



CAPABILITY STATEMENT



Manufacturers of High Performance Cast Wear Parts,
helping to drive Global Mining cost reductions



COMPANY VISION STATEMENT

FSF designs and engineers quality cast wear parts and a variety of martensitic high chrome white iron products for the mining industry on a global scale. Our aim is to offer the market alternative and more reliable solutions to OEM parts and to ensure that any forced downtime experienced by our clients is minimised through the creation of quality parts that not only last longer and are supplied on time, but also at a reduced cost. Proprietary Alloys, linear delivery solutions and our global supply chain helps us to achieve this.

COMPANY OVERVIEW

Established in the Foothills of the Rocky Mountains outside of Calgary, Alberta in 1947, Foothills has evolved over the years. From our beginnings supplying simple castings and small forgings, we have evolved into a large scale producer of high performance castings and fabrications, large scale machine turned steel componentry and professional engineering services. With over 70 years of history in supplying quality solutions into the mining, quarrying and petrochemical industries and having a global presence throughout the world, Foothills Steel Foundry is a leader in our field and a renowned supplier of parts that last.



BUSINESS UNITS

- Design & Engineering
- Pattern making
- Metallurgical and material engineering and selection
- Material Testing (NDT)
- Full Scale Casting Operations
- Fabrication and Assembly
- Precision Machining
- Freight and Dispatch
- Customer Service Team

PRODUCTS

We manufacture customized cast parts for almost any industry.

Our ability to cast steel alloy parts for almost these markets means that we are versatile and adaptable. Our main focus has been cast wear parts for the crushing industry, but with the globalisation of our company we have garnered an ability to pivot and stretch into other industries such as Rail, Ports and OilSands Mining.

Our products include:-

- Wear Parts
- Ground Engaging Teeth (GETs)
- Electric Rope Shovel Racking
- High Chrome
 - Pipe Spool replacement & repair
 - Bi Metallic Castings
 - Cyclone Components
- Gear Racking
- Rubber Matting
- Chrome Carbide Plates
- Track Pads
- Custom Castings





SERVICES

At FSF we help our customers with unique problems. Often we are asked to evaluate a component, and develop a part that isn't on the market; we are designers, engineers, thinkers and leaders in our space through a collaborative approach with our clients.

Because we can design our own solutions, we have a full complement of design and engineering staff who work with our clients delivering custom solutions to challenging problems.

Our capabilities are vast and our experience extensive. At Foothills we design, engineer and manufacture parts to solve your specific problem on site. Our services include:

- ▶ **DESIGN + ENGINEERING:** FSF design engineers are highly trained professionals that specialize in steel casting theory, while applying that knowledge to practical solutions to everyday problems. Quite often our engineering and redesign will result in a steel casting that exceeds the original design, reducing downtime and providing significant up front cost savings.
- ▶ **CASTING:** Utilizing (4) 3 tonne induction furnaces, FSF Can cast up to 8 tonnes clean weight, and up to 130 tonne per day of raw castings.
- ▶ **REVERSE ENGINEERING:** Trained in the latest 3D technology, FSF Engineers utilize Craform scanners for reverse engineering projects, wear rate analysis reports, and any CMM verifications our clients may require
- ▶ **MATERIAL TESTING:** Material testing is either handled in house or through an accredited third party. This can include (but not limited to) Impact testing, Tensile testing, UT, MPI, WPI, dimensional testing as well as chemical testing.



FACILITIES & EQUIPMENT

Foothills manufacture world-class wear solutions with a reputation for providing some of the best wear life in the Industry.

Foothills Steel Foundry has a casting capacity ranging from 50 grams to 9,000kg, and volume capable of producing well over 100 000lbs per month. Our other in-house facilities include metallurgy, heat treatment, machining, welding and assembly.

We offer a full range of foundry services, including:-

DIGITAL MEASURING – CMM

- Faro and Creaform laser digital profiling

DESIGN CAPABILITIES

- Solidworks CAD modelling and drawing

PATTERN & MOLD MAKING

- Sand and investment casting pattern making
- Mold design and construction

METALLURGY AND TESTING FACILITIES

- Chemical and Physical Metallurgy
- Gas Spectrometer and Digital chemical analysis
- Hardness testing
- MPI, WPI, UT and Visual

CASTING FACILITY

- Full casting facility – 50 grams to 9,000kg

HEAT TREATMENT

- Heat treatment capabilities for all castings produced.
- Digitally controlled Heat treatment ovens
- Water (constant flow) and Oil quench
- Rapid air cooling

CNC MACHINING

Machining capabilities for all sizes and alloys

- (3) 84" manual vertical boring mills
- (3) open axis large capacity manual table planers
- (2) 5 axis CNC end mills, 3'x5' table size
- (1) 3 axis end mill 4'x10' table size, over-size travel capacity
- (1) 36" max diameter CNC lathe
- (1) 6'x10' Plasma Table, 5 axis
- (1) 8 x 10 Plasma Table 5 axis
- (1) 60" width capacity plate roller
- (1) 10'x10' stress relief oven
- (1) 100 ton vertical press
- (1) 100 ton horizontal press
- (2) 10 ton overhead cranes
- Misc forklifts, lift capacity up to 20 ton
- 20 acres of usable land for storage
- (2) 10 000 sq ft workshops, 20'x20' door clearance
- (1) welding rollover
- 3 wire feed welding stations with multiple hand held mig welders
- Paint shop



QUALITY & SAFETY

Employees at every level, including management, are responsible and accountable for the company's overall safety initiatives. FSF recognizes this as job #1. Complete and active participation by everyone, every day, in every job is necessary for the safety among all workers on the job site. Management supports participation in the program by all employees and provides proper equipment, training and procedures. Employees are responsible for following all procedures, working safely, and, wherever possible, improving safety measures

With a newly recognized COR Certificate, FSF has shown that through the 3 pillars of business (commitment to the environment, employees and financial bottom line) that success is not measured strictly by the wealth of the balance sheet; rather a success in its employees and a push to reduce our own carbon footprint wherever possible.

QUALITY

Certifications, Licences, Tickets and Accreditations

This is in process. We are in the middle of an ISO 9001 certification.

ENVIRONMENTAL MANAGEMENT POLICY

We understand the importance of managing our emissions. As a steel casting supplier we are conscious of the GHGs that our facility emits. Our way of combating these GHG emissions is by not only "reducing, reusing and recycling", but also by creating carbon and energy offsets from our wind power development project.

FSF has taken an active position owning and developing approx 300 acres of space just outside of Fort Macleod, Alberta where we are in the process of developing a 30MW wind farm. After compiling wind data for over a decade, and bringing to market one of the most efficient sites in Canada, we are set to create not only carbon offsets, but bring to market a commercially viable project that is a model of sustainability.

We believe it is imperative to play a part in climate control and be a leader in the global movement to adhere to the UN's 17 key Sustainable Development Goals.

We are working towards creating affordable and clean energy for industry to utilize (Goal 7) and by being active in this space we adhere to goal 13 which aims to manage Climate action.

LEAN MANUFACTURING

We believe in being efficient at FOOTHILLS. Using the same principles of lean manufacturing, our professionals drive cost efficiencies through identifying value, mapping the value chain streams, and seeking continuous cost and longevity improvements.

ABOUT US

OUR MANAGEMENT TEAM

Tell us about the top tier of management and what skill set they bring to the company

HARRY IRVING
Materials Engineer

CHRIS IRVING
Chartered Accountant

MATT IRVING
BCom, Strategy and Business
Development

ENGINEERING

Troy Yang P.Eng QC Manager
Kade Mior P.Eng Materials Engineering Manager

CUSTOMER SERVICE

Customer Service is important to us at Foothills, with over 70 years of experience, we understand our clientele and respect the fact that they continue to choose us time and time again. We have an intrinsic understanding of our craft, knowledge of the application and the industry and the people to drive progress.

You can contact our customer service team on:
TEL: 403-255-0125
FAX: 403-252-8994
TOLL FREE: 1-888-STEEL44
info@foothillssteel.ca

ASSOCIATIONS







**Manufacturers of High Performance
Cast Wear Parts, helping to drive
Global Mining cost reductions.**

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