

UMS Construction

From mine access to underground infrastructure, we deliver projects that stand the test of time.

Integrated underground construction capability

UMS Construction is the project execution division of the UMS Group and leverages more than six decades of underground mining experience to deliver shaft sinking, underground construction and mine infrastructure projects across the global mining sector.

Supported by in-house engineering through UMS Projects and specialist equipment capability through UMS Plant & Equipment, UMS Construction delivers practical field execution from early works through to commissioning and operational readiness.

UMS combines deep technical knowledge, experienced site teams and disciplined project execution to safely deliver complex underground infrastructure across a wide range of geological and operating environments.

Products and service offerings

- Shaft sinking, lateral development, decline development and tunnelling
- Construction and installation of temporary and permanent underground infrastructure, including shaft towers, headgears, winders, ropes, dams, pump stations, workshops, settlers, substations, conveyors and ore passes
- Surface mining infrastructure, including winder foundations, winder houses, shaft pads, services infrastructure, change houses and administration buildings
- Bulk services supply and reticulation, including power, water and compressed air
- Large underground excavations
- Commissioning of shaft infrastructure
- Specialist technical audits of shaft infrastructure
- Shaft refurbishment and infrastructure upgrades



Our Unique Value Proposition

UMS Construction delivers proven expertise in navigating complex geological environments including fractured and unstable ground, clay formations, sand, deep-level hard rock and high water-table conditions.

Our practical site capability is strengthened through close integration with UMS Projects and UMS Plant & Equipment, enabling coordinated delivery from engineering and planning through execution, equipping and commissioning. UMS maintains a strong safety culture, with major projects regularly operating for years without a lost time injury through disciplined planning, integrated risk management and site-led safety leadership.

Process & Implementation

UMS Construction follows a structured end-to-end project delivery model:



Mobilisation & Planning:

project readiness, milestone planning, workforce recruitment, medical compliance and logistics coordination.



Site Establishment:

workshops, offices, stores, induction and risk alignment with client standards.



Training & Skills Development:

delivered through accredited providers, competency assessments and site-based training support.



Execution:

delivery aligned to project milestones using practical innovation and specialist equipment



Quality Assurance:

dedicated QA support backed by engineering and maintenance capability



Safety:

integrated management systems, risk controls and site-specific safety planning embedded throughout execution

Recent and Notable Projects

UMS Construction has delivered complex shaft sinking and underground infrastructure projects across multiple jurisdictions.

Key projects include:

- Karowe Mine, Botswana - transition from open pit to underground mining through production and ventilation shafts and associated development
- Ero Copper Caraiba, Brazil - deep vertical shaft access and underground infrastructure
- Waste Isolation Pilot Plant Project (WIPP), USA - specialist shaft sinking and lateral development
- Evander / Pan Africa - shaft tower design and installation
- South32 - infrastructure refurbishment and upgrades
- Harmony Target Gold Mine - ventilation upgrades
- Orion Minerals - early works and infrastructure support
- Impala Platinum - shaft infrastructure upgrades
- BRPM Styldrift – underground construction support

UMS has also supported owner's teams and construction management functions on major projects including Ero Copper and Ivanhoe developments.



Project Highlights



Karowe Production and Ventilation Shafts - Botswana

UMS executed blind sinking of a 6m ventilation shaft to 733m and an 8.5m production shaft to 770m, including approximately 1,550m of level development, ore passes, shaft equipping and winder installation.



Ero Copper Caraíba Vertical Shaft – Brazil

Design and construction of a 6.9m diameter shaft to approximately 1,800m depth with capacity to hoist 2.2 Mtpa and transport 846 personnel per day. The project required specialist planning, accelerated mobilisation and innovative side-wall support solutions.



Waste Isolation Pilot Plant (WIPP) - USA

UMS NA, as a 50% shareholder in the HWSS Joint Venture, executed blind sinking of an unlined 8m diameter shaft to 770m together with lateral development using a continuous miner. The project included specialist shaft sinking systems and practical site innovation to support productivity and safety.

Why UMS Construction

- Integrated delivery from engineering through commissioning
- Specialist underground construction expertise
- Global project delivery capability
- Practical mine infrastructure execution
- Strong safety culture with proven long-term site performance
- Support from dedicated engineering and plant divisions

Our Clients



DE BEERS



RioTinto



aluminium



**Let's Build the Future
of Mining Together**

+27 11 445 4300

info@umsint.com

www.umsint.com

