

**UNPARALLELED  
ENGINEERING  
PRECISION**



**BISEN  
AEROSPACE**

COMMITTED TO EXCELLENCE

# Maestros of Manufacturing

Bisen Aerospace Private Limited (BAPL) is a precision parts manufacturing company that offers end to end services for complex, high precision mechanical requirements. We supply fully finished precision parts or mechanical sub assemblies ready for further integration.

BISEN Aerospace facility is equipped with state-of-the-art VMC and Turn Mills machining capabilities that follow robust systems and processes approved by major OEMs and global aerospace companies.

Our parts are engineered to innovate cutting-edge industries such as Aerospace, high frequency and microwave electronics & medical and telecommunication industries. With pursuit of absolute precision and reliability. We create parts with the best quality materials and inventive procedures in pursuit of absolute precision and reliability, ensuring maximum efficiency and exceptional performance.



## BEYOND THE LIMITS OF EFFICIENCY

### Industries Served

We serve versatile industries with complex parts



Aerospace



Avionics



Space



Automobile



Oil and Gas



General Engineering



Medical / Health Care



Electronics, Wireless & Microwave



Telecom

### Materials

We have the capability to machine materials like:

- Stainless Steels all
- Titanium
- Inconel / Rene
- Nimonic's all
- Aluminium 7,6, H series
- Alloy Steels
- Monel
- Hastelloy
- Tool Steels
- Plastics – Delrin, PEEK



## VISION

**Our Vision** is to be recognized as a trusted partner and industry leader in aerospace manufacturing, known for our exceptional quality, reliability, and customer satisfaction world wide.



## MISSION

**Our Mission** is to advance the aerospace industry by delivering High-Quality, reliable products and services that exceeds the customer expectations. We aim to contribute to the global aviation sectors growth while ensuring safety, sustainability and environmental responsibility



## CORE VALUES

**Innovation**- We Embrace Innovation & Creativity To Drive Continuous Improvement & Stay At Forefront Of Aerospace Technology.

**Quality**- We Are Comitted To Maintaining The Highest Standards Of Quality In All Aspects Of Our Operations From Design To Delivery.

**Integrity**- We Conduct Our Business With Honesty, Transparency & Ethical Principles Fostering Trust And Credibility Among Our Stakeholders.

**Collaboration**- We Believe In Fostering Strong Partnership With Customers, Suppliers And Employees To Achieve Mutual Success And Growth.

**Safety**- We Prioritize The Safety Of Our Products, Employees And Customers Adhering To Strict Safety Standards & Regulations.

## Our Production Machines

We manufacture very small parts to parts 1000mm long. An important differentiator in capability is the ability to machine to an ultra-high accuracy of just 5 microns.

Our multi-axis machines allow minimal setup for manufacturing of complex parts precision to ensure maximum efficiency. All of our machines are also equipped with HSK -63 Spindle, through-spindle coolant, Tool Probe, Work Probe allowing for machining of hard parts and achieving the fantastic surface finish. Most formats of CAD data can be received and are used to offline program the CNC machines, and CMM machines for optimised performance.

### Here is a list of few parts that we can manufacture:

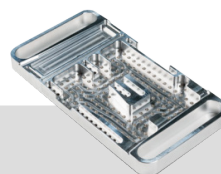
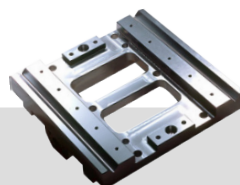
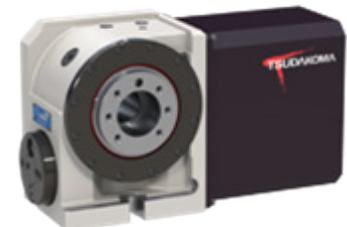
- Actuation applications of Aircraft
- Engine Components
- Avionics
- Electronics Enclosures
- Engine Components
- Precision Turned Components
- Engineering Plastics
- Complex Machines Brackets
- Small Precision Parts Turning and Milling
- Structural Parts for Aircraft
- Aluminium Enclosures, Precision Aluminium Components
- Aerospace Display Enclosures
- Rotor High Precision Turning

## MAKINO PS105 with Continuous 4th Axis

Equipped with a standard 14,000-rpm, Spindle HSK-63A, Through Coolant Technology, Rapid Traverse X-axis – 48000 mm/min, Y & Z – 36000 mm/min, Cutting Feedrate – 30000 mm/min, Maximum Payload – 800 kgs, ATC – 30 tools., PS105 provide the power, torque and RPM capability to support today's cutter technologies offering the highest levels of material removal in even the toughest materials. This capability is complemented by a stiff, rigid, balanced spindle design, featuring large diameter bearings, 85-mm (3.35 inch) that eliminate spindle deflection. The result is a stable cutting process that is capable of delivering both great metal removal rates and producing high-quality machined surfaces.

The Makino Pro P Control features a 10.4 inch, color LCD screen that is "touch" sensitive with on-screen navigation providing instant access to information that is literally at your fingertips.

Machine is Equipped with Tsudakoma Continuous 4th Axis Rotary Table with table dia. Of 200 mm



## Mazak Turn Mill QTE 200 MY



Mazak QTE-200 MY (500U) is a high precision Japanese turn mill with Y-axis. The CNC turning centre to process wide variety of parts with high efficiency. Rotary tools can be mounted at any turret position for tool layout flexibility. Y-axis double-slide design allows large diameter multi-tasking machining can be performed even in a compact machine New MAZATROL SmoothEz CNC control, Mazatrol Conversational Programming, Touch Screen Operation, New functions for High Speed and accuracy.

### Features:

Bed Length : 500mm, Chuck Size: 8 Inches, Max. Speed: 5000rpm, No. of Tools : 12 Live Tools, Travel: X-215mm, Y-100mm, Z-605mm. Max. Machining Diameter: 340mm, Max. Machining Length – 535mm



## MAZAK VMC VC-Ez 510 IP

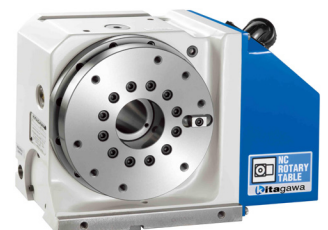
MAZAK VMC 510 Suitable for powerful cutting of steel, Titanium, Inconel, Monel materials and machining that use small-diameter materials such as aluminium work pieces. Machining hours can be reduced, and excellent finished surfaces can be achieved even with high-speed machining. The spindle is equipped with a ceramic ball bearing, which is lightweight and has low thermal expansion, so high-precision machining with low heat generation is possible.

We get output of 18.5 kW / 7.5 kW (5 min. rating / Cont. rating) using BT40, 12000 min<sup>-1</sup> Spindle. Reliable high-speed ATC and tool magazine. Table size: 1250mm x 492mm, Max. Mazak 510 can achieve accuracy upto 5 microns.

Mazak 510 has high-speed, rigid linear roller guide is utilized on all axes. It provides improved positioning accuracy with lower friction for a long term. Temperature controlled cooling oil circulates through the ball screw cores to ensure stable machining accuracy over extended periods of high speed operation

Equipped with "QUICK MAZATROL", an improved version of MAZATROL programming. Programs can be made intuitively with the 15" touch screen while checking the work piece shape and work process. If combined with the SmoothCAM Ai software (separately sold), machines in your factory can be replicated on your office PC, allowing digital setup of your machine to improve operational efficiency.

**Mazak VMC 510 is equipped with kitagawa 4th axis Rotary Table for 4th axis machining of complex components.**



## MAZAK VMC VC-Ez 410 IP

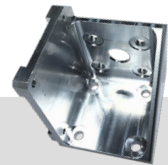
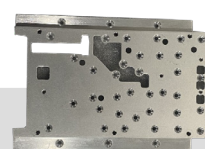
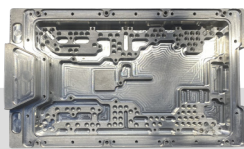
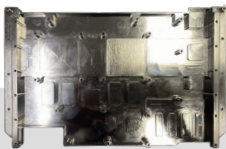
MAZAK VMC 410 Suitable for powerful cutting of steel, Titanium, Inconel, Monel materials and machining that use small-diameter materials such as aluminium work pieces. Machining hours can be reduced, and excellent finished surfaces can be achieved even with high-speed machining. The spindle is equipped with a ceramic ball bearing, which is lightweight and has low thermal expansion, so high-precision machining with low heat generation is possible.

We get output of 18.5 kW / 7.5 kW (5 min. rating / Cont. rating) using BT40, 12000 min-1 Spindle. Reliable high-speed ATC and tool magazine. Table size: 950mm x 410mm. Mazak 410 can achieve accuracy upto 5 microns.

Mazak 410 has high-speed, rigid linear roller guide is utilized on all axes. It provides improved positioning accuracy with lower friction for a long term. Temperature controlled cooling oil circulates through the ball screw cores to ensure stable machining accuracy over extended periods of high speed operation

Equipped with "QUICK MAZATROL", an improved version of MAZATROL programming. Programs can be made intuitively with the 15" touch screen while checking the work piece shape and work process. If combined with the SmoothCAM Ai software (separately sold), machines in your factory can be replicated on your office PC, allowing digital setup of your machine to improve operational efficiency.

Mazak VMC 410 is equipped with kitagawa 4th axis Rotary Table for 4th axis machining of complex components.



## Band Saw Machine

### MODEL: ITM-300 LMGA (RF)

For Raw Material Cutting We have ITM-300 LMGA (RF) Band Saw Machine which is a fully automatic, numerically controlled (NC), double column machine on pre-hardened LM guides with standard equipment and standard accessories. It features cutting feed through SERVO motor with precision ball screw guided on LM guides & high-end PLC.



## MAZAK VARIAXIS J 500/5X

MAZAK Variaxis J500 / 5X is Multi-surface, simultaneous 5-axis vertical machining center. Rigid trunnion table design supports table on both sides for heavy duty machining. High-accuracy machining is possible. 0.0001° indexing increment for a variety of multiple-surface machining. Simultaneous 5-axis control for 3-dimensional curved surface machining [j-500/5X]. Excellent accessibility to the table and magazine in front of machine for easier operation. Maximum spindle speed is 12000 min<sup>-1</sup> (rpm), Torque is 65.1 N·m. Table size 500mmx400mm, Work piece size 500mm x 350mm, Tool shank BBT40,



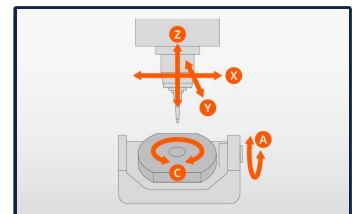
The linear roller guides on the X-, Y- and Z-axis utilized by the VARIAXIS j series provide high-accuracy positioning. Additionally, with their high rigidity and considerably lower friction, high speed feedrates can be used over a wide range of machining, from heavy-duty to high speed cutting.

High rigidity tilting rotary table for high speed and high accuracy machining. The VARIAXIS j series tilt and rotary tables use roller gear cams for superior accuracy, rigidity, and durability. Elimination of backlash ensures high accuracy and high efficiency machining.

Position misalignment and incline of the rotary axis can automatically be measured and compensated to realize high accuracy 5-axis machining.

In addition to offsetting position deviation traveling parallel to the linear axis, angular deviation due to tilt direction can also be corrected. Wireless touch probe RMP600 is optional equipment. Optional function for VARIAXIS j-500. Based on spindle speed and temperature of the machine, Ai Thermal Shield suppresses changes in the cutting edge position. It stabilizes continuous machining accuracy through meticulous machine control that takes into account temperature changes, machine position, coolant ON/OFF, and other factors. Furthermore, by accumulating and learning data from subsequent measurements, thermal displacement compensation can be optimized for each machining environment.

Axis configurations designed for various multiple-surface machining and 5-axis machining.



The VARIAXIS j-500 series incorporates all machining processes from raw material input through final machining – in just one machine. It provides the ability to reduce production lead time, improve machining accuracy, reduce floor space and initial cost, lower operating expenses, reduce operator requirements and to improve the work environment. As a result, it not only streamlines production, it also improves overall management.



## BROTHER SPEEDIO U500Xd1 - 5AX

Brother Speedio U500Xd1 - 5Ax is **Simultaneous 5 axis Machine** Which Provides ample jig area of  $\phi 500 \times H270$  to meet multi-face machining for medium sized workpieces.

Max. loading capacity : 100kg

Ample jig/workpiece/tool area secured in the Z-axis direction.

(Distance between table top and spindle nose end: 445 mm)

High-speed tool change has been achieved by faster and optimized spindle start/stop, Z-axis up/down, and

magazine operation. Tools up to 3 kg can be changed in the shortest time. Tools up to 4 kg can also be changed with minimal increase in time. 28-tool magazine, Chip - Chip: 1.3 s Tool - Tool: 0.7 s

The main unit of the machine and XYZ-drive system are based on the bestselling S500Xd1 model. Highly rigid structure and high-speed operation

have been achieved. A spindle motor with high torque in the medium- and high-speed range is used to achieve high-speed and highly efficient machining of aluminum or iron. 10,000 min<sup>-1</sup> (standard), Max. torque : 40Nm

Max. output : 18.9kW. Both A and C axes are provided with high clamp torque, demonstrating high retention

strength even in high-load machining. Machining with more stringent cutting conditions is possible, improving production efficiency. A-axis clamp torque : 810Nm , C-axis clamp torque\* : 560Nm

NC functions related to simultaneous 5-axis machining Tool center point control (look-ahead 1,000 blocks), submicron command, feature coordinates setting, memory capacity (3 Gbytes)



## BROTHER SPEEDIO S700Xd1 - 4 Axis



Equipped with new "CNC-D00" controller to improve productivity and usability. Using a new 28-tool magazine increases target workpieces, leading to process integration. A spindle motor with high torque in the medium- and high-speed range is used to achieve high-speed and highly efficient machining. In addition, the high-torque spec. machine demonstrates higher torque in the medium- and high-speed range, and greatly improves torque in the low-speed range. The machine provides excellent performance in heavy-duty machining such as large-diameter drilling and tapping.

10,000 min<sup>-1</sup> high-torque spec.

A compact drum type 28-tool magazine has been developed with high-speed tool change performance maintained. The maximum tool weight has been improved to 4 kg\*. The maximum table loading capacity has been increased to 400 kg\*. This expands choices of fixtures and promotes process integration.

**Table Size: 800mm X 400mm, BBT 30 Spindle Contact System.**

High-speed tool change has been achieved by faster and optimized spindle start/stop, Z-axis up/down, and magazine operation. Tools up to 3 kg can be changed in the shortest time. Tools up to 4 kg can also be changed with minimal increase in time.

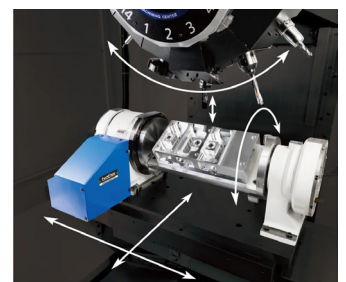
28-tool magazine , Chip - Chip: 1.3 s , Tool - Tool: 0.7 s.

Wasted time has been reduced by simultaneously performing tool change and positioning X/Y and additional axes. Using a low inertia spindle and high

acceleration/deceleration spindle motor has achieved faster spindle start/stop.

High-torque specifications Spindle start/stop time 0.15s or less.

Max. torque : 92Nm Max. output : 26.2kW





## BROTHER SPEEDIO S500Xd1 - 4 Axis

Equipped with new "CNC-D00" controller to improve productivity and usability. Using a new 28-tool magazine increases target workpieces, leading to process integration. High-speed tool change has been achieved by faster and optimized spindle start/stop, Z-axis up/down, and magazine operation. Tools up to 3 kg can be changed in the shortest time. Tools up to 4 kg can also be changed with minimal increase in time. 28-tool magazine , Chip - Chip: 1.3 s , Tool - Tool: 0.7 s. Wasted time has been reduced by simultaneously performing tool change and positioning X/Y and additional axes.

Using a low inertia spindle and high acceleration/deceleration spindle motor has achieved faster spindle start/stop. Accuracy of bidirectional axis positioning is 0.006 - 0.020 (0.00024 - 0.00079) mm (inch) ,Repeatability of bidirectional axis positioning is less than 4 microns.

### Features:

Table: 600 mm x 400 mm ,Travel : X: 500 mm Y: 400 mm Z: 300 mm

Spindle RPM 16,000 , Spindle Taper BBT-30 Rapid Traverse 50,000 mm/min

Cutting Feedrate 1 - 30,000 mm/min Maximum Payload 400 kg, ATC Capacity - 28



## BROTHER SPEEDIO S300Xd1 - 4 Axis

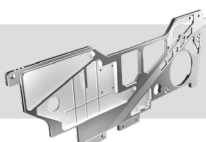
Equipped with new "CNC-D00" controller to improve productivity and usability. Using a new 21-tool magazine increases target workpieces, leading to process integration. High-speed tool change has been achieved by faster and optimized spindle start/stop, Z-axis up/down, and magazine operation. Tools up to 3 kg can be changed in the shortest time. Tools up to 4 kg can also be changed with minimal increase in time. 21-tool magazine , Chip - Chip: 1.3 s , Tool - Tool: 0.7 s. Accuracy of bidirectional axis positioning is 0.006 - 0.020 (0.00024 - 0.00079) mm (inch) ,Repeatability of bidirectional axis positioning is less than 4 microns.

### Features:

Table: 600 mm x 400 mm , Travel - X: 300 mm Y: 400 mm Z: 300 mm

Spindle RPM 16,000 (optional 8,000) , Spindle Taper BBT-30 Rapid Traverse 50,000 mm/min

Cutting Feedrate 1 - 30,000 mm/min , Maximum Payload 250 kg, ATC Capacity 21



## MAKINO SLIM 3n - 4AXIS

Compact Vertical Machining Center for High Volume Production In the high-volume production industry, the task of achieving the requirements of our customers such as shorter turnaround, higher quality and lower cost has become a constant challenge for the machine tool designer. Makino is well known for bringing quality and reliability through its innovative machining centers, technologies and process know-how. Makino's new Compact Vertical Machining Center - Slim3n, provides high performance and extremely efficient machining for high volume part production. The Slim3n is ideally suited for a wide array of component machining applications focused on maximizing machining process, increasing flexibility, achieving smooth workflow and various types of automation.



### Features:

Table: 600 mm x 400 mm , Travel - X: 500 mm Y: 400 mm Z: 400 mm

Spindle RPM 16,000 (optional 8,000) Spindle Taper HSK-A50 Rapid Traverse 50,000 mm/min

Cutting Feedrate 1 - 20,000 mm/min Maximum Workpiece 975 x 500 x 580 mm

Maximum Payload 400 kg ATC Capacity 26

## MAKINO SLIM 5n - 4AXIS



As part of the Slim series of compact vertical machining centers, Slim5n is designed with a focus on milling while also providing drill and tap capability. The Slim5n is ideally suited for production part machining and is compatible with various types of automation.

Vertical Machining Center - Slim5n, provides high performance and extremely efficient machining for high volume part production. The Slim5n is ideally suited for a wide array of component machining applications focused on maximizing machining process, increasing flexibility.

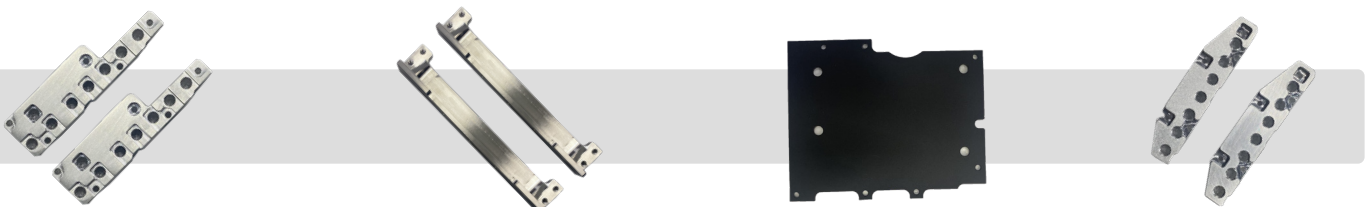
### Features:

Table: 800 mm x 400 mm , Travel - X: 710 mm Y: 400 mm Z: 410 mm

Spindle RPM 16,000 (optional 8,000) , Spindle Taper HSK-A50 Rapid Traverse 50,000 mm/min

Cutting Feedrate 1 - 20,000 mm/min , Maximum Workpiece 1,175 mm x 545 mm x 511 mm

Maximum Payload 600 kg ATC Capacity 26





## HAIMER HEAT SHRINK FIT MACHINE

The Profi Line offers the full range of performance and is unbeatable in efficiency. High performance coils, contact cooling and a rotary table guarantees simultaneous shrinking and cooling in record time. No wishes remain unfulfilled.

The machines of the Profi Line work with both the standard coils and the intelligent, comfortable NG coils. Of course, the equipment recognizes each coil and chooses the correct shrink fit parameters automatically.

The shrink fit machines of the Profi Line form a modular system. The start-up Power Clamp Economic machine can gradually be upgraded to the high-end Power Clamp Comfort NG.

## HAIMER HEAT SHRINK FIT HOLDERS

We use Haimer shrink fit tool holder which has High runout accuracy ( $< 0.003$  mm), Extreme clamping torque by high pressing in the clamping bore, Short chamfer, Dynamic form: Reinforced shank at long tool holders. Compromise between slimness (marginal interference contour) and rigidity, Threaded bores for simple and fast balancing with screws. Heat resistant hot-working steel. Hardened 54 – 2 HRC. For HSS and solid carbide tools. Shank tolerance h6. With threaded holes in order to balance with balancing screws.



## AUTOMATIC TAPPING MACHINE

The machine adopts servo drive control, adopt the best advanced electric servo intelligent system, with intelligent torque protection, instead of the traditional lathe, drilling machine or manual tapping limitations.

This electric tapping machine supports rigid tapping cycles for improved thread consistency.

**Features:**

ITEM : MR-DS16(push-button,vertical type)

VOLTAGE : 220V/50HZ

POWER : 600W 0-312RPM

TAP RANGE : M2-M16

COLLET : M2,M3,M4,M5,M6-8,M10,M12,M14,M16



## ENGRAVING MACHINE

The Mega Laser Marking apparatus, which also has a worktable cabinet, is managed and programmed in India. A high-quality light source has excellent anti-reflection, no light leakage, uniform optical power density, steady optical power output, and remarkable spot quality. It is rapid, portable, and stable since it uses a high-speed scanning galvanometer. It is simple to install and comes with a computer stand. The quickest laser marking technology is integrated with user-friendly software that is compatible with all design formats.

Marking Area - 200mm x 200mm  
Lazer Source - 60w - Jpt

### Features:

- Portable Machine Design With Compact Size
- Production Report Integration
- Status Monitoring And Safe Shutdown
- Bar-Coding, 2D Data Matrix Codes, Lot Codes, Date Codes
- Real Time Red Beam Preview Ensures Accurate Positioning

## H - TYPE HAND OPERATED HYDRAULIC PRESS MACHINE

The H-frame of this hydraulic workshop press is made out of quality steel. This press is excellent for general assembly and straightening tasks. Our Hydraulic press is of 60 TON capacity. The height of the working table is easy to adjust, so you can work with many different material / product sizes. The manually operated workshop press is with a hand pump with double operation. Furthermore, it has a pressure manometer for reading out the applied pressure, a chrome piston (with automatic piston return). We also have set of V-blocks with these presses.



## Quality & Inspection

BISEN Aerospace is ISO 9001 and AS 9100 Rev D Certified Company. With our powerful process controls and workflow procedures, we can provide full product conformance and complete traceability to produce world class quality parts. The temperature controlled Quality Control Department is fully equipped and can carry out full geometrical, dimensional validation, optical and surface finish examination.

BISEN Aerospace is well equipped with equipment's like:

### Zeiss Spectrum Plus

ZEISS SPECTRUM plus opens the world of active scanning. The coordinate measuring machine offers more reliability, stability, capability and flexibility for precisely perfect quality tests. It features ZEISS RDS C CAA incl. ZEISS VAST XXT for better angular position

#### Features:

Accuracy up to  $1.8+L/300 \mu\text{m}$

2.5 Degree, 20736 Possible Angles

Measuring volume X = 1000 mm, Y = 1200 mm, Z = 600 mm

RDS-C-CAA and probe adapter plate RDS / VAST XXT, VAST XXT TL3 (tactile passive scanning probe)



### Hexagon VMM OPTIV LITE



VMM Optiv Lite Manual series is one of the most intuitive and user friendly, manually operated, vision measuring systems. The system design takes into consideration the accuracy, repeatability and reliability of measurement results. OLM is suitable for shop floor operation. It provides fast, accurate measurement for both routine and complex parts. The system can be completed with multi sensor capability (tactile option).

#### Features:

- One click operation. Easy and user friendly.
- Auto Edge detection ensures repeatable results.
- Complete GD&T function.
- Support CAD import and export (IGS, DXF and STEP files).
- Convenient Data reporting output format (Word, Excel or PDF).
- Built-in SPC module.

#### Specifications:

- Effective measuring size - 300x200x200 mm
- Camera - 1/3" high resolution colour CCD
- Accuracy Exy -  $3.0 + L/150 \mu\text{m}$
- Accuracy Ez -  $5.0 + L/150 \mu\text{m}$
- Working distance - 90mm
- Illumination - LED stage light and LED ring light
- Magnification - Manual zoom ( 30x to 180x)
- Resolution -  $1.0 \mu\text{m}$
- Load bearing capacity - 10kg

## Mahr Federal 817 CLM

This 2d digital gauge with motorised carriage offers precision measurements in one and two dimensions. It enables measurements upto to 40" (1,000 mm) vertical measuring range with 0.00001" (0.0001mm) increments.

### Specifications:

- Measuring error = 1.8µm
- Repeatability = 0.5µm plane, 1µm bore
- Measuring force = 1.0 Newtons



## Uninterrupted Factory Operations

### FUJI Falcon 120kVA

Our Factory has 100% power back up with Falcon 8500 range of Three Phase Online UPS systems for 120 KVA which is designed for uninterrupted machining of parts.



### Cummins 160kVA Genset

Our Factory is installed with Cummins 160kVA Genset for power backup. The diesel engine features, bigger camshaft, optimised turbo-matching and is yet compact in size with optimum power to weight ratio. Conforming to ISO 3046 / BS 5514



### Chicago Pneumatic Air Compressors

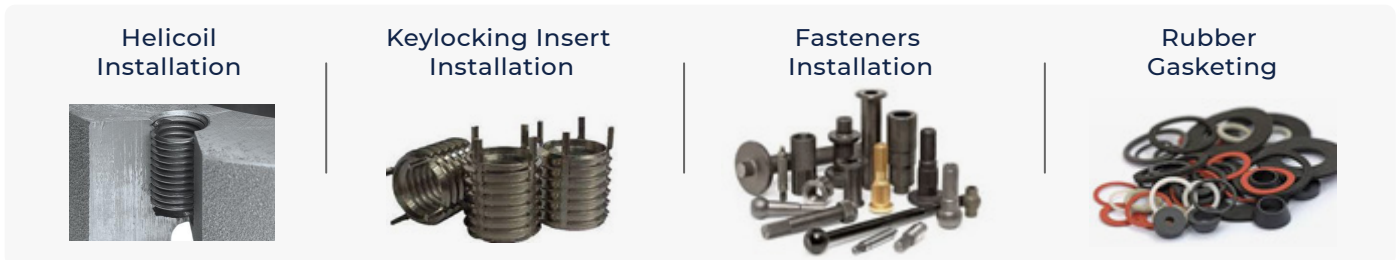
Our Factory is fitted with 20HP Chicago Pneumatic USA Inverter Technology air compressors for uninterrupted air supply to all machines and CMM.



## Assembly

Some of the Assembly activities done after machining of parts are

- Helicoil Insert Installation with Pneumatic and Electrical Power Tools, Both Tanged and Tangless inserts are fixed.
- Key Locking Insert Installations are done with high tech and updated machines
- Fasteners Installation are done to assemble parts.
- Rubber / Gasket Fitting



## Solid CAM, Solid Works and iMachining 2D & 3D

We use SolidCAM, Solid Works and iMachining 2D & 3D for Continuous 3 axis and 4 axis machining in VMC and for TurnMill. Solid CAM and iMachining provides seamless integration and full tool path associativity.



SolidCAM is the only CAM with unmatched, patented iMachining solution, and it also supports all Milling and Turning functionality, with powerful support for advanced Mill-Turn machines, including Swiss-Type.



Using Solid CAM iMachining we can do faster machining to save cycle time and deliver the products faster with extremely high quality.



### PLATING

- Chromate
- Anodising (Sulphuric, Black, Chromic)
- Hard Anodising
- Electroless Nickel
- Zinc
- Zinc Nickel
- Passivation
- Soft Gold
- Hard Gold
- Silver
- Wet spray painting
- Electrolytic epoxy painting
- Black oxide
- Dry film lubricant coating

### OTHERS

- Stress Relieving
- Heat Treatment
- Hardening
- Sparking
- Visual Testing
- Magnetic Particle Testing
- Liquid Penetrant Testing
- Radiographic Testing
- Ultrasonic Testing
- Electromagnetic Testing
- Helicoil Installation
- Keylocking Insert Installation
- Fasteners Installation
- Rubber Gasketing

### Our Focused Customers





**BISEN AEROSPACE**  
 Committed to Excellence  
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