

Nuclear Equipment Fabrication



Worley Chemetics is a **nuclear-certified fabricator** with a modern facility in Pickering, ON, Canada, experienced in custom-made heat exchangers, pressure vessels and proprietary equipment. We are leveraging our expertise to help develop new nuclear opportunities, working with Generation Stations, SMR & AR technology companies and material vendors around the world to ready the supply chain for the **energy transition**.

KEY BENEFITS

- OEM of Nuclear Heat Exchangers since 1975.
- Nuclear Certification to CSA N285.0 and ASME Sec III, Div.1 & Div. 5
- Nuclear Compliance Program to CSA N299.1 and ASME NQA-1
- Expertise in all aspects of Heat Exchanger Design, Engineering and Fabrication
- Part of Worley for enhances Nuclear Engineering services
- Design Engineering, Metallurgy, Advanced Manufacturing Capabilities and Quality Control Inspection Services
- Stainless steel, Nickel alloy, Reactive and Noble Materials
- Certified to Upgrade Material to ASME Sec III
- Supporting SMR & Advanced Reactor technology companies design and fabrication

ABOUT US

Worley Chemetics (Chemetics®) is a fabrication subsidiary established in 1958, with a rich history of heat exchanger engineering and manufacturing.

Our team of experts is supported from our Nuclear Hub in Canada (Markham & Pickering) and other offices across the USA and Europe.

We provide a real synergistic combination of expert thermal, mechanical, welding, and material engineering, and best-in-class manufacturing capabilities to offer an extensive selection of heat exchanger products and solutions. For more than 40 years, Worley Chemetics' Pickering shop has been one of the premier choices for heat exchanger supply and fabrication in the nuclear market.



GET IN TOUCH

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Nuclear Equipment Fabrication

Worley Chemetics (Pickering shop), formerly Fromson Heat Transfer LTD, has been a trusted supplier of nuclear equipment since 1975.

What we do

Nuclear Equipment supplied:

- Primary/Secondary Spent Fuel Bay Heat Exchangers
- Bleed Condenser Tube Bundles
- Primary/Secondary Irradiated Fuel Bay Heat Exchangers
- Shutdown Cooling Heat Exchangers
- Maintenance Cooling Heat Exchangers

Materials

- Carbon Steel
- 300/400 Series Stainless Steel
- Titanium
- Duplex 2205/31803 & Super Duplex 2507
- High Alloy 600's/800's/C276
- Explosion Clad and Weld Overlay



Full Service Capabilities

- Thermal, hydraulic and vibration analysis
- Detailed Engineering and drafting
- Welding engineering with in-house metallurgist
- Start-to-finish project management
- Global procurement and strategic sourcing
- Transportation and logistics
- One of the only North American shops to offer Plasma Arc Welding (PAW)
- Complete line of NDA tools & equipment
- Replacement of OEM exchangers, new heat exchangers and pressure vessels



Shop Metrics

- Machine Shop - 17,000 sq. ft
- Two Manufacturing Bays - 27,300 sq. ft ea.
- Third Manufacturing Bay - 34,000 sq. ft

Shop Capabilities

- Shop Footprint - 125,000 sq. ft
- Lift Capacity - 200,000 lbs
- Width x Length - 24 ft x 100 ft
- Tubesheet OD - 144 in
- Welding thick - 3 in



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