



ABOUT X-Y TOOL AND DIE



X-Y Tool And Die has been in business since 1971. That's when we started producing fixtures, gages, tools, prototype parts and quality machined parts for the manufacturing industry. Since then, our company has grown to fill 48,000 square feet of production area and 7,000 square feet of office and engineering space. Our customer base has expanded to include markets from automotive to consumer products. But our philosophy has remained the same - to be a cut above the competition in everything we do.

At X-Y Tool And Die we make every effort to create the highest quality parts with competitive pricing. This is made possible by having well trained employees with well maintained machines and software. To aid in programming of most of our CNC equipment we use MasterCam software, which is available throughout the shop. Having software of this kind enables the programmer/ Operator to access files directly from the engineering server. The ability to do this reduces the amount of time needed to create complex programs.

Our commitment is to solving customers needs and enhancing production output, prototype development, and helping our customers improve their business processes. We are constantly adding to our machining capabilities and making a significant investment in our employees to better serve our customers.

Our Products are designed, machined and assembled in a modern facility located in LaOtto, Indiana which is just 15 minutes North of Fort Wayne and 30 minutes from FWA International airport. With over 50,000 square feet of climate controlled space we have what it takes to become your tooling or machine supplier whether you need Complex Tooling, Work Holding Solutions or complete turn key Equipment.

Built on a strong tool and die foundation our company only hires and trains top notch tool makers. This philosophy ensures our customers that, only qualified and skilled tool makers are providing their quality tooling or equipment.

An ISO 9001:2000 registered company since 2002 we continue to strive toward giving our customers a first-class product.

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Facility Capabilities

INSPECTION EQUIPMENT

- 1 - C-700 Zeiss 28" x 40" CMM
- 1 - Eclipse Zeiss 28" x 40" CMM
- 1 - Eclipse Zeiss 40" x 96" CMM
- 1 - Starrett CNC Optical Comparator

GRINDING EQUIPMENT

- 3 - Jig Grinders
- 3 - O.D. / I.D. Grinders
- 1 - Arter Rotary Grinder
- 1 - Okamoto 16x30 Wet Grinder
- 1 - Okamoto 12 x 24 Wet Grinder
- 1 - 14x24 Wet Grinder
- 5 - Surface Grinders
- 1 - Sunnen Hone
- 1 - Center Polisher
- 1 - Mitsui Seki CNC Jig Grinder

EDM

- 2 - Fanuc CNC wires
- 1 - Charmilles CNC Wire

HEAT TREAT EQUIPMENT

- 1 - Induction Heat Treater
- 1 - Heat Treat Oven

SUPPORT EQUIPMENT

- 3 - Drill Presses
- 1 - Vertical Stock Saw
- 1 - Horizontal Stock Saw
- 2 - Band Saws
- 1 - Jig bore

DELIVERY VEHICLES

- 2 - E-350 Cargo Van
- 1 - 1997 F-350 Flat Bed Truck
- 1 - 22' Gooseneck Trailer

CNC MILLS

- 1 - Mitsubishi 1416-HT11 5-Axis Boring Mill
- 1 - Viper HB2109S Vertical Boring Mill
- 1 - Mazak FH-6800 Horizontal Center
- 1 - Mazak VTC-300C Vertical Center
- 1 - Hurco BMC-50 with Rotary Turntable
- 2 - Hurco BMC-25 with Rotary Turntable
- 4 - Hurco BMC-3017 Mill Vertical Center
- 1 - Hurco VMX42S Vertical center
- 1 - Hurco VMX24S Vertical center
- 5 - Bridgeport EZ-Trak mills

CNC LATHES

- 1 - Mazak Super Turn 250M-Y
- 1 - Mazak Integrex 200-IV
- 1 - Mazak Integrex 300Y
- 1 - Mazak Quick Turn 15N
- 1 - Mazak Quick Turn 30-M

MANUAL MILLS

- 15 - Bridgeport Mills
- 1 - Lagun Mill

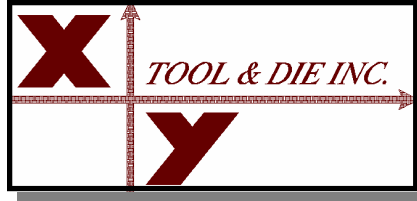
MANUAL LATHES

- 1 - South Bend 22in. x 80in.
- 1 - South Bend 20" Turnado
- 1 - South Bend 18" Turnado
- 1 - South Bend 14" Lathe

WELDING EQUIPMENT

- 2 - TIG Welders
- 3 - Miller Mig Welders
- 1 - Portable Mig Welder
- 1 - Lincoln Pro-Cut Plasma





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Quality



In addition to accommodating almost any job with our expansive machining capabilities and trusted product knowledge, our commitment to quality is of the utmost importance. Above you can see our Quality Room. We offer complete **Quality Assurance** with our quality staff fully trained in the use of our 3 CMM's with up to 96" of Y-axis movement. These steps reinforce our focus on building long-term and successful relationships with our customers

Quality Policy

X-Y Tool and Die's focus is to build long-term, successful relationships with our customers. This will be achieved through a process of continuous improvement, understanding our customer's expectations, providing innovative solutions, engineering support and quality machines in a timely fashion.

X-Y Tool and Die is committed to the success and well being of our employees. We will employ well-trained employees who support our commitment to customer satisfaction.



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Services

Engineering

Our engineering staff works with the latest release of AutoCAD, Autodesk Inventor, Solid Works and Cadkey. The capability to import and export almost any type of cad file eliminates down time to keep your projects moving without delay. Along with the cad stations in the engineering department we have several workstations in the shop area to open and edit drawings. The benefit to this is the ability to upload and download directly to many machines for quicker, error free programming.

CNC Machining

At X-Y we make every effort to create the highest quality parts with competitive pricing. This is made possible by having well trained employees with well maintained machines and software. To aid in programming of most of our CNC equipment we use Mastercam software, which is available throughout the shop. Having software of this kind enables the programmer/operator to access files directly from the engineering server. The ability to do this reduces the amount of time needed to create complex programs.



Quality Inspection

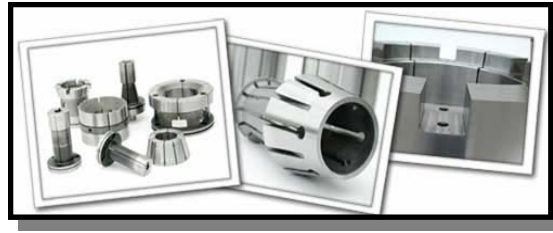
X-Y Tool & Die's inspection capabilities are one of the best in the industry. We pride ourselves at X-Y at being extremely versatile depending upon our customer's needs and requirements. We are able to utilize any of our three Zeiss CMM machines for small components used in the medical industry to large assemblies used in the automotive industry. We have (2) CMM's with 28" X 40" tables and one machine with a 40" X 96" capabilities. Our experienced team of Quality Technicians have the capability of programming for any of your needs in order to reduce total inspection time. For those especially difficult forms or small parts where conventional CMM inspection is extremely difficult, X-Y also utilizes an Optical Comparator for inspection. This machine is a Starrett HCS800 with a 32" screen complete with CNC capabilities.

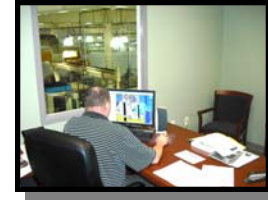
Custom Collets, Chucks and Work Holding

Whether it be a single Taper Collet or complete Chuck, X-Y has the engineering and machining capabilities to create high quality work holding solutions as well as replacement parts for existing fixtures. X-Y designs and builds custom Collets, Chucks, Tombstones and Fixtures to hold virtually any manufactured product. Our Products are used in automotive, agricultural, and aeronautics. We supply General Motors, Ford, Caterpillar, Daimler Chrysler among many others. We have designed Work holding solutions to hold such products as valves, pistons, oil pump housings, oil pump covers, torque converters, cam shafts, brake drums, brake rotors, Electric motors, and many more.

Whether you are an automotive manufacturer or small metalworking firm, send us your drawings and/or part to let our engineers provide solid solutions for your work holding needs.

Already have a Chuck, Tombstone or Fixture that is damaged or in need of repair? We also build replacements for your existing machines! **Don't waste time trying to fix a broken Chuck ,Tombstone or Fixture let us provide you with a new, fully functioning Work Holding Solution today!**



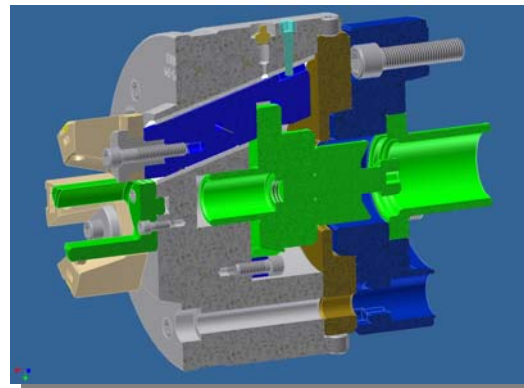
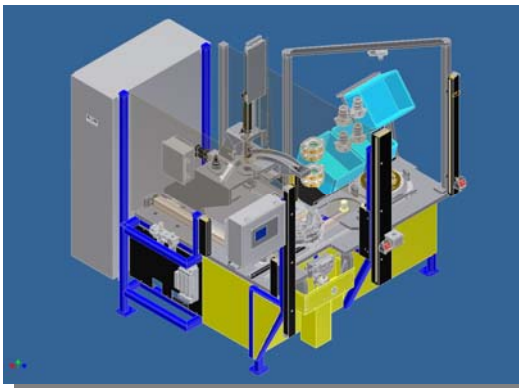


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Precision CNC Machining And Grinding



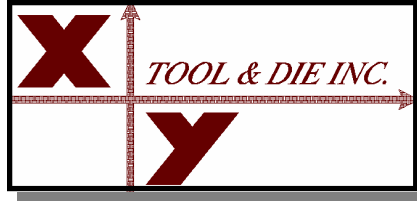
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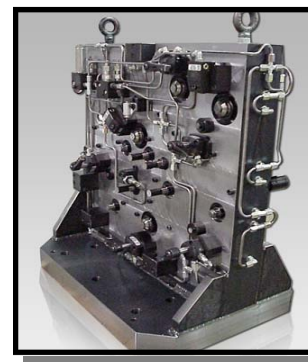
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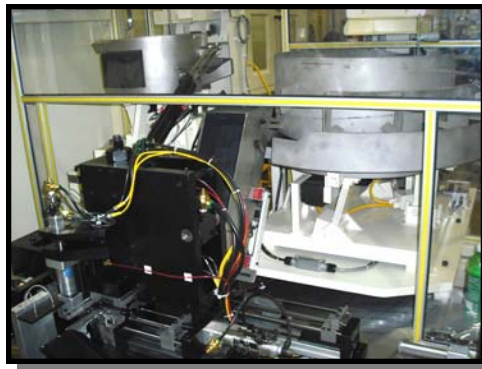
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Custom Machine Design and Build



With our in house Mechanical and Controls Engineering staff we have the experience and ability to design and build your production machinery. Our experience gives our customers total solutions for production or their automation needs. Big or small, simple or complex, we want to help you meet your needs.

Have a machine that is damaged or in need of repair? Don't waste time trying to fix a broken machine, let us re-build or re-furbish your old machinery today!



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Aluminum Foil Container Dies



As an aluminum foil container die manufacturer, not only are our capabilities such that we produce individual class "A" dies to fabricate foil containers, but also entire turnkey systems for the manufacture of foil container programs.

X-Y can not only design dies but it also develops and builds them, as well as the peripheral equipment that is necessary for high-speed aluminum container production. Components such as stackers, uncoilers, air consoles, and any other equipment associated with the manufacture of foil containers are within the base of knowledge contained at X-Y.

All dies are made of top grade tool steel, with hardened punches, hardened formers, hardened draw rings, built-in pistons, and built-in cushions or commercial cushions for air operation. The shear rings or lower cutting edge are also made of a prehard steel or material drawn to a lower rockwell so the shear ring can be peened to maintain a good cutting edge. X-Y can also make blank layouts to provide approximate material widths for a container, also calculate scrap percentage, and approximate running speeds. X-Y can also recommend material gage and hardness.

Experienced In:

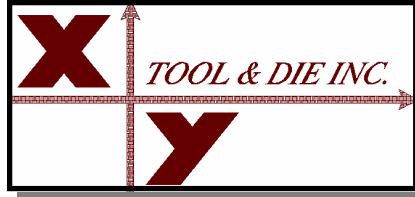
- **Containers**
- **Lids**
- **Heat Shields**
- **Custom**



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Thermoforming and Injection Molding



The markets served by this tooling are mainly in the food industry. Applications include OPS for clear plastic deli containers and clamshells, CPET applications for ovenable foods usually used by packer processors, and finally foam for meat trays, clamshells, and other thermoformed packaged goods. In addition to these materials, X-Y has extensive design expertise with polypropylene containers of all kind.

Once we have an outline of what equipment a particular product will be ran on as well as design parameters or specifications as required by the customer, X-Y can totally design the thermoforming mold and trim tool. Beginning with the customer product design, X-Y does cavity layouts and the corresponding mold design, as well as the trim tool designed to run in conjunction with the mold. Once design is released to the shop floor, an experienced project manager works with an equally adept journeyman tool and die maker who will lead other craftsmen in the fabrication of the mold and trim tool.



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