

WELD FX



**WE FABRICATE FROM CARBON STEEL,
STAINLESS STEEL AND ALUMINUM**

AIR INTAKE & EXHAUST SYSTEM SERVICES

AIR INTAKE INSTALLATION

Maximize Engine Efficiency with Custom Fabrication

The seasons in the Peace Region can be extreme. But that shouldn't hinder the performance of your engines. At Weld FX, we specialize in custom welding in Grande Prairie to enhance your engine's functionality.



Superior Air Mixing

By incorporating an Air mixture/Diverter system, we make your engines adaptive to ambient conditions.



Before



After

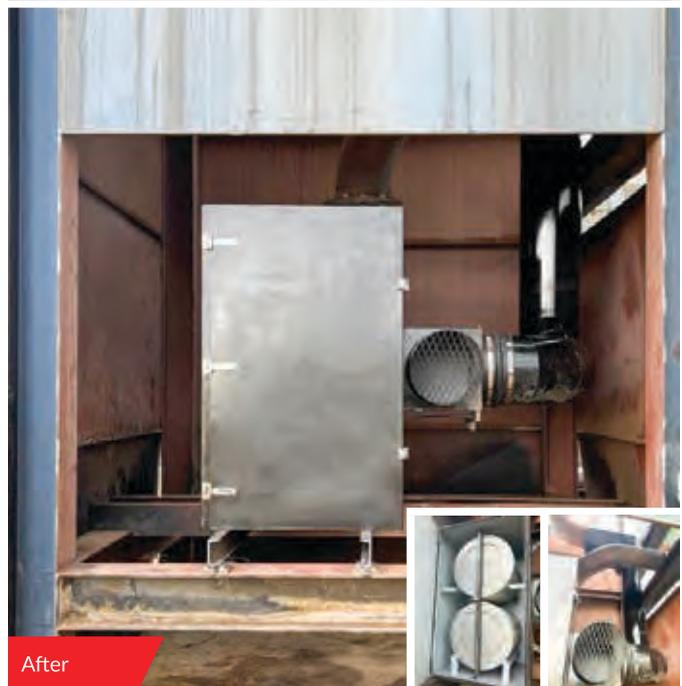


Update Your Equipment

Replace the old oil bath filter with a new dry filter intake for cleaner and drier air all the time.

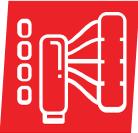


Before



After

At Weld FX, we don't just weld; we engineer performance. Elevate your operations with modern air intake and exhaust systems. Based in Grande Prairie, our expertise has made its mark throughout the Peace Region and beyond.



Warm or Cool - You Decide

We offer intake solutions for temperature control with various options.



Old undersized intake without air mixture/diverter



New larger intake piping with diverter

EXHAUST SYSTEMS

With countless projects and satisfied clients, Weld FX is your top choice for welding repair services in Grande Prairie.

- **Versatility:** Whether replacing a worn-out exhaust or doing a retrofit, we're ready for the challenge.
- **Advanced Materials For Advanced Performance:** We use light wall pipe to ensure efficient heat transfer into an insulation air-gap surrounding the piping. Lighter wall pipe also prevents overload of supports and expansion joints.
- **Stainless Steel Solutions:** For frequent burnout or when air gap insulation doesn't fit, our stainless exhausts provide strength, resilience, and durability.
- **All-Inclusive Service:** At Weld FX, we offer full exhaust systems with all parts, gaskets, and insulation for seamless service every time.
- **Emissions Updates:** We ensure compliance with environmental standards by installing catalytic converters and plumbing wastegate piping for AFR upgrades on Waukesha engines.



Old burnt out exhaust



New stainless steel exhaust

EMISSIONS

Weld FX provides innovative welding services in Grande Prairie, offering solar power skids and mounts to address energy challenges. Their solar-powered chemical pump skids are perfect for remote locations, eliminating the need for natural gas and promoting more efficient, eco-friendly operations. Whatever the need, they can develop a solution.

Industrial Intake - Install Exhaust Upgrades

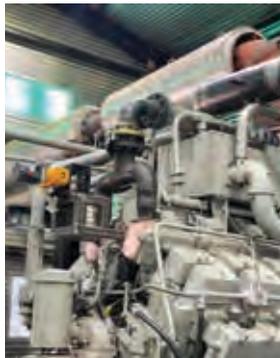
Intake and exhaust upgrades, tailored for Waukesha 7044GSI conversions and the 9390 Series 4 / 5 engines. Our team is skilled in fabricating and installing seal pot systems. Whether you're dealing with sweet or sour gas applications if you're nestled in the Peace Region or operating beyond, we're just one call away.



Muffler shortened to allow installation of catalytic converter



Catalyst access



Wastegate piping



Emissions test ports



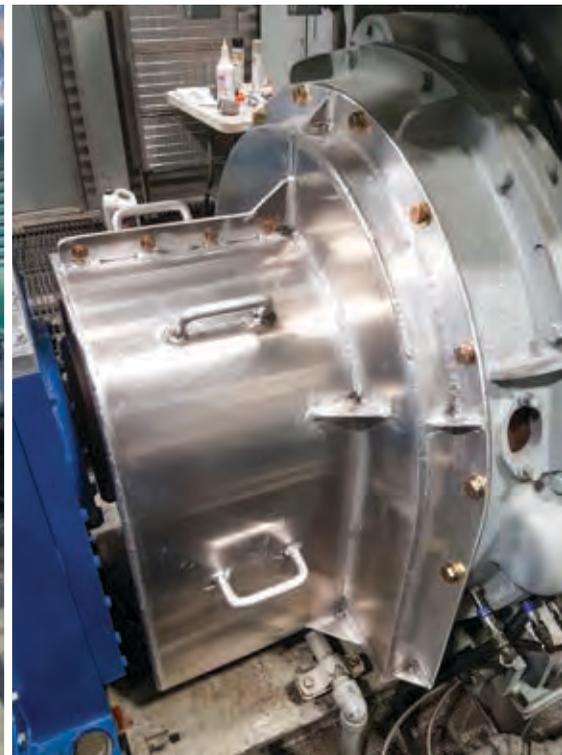
AFR cross over piping

SAFETY AND GUARDING

Safety isn't just a priority; it's our identity. At Weld FX, we understand that while achieving optimal performance of your pump jacks and compressor engine is crucial, their safety precautions and guarding mechanisms are just as pivotal. We cater to the Grande Prairie region and beyond.

Custom Welding in Grande Prairie

- **Your Safety is Our Commitment:** With our custom welding in Grande Prairie, you're not just investing in welding and fabrication. You're investing in peace of mind.
- **Equipment Guards:** Weld FX will build and install appropriate guarding for your equipment. Whether it is a guard for Pump Jacks, compressor couplers, engine belts and sheaves, fan shrouds, and more, we have you covered.
- **Easy to Remove and Service:** We build our guards to be both safety-compliant and user-friendly. We keep the user in mind when designing and building the guards so they can be easily removed and serviced.
- **Arrow C-66 And C-96 Pump Jack Engines:** We build and install a remote mount decompression and start switch for these engines. Keep your hands away from rotating equipment and flywheels by moving this switch out of the danger zone.



RETROFITTING, MODERNIZATION, AND COMPLIANCE SERVICES

Are you on the hunt to elevate machine performance, efficiency, and productivity? Look no further! At Weld FX, we specialize in transforming gas-driven engines into powerful electric drives or converting your mechanically driven fans into high-performance electric fans. Why buy new when you can upgrade your existing equipment, save money, and enjoy enhanced performance?

Retrofit Services

With our prolonged experience in custom fabrication, we've given new life to countless compressors and generators over the years. Whether it's a swap from internal combustion to electric drive, an equipment modernization, or a compressor transition, Weld FX is your go-to for all things retrofit.

Retrofit and Equipment Upgrades

- **Air-Fuel Ratio Control Systems:** At Weld FX, we build welded components for AFR system updates to reduce fuel consumption. We provide and install the necessary wastegate piping, intake crossover piping, and new panel mounts and electrical supports.
- **Free Up Extra Needed Horsepower:** We replace mechanically driven cooler fans with electric ones to boost horsepower and production. We also build adjustable motor bases, fan shaft mounts, and can install a larger walk-through door for easier access to maintenance and fan pitch adjustments.
- **Compressor Driver Changes:** We have changed many gas drivers to electric drivers where there is available power. We build the appropriate base to keep the proper centerline height and allow for shims with jacking bolts for alignment. We also build the appropriate guarding and mount panels and electrical.
- **Equipment Upgrades:** Weld FX manufactures and installs various upgrades, including harmonic dampener guard mounts for CAT 3600 engines, hinge and latch systems for Waukesha engine filter housings, auxiliary glycol rails for CAT 3400 and 3600 engines, and custom exhaust systems.



VIBRATION ANALYSIS FOLLOW UP WORK

Excess vibration, inadequate support, and clamps can lead to major issues and failures. We can build sufficient supports and clamps to fix excess vibration. With 2 decades of experience dealing with vibration issues on rotating equipment. Whether it is vibrating pipes, compressor cylinders, pulsation bottles, scrubbers, you name it we can come up with a solution.

Prevent Issues Caused by Vibration

- **Vessel Site Glass Relocation:** Mounting a site glass directly to a vessel can cause significant issues, especially if there's excess vibration. Using pipe nipples and valves can strain the assembly, potentially leading to breakage. To address this, custom heavy-duty pipe clamps are used to securely mount the site glass remotely, with a flexible hose connecting it to the vessel.
- **Upgraded Pipe Clamps:** In many cases, a standard pipe clamp securing piping inside of a compressor building isn't adequate and often leads to failure and the clamp breaking. We build and install the proper style pipe clamp to avoid these failures.
- **Compressor Supports:** In some cases, vibration can start at the compressor itself. We build proper distance piece and compressor cylinder supports to help take the strain off the compressor frame and prevent the vibration from continuing down through the suction and discharge piping. We also will build and install the proper compressor discharge bottle supports and wedge system to ensure the weight from all these components is sufficiently supported.
- **Piling Support and Shimming:** Vibration to units can start from the pilings themselves and move throughout the building. We can help better secure the pilings by bracing them together to reduce the movement. Often vibration can start from poor or inadequate shimming between the pilings and the building frame, we can shim and secure these buildings properly to reduce movement and vibration issues.





WE'RE HERE 24/7 TO SERVE YOU:

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