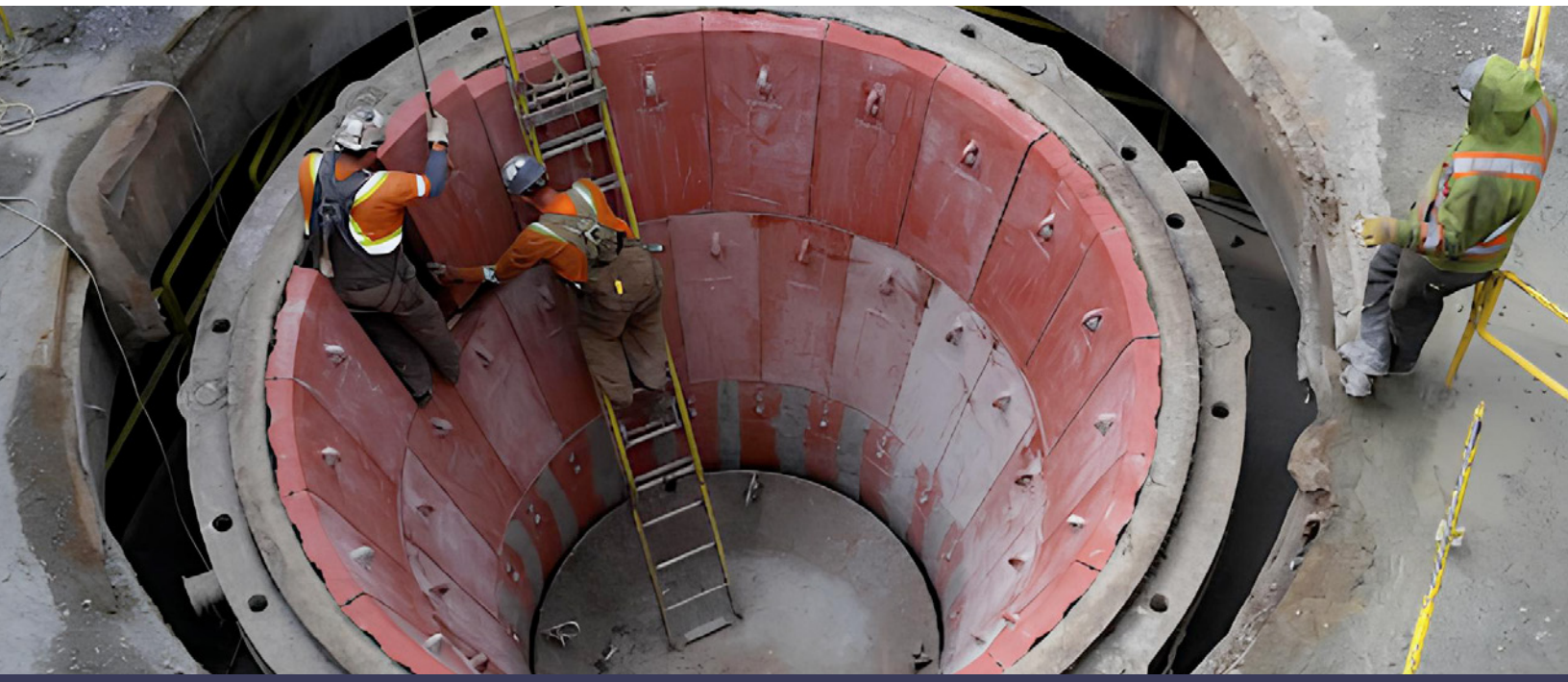
Proudly made in Canada since 1935

PENTICTON FOUNDRY

MINING AND CRUSHING WEAR SOLUTIONS

100% Canadian-Made, High-Performance Castings for the Mining Industry



PROVEN PERFORMANCE
IN CRUSHING AND GRINDING EQUIPMENT

CUSTOM-ENGINEERED
FOR DEMANDING MINING ENVIRONMENTS

UP TO 7X LONGER
SERVICE LIFE

90+ YEARS OF INDUSTRY PROVEN SUCCESS IN THE FIELD

PENTICTONFOUNDRY.COM

THE CANADIAN
MANUFACTURING ADVANTAGE

From our 120,000-square-foot facility in Penticton, British Columbia, Canada, Penticton Foundry engineers and produces high performance, custom-engineered castings and parts for mining and crushing companies throughout North America.

As a full-service foundry, we control every stage of the engineering and manufacturing process. Our high chrome white iron wear components dramatically extend service life, reducing downtime and operational costs.

KEY BENEFITS FOR MINING OPERATIONS

- **Reduced downtime** – up to 7x longer wear life means fewer shutdowns and less maintenance
- **Improved abrasion resistance** – high chrome white iron alloys provide superior wear resistance
- **Lower cost per ton** – fewer replacements reduce maintenance labour and production losses
- **Reliable performance** – consistent metallurgy ensures predictable wear characteristics
- **Improved safety** – reduced maintenance frequency lowers exposure to equipment hazards

MATERIAL	GOUGING WEAR RESISTANCE	IMPACT STRENGTH	TYPICAL APPLICATIONS
High Chrome White Iron (ASTM A532 Class II & III)	●●●●●	●●●●○	Pump parts, gyratory and chute liners, grizzly bars, loaf liners, cyclones, Vertimill liners
Chromium Carbide Overlay (CCO)	●●●●○	●●○○○	Coal processing, tailings piping (straight spools)
Ni-Hard (ASTM A532 Class I)	●●●●○	●●●○○	Cement mixing and pumping
Ceramic	●●●○○	●○○○○	Conveyor components, cyclones for the proper media, high temperature applications
Rubber	●○○○○	N/A	Rubber/metal ball mill liners, piping (straight spools) and cyclones for the proper media
Mild Steel	●○○○○	●●●●●	Structural components

THE MADE IN CANADA ADVANTAGE

- ✓ Manufactured in Canada – designed and produced to meet the toughest industry standards
- ✓ Supporting Canadian industries – supplying top mining and crushing companies
- ✓ Built for harsh environments – engineered for extreme wear and abrasive mining conditions
- ✓ Reliable lead times – improves planning and reduces risk for the customer

MINING & CRUSHING WEAR SOLUTIONS

Penticton Foundry manufactures high chrome white iron wear components engineered for severe abrasion and impact conditions in mining environments.

Our castings help operations:

- Extend liner service life
- Reduce shutdown frequency
- Lower total maintenance costs
- Improve equipment reliability

Products Include

- Gyratory crusher liners
- Cone crusher liners
- Apron feeder liners
- Chute and grizzly liners
- Transfer chute liners
- Trunnion liners
- Cyclone components
- Surge bin and mill liners

CUSTOM-ENGINEERED WEAR SOLUTIONS ARE AVAILABLE FOR DEMANDING APPLICATIONS.

Selecting the correct liner material is critical for **maximizing wear life and maintaining grinding efficiency.**

MILL LINER APPLICATION	RECOMMENDED MATERIALS	KEY ADVANTAGE
Gyratory Crusher Liners	Tough 25 chrome white iron, manganese steel, alloy steel	Manganese steel - impact at top of crusher. Chrome iron resists gouging abrasion in lower zones
Apron Feed Liners	Granite 25 chrome white iron, 15-3 chrome white iron, manganese steel	Chrome white iron resists severe sliding abrasion and impact. Manganese steel is for extreme impact only
SAG / Trojan Horse Liners	20-1 chrome white iron, Granite 25 chrome white iron, AR plate	Chrome iron significantly outlasts AR plate
Trunnion Liners	Bi-metal liners, chrome white iron, ceramic-rubber	Combines structural strength with wear resistance
Surge Bin Liners	Granite 25 chrome white iron, AR plate	Excellent abrasion resistance in high-throughput areas. Chrome iron significantly outlasts AR plate

COST SAVINGS THROUGH RECYCLING

- ✓ We buy back high chrome white iron from mines at market rates
- ✓ Supports the circular economy
- ✓ Strengthens supply chain resilience
- ✓ Can result in pricing stability in some cases

SUCCESS STORIES

PROVEN PERFORMANCE IN MINING OPERATIONS

6X LONGER WEAR LIFE

CHUTE LINER – CANADIAN MINE

- Outperformed AR400 steel plate
- Replacement cycle extended to 3–3.5 years
- Material: Granite 25 high chrome white iron

7X LONGER SERVICE LIFE

RUBBER VS CHROME WHITE IRON

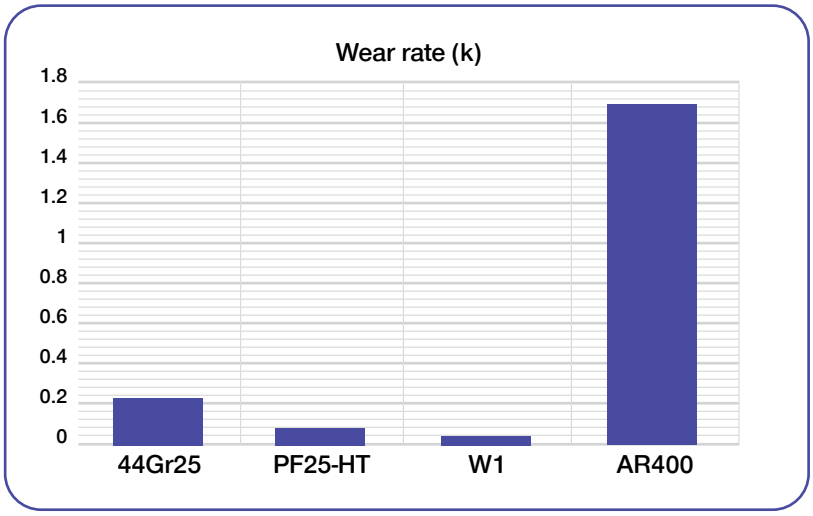
- Chrome white iron liners outlasted rubber liners
- Reduced shutdown frequency
- Lower maintenance labour costs

NEAR-NEW AFTER 10 MONTHS

APRON FEED LINER PERFORMANCE

- Liners in near-new condition after 10 months
- Led to additional feeder installations
- Improved safety and wear resistance

AN EXPERIMENT COMPARING 3 HIGH CHROME WHITE IRON ALLOYS, ASTM A532 TO AR400 PLATE



Note: GR25 and PF25 are both ASTM A532 Class III Type A alloys, and W1 is ASTM A532 Class II Type D.

The wear results comparing high chrome white iron (HWCI) to AR400 show that the **HCWI samples have an improved wear resistance** to AR400 samples - the lower the number in the wear rate column, the better.

PENTICTON FOUNDRY

CONTACT US

Improve wear life and reduce downtime in your mining operation. Speak with our engineering team about selecting the right wear solution.

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