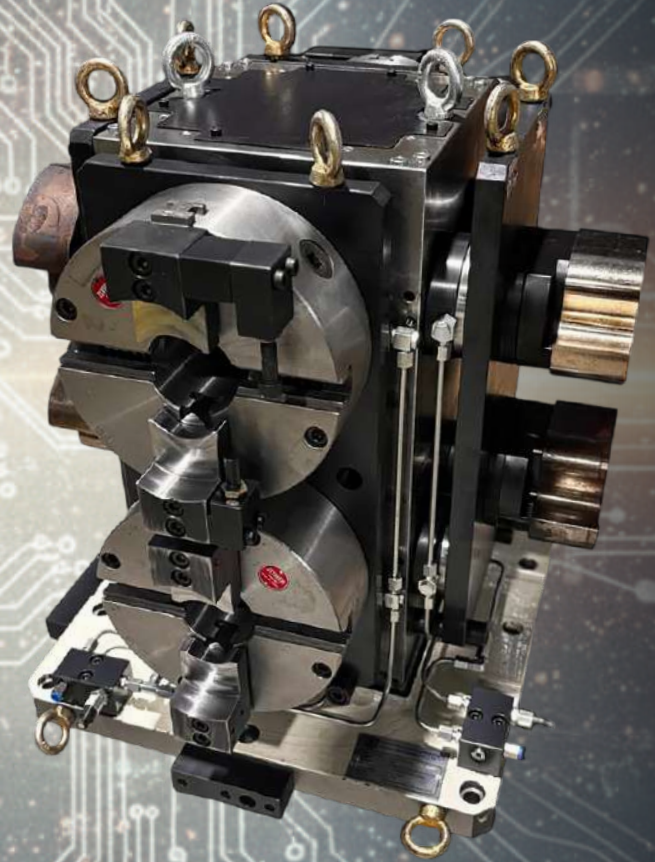




**Alpha Reverse Engineering
& Design Solutions Pvt. Ltd.**



FIXTURES



5-AXIS MACHINE



3D SCANNERS



OUR SERVICES

**FIXTURES DESIGN & MANUFACTURING
5-AXIS PRECISION MACHINING
3D SCANNING / REVERSE ENGINEERING**

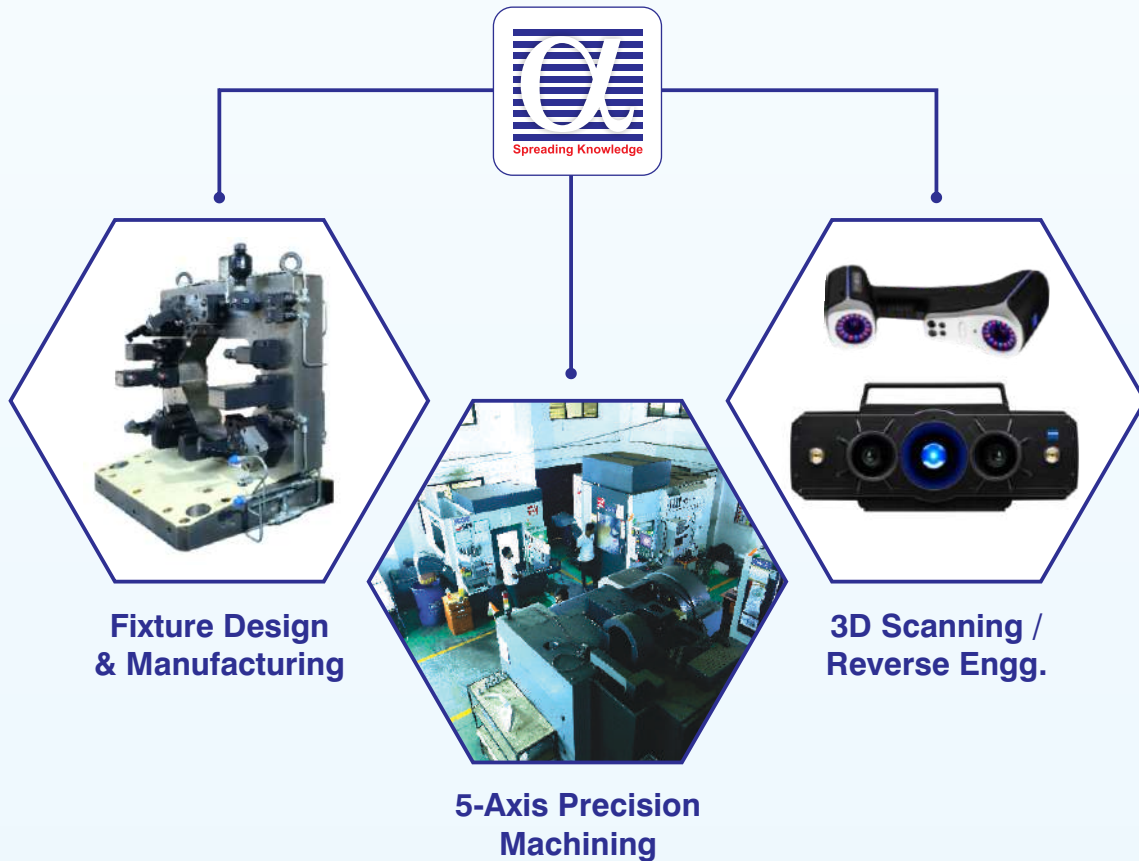


ABOUT US

Alpha Reverse Engineering and Design Solutions Pvt. Ltd. formed in 2009, with a vision to provide hightech services to various types of industries.

with the same vision we have started 3D Scanning services & over the period we have started Fixtures Design & Manufacturing & 5-Axis Machining successfully.

And currently we are well known & reputed service provider for above 3 services to almost all MNC'S / Medium scale/ Small scale industries in engineering as well as other sectors companies. Alpha is a system oriented organization in which 45 young & dynamic engineering professionals working to satisfy customer's requirements.





Fixture Design & Manufacturing

Alpha Reverse Engineering & Design Solutions Pvt. Ltd. is a passionate team of skilled & experienced professionals, having expertise in designing & manufacturing of customized machining fixture solutions along with complete turn key support to all automobile & non automobile industries.



Fixtures We Design & Manufacturing

- ✓ Machining Fixtures
 - Hydraulic VMC / HMC Fixtures
 - Mechanical VMC / HMC Fixtures
 - Pneumatic Fixtures
 - Leak Testing Fixtures
 - Riser Cutting / Bend Checking Fixtures
 - Turning Fixtures
- ✓ Hydraulic Power Pack
- ✓ Welding Fixtures
- ✓ 4th Axis Cradle Assembly
- ✓ Automation



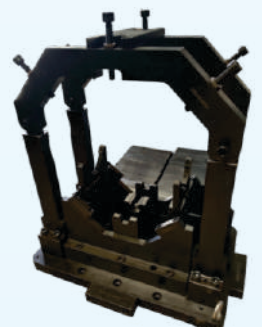
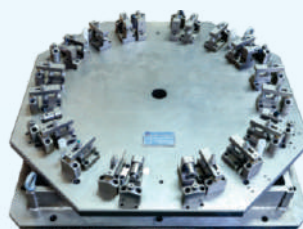
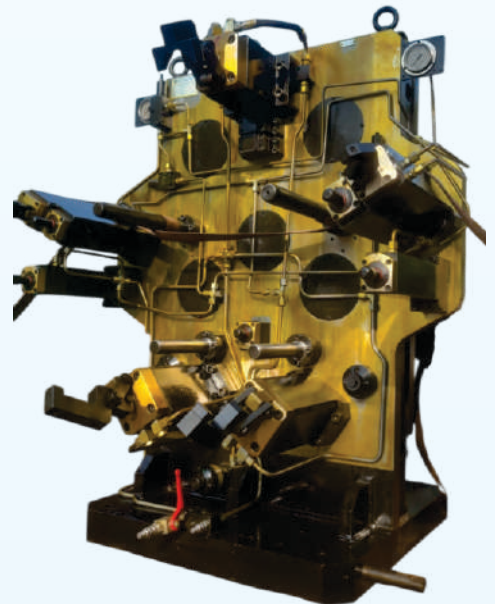
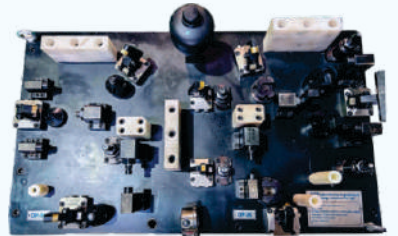
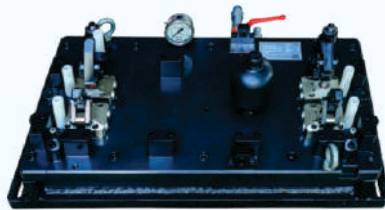
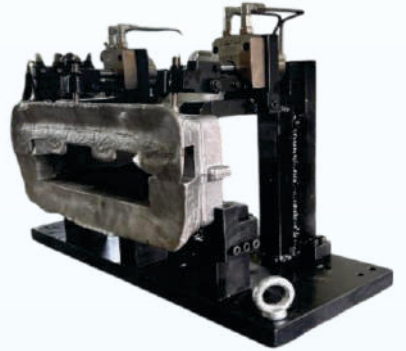
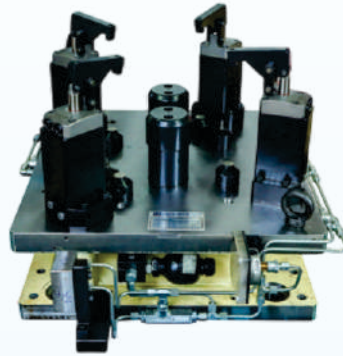
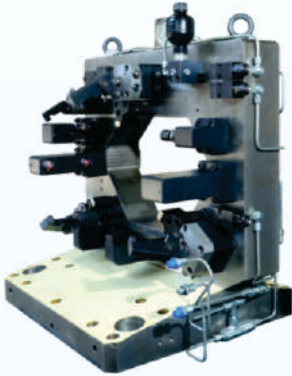
Fixture Manufacturing Setup



- ✓ VMC's
- ✓ Milling
- ✓ Surface Grinding
- ✓ Lathe
- ✓ M1TR
- ✓ CNC Turning
- ✓ Drill Tap Center



Fixture Design & Manufacturing Projects





5-Axis Precision Machining

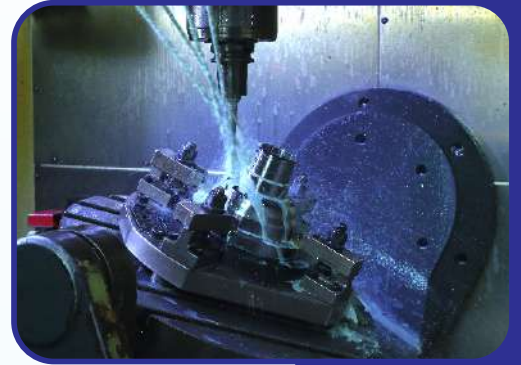
5-axis machining include creating complex parts with higher precision and better surface finishes in fewer setups. This leads to increased efficiency, reduced lead times, lower costs, and longer tool life by allowing the tool to approach a part from more angles in a single operation

VMC-01 (Haas UMC 750 Simultaneous 5 axis VMC)

VMC-02 (Haas UMC 500 Simultaneous 5 axis VMC)

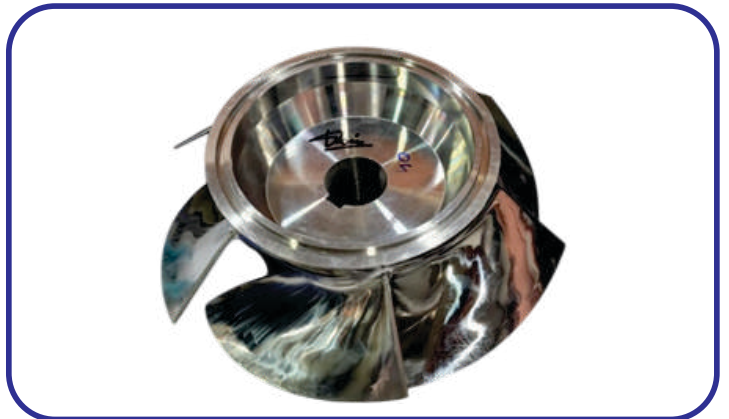
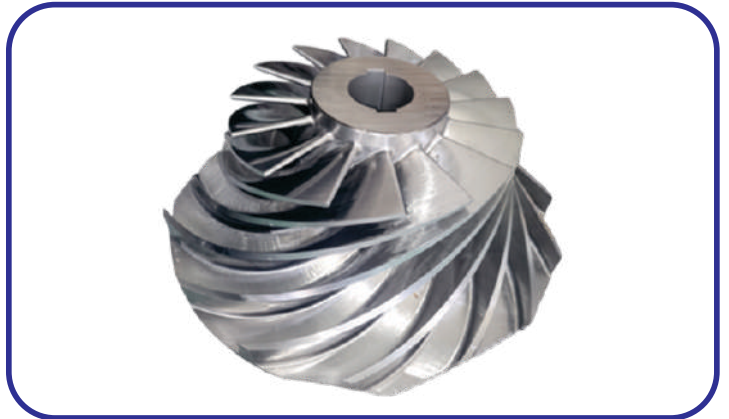
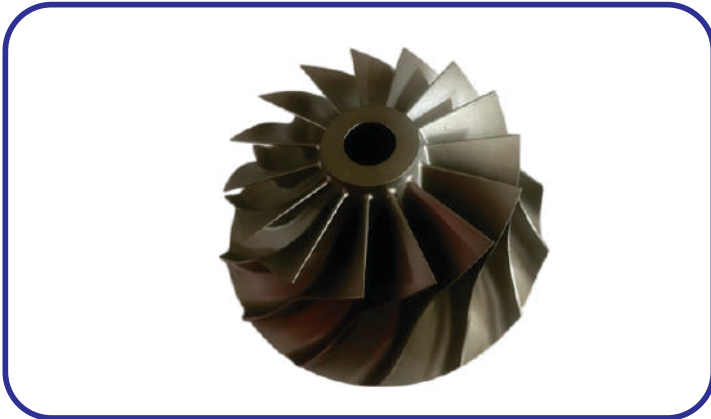
VMC-03 (Hurco_VMX24i with Detron Attachment GFA-210S)

VMC-04 (LML-VM9 with Detron Attachment GFA-210S)





5-Axis Precision Machining





3D Scanning / Reverse Engineering / Inspection

Physical component is scanned using non contact type 3D Blue Light Scanning technique. It offers great flexibility for high quality measurement in simple & quick manner.

with the high light intensity & fast camera, it provides the flexibility you need when using it at different sites (Portability).

The system delivers precise 3D data & automatically recognizes changes in vibration and exposure even in difficult ambient condition high-end technology for exceptional data quality with maximum ease of use.



A Vast Range Of Application :

- Quality Control Inspection
- Tool & Model Making
- Reverse Engineering
- Rapid Manufacturing
- Design

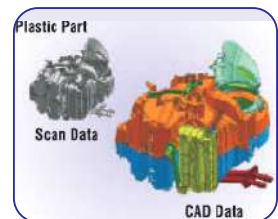
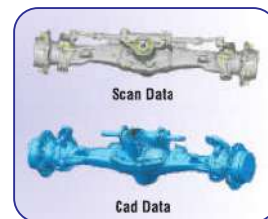
3D Scanner

- 3D Blue Light Scanner - 3 Nos.
- Tscan Hawk

Reverse Engineering / Class 'A' Surfacing :

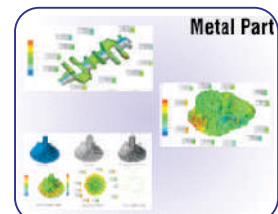
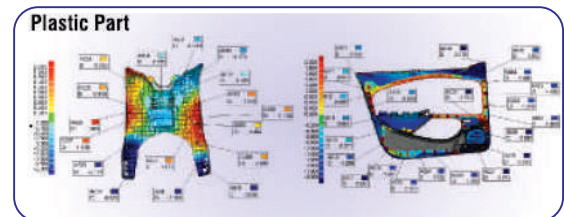
"A" class & "B" class surface generation from 3D point cloud data, transfer the surface model to solid model & modifications in solid model if require.

This data can further be converted to be read in any CAD System.



Quality Control / Inspection

3D Blue Light Scanners delivers excellent data quality & highly accurate measuring result, making the system the ideal solution for demanding applications in quality inspection With the inspection software, you'll generate easy false color comparisons for individual analysis as well as reports for documenting measuring results.





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