



# CUSTOM FABRICATION

**Fast Turnaround Repairs  
and Maintenance**

[www.edmontonexchanger.com](http://www.edmontonexchanger.com)



**edmonton exchanger**  
group of companies



## CUSTOM FABRICATION / REPAIR OVERVIEW

Edmonton Exchanger has extensive experience in the custom fabrication and repair of pressure related components. These include replacement vessels and exchangers on a "low quantity" and urgent basis, often to support our extensive Field Services division.

In support of our clients, we can provide extremely fast fabrication and repair of large and small pressure related components such as pressure vessels, heat exchangers, and other items on an "as needed" basis in order to get a plant process back up and running. We often receive requests to repair items such as heads and shell sections up to 20' diameter, as well as nozzle and internals replacement.

Many times these requests include material upgrades to deal with specific process requirements and prevent accelerated corrosion. We have extensive experience with different grades of stainless steel and alloys.



### STEEL PLATE INVENTORY

Edmonton Exchanger has one of the largest inventories of SA-516 70N carbon steel plate in North America, with approximately 30,000 tons on site ranging from .375" to 12" thick.

We also stock 304 and 316 stainless steel plate ranging from .1875" to 2.5" thick, and chrome moly grades 11-2, 22-2 and 5-2 in thicknesses from .25" to 2". In addition, we stock a variety of other material grades that are not listed here.

### WELD PROCEDURES

We have approximately 1,000 ABSA approved weld procedures that cover a wide variety of material grades and thicknesses beyond the materials listed above.

### HEAT EXCHANGERS

We offer bundles and parts, often incorporating design changes such as conversions from carbon steel to stainless steel. We also consider complete replacement exchangers that require re-design to the latest ASME Codes, consideration of latest client specifications and sometimes fatigue or loading analysis.

We possess in-house custom design software for mechanical design, as well as sub-contracted thermal design capabilities.

### MECHANICAL DESIGN

Our mechanical design capabilities include ASME Div. 1 and Div. 2 calculations, as well as Finite Element Analysis. We provide as-built drawings with all our fabricated products in 2D AutoCAD format and 3D SolidWorks models, drawings and renderings when requested by our clients.