THYSSEN MINING
local challenges | GLOBAL SOLUTIONS

SHAFT SINKING ● MINE DEVELOPMENT ● CONTRACT MINING ● RAISE BORING ● GROUND FREEZING ● GROUTING
OUR SERVICES

Thyssen Mining Construction Of Canada Ltd. (Thyssen Mining) a subsidiary of Thyssen Schachtbau International B.V. and as part of a world-wide team, is a leading full-service underground development and mining contractor providing a comprehensive range of services across North America and around the globe.

OUR VISION

Thyssen Mining’s vision is to be the premier underground development contractor of choice in North America. Thyssen Mining continuously improves on safety, quality and cost effectiveness, while exceeding the expectations of our clients, employees and shareholders.
Our Commitment to Safety

“Safety is a dynamic product that needs to expand in all directions.” – “Safety” Dave Speerbrecker, Director of Safety

Thyssen Mining’s primary objective is to provide the safest mining environment and a well-managed workplace for our employees. Known for our safe practices, which are showcased in all of our working mine sites, Thyssen Mining has received numerous awards for its commitment to safety.

These safe practices and commitment to safety are what make Thyssen Mining a true leader in the mining industry today. Through innovative methodologies in all facets of the mining cycle, the health and wellbeing of the workforce remains protected.

The Thyssen Safety Team considers all personnel to be “Safety Champions” at all levels of management and workforce. When it comes to the safety and wellbeing of any individual, all Thyssen Mining employees are given the authority to stop work at any time should they suspect or see a safety practice non-compliance. This is supported by our “Stop Work Authority Standard Operating Procedure”.

Our History

- **1870** - Thyssen Schachtbau GmbH sinks its first shaft.
- **1905** - First employed ground freezing techniques to allow shaft sinking to pass through water-bearing layers.
- **1964** - Thyssen Mining established its Canadian headquarters in Regina, Saskatchewan, and has since completed nine shafts - nearly every potash shaft in Saskatchewan.
- **1980’s** - Thyssen Mining established itself in the Saskatchewan uranium sector and expanded its operations to include both the Canadian and American mining markets.
- **1997** - Mudjatik Thyssen Mining (MTM) Joint Venture was created, a highly successful model to allow First Nations and Métis communities to participate in economic development opportunities in the northern Saskatchewan uranium mines.
- **2016** - Thyssen Mining completed the first deep shaft sinking using ground freezing in the Western United States.

The Thyssen Group of Companies have sunk over 300 shafts worldwide, developed thousands of kilometers of tunnels, ramps and drifts.

Today, Thyssen Mining has diversified into a full-service underground mining contractor through the establishment of several joint ventures and partnerships.
OUR TECHNOLOGY

“WE MAKE COMPLEX PROJECTS SIMPLE”.

At Thyssen Mining we never assume that what has been done before is the “only” way to do things. Our fully trained professional team is constantly seeking innovative technology to improve our practices and processes while providing the best value for our clients. Our goal is to continually improve our safety, quality and cost effectiveness.

Thyssen Mining Innovative firsts:

- Development of our portable headframe which requires only days to erect.
- Development of unique project specifics ground freezing systems.
- Development of a modular design of our new slashing platform which minimizes worker exposure on the bench.

“We don’t think outside the box …. We eliminate the box!”

OUR GROUND FREEZING

Thyssen Mining is the most experienced ground freezing contractor in the mining industry.

Thyssen Mining Innovative Ground Freezing firsts:

- No company has frozen more ground, in more places, as deep.
- In the early 1960’s Thyssen Mining introduced artificial ground freezing to the Canadian mining industry when the first potash shaft in Saskatchewan was successfully sunk.
- To date, the Thyssen Group has sunk more than 100 frozen shafts through over 30 kilometers of frozen ground, with a frozen shaft depth of up to 850 meters.
- Thyssen Mining has frozen ground throughout North America, and most recently completed the first frozen mine shaft in the Western USA.
- Thyssen Mining is the only mining contractor in North America which owns a “work ready” fleet of ground freezing equipment.

Since 2010, Thyssen Mining has:

- Installed over 250,000m of freeze pipe
- Operated more than 30,000 kW of refrigeration

Thyssen Mining has the experience to design, consult, install, and operate small to large scale ground freezing projects in the mining and civil industries anywhere in the world. We own the largest fleet of refrigeration equipment in the mining industry.

SHAFT SINKING  ●  MINE DEVELOPMENT  ●  CONTRACT MINING  ●  RAISE BORING  ●  GROUND FREEZING  ●  GROUTING
OUR RAISE BORE

Thyssen Mining has been providing raise boring services to the mining and civil construction industries since 1976.

Thyssen Mining Raise Bore Experience:

- We have successfully completed more than 68,000 meters of vertical and inclined raises throughout North and South America.
- Through our sister companies, we have access to the equipment necessary to develop the largest and longest raises in the world.
- Our raise bore equipment has the capability to provide single pass excavations to extreme depths.
- We have the capability and experience to directionally drill highly accurate pilot holes.

Typical Applications for Raise Boring:

Thyssen Mining offers raise boring services for the following applications:

- Slot and pilot raises
- Ore and waste passes
- Ventilation shafts and raises
- Production & borehole hoisting shafts
- Escape ways and travel ways
- Hydro penstock raises
- Surge shafts
- Underground settlers
- Narrow vein ore production
- Bulk sampling
- Horizontal boring
- Drain holes (200 mm to 350 mm)
- Paste fill and backfill boreholes
- Service boreholes

OUR EQUIPMENT AND MAINTENANCE SHOP

- Thyssen Mining’s maintenance shop is located in Regina, SK., with a satellite facility located in Spring Creek NV.
- The 2,000 square foot maintenance shop is located in a 10 acre yard site with additional storage buildings, which house its impressive fleet of mining equipment and specialized gear.
- Coupled with a highly skilled and knowledgeable workforce, the end result is a highly cost effective system for supplying, repairing and rebuilding our inventory of mining related equipment.
- Whether new or rebuilt, Thyssen Mining stands behind every piece of equipment it utilizes, paying close attention to detail to ensure all equipment is thoroughly inspected and in top operating condition prior to shipment to site.
THYSSEN GROUP PARTNERS

Thyssen Schachtbau GmbH, is based in Germany, and has extensive expertise and experience, dating back almost 150 years, in shaft sinking, drilling and shaft boring applications. Thyssen Schachtbau GmbH is undisputedly one of the world’s leading specialist mining contractors, offering a comprehensive portfolio of services in the field of horizontal and vertical mining and excavation as well as all services regarding mine water drainage. The Thyssen group of companies also includes subsidiaries operating in the plant and mechanical engineering sector. Additionally, a number of our firms specialize in a vast array of services including construction, demolition, civil engineering, track laying, and interior fit-outs and finishing.

Byrnecut Mining, is one of the largest underground mining contractors in Australia, specializing in trackless mine development, production and shaft sinking. Byrnecut Australia is the leading mechanized underground mining contractor in Australia offering a professional, reliable service optimizing the development and production of mineral resource projects.

Abergeldie is a world leader in safe mining infrastructure and has been established as a registered company in Saskatchewan, Canada. Abergeldie’s ability to provide a faster, safer and more reliable way of boring large diameter shafts for access, ventilation and foundations has been well-proven in the successful completion of blind bored ventilation shafts for numerous clients.

COMMUNITY INVOLVEMENT

We at Thyssen Mining support charities, nonprofit organizations and volunteer in activities to build strong communities. It is our belief that the success of our business is due entirely to the dedication and experience of our people. Our culture is to treat everyone with respect, fairness and integrity.

The success of Thyssen Mining as leading full service underground development contractor is due entirely to the dedication and experience of our people who are committed to meet or exceed our client’s expectations by working safely, on time and within budget.