



**DEEKEY TOOLS**  
Artisans Of Accuracy

**Tool & Die | Press Components  
Jigs & Fixtures**

# Precision isn't just measured, it's crafted. That's the mark of true craftsmanship.

## Our Journey

Founded at 2004, with a vision to redefine precision in the tooling industry, Deekey Tools has grown from a modest workshop into a trusted name in press components and tool & die solutions. Over the years, we have combined engineering expertise, advanced manufacturing technology, and an unwavering commitment to quality to deliver products that power industries worldwide. Our journey is built on craftsmanship, innovation, and trust, ensuring every component that leaves our floor carries the mark of Deekey excellence

From concept to completion, every creation at Deekey Tools is a testament to our in-house expertise. With specialized departments for sales, design, production, and quality assurance working in seamless synergy, we ensure each product is meticulously engineered, precision-crafted, and refined to the highest standards—right under our own roof.

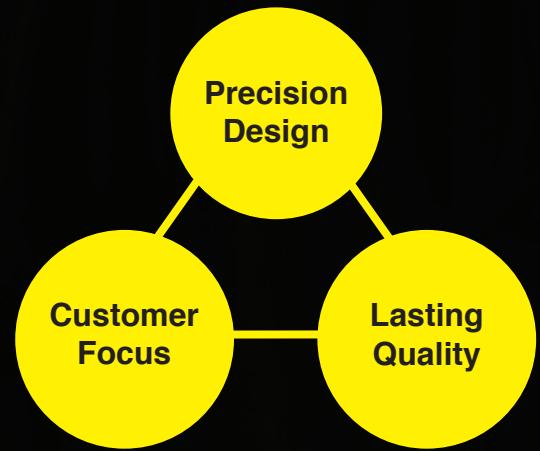
*"At Deekey Tools, quality is not just a goal — it is our way of life. Every component we create reflects our dedication to precision, durability, and value for our customers. We believe in working with calm focus and steadfast commitment, ensuring that each step we take strengthens our promise of excellence. Our success lies not only in what we deliver, but in the trust we forge with every customer.."*

- Mr. Venugopalan, Director & CEO

## Three Pillars of Deekey Tools

At Deekey Tools, our foundation is built on more than just machinery, it's built on principles. Every product carries the mark of intent, innovation, and unwavering precision.

Rooted in innovation, these are the three pillars that define Deekey Tools.



### Precision Design

Deekey Tools engineers every product with accuracy at its core, ensuring flawless fit and function.



### Lasting Quality

Deekey Tools builds for endurance, using premium materials to ensure long-term reliability.



### Customer Focus

We tailor solutions to real-world needs, delivering value beyond just the tool.



# **“ In manufacturing, precision starts with Tool & Die — the true art of control ”**

At Deekey Tools, we specialize in developing robust tool and die solutions that drive efficiency on the shop floor. Our dies are built to deliver consistent forming, punching, and stamping performance across high-volume production lines. With a focus on material strength, dimensional integrity, and process optimization, every tool is crafted to enhance productivity, minimize downtime, and deliver superior part quality throughout its lifecycle.

## **Our Commitment Beyond the Tool**

Every tool & die, we build at Deekey Tools reflects a deeper promise, to empower our clients with tools that drive results, reliability, and relationships.

## **Built with Purpose**

From blueprint to production, every step is driven by real-world functionality and engineering integrity.

## **Tested by Time**

Our tools are forged to withstand rigorous industrial demands, ensuring they perform day after day, cycle after cycle.

## **Driven by You**

Your challenges inspire our solutions. Your goals shape our direction.

# **“ In manufacturing, precision starts with Tool & Die — the true art of control ”**



At Deekey Tools, we craft precision dies engineered for durability, accuracy, and seamless performance, meeting the exacting demands of modern manufacturing. Deekey Tools delivers tooling solutions that set industry benchmarks.

## **Proven Expertise**

Decades of experience in crafting precision tools and dies that meet the highest industry standards.

## **Proven Expertise**

Customized designs engineered to fit specific client needs and production requirements.

## **End-to-End Support**

From concept to delivery, we handle every stage with precision and care.

## **Quality Without Compromise**

Stringent quality checks to ensure flawless, highend performance and long service life.

# Our Expertise in Tool & Die

These are the core processes, classifications, and components that define our work in tool and die manufacturing.

Tool Classification	Description
Simple Tool (Single- Operation)	Performs one operation per stroke (e.g., just blanking or piercing).
Compound Tool	Combines multiple cutting operations in one stroke.
Progressive Tool	Material moves through several die stations, each performing a step.
Combination Tool	Cutting + forming in a single die.
Transfer Tool	Used in transfer presses where the part is moved from station to station by a transfer system.

Tool Components	Description
Punch	Upper part that moves down to press metal into the die.
Die Block	Lower portion, holds the metal in place and provides the shape.
Die Set	Complete tool set with punch holder, stripper, guide pillars, and base.
Pillar / Bush	Guides and aligns the punch and die block for precise movement.
Die Spring	Provides controlled force for stripping, ejecting, or returning tool parts.
Pilots / Dowel Pins	Ensures accurate alignment of sheet strips or die components during operation.

# Our Expertise in Tool & Die

These are the core processes, classifications, and components that define our work in tool and die manufacturing.

Tool Operation Classification	Description
Blanking Die	Cuts a flat piece (blank) from sheet metal, the blank is the finished part.
Piercing Die	Punches holes or shapes into the material, the pierced portion is scrap.
Drawing Die	Pulls metal into a shape (cups, cases), used for deep drawing operations.
Bending Die	Bends metal at specific angles without cutting.
Forming Die	Deforms metal into complex shapes without cutting (e.g., ribs, flanges).
Trimming Die	Removes excess material or flash after forming or forging.
Coining Die	Used for fine-detail impressions (e.g., logos, coin shapes).
Cut-off Die	Separates finished part from stock or strip.
Notching Die	Removes unwanted portions from edge or internal sections of the part.
Shaving Die	Provides close dimensional tolerances by shaving edges.
Embossing Die	Raises or sinks designs / letters into the material.
Lancing Die	Performs partial cutting + forming in a single stroke.
Stamping/Marking Die	A hardened punch with engraved alphanumeric characters used to mark the surface.
Curling Die	Rolls edge of part into a curved form (tube-like, safe edge).

# Features of Tool & Dies, Crafted at Deekey Tools

## Bush - Friction low, performance

Defines the shape and tolerances of the blanked part. We machine dies with EDM accuracy and use hardened tool steels to withstand wear and maintain edge sharpness during long production cycles.

## Ball Gauge Bush - Alignment perfected, movement refined

Precision ball gauge bushes, custom-designed for optimal alignment and minimal friction in press tools. Manufactured to proprietary specifications—ensuring consistent accuracy, extended service life, and seamless tool operation.

## Custom Punch & Round Punch Sharp force, repeatable results

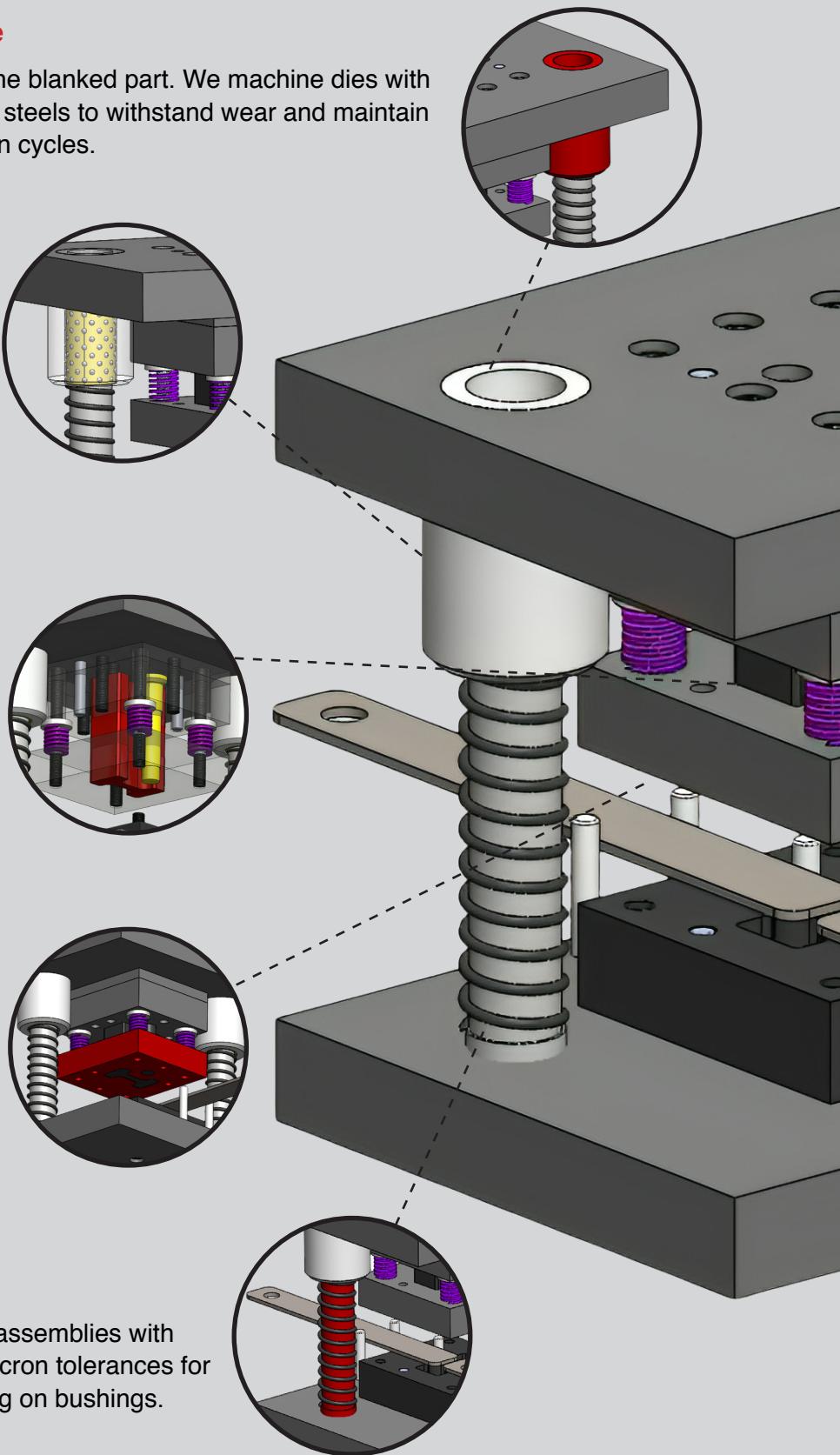
Executes the cutting or forming action with exact force transfer. Made from premium wear-resistant steel and finished to micron level tolerances for uniform part quality and extended lifespan.

## Stripper – Smooth separation, clean every time

Cleanly separates material from punches after each stroke. Built from hardened tool steel with optimized clearance, ensuring smooth stripping, burr reduction, and improved part finish.

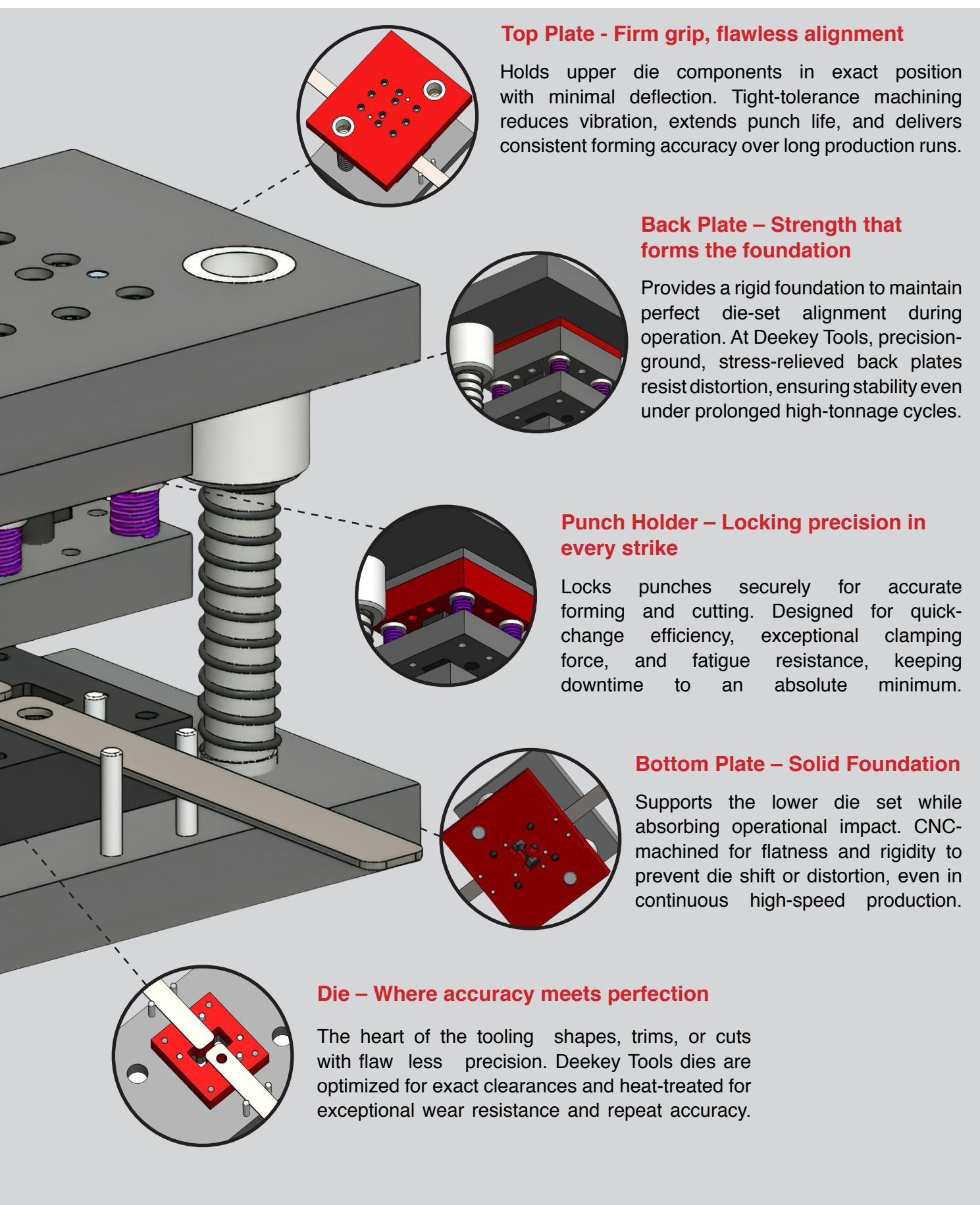
## Pillor – Standing tall for perfect

Guide and align the movement of die assemblies with pinpoint accuracy. Manufactured to micron tolerances for smooth travel and minimal side-loading on bushings.



The picture shown is a compound tool (Blanking & Piercing)

# Features of Tool & Dies, Crafted at Deekey Tools



# **Press Components: Built for Precision, Under Pressure**

In high-speed production, there's no room for compromise. Deekey's press components are purpose-built to endure intense pressure, rapid cycles, and precise operations, without missing a beat. Whether it's blanking, forming, bending, or drawing, our components integrate effortlessly into your press tools and production lines.

## **Why Choose Deekey Tools?**

Our press components are crafted to meet the toughest industrial demands, offering seamless assembly, reduced wear, and superior output. Whether it's for high-speed production or precision forming, these components work together to transform raw materials into precision-engineered products, shift after shift.

### **Uncompromised Precision**

Every component is engineered with tight tolerances to ensure perfect fit and functionality

### **Durability that Lasts**

Built from high-grade materials to withstand heavy-duty production cycles.

### **Custom Solutions**

Designed to meet specific client requirements and industry standards.

### **Consistent Quality**

Rigorous inspection and testing at every stage of manufacturing

# Press Components: Built for Precision, Under Pressure



With more than two decades of experience in handling heavy-duty stamping and forming operations, Deekey Tools delivers press components that can withstand extreme tonnage without compromising precision. Our in-depth knowledge of load distribution, material behavior, and die alignment ensures every component performs flawlessly under the most demanding production environments.

## Capacity Versatility

Built to handle press operations across the full tonnage spectrum, from compact units to heavy-duty high-capacity systems.

## Cycle Time Optimization

Engineered components that accelerate production rates while minimizing idle press hours.

## Dimensional Integrity

Tools engineered to maintain exact shape, form, and tolerance, ensuring every press component meets stringent industry standards without deviation.

## Material Adaptability

Dies designed to handle varied sheet metals and alloys, ensuring consistent forming performance across multiple grades without compromising quality.

# **Gallery of Strength & Precision, Forged with expertise, defined by detail.**

Our gallery showcases a diverse range of press components from Deekey Tools, combining strength, precision, and industrial expertise. From intricate parts to high-capacity components, every piece meets stringent standards, reflecting our advanced manufacturing and commitment to performance, durability, and consistency.



# **Gallery of Strength & Precision, Forged with expertise, defined by detail.**



The shown products are just some examples of our work in press components; however, our expertise goes beyond these. We specialize in understanding our customers' needs and delivering tailored solutions that perfectly fulfill their requirements.

# **Jigs & Fixtures: Precision in every clamp, reliability in every cycle**

At Deekey Tools, we specialize in designing and manufacturing customized jigs and fixtures that enhance productivity, reduce cycle times, and ensure consistent quality. Our fixtures are engineered to perform seamlessly on the shop floor, with a strong focus on accuracy, durability, and operator efficiency. From welding to machining, inspection to assembly, we provide tailored solutions that meet the demanding requirements of modern manufacturing.

Our press components are crafted to meet the toughest industrial demands, offering seamless assembly, reduced wear, and superior output. Whether it's for high-speed production or precision forming, these components work together to transform raw materials into precision-engineered products, shift after shift.

## **In-house Design Expertise**

CAD/CAM-driven fixture development aligned with real-time production needs.

## **Shop-Floor Practicality**

Fixtures built to simplify operations and minimize human error.

## **Custom Solutions**

Fixtures tailored for unique geometries, machine setups, and client standards.

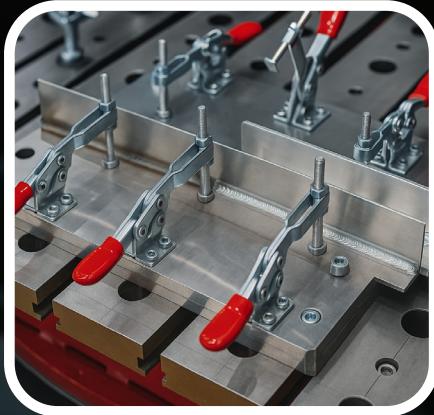
## **High-Precision Machining Fixtures**

Built for vibration damping, rigid clamping, and improved tool life.

## **Process Efficiency**

Smart clamping and layouts for faster machining with minimal operator fatigue.

# **Jigs & Fixtures: Precision in every clamp, reliability in every cycle**



## **Types Of Jigs & Fixtures**

### **Welding & Assembly Jigs**

Designed to withstand thermal distortion and ensure repeatability in mass production.

### **Inspection Jigs & Fixtures**

Micron-level tolerance checking with calibrated reference points.

### **Modular Jigs & Fixture Systems**

Adaptable solutions for multiple part variants and quick changeovers.

### **Tool Room & Production Support**

Custom fixture design and build for tool makers and OEMs.

### **Power-Operated Fixtures**

Hydraulic, pneumatic, magnetic, and vacuum-based clamping systems engineered for consistent accuracy and reduced cycle times.

### **Rigid Workholding Systems**

Rigid setups engineered to ensure precision, stability, and repeatability in complex machining.



## Contact Us

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**Reach Us For Tool & Die Solutions,  
& Press Products Manufacturing**

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