



Advex Corporation, located in Hampton, Virginia, is one of the premier metal fabrication companies on the East Coast. Advex Corporation is a small business founded in Virginia in 1969. For nearly 50 years, Advex has grown to an organization that provides precision machining, fabricating, non-destructive testing and marine and industrial services to the defense industry & commercial customers.

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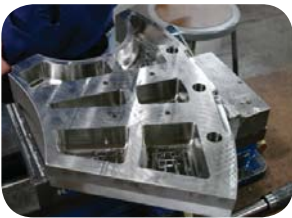
**[www.ADVEX.net](http://www.ADVEX.net)**

# MACHINING



Advex Corporation's highly skilled personnel possess the capability to perform various types of machining operations for our customer's requirements. This is proven by numerous successful projects that involve precise machining operations to include milling, turning and wire EDM operations. Our machining is augmented with a CNC programming staff that utilizes CAD-CAM software to enable us to perform complex multi-axis machining. This is complemented by our quality inspection system that utilizes the latest software and metrology to conduct detailed inspections for dimensional conformance. We feature the ability to perform large multi-axis milling on components up to 40' in length and 15' in height, weighing as much as 60 tons.

Advex Corporation has installed its newest machine - a large capacity milling machine. The FTR 5000 is a horizontal boring mill which machines parts in excess of 40 feet x 15 feet with a weight capacity up to 60 tons. The FTR 5000 optimizes production of the most demanding applications - capacity to handle large or heavy parts; accuracy to meet exacting tolerances; power for heavy cuts and hard materials, versatility for parts with complex geometrics; and speed for a fast-paced manufacturing environment. Typical applications include shipbuilding, power generation, research and development for aerospace, and the offshore oil and gas industry.



- High pressure coolant system 1000 psi thru spindle
- Hydraulically-actuated tension rod system to counteract angular errors
- Thermal compensation of spindle
- 60 position tool change, 50kg (110 lbs.) max tool weight
- Latch plate interface for attachments
- Siemens 840D solution line CNC

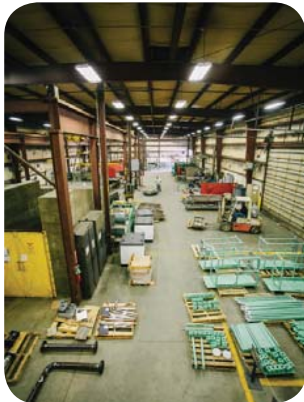
# FABRICATION



The Heavy Fabrication Department supports metal fabrication projects in material thicknesses of  $\frac{1}{4}$ " and greater and individual component weights in excess of 20 tons. This is accomplished in a variety of material types and to various industry fabrication standards. Our personnel possess the core skills to accomplish both routine fabrication as well as complex weldments requiring post-machining and critical non-destructive examination.



The Light Fabrication Department supports metal fabrication projects in material thicknesses of  $\frac{3}{8}$ " and thinner. This is accomplished in a variety of material types and to various industry fabrication standards. This department also supports fabrication and welding for close tolerance components and assemblies that require final machining. One of the specialties of this department is the fabrication and welding of shipboard ventilation.



## NON-DESTRUCTIVE TESTING



The Advex Non-Destructive Testing Department employs certified technicians with over 30 years NDT experience. Our highly-experienced and qualified personnel operate state-of-the-art NDT equipment and technologies such as Phased-Array (PAUT) and Computerized Radiography (CRT). Advex performs traditional and advanced NDE examinations in the field or in-house for most industries; including shipbuilding, construction, petrochemical, oil/gas, power, aviation, and aerospace



## MARINE & INDUSTRIAL



The Marine & Industrial group at Advex Corporation has worked with several Department of Defense organizations, such as the US Navy, Naval Undersea Warfare Center, Naval Surface Warfare Center, and Office of Naval Research, and the US Army. We have also completed several projects for other Government entities such as NASA, NOAA and the US Coast Guard. Our Marine and Industrial group has also accomplished many projects for private shipyards and alteration and installation (AIT) companies for shipboard installations and repair type projects for Antenna/Radar Platforms, Ventilation Installs, Habitability Modifications, Structural Repairs/Modifications, Piping Installations, and Mechanical Equipment Installation and Repair.

