



Bright Tech Automation

Welding & Checking fixture, Gauges And Robot cell

Bright Tech Automation

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2. ISO Certificate.
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4. Machinery details.
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1. DESIGN AND MANUFACTURING:-

- A. Welding Fixtures
- B. Checking Fixture and gauges
- C. Robot welding cells Manufacturing And installation
- D. Machine tending automation.

Note:- In welding fixture we have manufactured and supplied sub assembly's, base plates, resting units, Clamp arms and wear plates, etc...., And in robot cell we have manufactured and supplied Robot pedestal, Enclosures, Rotary holding base, Motor holding L-brackets and Bearing units. And also robot teaching and installation support we have done.

2. ISO Certificate:-



3. Major Products Photos: Robot Cell And Welding Fixture Photos.



Aluminum welding cell

Fixture quantity: 03 (1 vertical rotary fixture
2 horizontal rotary fixture)

Types of components: 10 (4 variants in
vertical fixture and Each 3 variants in
horizontal fixture.)

Indexer quantity: 2 (1 vertical indexer and 1
horizontal indexer)

Welding Prove out for all 10 variants.



3. Major Products Photos: Laser cutting Robot Cell And Fixture Photos.



SS Tube Laser cutting robot cell:

Fixture quantity: 05

Types of components: 05 (2 LH + 2 RH+ 1

Actual variants in Each fixture have
individual indexer with controlled by robot
controller.)



3. Major Products Photos: Laser cutting Robot Cell And Fixture Photos.



Aluminum Round Part – Automatic Checking Gauge:

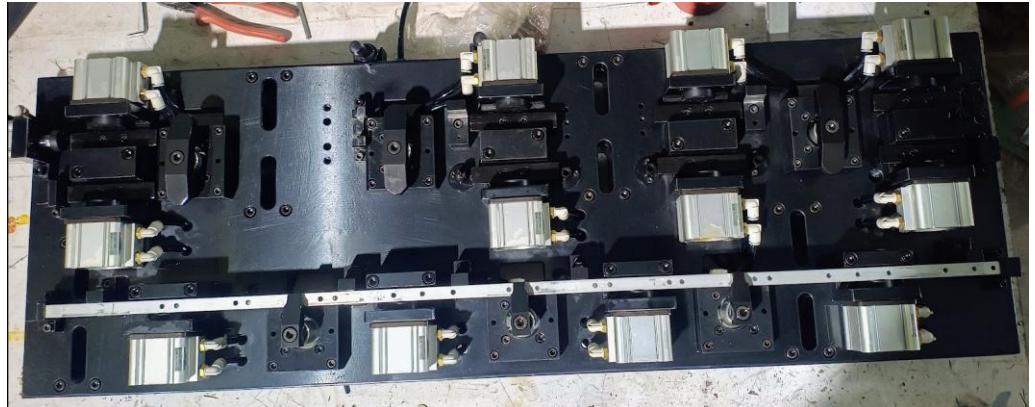
This system is an automated inspection gauge designed for round aluminum components. It uses Keyence (or similar) precision measuring probes to automatically inspect several geometric

parameters:

- Straightness
- Runout
- Concentricity
- Overall length

The gauge integrates automatic data logging, and provides immediate OK / Not OK status indicators based on preset tolerances.

3. Major Products Photos: Laser cutting Robot Cell And Fixture Photos.



Pneumatic VMC fixture:



Toggle clamping VMC fixture:



Toggle clamping VMC fixture:



Pneumatic VMC fixture:

3. Major Products Photos: Major product we are supplied.



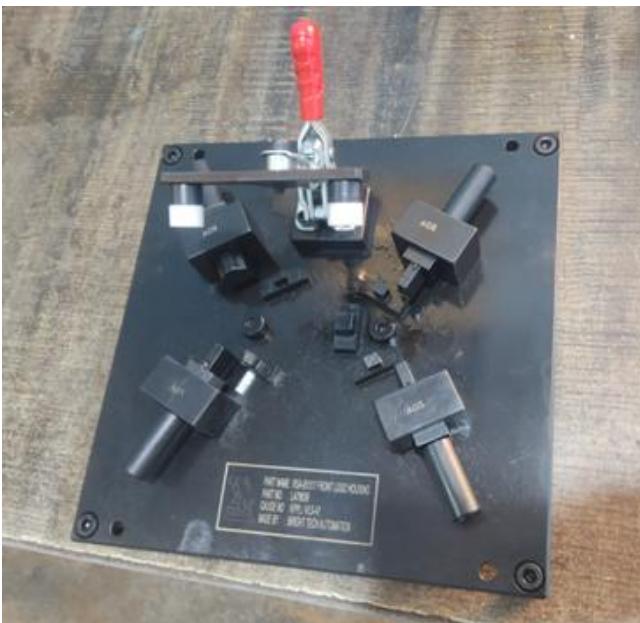
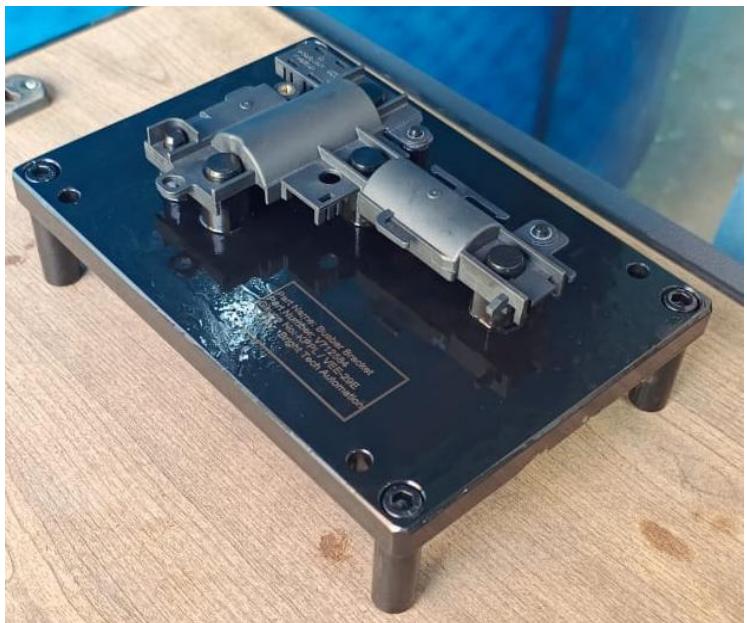
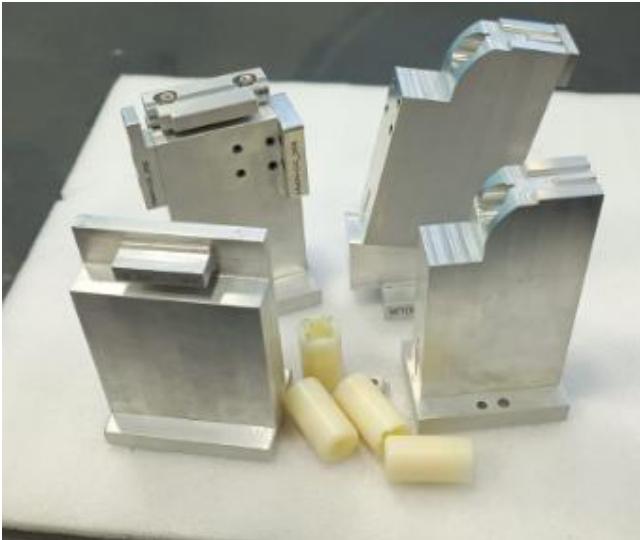
Metro engine parts assembly fixture:



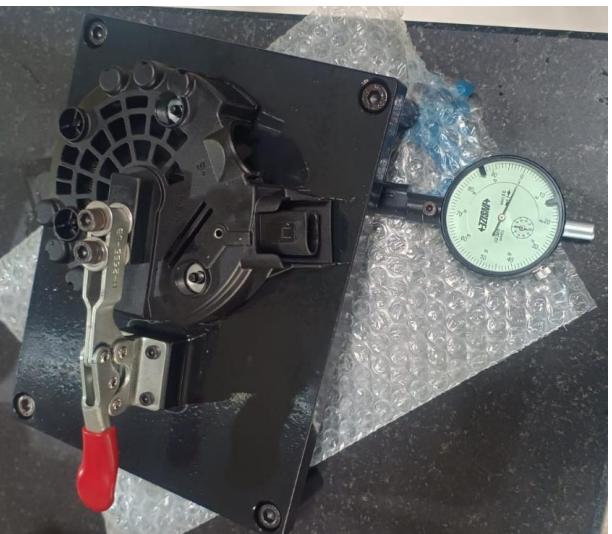
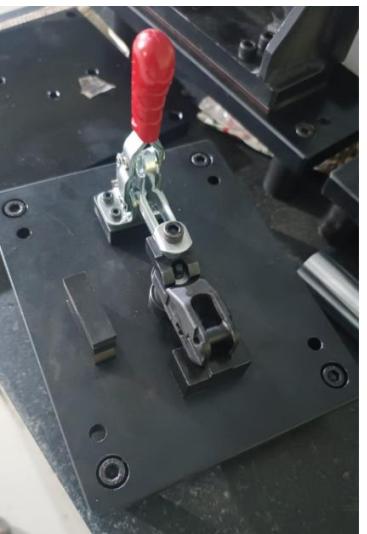
Metro engine parts assembly fixture:

3. Major Products Photos: Checking gauges.

Plastic Parts checking gauges:-



3. Major Products Photos: Checking gauges.



Plastic part checking gauge:

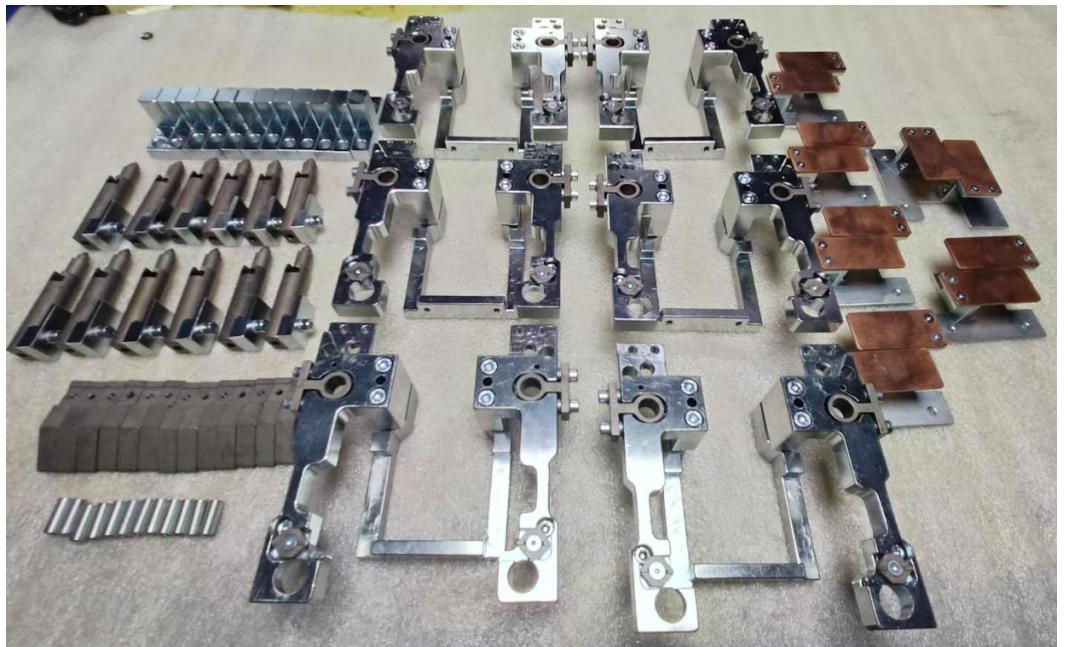


Plastic part insert checking gauge:

Beading unit checking and QR code printing with count and date.

Plastic part insert checking gauge:

3. Major machined parts photos:-



Major machining Parts:

4. MACHINERY DETAILS:-

1. JYOTI-1260 (Bed size :- 1220x600x600) VMC Machine.
2. YANTRANG-VX-800 (Bed size :- 800x500x510) VMC Machine.
3. COSMOS-CVM800 (Bed size :- 800x500x510) VMC Machine
4. VMC, HMC, and jig boring. (we have 15+ supplier support).
5. Drilling Machine.
6. Surface grinding machine.
7. 350Amps MIG welding machine.



Drilling Machine



COSMOS-CVM800



Surface grinding machine



MIG welding machine



YANTRANG-VX-800



JYOTI-1260

5. Instruments Details:-

1. 200mm Vernier
2. 300mm Height Gauge.
3. 900mmx900mm Surface table
4. Dial gauge
5. Screw gauge (Micrometres)



6. MAJOR CUSTOMERS:-



THANK YOU

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