



SPM
ENGINEERING

(AN ISO 9001-2015 CERTIFIED COMPANY) SINCE 2004

SPM Engineering – Delivering precision-driven, performance-focused solutions backed by two decades of trust and innovation.



Precision.
Innovation.
Excellence.

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About SPM Engineering

With over 21 years of industry experience, SPM Engineering has established itself as a leader in precision machining, custom automation solutions, and specialized manufacturing systems. We are committed to delivering cutting-edge technology and solutions that meet the rigorous demands of modern industries, from aerospace to automotive, defence, energy, and beyond. Our offerings are designed to address the most complex and evolving needs of our clients, ensuring reliability, efficiency, and unmatched quality.

Our Core Focus Areas

CNC & VMC Machining: Precision at Its Best

At SPM Engineering, we specialize in CNC (Computer Numerical Control) and VMC (Vertical Machining Centre) machining, providing precision components for industries that require the highest standards of accuracy and consistency. These machining processes allow us to deliver parts with tight tolerances, fine surface finishes, and intricate designs, all while maintaining exceptional repeatability.

We use advanced CNC and VMC machines to handle complex operations such as milling, drilling, tapping, and contouring, ensuring that each component meets exact specifications. Our commitment to quality control and precision engineering guarantees that every product we deliver exceeds client expectations, whether it's for aerospace components, automotive parts, or intricate machinery.

Key Benefits:

High Precision & Accuracy:

Ideal for industries requiring tight tolerances and intricate designs.

Consistency:

Reliable, repeatable results that ensure quality across all production runs.

Complex Part Production:

Capability to handle complex geometries and features with ease.



SPM Design & Manufacturing:

Tailored Solutions for Specialized Needs

We understand that standardized equipment doesn't always meet the unique needs of every client. That's why SPM Engineering excels in the design and manufacturing of Special Purpose Machines (SPMs), engineered to solve specific production challenges. Whether it's improving efficiency, enhancing production quality, or automating complex processes, we deliver customized machines that are built for purpose.

Our engineering team works closely with clients to design machines that cater to their unique requirements, ensuring seamless integration into existing production lines. We focus on innovative designs that reduce manual intervention, optimize workflows, and enhance overall operational efficiency.

Key Benefits:

Custom Engineered Solutions:

Designed specifically for your production needs, addressing complex manufacturing challenges.

Increased Efficiency:

Automating processes to improve speed and reduce operational costs.

Flexibility & Scalability:

Machines that can grow with your business, adapting to new product lines or production techniques.

Automation Systems:

Enhancing Production with Cutting Edge Technology

The future of manufacturing is automation, and SPM Engineering is at the forefront of designing and implementing automation systems that increase productivity while minimizing errors and downtime. Our automation solutions encompass everything from basic process automation to advanced robotics and control systems, tailored to the specific needs of each client.

We focus on streamlining manufacturing processes to improve consistency, reduce human error, and enhance overall production capabilities. By integrating smart automation systems, we help clients reduce labour costs, increase throughput, and maintain a competitive edge in their respective markets.

Key Benefits:

Enhanced Productivity:

Automation systems that increase production speed without sacrificing quality.

Reduced Human Error:

Automated systems ensure consistent output and minimal defects.

Cost Reduction:

Lower labour costs and reduced waste, improving the bottom line.

Smart Integration:

Advanced control systems for seamless integration into existing production lines.

Commitment to Quality, Safety, and Innovation

At SPM Engineering, our unwavering commitment to quality, safety, and innovation is at the core of everything we do. We understand the importance of meeting and exceeding industry standards, and we go above and beyond to ensure that every project is executed with the highest level of care and precision. From the moment we receive your specifications to the final delivery of your product, we adhere to stringent quality control processes, ensuring that each solution we deliver is not only functional but also safe and reliable.

Our reputation for excellence has earned us the trust of leading manufacturers across multiple industries, from aerospace and automotive to defence and industrial sectors. We continue to invest in state-of-the-art technology, skilled engineers, and cutting-edge systems, ensuring that we remain at the forefront of the industrial engineering sector.





Why Choose SPM Engineering?

Proven Expertise:

With over two decades of experience, we have developed a deep understanding of the engineering challenges faced by our clients.

Custom Solutions:

We offer tailored solutions that address the specific needs of each client, ensuring efficiency and performance.

By choosing SPM Engineering, you're not just investing in high-quality machinery or automation systems—you're investing in a long-term partnership dedicated to driving your business forward with precision, innovation, and excellence.

Trusted by Industry Leaders:

Trusted by Industry Leaders: Our clients, from top-tier aerospace companies to leading automotive manufacturers, rely on us for innovative and high-quality engineering solutions.



VISION & MISSION

VISION

To be the most trusted name in precision manufacturing, driving innovation and excellence in the engineering industry through cutting-edge technology and uncompromising accuracy.

At SPM Engineering, our mission is to manufacture and supply high-precision machined and fabricated metal components, as well as special purpose machines (SPMs), that power the future of aerospace, defence, and industrial engineering. We are committed to delivering exceptional quality and safety while fostering innovation and cultivating a culture of excellence within our skilled team.

OUR SERVICES

VMC Machining

We offer high-precision Vertical Machining Center (VMC) services for components used across automotive, aerospace, and general engineering industries. Our machining capabilities ensure tight tolerances, consistent quality, and rapid turnaround.

Special Purpose Machine (SPM) Development

We design and build customized SPMs that meet the specific automation and production needs of our clients. From concept to commissioning, we deliver machines that enhance productivity, reduce downtime, and address unique manufacturing challenges.

Industrial Engineering Solutions

Our team provides end-to-end engineering solutions to complex industrial problems. Whether it's retrofitting, process automation, or custom machine design, we bring innovation and precision to every project.



CORE COMPETENCIES

High-Precision VMC Machining

Leveraging two decades of machining experience, we offer CNC-based VMC services for the production of high-accuracy components across industries like automotive, aerospace, medical devices, energy, and general manufacturing.

Key Capabilities:

- 3-axis and 4-axis VMC machining
- High-speed spindle operations for exceptional surface finishes
- Precision tolerances up to ± 2 microns
- Flexible production — prototypes to high-volume batches
- Expertise in stainless steel, aluminium, copper alloys, and engineered polymers

With a focus on quality, speed, and reliability, we are the preferred machining partner for OEMs and Tier 1 suppliers alike.

Design & Development of Special Purpose Machines (SPMs)

For over two decades, we've delivered customized SPMs that solve unique production challenges and increase operational efficiency.

Our SPM Portfolio Includes

- Automated assembly lines
- Leak testing machines
- Drilling, tapping, and boring SPMs
- Vision-based inspection systems
- Servo and pneumatic-driven machines
- Smart controls with PLC & HMI integration

Our SPMs are built for durability, precision, and scalability, enabling clients to streamline production, reduce manpower, and boost throughput.

Industrial Engineering Solutions

Our multi-disciplinary team brings 21 years of experience to deliver end-to-end industrial solutions, from concept to commissioning.



Key Offerings:

- Process automation and machine retrofitting
- Precision jigs, fixtures, and tooling
- Robotics and motion control integration
- Industry 4.0-ready system upgrades
- Root cause analysis and continuous improvement initiatives

We combine technical insight with execution excellence to overcome your toughest engineering challenges.

Why Choose SPM Engineering?

- 21 years of specialized experience in precision engineering and automation
- Located in Ambattur, Chennai - India's industrial powerhouse
- Fully equipped in-house facilities: design, machining, assembly, testing
- ISO-aligned quality systems for consistent results
- Transparent, client-first approach with customized support

Industries We Serve

- Automotive & Auto Components
- Aerospace & Defence
- Medical Device Manufacturing
- Electronics & Electrical
- Industrial Automation & Manufacturing



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