



Our Website

# ADVANCED HYDRAULIC SYSTEMS

Efficient Solution for Steel, Power, Cement and Mining Industries.



Hydraulic Press



Hydraulic Power Pack



C-Type Press

## □ Company Profile

**Year of Establishment: 2005**

*(Subsidiary of the Parent Company, **Decon Consulting Engineers**, established in 2000)*

We are an **engineering consultancy and manufacturing organization** specializing in **Advanced Hydraulic Systems**, delivering end-to-end solutions for **industrial presses, hydraulic power packs, hydraulic circuits, piping, valves, and integrated control systems.**

Our hydraulic solutions are engineered for **high performance, precision, safety, and reliability**, catering to a wide range of **industrial and process applications.**

All hydraulic systems and equipment are manufactured under the reputed brand name **“DECON”**, recognized for **engineering excellence, robust design, and consistent operational performance.**

## □ Engineering Powerful & Efficient Hydraulic Systems

- We design and deliver advanced hydraulic systems that enable industries to achieve precise control, high force transmission, and reliable operation across demanding applications. Our solutions are engineered to ensure optimal performance, energy efficiency, and operational safety, while meeting stringent industrial standards and application-specific requirements.
- Our hydraulic solutions are developed with a strong focus on system optimization, structural robustness, and long-term lifecycle performance. Each system is engineered using a data-driven and analysis-based approach, ensuring consistent and dependable performance under real-world operating conditions, including high pressures, variable loads, and continuous-duty cycles.
- We are an MSME-registered organization and operate under an ISO 9001:2015 certified quality management system, ensuring strict process control, traceability, and engineering excellence throughout every stage of design and execution. Our engineering capabilities include advanced hydraulic circuit design, detailed 3D CAD modeling, structural FEA analysis, fluid flow and pressure-loss analysis, thermal evaluation, and laboratory-supported testing and validation to deliver systems with high precision, safety, and reliability.

## □ Our Hydraulic Systems

- We offer end-to-end engineering and manufacturing for a wide range of industrial Hydraulic Systems

### Hydraulic Systems

High-force systems designed for forming, pressing, punching, bending, and straightening operations. These systems deliver controlled pressure and stroke accuracy for heavy-duty industrial applications.

### Applications:

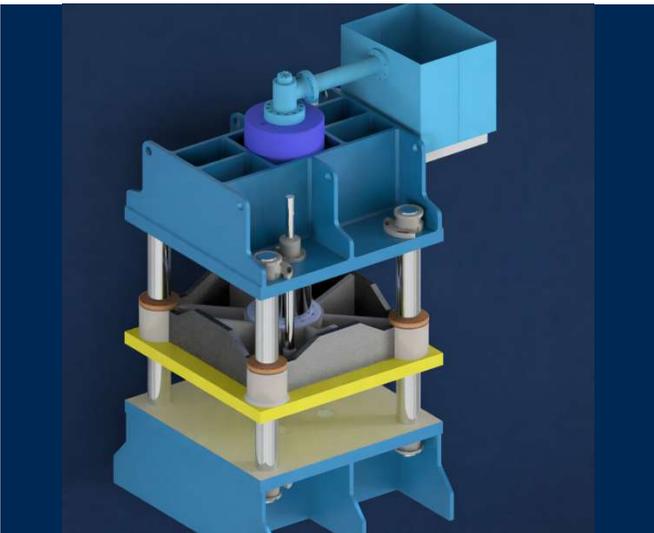
Metal forming, forging, stamping, rubber molding, composite pressing



C-Type Machine



Sheet Forming Machine



Guided Heavy Duty Hydraulic Machine



H-Type Heavy Duty Hydraulic Machine

## □ Our Hydraulic Systems



Lifting Machine



H-Type Machine for Punching Operation



Hydraulic Power Pack



Automation Panel for Hydraulic Machine

## □ Engineering & Design Capabilities

➤ Our engineering team delivers comprehensive design and validation solutions covering the complete lifecycle of material handling and process equipment—from concept development to detailed engineering and execution support.:

### ➤ Core Engineering Services

- Conceptual & Feasibility Engineering
- Process Design & Equipment Selection
- Layout Planning & System Integration
- Design Optimization for Performance & Cost
- Design for Manufacturability (DFM) & Assembly (DFA)

### ➤ CAD & 3D Modelling

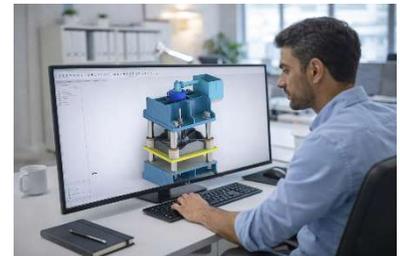
- 2D Engineering Drawings (GA, Fabrication, Assembly)
- Advanced 3D CAD Modelling & Parametric Design
- Assembly & Interference Checks
- Digital Mock-ups & Virtual Prototyping
- Revision Control & Design Documentation



3D MODELING WITH

SOLIDWORKS

CATIA



Ansys

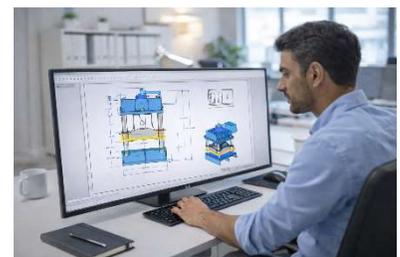


FEA & CFD ANALYSIS WITH

AUTODESK  
Inventor Nastran



2D DETAILED DRAWING WITH



## □ Engineering & Design Capabilities

### ➤ Testing & Validation

- Laboratory-supported testing & verification
- Design validation against operating conditions
- Performance and safety checks
- Compliance verification with applicable standards

### ➤ Standards & Quality Compliance

- ISO 9001:2015 Quality Management System
- IS / DIN / ISO / ASME / ASHRAE / ASHVE / ACGIH / TEMA
- Industry-specific safety & environmental norms
- Client-specified design codes and guidelines

### ➤ Typical Engineering Deliverables

- Design Calculations & Technical Reports
- 2D & 3D Engineering Drawings
- Analysis Reports (FEA / CFD)
- Bill of Materials (BOM)
- Manufacturing & Installation Support Documents

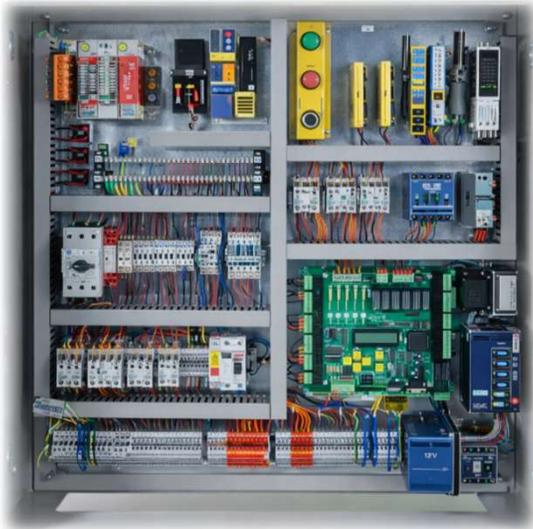
### ➤ Design Philosophy

- ✓ Safety-first engineering
- ✓ Precision-driven design
- ✓ Performance-oriented solutions
- ✓ Lifecycle reliability
- ✓ Continuous improvement

## □ Automation & Control Systems

➤ Our automation solutions enhance safety and productivity through intelligent control:

- PLC & HMI System Design
  - Machine Interlocking & Sequencing Logic
  - VFD-based Speed Control
  - Safety Interlocks & Emergency Systems
  - Instrumentation Integration



### ❑ **Why Choose Us**

- ✓ MSME Registered Organization
- ✓ ISO 9001:2015 Certified Quality Management System
- ✓ Analysis-Driven Engineering Approach
- ✓ Advanced CAD, 3D Modelling, FEA & CFD Expertise
- ✓ Precision Design with Laboratory-Supported Validation
- ✓ Industry-Compliant & Safety-Focused Solutions
- ✓ Reliable Engineering Support from Concept to Commissioning

### ❑ **Industries We Serve**

- Cement & Building Materials
- Steel & Metal Processing
- Power & Energy
- Mining & Bulk Material Handling
- Chemicals & Process Industries
- Manufacturing & Automation Plants

## Our Esteemed Customers



### Contact Us

#### Engineering & Design Office

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