



Hyper Dynamic

Creation Prestivo Exim Pvt. Ltd.
Built On Trust · Driven By Innovation



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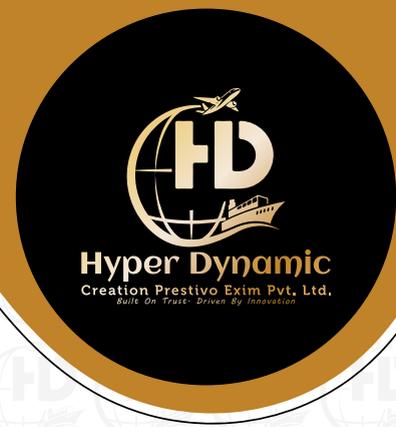


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Silpukhuri, Guwahati, Assam India

Design: Innovative Engineering for Industrial Applications

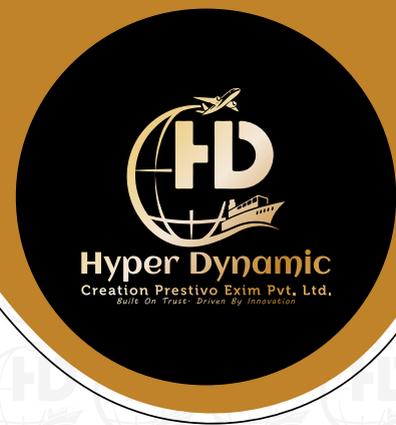


Our design philosophy focuses on integrating functionality, safety, and performance through cutting-edge engineering solutions. From concept development to fabrication-ready documentation, our design team ensures each project is optimized for efficiency, reliability, and long-term performance.

- **Customized Engineering Solutions:** Tailor-made design and development services engineered to meet unique operational, structural, and performance requirements across diverse industrial applications.
- **Reverse Engineering and Prototyping:** Detailed component analysis and digital reconstruction to replicate, optimize, and validate product designs for improved manufacturability and performance.
- **CAD & Simulation:** High-precision 3D modeling and multiphysics simulation for performance evaluation, stress analysis, and design optimization to ensure reliability and production feasibility.
- **Mechanical Systems Design:** End-to-end mechanical system engineering — from concept generation to detailed design — integrating functionality, ergonomics, and safety to deliver robust, fabrication-ready industrial solutions.



Fabrication Support: Engineering Excellence in Every Build

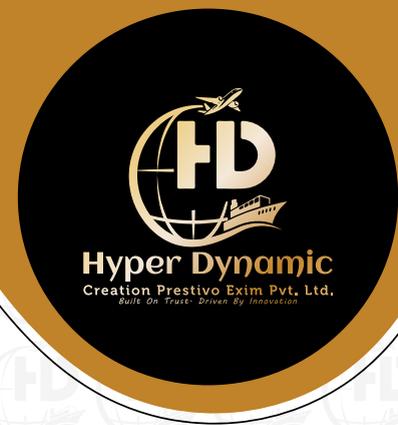


We provide comprehensive design and engineering support for fabrication and production processes, enabling our clients to achieve superior accuracy, efficiency, and structural integrity in their builds. Our expertise ensures seamless coordination between design intent and fabrication execution.

- **CNC Sheet Metal Forming Support:** Engineering of precise sheet metal designs compatible with CNC press brakes and forming systems to achieve high dimensional accuracy in complex geometries.
- **Laser Cutting and Profiling Assistance:** Development of optimized cutting profiles and nesting layouts for high-speed, computer-guided laser cutting operations — ensuring material efficiency and superior edge quality.
- **Investment Casting Engineering:** Design and validation of components for high-integrity investment casting, ensuring dimensional accuracy, surface finish quality, and material consistency.
- **Structural Plant Fabrication & Assembly Design:** Structural and assembly-level engineering for platforms, systems, and process units — ensuring durability, load integrity, and compliance with industry standards.



Precision: Engineering Accuracy at Its Core



Precision defines our engineering philosophy. Every design is meticulously analyzed, validated, and optimized to meet strict tolerances and deliver consistent, fabrication-ready output. Our integrated approach ensures accuracy, repeatability, and design quality at every stage.

- **Advanced 3D Modeling and Simulation:** Digital design and virtual prototyping using advanced 3D CAD tools and simulation platforms to predict performance and optimize design geometry.
- **Tolerance Analysis and Quality Control:** Statistical tolerance analysis and dimensional validation ensuring precise component fit, manufacturability, and compliance with quality benchmarks.
- **Finite Element Analysis (FEA) & CAD-Based Planning:** Computational modeling and simulation-driven validation to assess structural integrity, stress distribution, and thermal behavior during design stages.
- **Real-Time Monitoring & Inspection System Design:** Engineering of automated inspection frameworks and sensor-based monitoring systems enabling continuous process control and quality verification during fabrication.



Crushing, Material Handling & Separation Systems: Integrated Processing Solutions for Maximum Efficiency



We specialize in engineering design, system integration, and optimization for crushing, material handling, storage, and separation systems. Our team ensures every system is engineered for seamless operation, high throughput, and long-term reliability.

Crushing Systems (Engineering & Optimization):

- **Jaw Crushers:** Structural and mechanical design support for heavy-duty primary crushers optimized for rugged performance.
- **Cone Crushers:** Design validation and performance optimization ensuring uniform product output and operational stability.
- **VSI Crushers:** Engineering design for efficient sand production and improved particle shape consistency.





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Material Handling & Storage (System Design)

- **Conveyors:** Modular and scalable conveyor system designs ensuring smooth material transfer and efficient plant flow.
- **Hoppers:** Structural and flow-optimized designs for reliable feeding and discharge operations.
- **Silos:** Engineering of safe, durable storage systems for bulk materials, chemicals, or process media.

Separation Technologies (Design & Integration)

- **Air Blowers:** Design optimization for energy-efficient pneumatic separation and air-assisted material transport.
- **Cyclones:** Engineering of efficient particulate control systems for dust and air stream separation.

One Integrated System. Maximum Efficiency. Ultimate Reliability

