

# MANUFACTURING CATALOGUE

*PRECISION WITH QUALITY*

# About ABS

Advanced Bolting Solutions Pvt Ltd (ABS), established in 1998, is a leading multinational organisation in consultative sales of torquing systems, tensioning systems, and on-site machining systems, through technological leadership of international brands and unique customer support initiatives. We are also a leading on-site mechanical services contractor providing controlled bolting, machining and joint integrity services for Oil & Gas sector.

As backward integration, we started our manufacturing division to provide customized solutions for torquing and tensioning requirements. Driven by bolting expertise of more than 2 decades, we have good understanding of customer expectations when it comes to accurate assessment of their requirements, and delivering quality within schedule.

Through our extensive experience in working closely with customers, we have mastered the excellence in design and technology for manufacturing precision components and accessories. We are now open to offer bespoke component manufacturing service for industries such as Oil & Gas, automobile, heavy engineering, railways, defense, power, aviation, ship building and OEMs.

As a process oriented organization, we are QMS complied with ISO 9001:2015 certification. True to the term "Safety First", we comply with all safety norms and are accredited with ISO 45001:2018.

To further add to our credentials, we humbly boast of being given SME-1 rating by CRISIL which cements our financial solidity.

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## Design

The core strength of ABS lies in Design & Development with strong emphasis on precision and sustainability.

For Simulation and Design, we use the latest version of high end technical software such as SolidWorks and AutoCAD, in which our team has been trained thoroughly.

For precision in machine programming, we utilise MasterCAM software. This gives significant savings in the cycle and setting time.



## Manpower Capability

Our technically strong and experienced team is capable of developing unique and customized solutions with efficiency and productivity. With an able leadership team backed by rich experience in manufacturing processes and quality management systems, our team is highly process oriented and quality conscious.

We employ ITI qualified experienced machine operators, and focus on their training and skill development, to maintain their commitment toward quality.



# Products

Combining in-house design and engineering capabilities with highly automated machinery and skilled manpower, our product portfolio ranges from standard bolting equipment such as Tensioners and Accessories, to special profile components, Customised Tensioners, Dies, Special Profile Components, Special Assembly Solutions, etc.

## MACHINED COMPONENTS



Machined at an accuracy within 10 microns (.01mm)

## SPECIALS ASSEMBLY COMPONENTS



Dies



Special Profile Components



Special Assembly

*Above special component images are for presentation only*

## BOLTING EQUIPMENT AND ACCESSORIES



Tensioners



Sockets



Reaction Arms



Special Accessories

# Manufacturing Capability

Our manufacturing facility houses the latest technology machines in equipped to deliver large volumes in time.

## HIGH-END MACHINES



DESCRIPTION	SPECIFICATION	MAKE
<b>Vertical Machining Center</b>	can machine sizes upto 800 x 510 x 510, and upto 250 mm dia on rotary table	BFW
<b>CNC Turning Center</b>	Can machine upto 320 mm dia, and length 700 mm	LMW

## CONVENTIONAL MACHINES



DESCRIPTION	SPECIFICATION	MAKE
<b>Lathe</b>	Can cut with capacity upto 450mm x 1200 mm dia	PANTHER (Heavy Duty) / MICROCUT INDIA (Conventional)
<b>Band Saw Cutting</b>	Cutting capacity upto 350 mm dia	SAMSON
<b>Power Hacksaw</b>	Cutting capacity upto 250 mm dia	JASWANT BRAND
<b>Radial Drilling</b>	Drilling capacity upto 40 mm	JACKSON INDIA
<b>Slotting (Conventional)</b>	Stroke capacity upto 150 mm	JACKSON INDIA
<b>Milling (Conventional)</b>	Capacity upto 1000 mm x 100 mm x 250 mm	JACKSON INDIA
<b>Surface Grinder</b>	Capacity upto 500 mm x 200 mm	JACKSON INDIA
<b>Pedestal Grinder</b>	Tool re-sharpening	SUNRISE

# Quality Assurance

Our manufacturing processes conform to ISO 9001-2015. Standard Operating Procedures are available with well documented records for identification and traceability. We also maintain standards and specifications for raw material and finished goods.

## QUALITY CONTROL



We are aware of the concepts of APQP / Design and process FMEA, QAP for production, inspection and out sourced activities, MSA, Controlled Monitoring of measuring instruments [MSA- Measure System Analysis], a robust in process control through control plan, product identification and traceability through batch codification, RCA tools like 3C, 5W and 8D. Cause & Effect analysis through Fish-bone diagram methods, and are a fast learner to adapt to customer specific quality requirements.

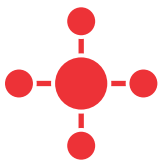
Our quality documents are subject to stringent ISO 9001:2015 audits for accuracy, compliance and continual improvement

## MEASURING EQUIPMENT



- Mitatotoyo Height gauge 0-400mm
- Digital Vernier 0-150mm & 0-300mm
- V Block
- Dial bore gauge 10-150mm
- Dial stand with dial
- Bevell protector

## OUTSOURCE PROCESS CONTROL



We are associated with trusted suppliers for surface finishing processes such as blackening, phosphating, anodizing, powder coating, galvanization of alloy steel; and heat treatment processes such as hardening, tempering, case carbonizing, nitriding.

Through comprehensive SLAs with our suppliers, these outsourced processes are subject to stringent measures for audit and evaluation. Supplier performance is assessed based on Quality & Delivery Rating, and the quality is controlled through PPAP and QAP. Raw Material is sourced from reliable sources, as per customer requirement and specifications. We can also do jobs for the material provided by the customer.

The material finished through these outsourced processes are supplied with authentic test certificates.



## SAFETY

Our manufacturing processes comply with the norms of ISO 45001:2018 safety standards. We create safety awareness through trainings and workshops on safe work practices and emergency preparedness.

# Why ABS?



2 decades of experience in industrial engineering segment catering to every bolting need



Capable of supplying fully finished components right from raw material procurement to finished goods.



Production capabilities with the latest technology machinery to ensure quality output within tight schedules



Design capability to study the feasibility analysis of customer's drawings and standards



Process adherence to quality norms in manufacturing, inspection and testing methods



Systematic recordkeeping for perfect identification and traceability of products



Absolute compliance to ethical and regulatory norms



Strict adherence to process control through control plans and quality measurement tools



Continual improvement through feedback and stringent process audits (internal and external) to ensure output reliability



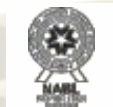
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