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SQUAREPOWER MECHANICAL SOLUTIONS

1. Rubber Components Design:

- Rubber components are specifically used as seals, vibration & shock absorption mounts, load bearing members, encapsulation material, etc.
- Selection of rubber material and compounding details for the required application.
- Design of rubber components as per the specifications.

2. Drawing Preparation and GD&T:

- Undertake subcontract work to prepare 2D drawing preparation and GD&T application.
- Theory and application courses on "2D drawing preparation and GD&T" to Engineering students and working engineers.

3. Mechanical Engineering Design:

- Detailed design analysis of mechanical system and its components.
- Design for strength and stiffness.
- Design for manufacture.

4. Product Development:

- Study to understand the product.
- Understanding the process involved to manufacture the product.
- Aesthetics design.

5. Hydraulic System Design:

- Design of hydraulic system, valves, etc.
- Detailed design of hydraulic components.

6. Technology Demonstration:

- Design and Development of new technologies to upgrade the old technologies.
- Provide additional features to improve the existing system.

7. Automotive Hydrogas Suspension System:

- Suspension system design for the specific vehicle application.
- Design of hydrogas system.
- Selection of seals, valves, etc.



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8. Endurance Test Rigs:

- Automotive components are subjected accelerated / endurance tests before the production.
- Design of test rigs for the specified component / system.
- Selection of servo valves and other systems.
- Detailed component drawing preparation.
- Assembly & Performance evaluation.

9. Refurbishment of old machines / vehicles:

- Replacement of damaged components by preparing drawing and manufacturing.
- Replacement of worn out parts like bearings, oil seals, belts, etc.

10. Machine Building:

- Layout of the machine.
- Design of mechanisms, powerpack selection, etc.
- Detailed component drawing preparation.
- Assembly & Performance evaluation.

11. Technical Consultancy:

- Diagnosing the existing system for improving the production / performance.
- Onsite industrial visits.
- Automobile consultancy.
- Technical advice.

12. Reverse Engineering:

- Understanding the existing mechanism & design of the machine or system.
- Preparation of the 2D drawings of the existing system.
- Design the system with the new specification for the improved performance.
- Detailed component drawing preparation of the proposed system.
- Manufacture the components and assembly.
- Performance evaluation.

13. Industrial Automation:

- Understanding the processes involved in the system.
- Selection of the mechanisms, feeders, electronic controller, heating elements, etc.



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- Detailed design and preparation of 2D drawings & assemblies.
- Manufacture, assembly and installation.

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