

CORPORATE RESUME 2023

Edmonton Exchanger
5545 89 Street NW
Edmonton, Alberta
Canada T6E 5W9
www.edmontonexchanger.com



1.0 CORPORATE OVERVIEW

Edmonton Exchanger is a multidivisional company featuring a wide range of products and services for applications in industries that include oil and gas, petrochemical and power generation.

Edmonton Exchanger's divisions are comprised of Manufacturing (Pressure Vessel Components), Field Services, Heat Exchanger Services, Custom Fabrication, Pipe Fabrication and Large-scale Machining. Our divisions fully support one another and work together to provide a full range of products and services to our customers.

We are over 1,000 employees strong, and endeavor to achieve the highest levels of quality and productivity by focusing on strong health and safety practices, each and every day.

1.1 COMPANY OWNERSHIP AND EXECUTIVE LEADERSHIP



Tim Gusse, President (left), Larry Gusse, CEO (right).

Edmonton Exchanger is a multi-generational family owned business that was founded by Henry Gusse in 1975. Henry led and grew the company for several decades. Larry Gusse became president in 2001, and led the company to further growth. June 1st, 2021 marked the formal transition of Tim Gusse as the next president of Edmonton Exchanger and Larry Gusse as the Chief Executive Officer.

Ownership of Edmonton Exchanger includes Larry and Adelle Gusse, Tim Gusse and Natalie Ruhl. As an ownership family, the Gusse's embrace the future. They are committed to serve our customers and the pressure equipment industry by supporting and leading the Edmonton Exchanger family.



1.0 CORPORATE OVERVIEW

1.2 COMPANY VALUES

Excellence: Consistently offer skillfulness, reliability, quality workmanship and on-time deliveries to our customers.

Integrity: Maintain a good reputation in our relations with others by being honest and authentic.

Communication: Be accessible, accountable, approachable and humble in our interaction with others.

Teamwork: Work together safely to achieve a common goal.

Efficiency: Be focused, organized and productive in everything we do.

Family: Respect the strength of legacy, tradition, loyalty, community, individual faith and life balance to support future generations.

Sustainability: Be persistent, creative and adaptable to achieve financial security as a company in the future.



2.0 FIELD SERVICES

Edmonton Exchanger provides on-site plant maintenance services for the petrochemical industry, refineries and fertilizer plants. Our services range from specialized field machining and controlled bolting to complete turn-key plant, and refinery shutdown projects.

In the case of emergency maintenance requirements, we are capable of mobilizing a 1,500 person work force within a very short period of time.

2.1 MISSION STATEMENT

We strive to provide our field services division's clientele with the highest levels of quality on-site service achievable. We are committed to completing our projects on time and within budget while maintaining the highest levels of employee and client safety at all times. Edmonton Exchanger aims to offer our clients a full range of plant maintenance services and to be their preferred service provider.



2.2 DIVISION PROFILE

(2.2.1) MANPOWER

Field Labour: 30-2,000

Permanent Shop Labor (Total in all Divisions): 155-165

Administration: 50

Quality Assurance / Quality Control: 7

Engineering and Estimating: 12

Depending on union availability, Edmonton Exchanger can mobilize a field work force in excess of 400 persons on 48 hours notice.

(2.2.2) UNION AFFILIATIONS

Edmonton Exchanger is affiliated with, and has an excellent working relationship with all major trade unions.

(2.2.3) ACTIMS MEMBER

Edmonton Exchanger is affiliated with and is a participating member of ACTIMS (Alberta Council of Turnaround Industry Maintenance Stakeholders).



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2.0 FIELD SERVICES

(2.2.4) STANDARDS AND PROCEDURES

Edmonton Exchanger's Quality Control Manual outlines the Quality Control program and procedures used to assure compliance to the applicable ASME Code or Jurisdictional requirements for the certification process which includes:

- ASME Certification (U, U2, S, PP)
- National Board (NB, R)
- Alberta Safety Codes Act and Regulations-Certificate of Authorization Permit (ABSA – Shop/Field)
- Technical Safety Authority of Saskatchewan-Certificate of Registration and Contractor's Licence (TSASK – Field Only)
 - Construct, Repair, Alter: ASME Section VIII-1&-2 Pressure Vessels
 - Construct, Repair, Alter: ASME Section I Power Boilers & ASME Section IV Heating Boilers
 - Construct, Repair, Alter: API 530, ASME Section I & ASME B31.3 Direct Fired Heaters
 - Construct, Repair, Alter: ASME B31.3 Indirect Fired Heaters
 - Construct, Repair, Alter: ASME B31.1 Boiler External Piping, B31.1 Power Piping, B31.3 Process Piping,
 - Construct, Repair, Alter: ASME B31.9 Building Services Piping (Alberta only)
 - Construct, Repair, Alter: CSA Z662 Steam Pipelines (Alberta only)
 - Construct, Repair, Alter: Category A,B,C,D,E,H Fittings
 - PQ Testing of Welder: Machine Welding Operators & Pressure Welders
- CSA W 47.1 Division 2

(2.2.5) HEALTH AND SAFETY MANAGEMENT

Edmonton Exchanger's comprehensive health and safety program has been recognized by the Partnerships In Injury Reduction and Certificate of Recognition programs since 2004.

Our health and safety programs and on-going safety performance have been reviewed and verified on compliance databases. We have recently started utilizing cloud-based safety management software, which enables us to replace traditional paper forms with electronic forms. Access is gained by using tablets located throughout the worksite.

Edmonton Exchanger was recently awarded the "Tripartite Zero Injury Turnaround Award" for safety achievements at Syncrude Canada, as well as the "365 Daily Maintenance Award" for injury free craft hours at the Shell Canada, Scotford Complex.

(2.2.6) BASIC FIELD EQUIPMENT

- Bundle Pulling Equipment (Designed, manufactured, and patented by Edmonton Exchanger)
- Controlled Bolting Equipment (Bolt Scope / UT Machine)
- Cranes, Hoists
- Field Machining, Inspection, Welding and Tube Equipment
- Mobile Fully Stocked Tool Trailers
- Furnace Tube Puller



2.0 FIELD SERVICES

(2.2.7) KEY PERSONNEL

Edmonton Exchanger's Field Services leadership team provides stability and many years of industry experience to each of our projects.

Name	Position	Years with Firm	Name	Position	Years with Firm
Larry Gusse	CEO	40	Derek Armbruster	Site Manager	24
Tim Gusse	President	14	Kelvin Enright	Site Manager	33
Glenn Tardif	V.P. Field Operations	33	Brad Peters	Site Manager	15
Victor Green	Field Operations Manager	32	Scott Howard	Site Manager	20
Michael Spring	HSE Manager	24	Brad Lake	Site Manager	13
Glen Weiss, P.Eng.	Engineering Manager	32	Willis Whelan	Site Manager	23
Darcy Raun, CPA, CMA, CIM	Chief Financial Officer	32	Randy Fenez	Site Manager	37
Kevin Semenjuk, CPA, CA	Controller	18			
Leon Perry	QC Manager	29			



2.3 FIELD SERVICES AND CAPABILITIES

- General Shutdown Services
- Piping Repairs
- Furnace / Boiler Repair and Erection
- Pipe Fabrication
- Tank Repair and Erection
- Controlled Bolting
- Tray Installation - Towers and Vessels
- Flange Facing
- Vessel Erection / Heavy Lifts / General Rigging
- Cold Cutting
- Heat Exchanger Bundle Pulling and Pushing
- Field Machining
- Furnace Tube Pulling

2.4 TECHNICAL SERVICES

- Project Management
- Estimating
- Safety Management
- Procurement
- Subcontract Coordination
- Quality Control
- Engineering Support
- Field Machining Services
- Field Bolt Control Services



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2.0 FIELD SERVICES

2.5 CORPORATE SAFETY POLICY

(2.5.1) V.P. FIELD OPERATION'S MESSAGE ON SAFETY

Edmonton Exchanger believes that every employee and subcontractor has the right to a safe and healthy work environment. We are committed to providing and maintaining a safe, healthy and productive work environment and achieve this through comprehensive health and safety programs, continual learning and improvement strategies.

Our goal is and will always be to achieve and maintain an incident rate of zero.

In fulfilling our commitment and achieving our goal, all management, supervisors, employees and subcontractors have the responsibility to adhere to, and comply with all applicable legislation, policies, procedures and safe work practices. This includes ensuring appropriate training and the competency of our workforce, and identifying and eliminating all foreseeable hazards which may result in personal injury or illness, property damage or accidental loss. Every effort will be made to care for the physical assets of Edmonton Exchanger, our clients and subcontractors.

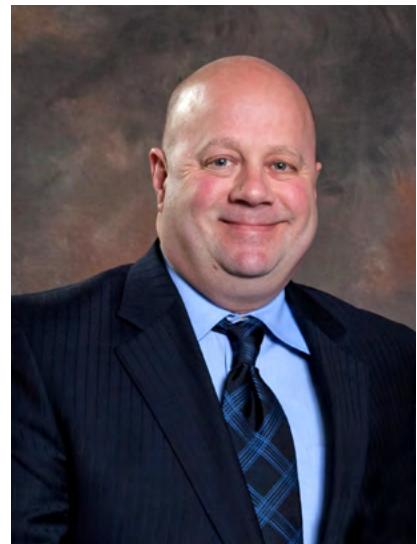
Edmonton Exchanger management, supervisors, employees and subcontractors shall take reasonable care to protect and maintain the health and safety of themselves, fellow workers and others that may be present including the general public from injury, harm or loss including psychological, physical and social wellbeing.

Edmonton Exchanger recognizes that accountability is paramount to our continued success and will demonstrate this through visible commitment to safety, quality and productivity. We trust that you will join us in promoting a safety culture where all Edmonton Exchanger employees and subcontractors are committed to health, safety and wellbeing as a way of life.

SAFETY... DO IT FOR LIFE!

Sincerely,

Glenn Tardif, V.P. Field Operations
Edmonton Exchanger



3.0 HEAT EXCHANGER SERVICES

Specializing in heat exchanger fabrication and repair, Edmonton Exchanger's Heat Exchanger Services facility stocks a diverse inventory of materials and heat exchanger equipment that allows us to quickly adapt to your project's specialized requirements and specifications.

This facility fully supports our field operations for all heat exchanger services required, and upon customer request, will schedule shop time in preparation for field projects in order to ensure an expedited turnaround time for field maintenance work.



3.1 HEAT EXCHANGER SERVICES: MANUFACTURE, REPAIR, REFURBISHMENT

Whatever shape or size your heat exchanger may be, we're the ones for the job. Edmonton Exchanger can supply heat exchanger components in addition to supporting clients with their bundle fabrication. We manufacture, repair and refurbish any size and type of heat exchangers including:

- Shell and Tube Bundles
- Straight-tubed Heat Exchangers
- U-bundle Heat Exchangers

3.2 DIVISION PROFILE

(3.2.1) MANPOWER

Permanent Shop Labour: 25-30 (Allocated to Heat Exchanger Services Division)

(3.2.2) KEY PERSONNEL

Name	Position	Years with Firm
Irvin Godina	Heat Exchanger Division General Manager	32
Peter Taschuk	Estimator/Project Coordinator/Purchaser – Heat Exchangers	25
Chris House	Dayshift Shop Foreman	15
Sarath Ou	Night Shift Shop Foreman	25
Michael Godina	OGTAW Welding Supervisor	15
Mijo Renic	CNC Operator Lead Hand	9
Randy McGlennon	CNC Mechanic / Shop Maintenance	11
Paul Burrough	Heat Exchanger Division - Lead QC Inspector	16

3.3 QUALITY CONTROL INSPECTION PRIOR TO SHIPMENT

Provide the highest level of Quality Control processes, methods and resources during construction that will ensure compliance with the applicable Code of Construction, as well as Jurisdictional requirements and Client specifications.

3.0 HEAT EXCHANGER SERVICES

3.4 SPECIALIZED EQUIPMENT AND CAPABILITIES

Whatever the size or type of heat exchanger you need fabricated or repaired, Edmonton Exchanger features leading-edge heat exchanger equipment that enables us to adapt to your specialized specifications.



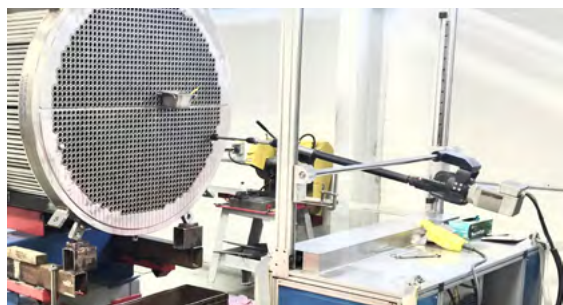
CNC DRILLED COMPONENTS (See Section 8.3)

We offer the following array of drilled components: tube-sheets, baffles, flanges and other miscellaneous items.



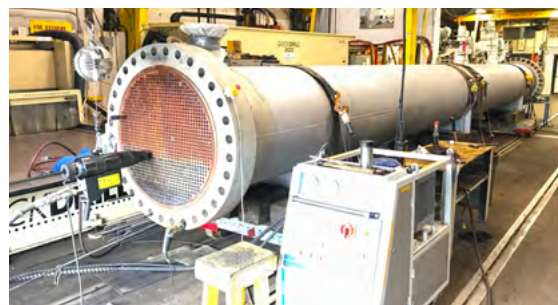
ORBITAL WELDING TECHNOLOGY

We utilize proprietary orbital welding technology in the fabrication of heat exchanger tube bundles.



MATEX ROLLING TECHNOLOGY

Computer controlled variable speed tube rolling with a Siemens drive reducing ligament fatigue during rolling.



RUN-PULL TECHNOLOGY

Maus run-pull technology allows for each tube to be automatically removed with a replacement installed immediately thereafter.



HIGH PRESSURE HYDRAULIC TUBE EXPANSION

Computer controlled technology enabling tubes to be fixed or molded to tubesheets using high pressure.



TUBE BUNDLE SAW TECHNOLOGY

Precise tube bundle cutting enables tubesheets to easily be removed from baffle cage with no burrs.



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4.0 PIPE SPOOL FABRICATION

Edmonton Exchanger's pipe fabrication facility is located at our main plant location, and constructs mechanical piping systems to ASME and client specifications.



4.1 PIPE SPOOL FABRICATION CAPABILITIES

Because we hold over 1,000 weld procedures, we have welded most materials required in Alberta. We can accommodate a wide variety of materials ranging from carbon steel, stainless steel, low alloys and high alloy materials.

Fabrication certifications:

- Construct, Repair / Alter ASME B31.1 Power Piping and ASME B31.3 Process Piping in the field and shop
- ABSA Construct, Repair / Alter ASME B31.1 Boiler External Piping in the field and shop
- ABSA Manufacture, Repair / Alter Category 'A', 'B', 'C', 'D', 'E' & 'H' Fittings in accordance with CSA B51 in the field and shop
- Canadian Welding Bureau (CWB) certified to CSA Standard W47.1 for structural welding in Division 2
- ABSA Welder Testing

Once the project has been welded, our quality control staff who are CWB and CGSB qualified, perform LPI, MPI, Ferrite testing, hardness testing, PMI and UT.

Edmonton Exchanger field crews can field measure and verify drawings before fabrication to minimize field work. We can also provide the field support to install the piping system, start the system with operations and then provide continuing maintenance on those systems.

4.2 DIVISION PROFILE

(4.2.1) MANPOWER

Permanent Shop Labour: 15-30 (Allocated to Pipe Fabrication Division)

(4.2.2) KEY PERSONNEL

Name	Position	Years with Firm
Steven Bohaychuk	Piping Fabrication Estimator / Project Coordinator	2
Colin Molloy	Piping Fabrication Estimator / Project Coordinator	1
Tony Hallonquist	Pipe Shop Superintendent	13
Katherine Langevin	Pipe Fabrication Shop Quality Control	6
Devin Pearce	Pipe Fabrication Shop Quality Control	7
Wes Lakusta	Pipe Fabrication Shop Foreman	11
Tyler Rose	Pipe Fabrication Shop Foreman	7
Darrel Tranberg	Pipe Fabrication Shop Purchasing	13

5.0 CUSTOM FABRICATION & REPAIR

Edmonton Exchanger's Custom Fabrication and Repair facilities are located at our main plant location.



5.1 CUSTOM FABRICATION & REPAIR CAPABILITIES

We offer extensive experience in the custom fabrication and repair of pressure related components. These include replacement vessels and exchangers on a "low volume" and urgent basis, often in support of our field operations.

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

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.

5.2 DIVISION PROFILE

(5.2.1) MANPOWER

Permanent Shop Labour: 6-10 (Allocated to Custom Fabrication & Repair Division. Additional personnel are added from other divisions as required for larger projects.)

(5.2.2) KEY PERSONNEL

Name	Position	Years with Firm
Neil Ruhl	Manager, Fabrication Estimating	13
Glen Weiss, P.Eng.	Engineering Manager	32

6.0 PRESSURE VESSEL COMPONENTS

6.1 MISSION STATEMENT

Edmonton Exchanger's mission is to consistently meet and exceed the expectations of our pressure vessel component division's customers by providing top quality custom fabricated steel products in a safe and timely manner. We endeavor to continually increase our production capacities and capabilities through innovative use of leading edge engineering and production technologies.



6.2 DIVISION PROFILE

(6.2.1) MANPOWER

Permanent Shop Labour: 108 - 112 (Allocated to Pressure Vessel Components Division)

(6.2.2) KEY PERSONNEL

Name	Position	Years with Firm
Larry Gusse	CEO	40
Tim Gusse	President	14
Terry Rozak	V.P. Manufacturing	27
Michael Bussiere	Sales Manager	25
Ernest Reimer	Steel Plate Manager	33
Kevin Penner	Maintenance Manager	41
Ivan Gellert	Shop Superintendent	41
Barry Inglis	General Shop Foreman	29
Tracy Enman	Pressure Vessel Components – Lead QC Inspector	31

6.3 OVERVIEW OF SERVICES

Head Forming

- Hemispherical
- Torispherical Flanged and Dished
- 2:1 Semi-Elliptical
- Flanged Only
- Dished Only

Steel Plate Rolling

- Shells for Pressure Vessels and Tanks
- Eccentric and Concentric Cones
- Repads
- Rolled Rings for machining applications
- Custom Rolling



6.0 PRESSURE VESSEL COMPONENTS

6.4 PRESSURE VESSEL HEAD FORMING

Hot Drawn Heads

With our 1,200 ton and 3,000 ton head presses (designed and constructed by Edmonton Exchanger), we are able to hot form heads up to 192" (4,877 mm) I.D. and up to 8" (203.20 mm) thick.

- **Semi-Elliptical Heads:** from 8 5/8" (219 mm) O.D. to 192" (4,877 mm) I.D.
- **ASME Code Flanged and Dished Heads:** from 48" (1,219 mm) I.D. to 96" (2,438 mm) I.D.
- **Hemispherical Heads:** from 8 5/8" (219 mm) O.D. to 144" (3,658 mm) I.D.
- **Flanged Only Heads:** from 31" (787 mm) O.D. to 76" (1930 mm) I.D.
- **Dished Only Heads:** from 10" (254 mm) O.D. to 120" (3,048 mm) O.D.



Dished and Spun Heads

Our dishing and spinning equipment enables us to form heads up to 2½" thick and up to 28'-6" I.D.

- **Semi-Elliptical Heads:** from 96" (2,438 mm) O.D. to 288" (6,096 mm) I.D.
- **ASME Code Flanged and Dished Heads:** from 96" (2,438 mm) O.D. to 342" (8,687 mm) I.D.
- **80:10 Flanged and Dished Heads:** from 90" (2,286 mm) O.D. to 330" (8,382 mm) O.D.
- **Flanged Only Heads:** from 72" (1,829 mm) O.D. to 168" (4,267 mm) I.D.
- **Dished Only Heads:** from 120" (3,048 mm) O.D. to 360" (9,144 mm) O.D.

6.0 PRESSURE VESSEL COMPONENTS

6.5 STEEL PLATE ROLLING

Our five sets of plate rolls enable us to roll plate into shells, rolled rings, cones (both eccentric and concentric), and repads. These components can be fabricated from our own plate inventory or from customer supplied material.

Dimensional Rolling Capacities

- **Minimum Diameter:** 16" (406 mm) I.D.
- **Maximum Thickness:** cold rolled 7" (177.80 mm), hot rolled 12" (304.80 mm)
- **Maximum Length:** 144" (3,658 mm)

The variables above are guidelines only. As diameters increase and lengths decrease, thicknesses can exceed those stated.

Shells are rolled to ASME code specifications and are usually rolled to our own head strappings, however, we will roll to customer supplied strapping dimensions. Shells can be supplied square cut, or beveled with long seams tack welded, or fully welded circumferential and long seams.

Concentric cones can be rolled up to a thickness of 4" (101.60 mm) and a length of 10'-0" (3,048 mm). Diameters can be from 24" (610 mm) O.D. to 168" (4,267 mm) O.D. They are rolled in one piece with only one long seam when plate layout allows it. We can provide the cones square cut, or beveled with long seams tack welded, or fully welded circumferential and long seams. Eccentric cones can be rolled up to a thickness of 1" (25.40 mm) and a height of 48" (1,219 mm).

Components rolled from our plate inventory are accompanied with Mill Test Certificates. In the case of hot rolled items, Furnace Heat Charts can be provided upon request.

Fully welded shells and cones come complete with necessary nondestructive examination and the applicable inspection forms.

6.6 QUALITY CONTROL

Prior to shipment, all manufactured components undergo thorough Quality Control Inspection to ensure conformance to ASME codes and/or other international codes and standards or specific customer requirements.

Heads, shells, and other components are supplied with a Certificate of Compliance showing type, size, material type, order numbers, heat numbers, and minimum thicknesses (where applicable). For heads, the Certificate of Compliance also includes visual inspections done on heads (ie. roundness, form conformity, surface conditions, etc.) and certifies that the heads are made to meet the applicable standards.

All material supplied from our plate inventory is checked for proper stamping of material type. Heat numbers are checked against original Mill Test Certificates on file to ensure compliance. Mill Test Certificates are provided at time of shipment.



6.0 PRESSURE VESSEL COMPONENTS

6.7 SHIPPING FACILITIES

Rail: Rail Siding On-site

Truck: Full-scale Loading Facility

Air: Packaging available for Air Travel



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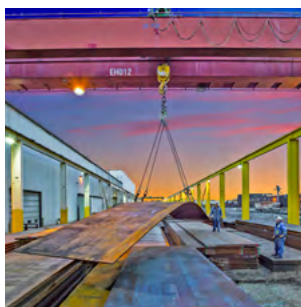
7.0 STEEL PLATE SERVICES

Inspired by the immense quantity of steel plate, Edmonton Exchanger's plate inventory is commonly referred to as Plateland. All stocked steel plate complies with ASME code requirements and is accompanied by clearly legible Mill Test Certificates at time of shipment.

7.1 CARBON STEEL PLATE

We stock one of the largest inventories of pressure vessel quality SA516-70 normalized in the world, ranging from 1/4" (6.35 mm) to 12" (304.8 mm) thick. SA 516-60, SA 537 CL1 and A572-50 (all normalized) are also available.

Our extensive inventory includes plate with strict chemical requirements. Testing to various specifications can be performed upon request.



7.1.1 CHART OF TESTS PERFORMED UPON REQUEST

Ultrasonic Tests (for cracks and laminations)	Hydrogen Induced Cracking
Magnetic Particle Examination	Sulphide Stress Cracking
Microstructure Analysis	Brinell Hardness
Chemical Product Analysis	Charpy V-Notch
Corrosion Tests	Liquid Penetration

7.2 STAINLESS STEEL PLATE

We stock stainless steel plate ranging in thickness from 1/8" (3.17 mm) to 2 1/2" (63.50 mm) in the following grades:

- SA 240-304
- SA 240-316
- SA 240-304L
- SA 240-316L

7.3 CHROMIUM MOLYBDENUM STEEL PLATE

We offer a large inventory of Chromium Molybdenum Steel plate ranging in thicknesses from 1/4" (6.35 mm) to 2" (50.80 mm) in the following grades:

- SA 387 Gr. 11 Cl.2
- SA 387 Gr. 5 Cl.2
- SA 387 Gr. 22 Cl.2

7.4 PROFILE CUTTING

- Almost any pattern or shape imaginable from plate up to 40'-0" x 16'-0" in size (12,192 mm x 4,877 mm).
- Discs and Rings for Flange production up to 12" (304.80 mm) thick.
- Plasma-cutting of stainless steel up to 3" (152.40 mm) thick.
- Oxy-fuel / plasma cutting of carbon steel up to 12" (304.80 mm) thick.
- Plasma-cutting of chromium molybdenum steel up to 6" (152.40 mm) thick.

8.0 MACHINING SERVICES

8.1 LARGE-SCALE MACHINING

Edmonton Exchanger's Large-scale Machining facility is located at our main plant and offers a wide variety of machining services. It was specially designed to handle large diameter components and features equipment that is some of the largest of its kind.

General machining equipment consists of a lathe and a drill press. Three vertical boring mills of various sizes are available, as well as a large-scale horizontal boring mill.

To support our large-scale milling equipment, a 50-ton overhead crane spans the entire length of the machining facility and thus enables transport of large components throughout the shop.



8.2 LARGE-SCALE MACHINING CAPACITIES

Vertical Boring Mills

Three machines are available for turning, facing, and boring. Our smallest boring mill handles material up to 68" diameter x 5'-0" high (1,727 mm x 1,524 mm).

A larger machine will handle material up to 13'-0" diameter x 10'-0" high (3,962 mm x 3,048 mm). Our largest vertical boring mill also has drilling and slotting capabilities. It can handle material up to 24'-0" diameter x 10'-0" high (7,315 mm x 3,048 mm), and a weight of 50 tons.

Horizontal Boring Mill

The horizontal mill has a travel of 156" vertical and 360" horizontal (3,962 mm V x 9,144 mm H). Its applications include facing, slotting, boring, drilling, and tapping.

General Machining

- Lathe: 32" x 108"
- Drill Press: 72" (1,829 mm)



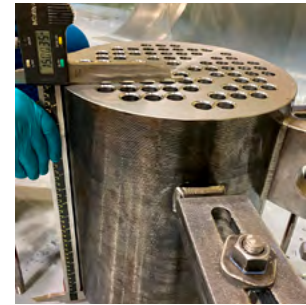
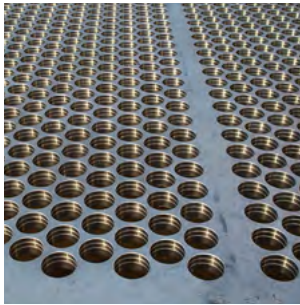
8.0 MACHINING SERVICES

8.3 CNC DRILLED COMPONENTS

Edmonton Exchanger offers the following array of drilled components: tubesheets, baffles, flanges and other miscellaneous items. These are fabricated for in-house use, and in addition they are supplied to our many other industry clients. All CNC drills are annually calibrated. Calibration certificates are available upon request.

CNC Tubesheet Drilling

Edmonton Exchanger has seven CNC machines of various sizes and capabilities available for tubesheet drilling applications.

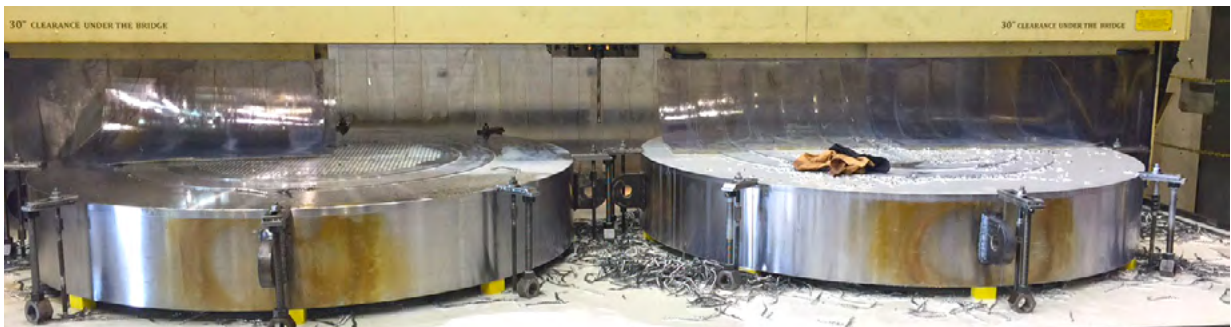


QuickDrill 200 CNC

Our QuickDrill 200 CNC features drilling, ring grooving, milling along with boring services, it will also circular interpolate off center. With a drilling footprint of 200" (5,080 mm) x 120" (3,048 mm) x 30" (762 mm), it accommodates material up to 29" (736.60 mm) in height. The QuickDrill 200 CNC has recently been upgraded. The spindle has a 29" programmable stroke in the Z-Axis (one stroke). The low range spindle speed is 0-1150 RPM and the high speed range is 1151-6000 RPM. The maximum torque is 662 Nm and the minimum torque is 166 Nm.

QuickDrill 120 CNC

Edmonton Exchanger has (2) QuickDrill 120 CNC machines available that offer a wide range of drilling, ring grooving, milling and boring services, and will also circular interpolate off center. They boast a drilling footprint of 120" (3,048 mm) x 120" (3,048 mm) x 15" (381 mm), and can accommodate material up to 141" (3,581.40 mm) x 154" (3,911.60 mm) in size. They have a maximum drilling hole depth of 11.625" (295.28 mm) deep in one cycle.



QuickDrill 96 CNC

Our QuickDrill 96 CNC machine features drilling, ring grooving, milling and boring services and will also circular interpolate off center. It offers a drilling footprint of 96" (2,438.40 mm) x 96" (2,438.40 mm) x 14.5" (368.30 mm), and a maximum drilling hole depth of 11.625" (295.28 mm) deep in one cycle.

QuickDrill 60 CNC

We also have (3) QuickDrill 60 CNC machines that feature drilling and ring grooving capabilities. They offer a drilling footprint of 60" (1,524 mm) x 60" (1,524 mm) x 14.5" (368.30 mm), and a maximum drilling hole depth of 5" (127 mm) deep in one cycle.



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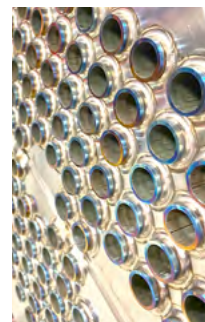
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