

Our precision machining capabilities are second to none in the marketplace. We employ a complete complement of turning centers, vertical and horizontal mills, wire EDM, grinders and more. The machining cells are fully supported by the necessary secondary equipment such as saws, drills and mills. Additionally, our new 30,000 sq. ft., air conditioned machine shop is serviced by dual overhead cranes as well as numerous dedicated jib cranes. Our facility was designed from the ground up to be efficient and cost effective.

The Indianapolis CNC Department, although smaller than Houston, still offers the same array of services and is equipped to the same high standards. This facility has given many of our customers the comfort of knowing there is a back-up plan in place for any unforeseen emergency or spike in production requirements.

FULL SERVICE CAPABILITIES

G&H is a complete contract manufacturer which gives our customers a machining supplier that understands the role we play toward cost reduction. We do not machine for the sake of doing so, but rather examine the end product and make in-depth decisions as to whether other less expensive processes can achieve the desired result. In many cases weldments have been substituted for machined components at greatly reduced cost. Laser cutting of tubular and flat materials very nearly match machining tolerances at a fraction of the cost. In summary,

we help our customers reach their goals in the most cost effective way possible and we do this through a deep understanding of manufacturing processes.

ENGINEERING SUPPORT

G&H boasts the most up-to-date solid modeling and machining program software available to the market today. Our degreed engineers model virtually every part that goes into the shop, whether or not we receive models from the customer. Rarely do we machine componentry from two dimensional drawings. Our Solidworks software is 100% compatible with the Mastercam CAD/CAM suite of machine programming. This methodology virtually eliminates programming errors and incorrect drawing interpretations. It is a very clear example of "what you see - is what you get." Our Engineering Software includes Solidworks and Mastercam CAD/CAM System.

CNC MILLS & LATHES, HIGH-SPEED, LIVE TOOLING AND FOURTH AXIS CAPABILITIES

Our premier operation allows us to CNC machine in four axes. A majority of our CNC lathes are equipped with live tooling and some with an additional C axis for the live tooling. Our CNC lathes can turn parts up to 25 inches in diameter. Our CNC mills are capable of machining parts as large as 64" x 26" x 26". All of our CNC vertical mills are equipped with fourth axis capabilities and many are capable of high-speed machining and surfacing. Our mill capacity is broadened by our three horizontal mills capable of milling parts 20" x 20" x 20". Each horizontal has full fourth axis capabilities and dual pallet changers. We routinely machine and inspect geometric and positional tolerances as tight as +/-0.0002" depending on the size/application.

Our CNC machining centers are supported by inspection equipment including a large stock of tooling and gaging as well as Coordinate Measuring Machines (CMM) and comparators in our inspection labs.



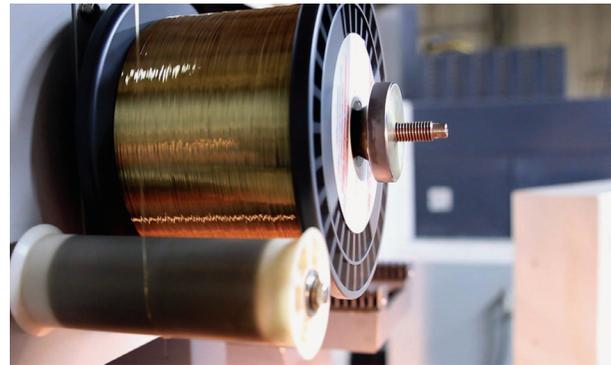
G&H provides complete CNC machining services including milling, drilling, tapping, reaming, boring, turning, facing, grooving and more. Our custom live tooling capacity adds the ability to perform mill type operations without the need for additional setups and handling. In this way we improve quality while reducing cost. These types of advanced CNC machines save time, reduce handling and improve repeatability for precision parts that need complex machining on multiple sides.

CUSTOM MACHINERY ADDS FLEXIBILITY

No problem is too complex for our highly-trained team of engineers. They frequently design and build custom machinery in order to meet the specific needs of our customers. If we can design a way to make it better, we will. This ability to utilize custom machinery allows us to tighten industry standard specifications as well as enhance efficiencies in our machine shop.

MATERIALS FROM STANDARD TO EXOTIC

G&H can work with virtually all metal materials including carbon steel, stainless steel, brass, copper, nickel, titanium, tungsten, Inconel and other high temp alloys. We are also experienced working with plastics including Delrin, Peek, Teflon, Lexan, Acrylic, G-10 and Phenolics. In addition, we can work with all shapes of stock including flat bar, angle, channel, sheet metal and tubing.



CNC WIRE EDM EQUALS HIGH QUALITY AND REDUCED COSTS

Many parts can be more economically produced with CNC Wire EDM machines instead of conventional machining. In fact, without Wire EDM, many unique machining processes could not be done. In addition, G&H's CNC Wire EDM machines are controlled by computers which can ensure part accuracies up to ± 0.0001 ". And, this accuracy is completely repeatable – the last part is identical to the first part.

Our machines can handle a wide variety of sizes and we can cut tapers to any degree with accuracies to $\pm .0001$ " and surface finishes to 8 RMS. The extremely fine finish can eliminate the need for additional finishing processes such as grinding or polishing. All of G&H's CNC Wire EDM machines have 4 axis capabilities. We can cut any electrically conductive material no matter how hard or soft, including carbide, Inconel, tool steels, ferro-tic, hastalloy, stellite and titanium. Our turnaround time on Wire EDM manufacturing projects is one of the quickest in the industry.

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DIVERSIFIED MANUFACTURING