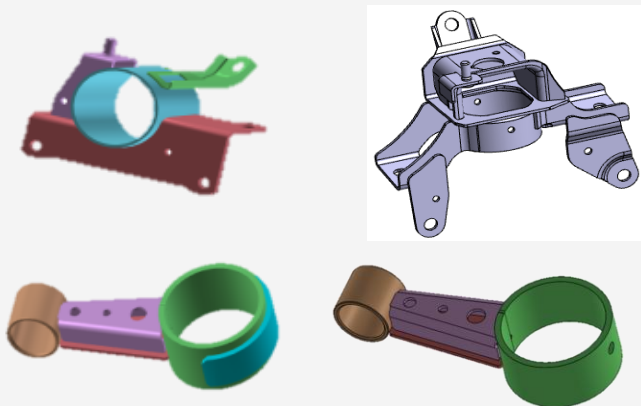
**Steering Beam Hanger**



**Fuel Filler Pipe**



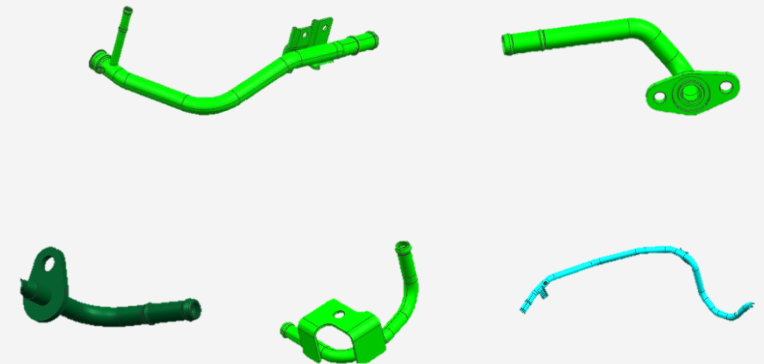
**Hood Lock**



**Engine Mount**

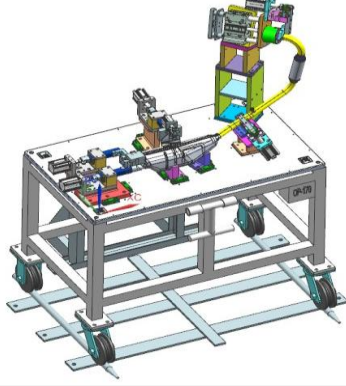
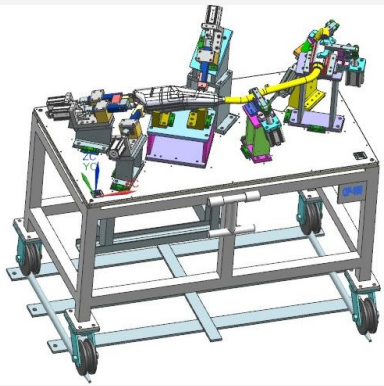


**PANAL**

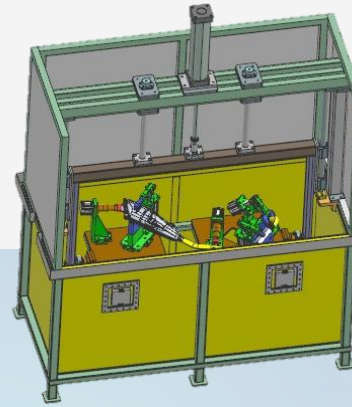
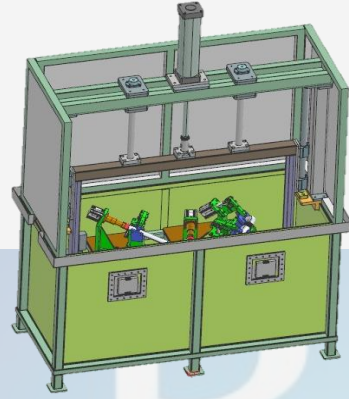


**Engine Part**

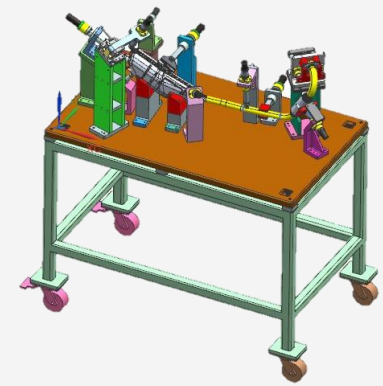
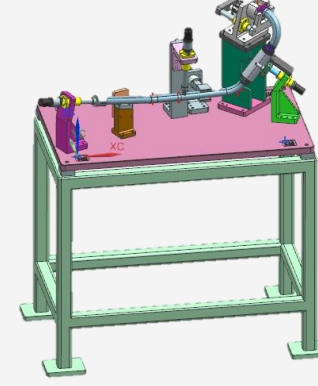
## Muffler Comp Exh. Weld Line



Welding Fixture's (Manual / Robotic)



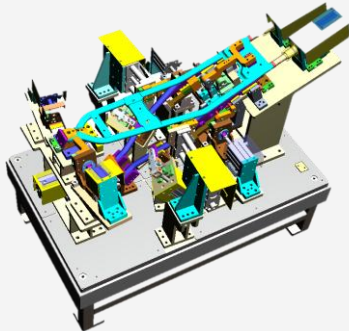
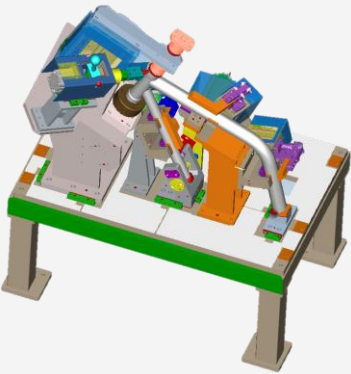
Leakage Testing SPM's



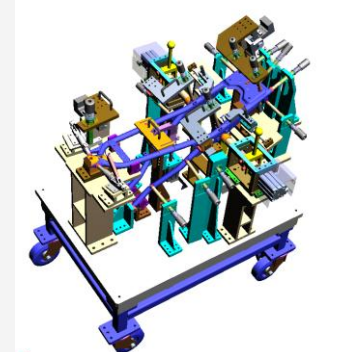
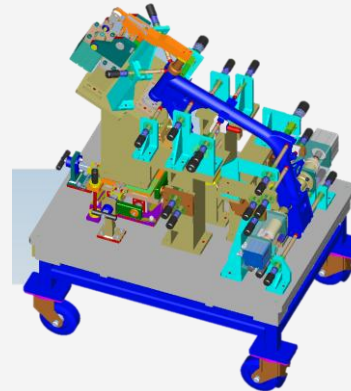
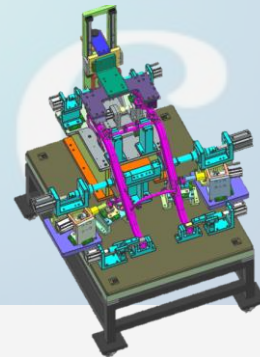
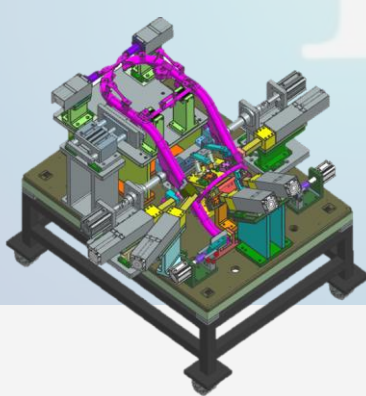
Inspection Gauge

## Frame Body Comp Weld Line

PRECISION TOOLS & COMPONENTS



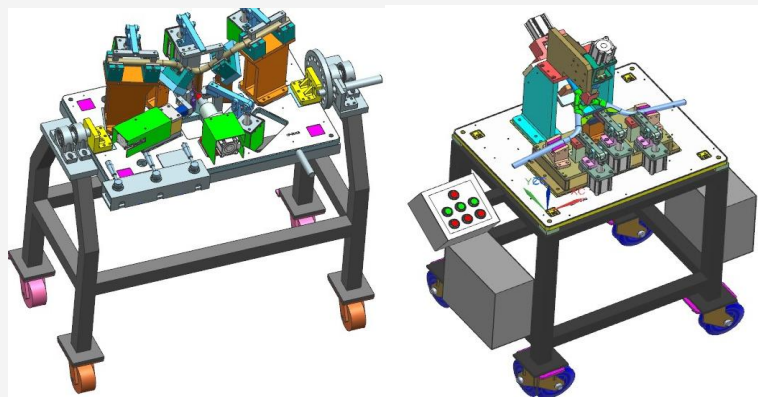
Welding Fixture's (Manual / Robotic)



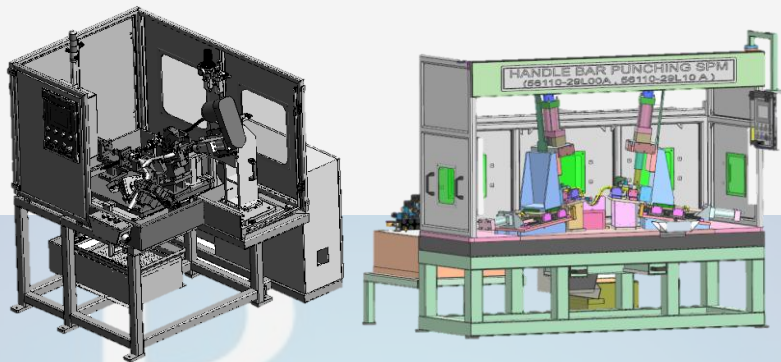
Inspection Gauge



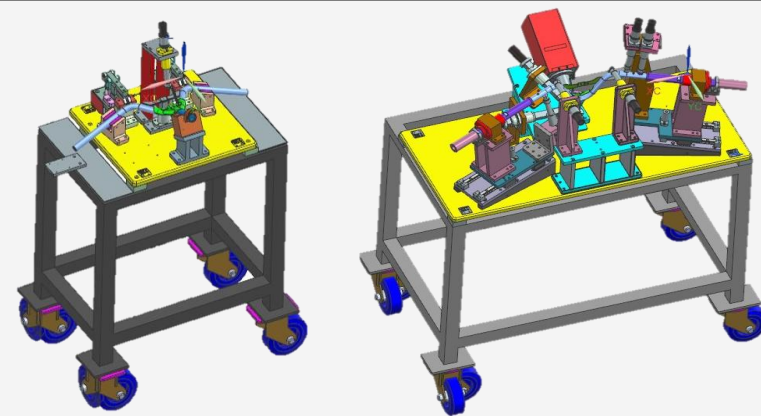
## Handlebar Comp. Weld Line



Welding Fixture's (Manual / Robotic)



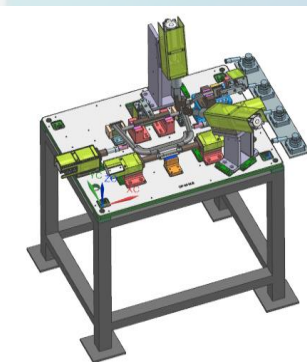
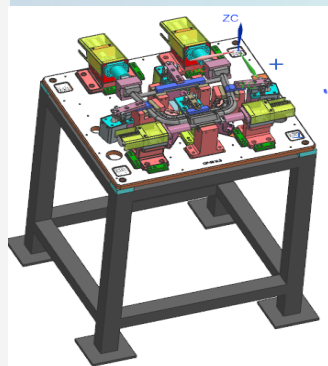
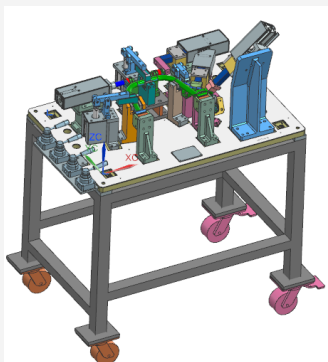
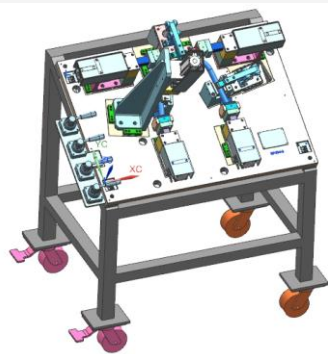
SPM's



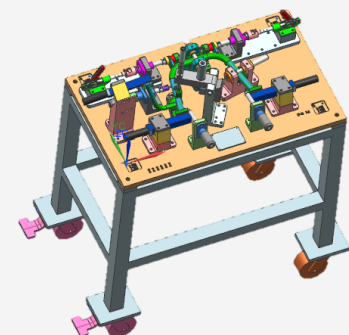
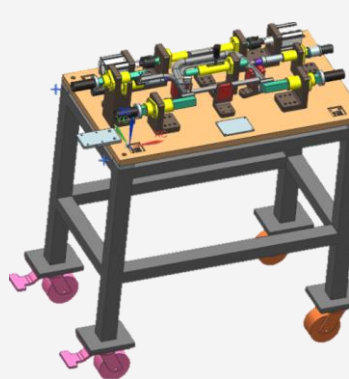
Inspection Gauge

## Stand Comp Center Weld Line

PRECISION TOOLS & COMPONENTS

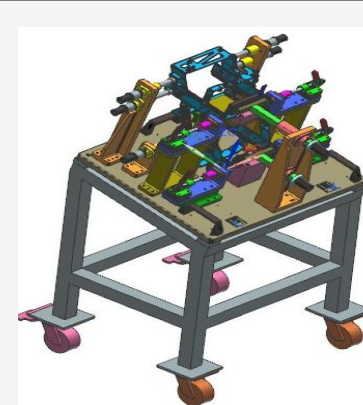
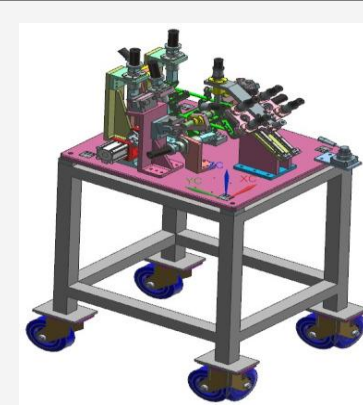
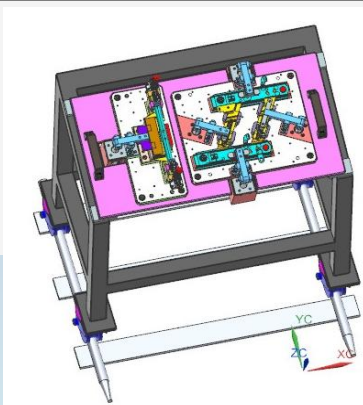
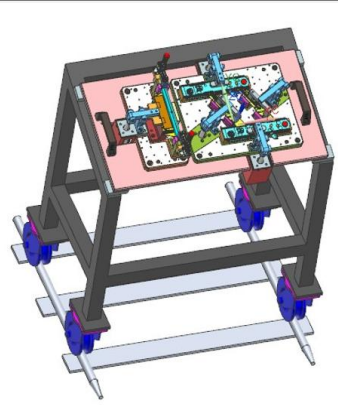
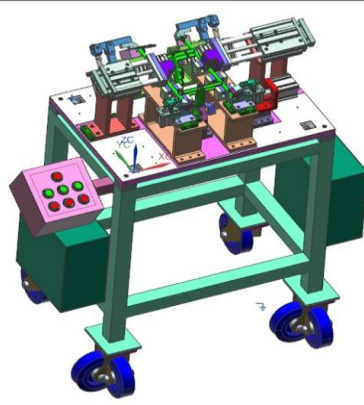
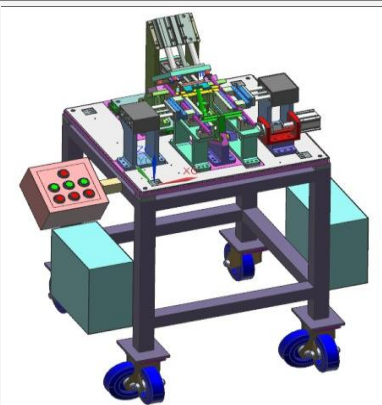


Welding Fixture's (Manual / Robotic)



Inspection Gauge

## Battery Comp Weld Line

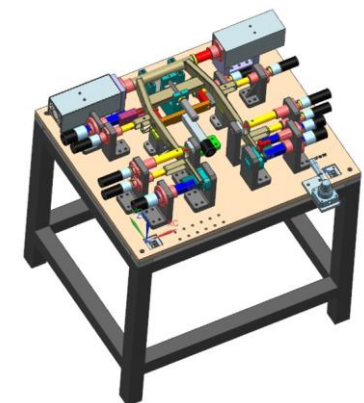
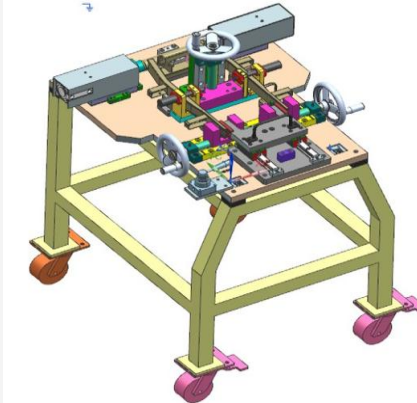
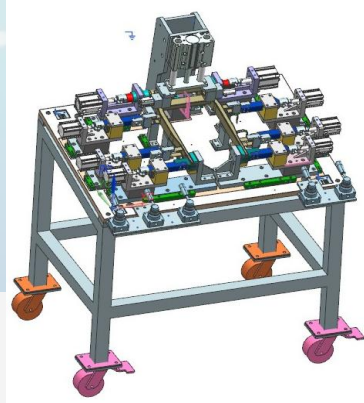
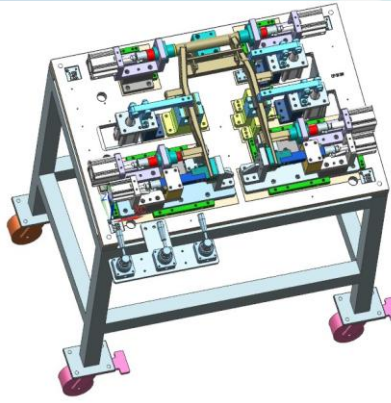
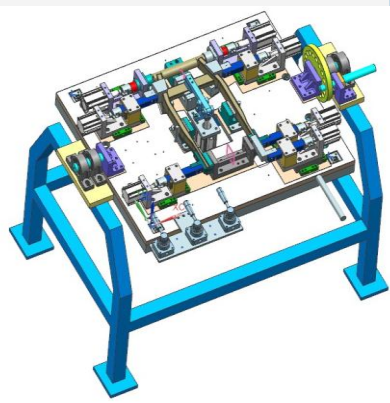
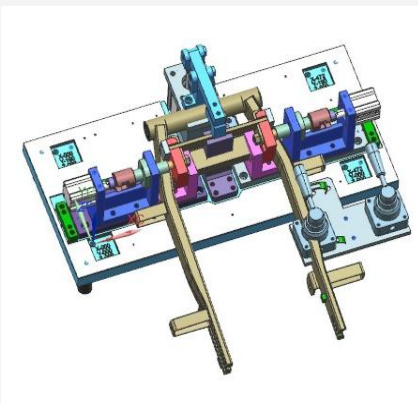


Welding Fixture's (Manual / Robotic)

Inspection Gauge

## Swing Arm Comp Weld Line

PRECISION TOOLS & COMPONENTS

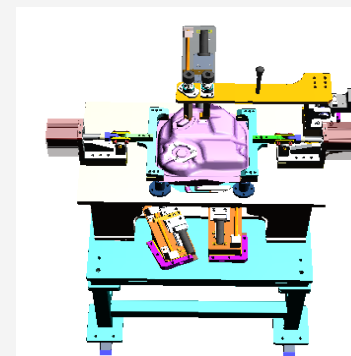
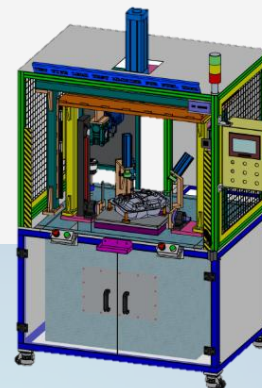
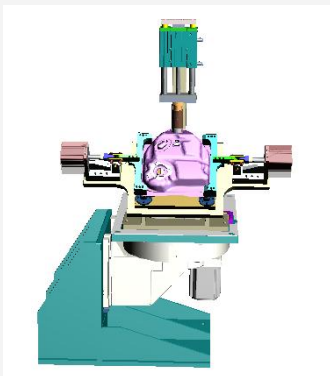
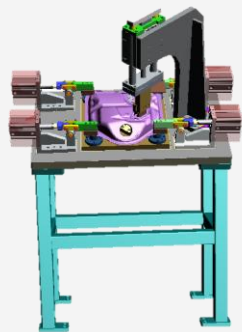


Welding Fixture's (Manual / Robotic)

Inspection Gauge



## Tank Comp Fuel Weld Line

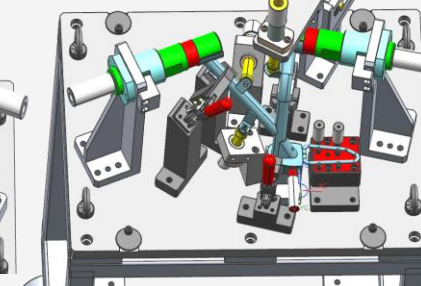
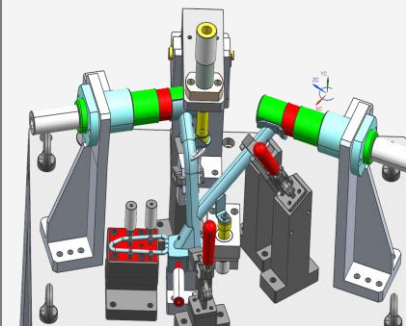
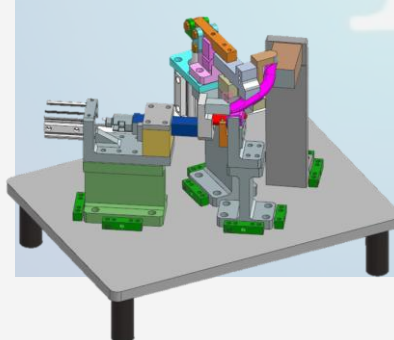
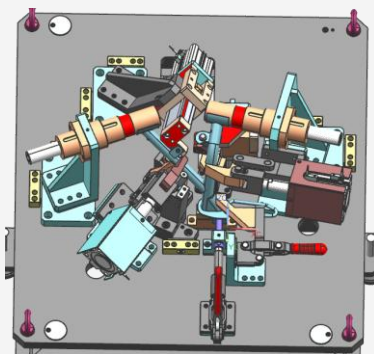
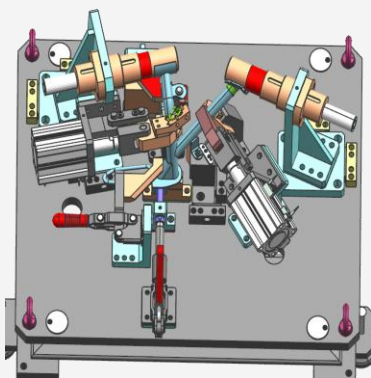


Welding Fixture's (Manual / Robotic)

Welding SPM's

Inspection Gauge

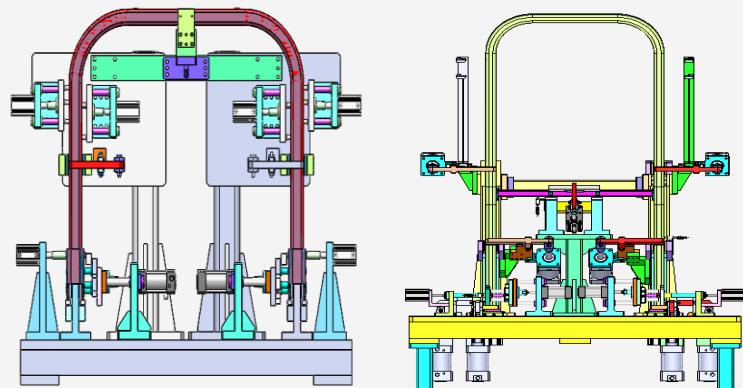
## Pillion Comp R/L Weld Line



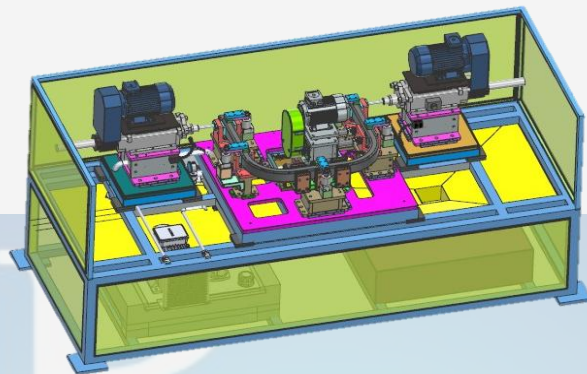
Welding Fixture's (Manual / Robotic)

Inspection Gauge

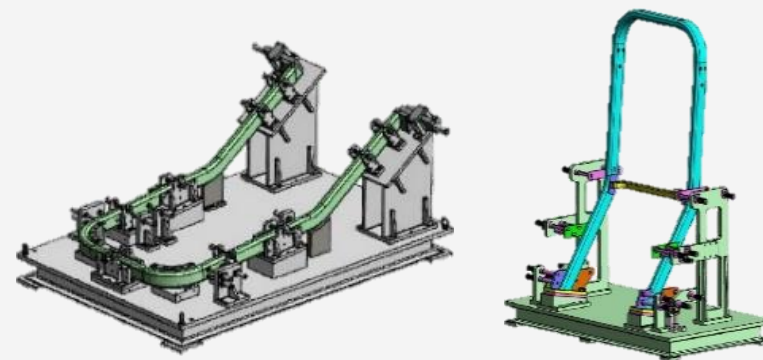
## Rops Weld Line



Welding Fixture's (Manual / Robotic)

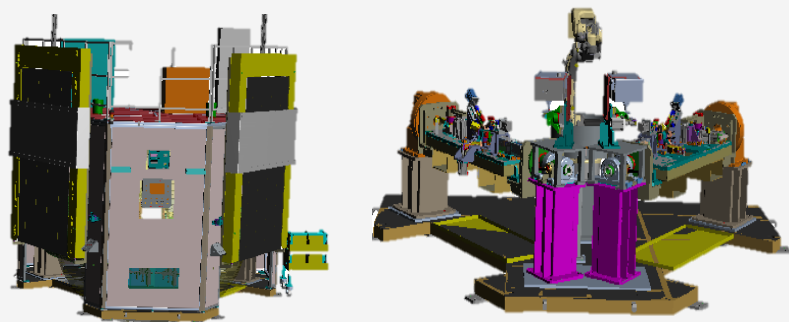


Drilling SPM SPM's



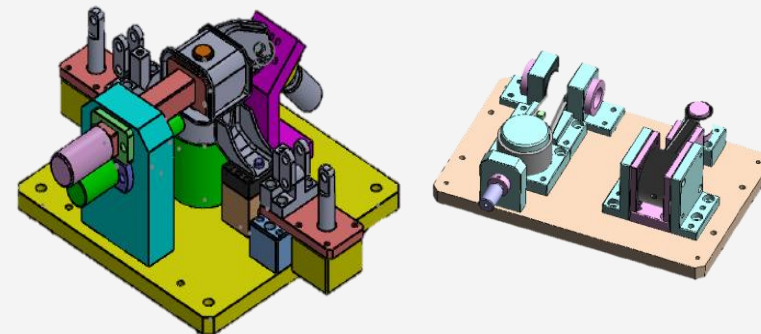
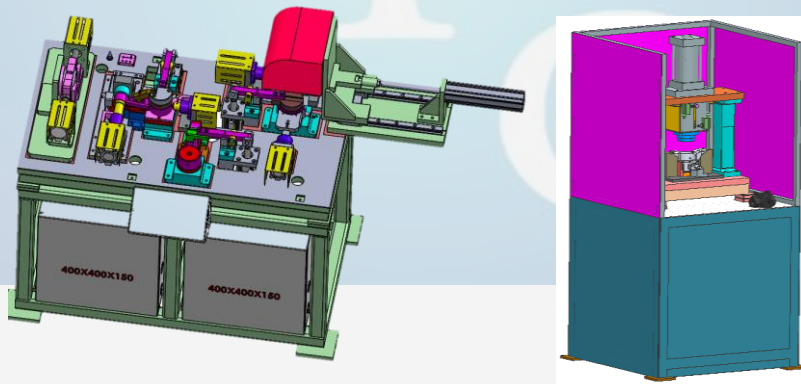
Inspection Gauge

## Engine Mounting Weld Line



Welding Fixture's (Robotic)

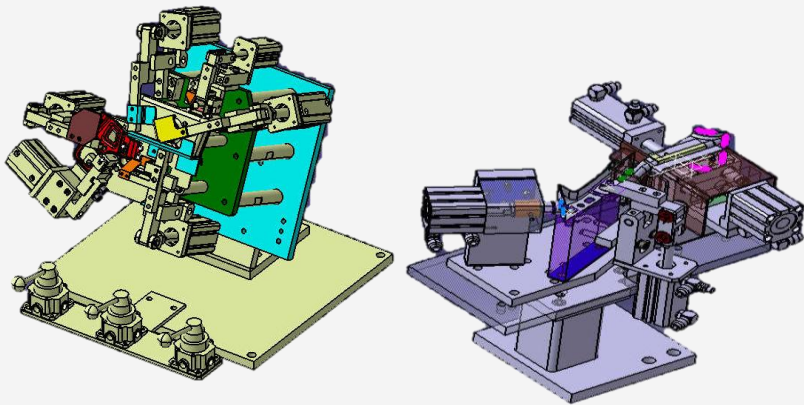
### PRECISION TOOLS & COMPONENTS



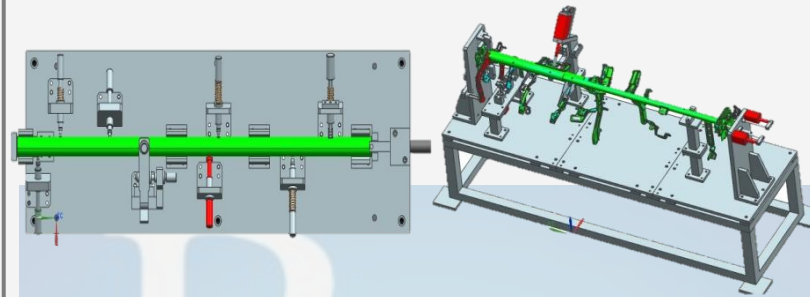
Inspection Gauge



## Steering Beam Hanger Line

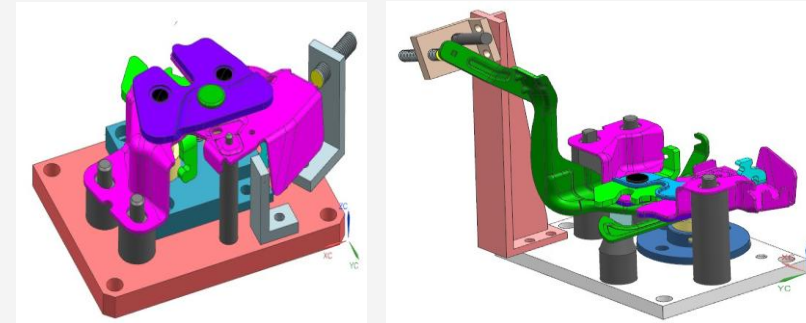


Welding Fixture's (Manual / Robotic)



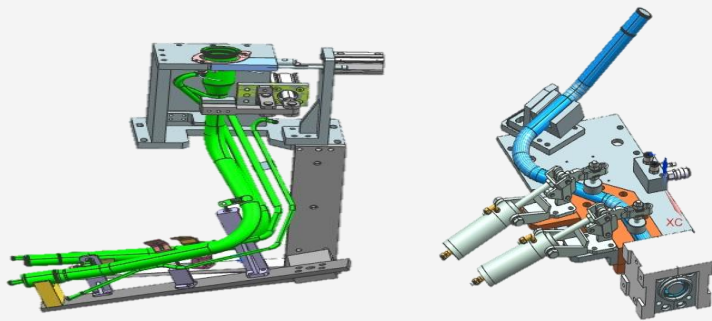
Inspection Gauge

## Hood Lock



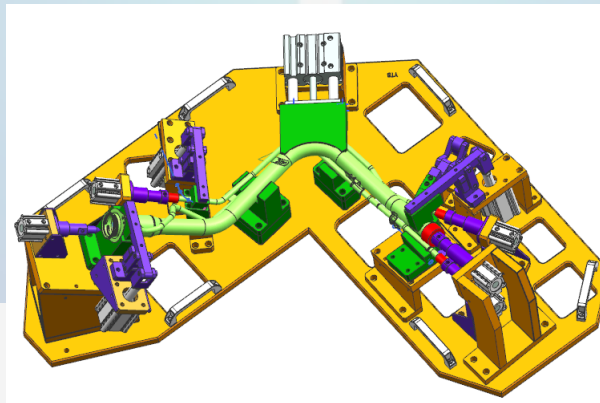
Assy. Jig

## Fuel Filler Pipe Line

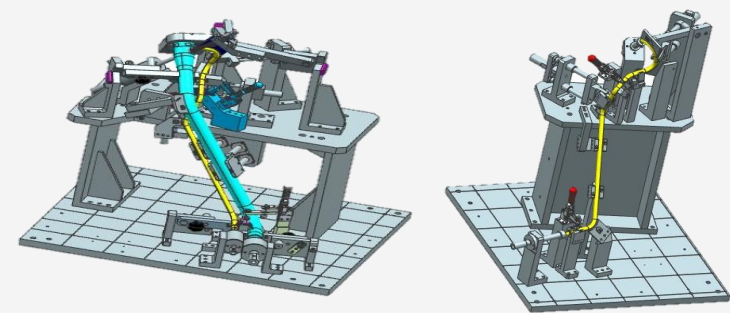


Welding Fixture's (Manual / Robotic)

PRECISION TOOLS & COMPONENTS

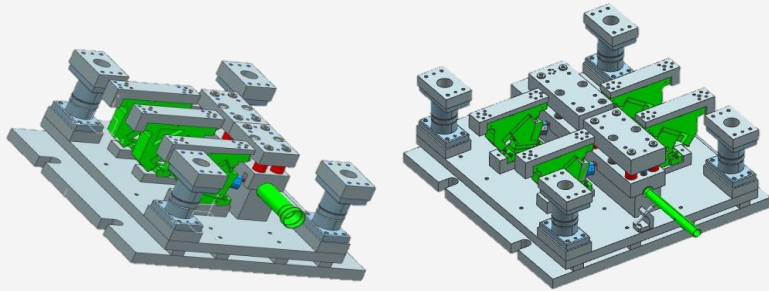


Leak Testing SPM

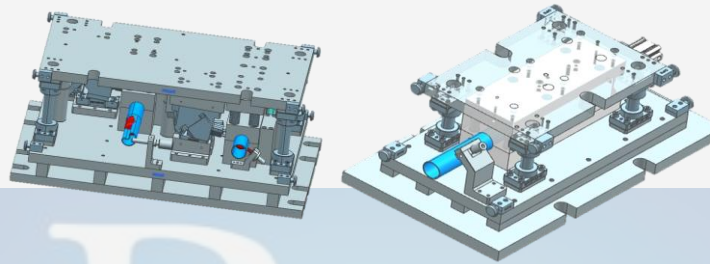


Inspection Gauge

Steering Beam Hanger Line

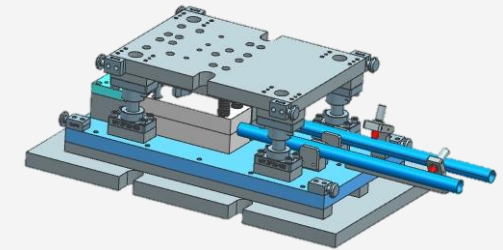


Piercing Tool



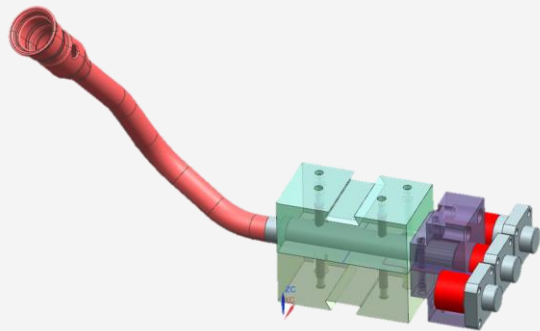
Cam Piercing & Forming Tool

Hood Lock

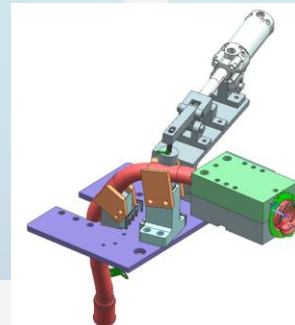


Notching Tool

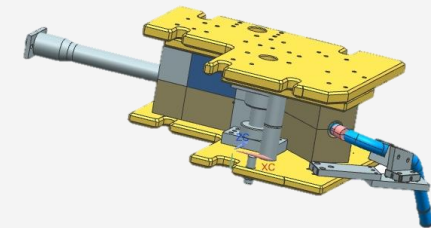
Fuel Filler Pipe Line



Bulge Tool



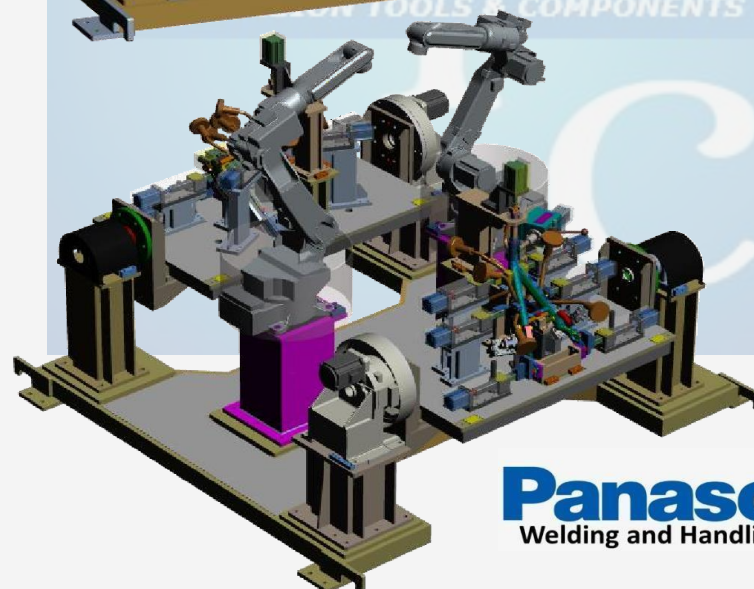
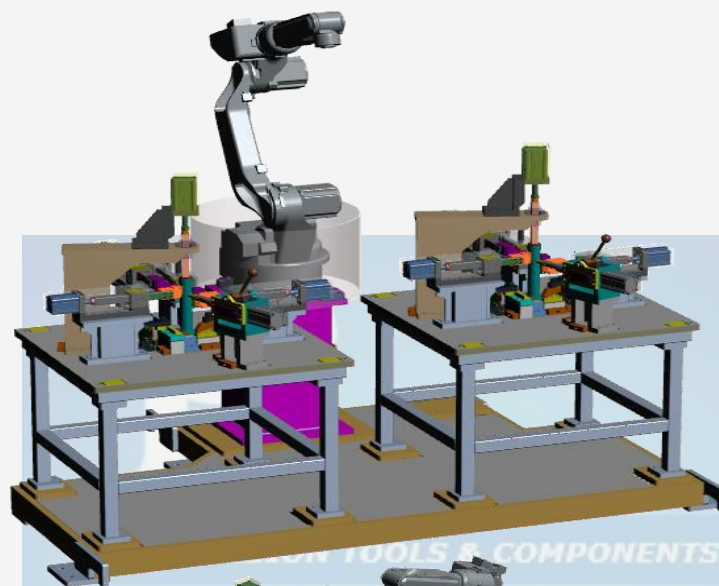
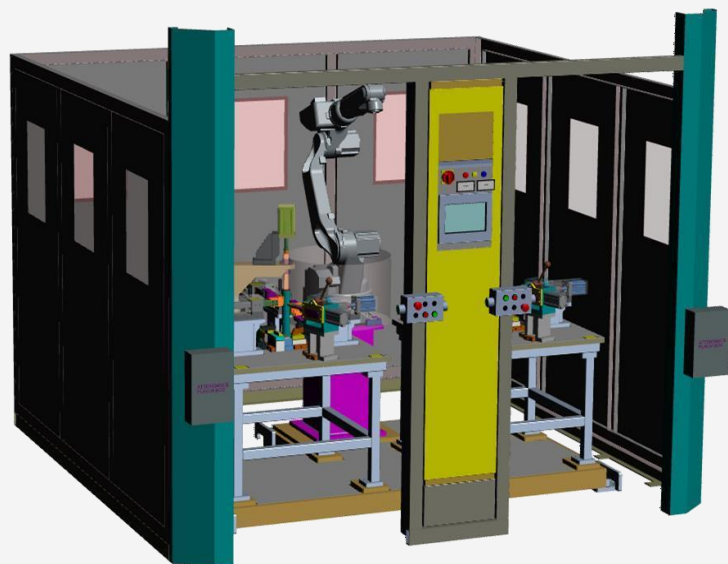
Cutting Jig



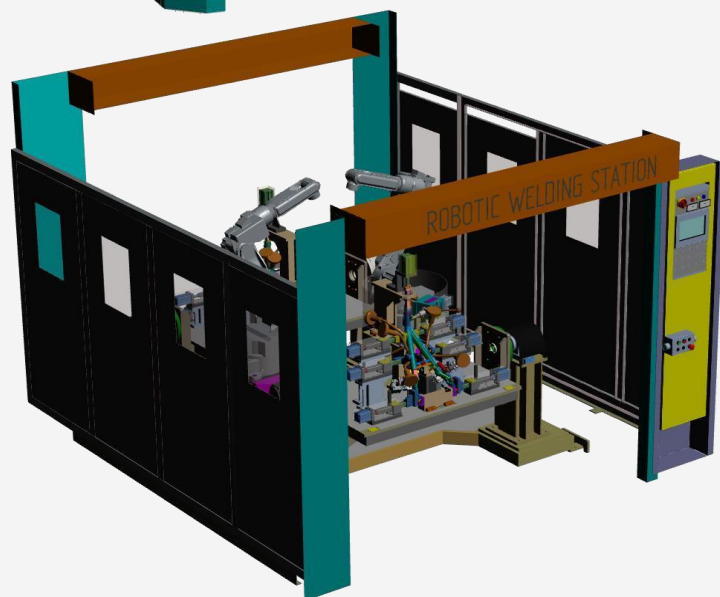
Flaring Tool



## □ Robotic System : Fixturing & Inspection Gauges



- MIG/ TIG Welding Robotic System for All types of Components Chassis, Frame, Muffler, Swingarm, Handle, Stand Etc. for 2Wheeler & 4 Wheelers
- Robotic Cell with Servo Indexer system
- Simulation for Welding Reach, Torch Approach, Weld Angle for better penetration,



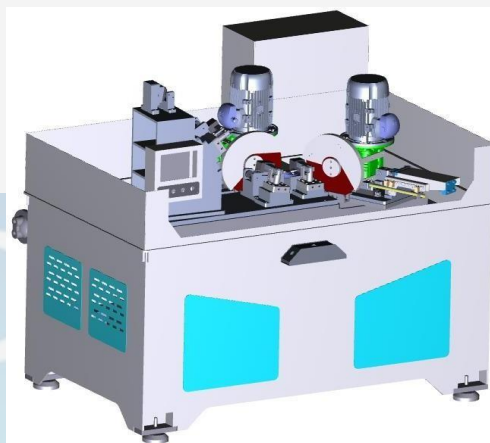
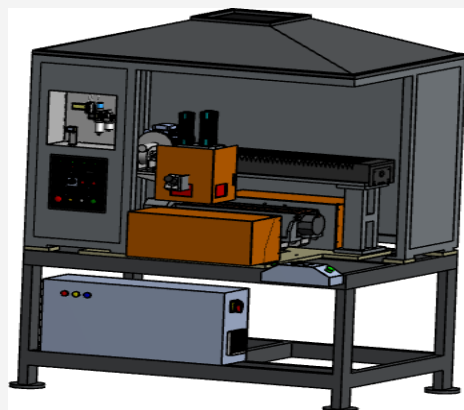
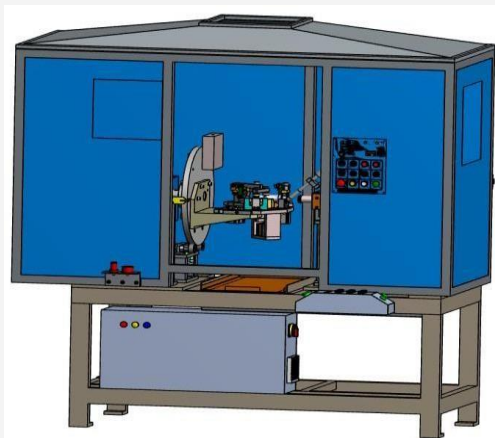
**Panasonic**  
Welding and Handling Robots

**YASKAWA**  
MOTOMAN ROBOTICS

**OTC**  
DAIHEN Corporation

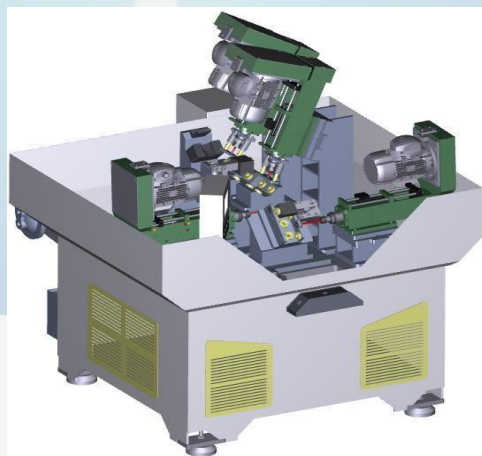
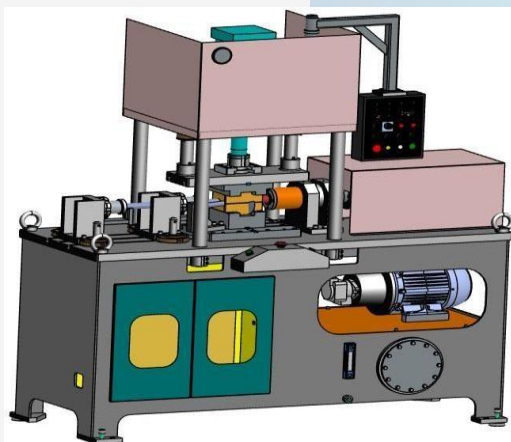
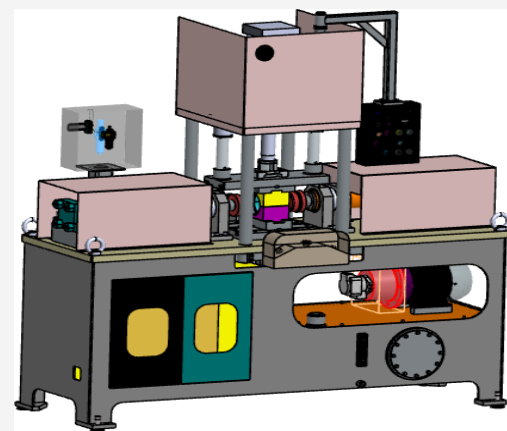


## ❑ Special Purpose Machines : SPM's



- Drilling / Milling SPM
- Round & Linear Mig/ Tig Welding SPM
- End Forming & Squeezing SPM
- Flaring SPM
- All Type of Special Purpose SPM

PRECISION TOOLS & COMPONENTS



Thank you for your time

**Address :-**

**PRECISION TOOLS AND COMPONENTS**  
PLOT NO-H1,830,RIICO INDUSTRIAL AREA,  
KHUSHKHERA BHIWADI  
ALWAR BHIWADI-301707,Rajasthan,India  
Email ID. - [info@ptcbhiwadi.in](mailto:info@ptcbhiwadi.in)

Mobil No . – 9784439783

**We Welcome your feedback & Suggestions**  
**Will Help Us to Enhance Our Growth & Ability**