

Hoffman Design Works, Inc.

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HDW delivers:

concept • engineering • design • technical drawing • fabrication • installation • satisfaction

military hardware • machinery • custom tools • automated machinery

fixtures • integrated controls • structural components • other unique mechanical devices



custom design

HDW specializes in custom design and solutions for simple or complex projects in a wide variety of end-user applications. We work with clients to understand their strategic needs and help conceptualize, design, fabricate and implement desired results. Processes include the use of 3D design, simulation, FEA analysis and other advanced engineering concepts. Our custom design services cover a broad range of systems, machines, tools and fixtures for military, commercial and educational applications.



engineering

Our engineering expertise spans both mechanical and electro-mechanical designs over a broad range of applications. We offer real-world solutions for the toughest technical challenges. HDW provides technical excellence in comprehensive design, analysis and testing services as well as project management. Throughout our history, HDW has invested in the best people, equipment, and facilities to deliver continuous improvement in knowledge, processes and application of our engineering designs.



Fabrication

HDW is your full service partner for all your fabrication needs. We specialize in custom fabrication processes for your next project. Our shop is uniquely positioned with a wide variety of experience and machinery to turn your designs into reality. In-house expertise includes but is not limited to certified MIG and TIG welding, basic and advanced machining, machine assembly and other trade specialties such as electronic control systems, wood-working, composites and fabrics.



waterjet

Our 6' X 20' abrasive waterjet offers the unparalleled ability to make precision cuts in a wide variety of materials up to 8" thick with typical tolerances of $\pm 0.005"$. It is a cold cutting process resulting in no heat affected zones and no distortions in the materials being cut. Our CNC-controlled nozzle tilt mechanism ensures a perfectly square edge with little or no draft angle and accurate tolerances.



cnc machining

HDW provides solutions for the most complex prototyping, custom fabrication or production jobs. We use high-tech computer-controlled equipment and cutting edge CAD/CAM software. Machining is possible on a wide variety of metals and plastics and can be machined directly from 3D CAD models. A state-of-the-art inspection process guarantees parts will meet exacting tolerances. In addition to production jobs, HDW offers functional prototyping as well as custom "one-off" projects.



cnc press brake

Our CNC press brake provides the unique capability to shape parts, eliminate unnecessary welds and ensures part consistency. It has the ability to reduce the number of individual pieces in a finished part providing customers with long-term cost savings and greater flexibility. The machine features a 176-ton, 12-foot capacity with an advanced CNC-controller that guarantees fast, accurate and repeatable results. We can carry out a variety of custom forming operations such as bends, hems, curling and large radius bucking.

Learn more at:

hoffmandesignworks.com