The Products & Services Directory is a comprehensive listing of mining and tunneling industry resources, products, and experts available to assist and support industry professionals. The Products & Services Directory is distributed in Mining Engineering magazine in May, it is reprinted as a separate stand-alone magazine in November, and distributed to all SME members. It is available online at www.smenet.org. The Products & Services Directory is distributed at all in person industry events, and meetings through-out the year, and is supported digitally with 100,000 digital impressions. For information on being featured in the Products & Services Directory, contact Gary Garvey at garvey@smenet.org or 303-948-4243

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AGUDIO is the brand of Leitner dedicated to material transportation systems on ropes, solutions able to reduce distances and fly over obstacles such as valleys, rivers, and protected areas. Our product range includes ropeways, cable cranes, and the Flyingbelt, a rope suspended conveyor belt.

Flyingbelt technology can be used for stand-alone conveyors or it can be integrated in standard over-land conveyors (on the ground) in order to design hybrid conveyors optimizing both the routing and the overall investment. This is possible because the Flyingbelt uses the same components as traditional conveyor belts, such as steel-cord belt, rollers, drive drums.

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www.stm.group
STM INDUSTRIALE is an Italian based company producer and supplier of belt conveyor systems for the handling of bulk materials.

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**Northwest Laborers- Employers Training Trust - Safety and Hazard Awareness for Tunnels (SHAFT) program**

See our ad on p. 29

[www.nwlett.edu](http://www.nwlett.edu)

The Safety and Hazard Awareness for Tunnels (SHAFT) program, developed by the Northwest Laborers-Employers Training Trust with input from a team of industry experts and stakeholders, is comprised of a blend of classroom discussion and interactive use of materials and mockups.

The curriculum offers comprehensive safety training for both new and experienced tunnel professionals; classes focus on tunnel safety, rail, and utilities.

The training facility, located in Elma, Washington, features a TBM mockup, rail, and access to 1,400’ of 12’ diameter tunnel – providing students with a unique educational experience.

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Contact:
Dr. Sekhar Bhattacharyya, Chair of Mining Engineering Program
Dr. Sanjay Srinivasan, Department Head.
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SHAFT was developed by the Northwest Laborers-Employers Training Trust with input from a team of industry experts and stakeholders. The SHAFT program provides quality, comprehensive safety training for both new and experienced tunnel professionals.

The curriculum is comprised of a blend of classroom discussion and use of materials and mockups in classes focusing on all aspects of tunnel safety.

Our facility, located in Elma, Washington, features a TBM mockup, loci, and access to 1,400’ of 12’ diameter tunnel, providing students with a unique, interactive educational experience.
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Diemme Filtration
A brand of Aqseptence Group

DIEMME FILTRATION SRL
www.diemmefiltration.com
Diemme Filtration, headquartered in Lugo (Italy), is one of the most advanced specialists in solid-liquid separation technologies for a wide range of Industries.

The product portfolio includes different models of filter presses available indifferent sizes, design and technical characteristics. The equipment is tailor made and designed according to the needs of every specific process. Mining & Metals, Chemical & Pharmaceutical, Oil & Gas, Power Industry, Quarry and Construction are, among the others, the most relevant fields of application delivered by this company which is part of a German Multinational called Aqseptence Group. Diemme Filtration also began to design and supply its own range of high-rate thickeners, thus broadening the company’s scope of supply and increasing the support to the customers within their flowsheet. One important differentiating factor is provided by a special team of R&D engineers who are continuously involved in satisfying the changing market’s demand, improving the available systems as well as finding new solutions.

Landry Filtration Products Inc
http://www.landryfiltration.com/
Landry Filtration Products is a leading Canadian manufacturer and global supplier of custom engineered filtration products. Since 1986, we’ve been providing the mining industry with rotary disc sectors, disc sector covers, drum filter covers, filter belts, press cloths, hydraulic pressure filter belts and pollution control baghouse filter tubes. With access to over 4,000 different types of industrial textiles, we provide a broad array of high performance filtration solutions.

Our technical team has decades of experience engineering custom solutions that optimize filtration performance and maximize equipment service life. At our in-house testing facility, we conduct ongoing quality control and quality assurance analysis on the tensile strength, elasticity and permissible flow rates of our filter media.

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FIRE PROTECTION

Dafo Vehicle Fire Protection
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With a total fire protection solution Dafo Vehicle Fire Protection mitigates the overall risk of a heavy vehicle fire.

Dafo Vehicle works with mining environments to reduce risk, mitigating any potential damage, downtime and threat to life within your high-risk operation. With low-maintenance, cost-effective systems that offer complete protection, Dafo Vehicle provides integrated solutions that reflect your needs.

As the mining industry moves towards a sustainable future, an increasing number of mining sites are transitioning to electric vehicles (EVs). EVs have a whole new set of fire risks due to the lithium-ion (Li-ion) batteries that power them, which Dafo Vehicle’s SaFeV™ unique solution aims to address.

With an extensive heritage of over 100 years, Dafo Vehicle has been at the forefront of fire safety development worldwide and was one of the first
At Forgen, we deliver even the most complex mine reclamation and remediation projects. We’ve succ-cessfully delivered large, multi-disciplinary projects for public and private sector clients across the U.S. for more than a decade, safely tackling complex challenges across the mining industry.

As one of the largest self-performing environmental contractors in the United States, our integrated environmental remediation and geotechnical construction services restore and strengthen our natural surroundings to protect people, communities, and the environment for generations to come.

Keller’s full range of geotechnical construction techniques has been applied to hundreds of mining projects. Our solutions for mining include tailings management, tailings dam stabilization, deep shaft and excavation support, mine abandonment solutions, groundwater migration control, instrumentation and monitoring, and increasing mineral recovery with our patented leachate recovery process.

By connecting global resources and expertise with local knowledge and focus, Keller develops innovative, practical, and cost-effective solutions to geotechnical challenges. Keller builds projects designed by others and offers full design-build services for any geotechnical construction application.

Keller was founded in 1860 and is the largest geotechnical specialty contractor in the world with ongoing operations in over 40 countries across 5 continents. With a North American presence of over 100 years, Keller operates as the market leader with over 60 offices throughout the US and Canada and is the sole source for a complete geotechnical construction solution optimally designed to meet clients’ needs.

Legacy North America Keller companies include Bencor, Case Atlantic, Case Foundation, Hayward Baker, HJ Foundation, Keller Canada, McKinney Drilling, and Moretrench.

Call & Nicholas, Inc. and Call & Nicholas Instruments, Inc.

Since 1979, Call & Nicholas, Inc. has been providing Geologic and Geotechnical engineering consulting services to the worldwide mining community. Call & Nicholas, Inc. are recognized experts on open pit design, slope optimization and cost benefit analysis, underground rock mechanics and support, mining method selection, and geological, geotechnical, and hydrogeologic modeling.

In 2003, Call & Nicholas Instruments, Inc. provides geotechnical instrumentation services including piezometer and TDR cable installation. They
At Keller, sustainability is at the heart of our strategy

As the leading geotechnical specialty contractor, we are committed to better understanding our contribution to sustainable development and are working to improve sustainability through innovative design and products.

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The leading geotechnical specialty contractor

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Ground improvement
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Instrumentation & monitoring
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also designed and manufactured the trusted SlideMinder remote wire-line extensometer, which provides fully automated continuous monitoring of ground movement. With SlideMinder’s real-time monitoring, people and equipment can be re-positioned when there are unsafe conditions identified. SlideMinder’s affordable durable construction provides unparalleled up-time and needs minimal routine maintenance from field technicians, saving time, money, and, most importantly, lives. Now with cellular communications, it gives the end user maximum flexibility for communications and critical alerts. SlideMinder is optimal for monitoring waste and leach dumps, road cuts, etc., during and after operations.

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GEOKON offers a full complement of products for remote, long-term monitoring of Open Pit, Tailings Dams, and Underground Mines. Recognized as a world leader in geotechnical and structural instrumentation production, GEOKON has been manufacturing products of the highest quality for over 40 years.

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GEOKON has been awarded ISO 9001:2015 registration from both ANSI•ANAB, USA, and UKAS of Great Britain. The factory calibration program complies with the ANSI/NCSL Z540-1 Calibration Laboratory and Measuring and Test Equipment General Requirements, and all products have achieved Russian GOST certification for safety.

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Ackcio develops and builds reliable wireless data acquisition systems specifically designed for mining applications. The company’s focus is on automating monitoring processes and delivering remote, intelligent data to enhance safety and facilitate efficient risk management in the mining industry. Ackcio’s flagship solution, Ackcio Beam, is a cutting-edge industrial data acquisition platform that employs a patented long-range wireless mesh network. This innovative technology enables accurate and dependable monitoring of sensors in various mining environments, both above ground and underground. By leveraging Ackcio’s solutions, mining companies can enhance operational efficiency, improve safety measures, and effectively manage risks associated with mining activities.

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Independent Mining Consultants Inc.

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GRINDING MEDIA AND LINERS

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Silver Lake Analytical Service, LLC, provides expert metallurgical grinding media analysis with new supplier evaluation, regular quality checks and breakage analysis. We deliver information you need to negotiate with suppliers of one of your largest cost items. Our lab only works with grinding media, both forged steel and high chromium cast balls. Silver Lake helps to ensure mining companies get quality grinding media and is the only lab of its type in the world. An independent party, Silver Lake can help you shorten evaluation time and expense, and better control consumption.

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At CEMTEC, we pride ourselves on our flexible approach, to provide the best-suited solutions for their requirements. As a technology provider, we go beyond merely delivering equipment, complete plants, process optimization, and services. Our goal is to deliver solutions that add tangible value to our customers’ operations.

With over 30 years of industry experience, we have amassed a wealth of knowledge and an extensive list of references. Leveraging our engineering capabilities, state-of-the-art workshops, and a world-class process laboratory, we are fully equipped to deliver solutions that exceed expectations and address complex challenges faced by our clients worldwide.

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Action Mining Services Inc.
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EIRICH Machines
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EIRICH Machines, part of worldwide EIRICH Group, is an international manufacturer and supplier of innovative material processing technologies. Our EIRICH product line includes grinders and mixers with peripheral equipment for complete systems.

Our grinding mills are for dry and wet grinding of industrial minerals, ores, raw materials for ceramics, glass, and fertilizers. They are custom tailored and effective. For example, with the TowerMill you can reduce power consumption by 30-35% and have media consumption rates that are 45% of what conventional mills do.

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• MaxMill: Continuous dry and wet grinding of coarse-grained materials to fine-ground and ultrafine-ground products.
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Products & Services directory | JULY 2023
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GROUNDBUILDERS SOLUTIONS

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Bauer Foundation Corporation

Bauer Foundation Corporation is a leader of ground engineering in the United States. It was established in 2004 as the US subsidiary of Bauer Spezialtiefbau GmbH. With its global network, Bauer Foundation prides itself on being the home of some of the finest minds in the industry and on its use of the most advanced state of the art equipment. Its range of solutions includes, among others, slurry walls, deep foundaions, seepage cutoff walls, deep soil mixing, jet grouting, rock grouting, soil improvement. Bauer Foundation has capabilities and experience to tackle projects of all sizes and levels of complexity. As a main contractor and as a subcontractor.

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ConMICO, Inc.

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AVANTI INTERNATIONAL
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Avanti International is an American owned and operated manufacturer of injection grouts located in Houston, TX. Since 1978, Avanti’s injection grouts have been used worldwide in municipal, industrial, and geotechnical applications to stop leaks, stabilize soil, and control groundwater – permanently.

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For more information on Avanti’s injection grouts or applications, visit avantigrout.com.

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Open Loop Energy has offices in Saltford, Arizona, Winnemucca, Nevada, Cedar Fort, Utah and Farmington, New Mexico. Open Loop Energy is ISO 9001 certified at all locations to insure the focus on enhancing customer satisfaction. Each location has Six Sigma professionals on staff that enable projects and daily tasks to function in an efficient manner. Sixteen staff members hold certifications within the International Fluid Power Society, with this knowledge comes application expertise. Our innovative focus begins with Hydraulic Repairs. New manufacturing includes HydroStruts for Cat and Komatsu haul trucks, Bladder Accumulators, and HydroSNUBB Snubbers for Electric Shovels. One Key innovation is the “Patent” Digital Controlled Water Distribution System known as DCWD-G2. This is the only “Patent” Digital Controlled Water Distribution System known as DCWD-G2. This is the only system that can track and report water usage of water trucks based on the ground speed of the water truck.

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INFORMATION TECHNOLOGY PRODUCTS

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INSTRUMENTATION EQUIPMENT AND SERVICES

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Geocomp Corporation
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Since 1982, Geocomp has provided the heavy civil construction industry with a unique suite of geotechnical services and products to help identify and manage risk associated with the design, construction, and operation of infrastructure in both natural and build environments. Geocomp provides geotechnical consulting, instrumentation & monitoring, structural health monitoring, and laboratory testing services on projects worldwide.
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Our peristaltic pumps can be installed in remote environments for abrasive slurry transfer without freshwater sources for seal or gland flushing. At chemical metering stations, our pumps can be employed without pressure or flow control ancillaries, bundling or screening equipment normally required to achieve safe, accurate results.

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Chuck Treutel
WMFTS Process Industries BDM and Marketing Manager
chuck.treutel@wmfts.com or info.us@wmfts.com to contact a local representative

Xylem

www.xylem.com

Xylem is a leading global water technology company dedicated to providing services and solutions that solve water challenges across all industries, including water management, water quality and sustainability for mine operations. For us, supporting open pit, underground and processing operations isn’t about offering a few key pieces of equipment and leaving you to figure out how to integrate them into your operation. Xylem is committed to providing everything you need to transport, treat and test water throughout exploration, development, operation and reclamation. Then we put it together in new, more meaningful ways to make your job easier, and your mine more efficient.

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Nalco Water

www.ecolab.com/mining-and-mineral-processing

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With programs for base metals, precious metals, alumina, phosphates, and coal, our goal is to deliver a measurable return on investment in a safe and comprehensive approach. We can help you get the most out of your operation by offering innovative solutions for flotation, thickening and clarification, mining applications and minerals pose different extraction challenges. Our high-performance products are essential solutions to consumers and markets around the world and our commitment to sustainability has earned us the EcoVadis Gold rating.

Solvay Mining Solutions is a premier supplier of specialty reagents to the Mining Industry helping our customers maximize the performance of their operations through optimum reagent selection, superior applications expertise and a constant stream of innovative, proprietary products and technology. Solvay mining solutions is a global leader in metal separation: Mineral processing, solvent extraction, alumina processing and industrial minerals. Our offering align with industry trends and needs including improving sustainability with our MAX HT and ACOO-PHOS products, supporting global demand growth with CYANEX and ACORGA products, addressing ore grade decline with AEROPHINE and Xanthate Replacement collectors, and driving productivity improvements with SohExtract digital product. Each product line has dedicated teams supported by mining solutions global functions. Solvay mining solutions has broad product portfolio created from 100+ years of developing solutions for the industry. Visit our website for more information with Solvay Mining Solutions.

Contact: genevieve.castillo@solvay.com Genevieve Castillocastillo

Evonik

www.mining-surfactants.com

Evonik has over 40 years of experience producing an array of performance chemicals that serve the global mining industry. At the core of that technical know-how is the production of high-quality reagents for reverse flotation of non-sulfide ores. Our Tomamine® and Aroxurf® product lines of ethera mines and fatty amines are designed specifically for this type of mineral flotation. Evonik’s Shur-Flo® products help provide our customers free-flowing powdered solids. Evonik manufactures various surfactants for the formulation of dust control agents. We also supply emulsifiers for explosives and wetting agents for bio-hydrometallurgical processing. Evonik is well known for our broad range of foam control technologies. As different applications and minerals pose different extraction challenges, we can also tailor make formulations utilizing multiple chemistries to help optimize metal recovery, level of frothing and concentrate grade. We welcome the opportunity to discuss your specific application.

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Nouryon

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HEXION INC.

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Hexion’s product portfolio includes flotation reagents that help customers in the mining industry improve productivity, maximize value, reduce treatment costs, and solve specific metallurgical challenges. Our high-performance products are used in the processing of a variety of metals and minerals, are tailor made to address individual operational needs, and have been extensively tested and used in Australia and New Zealand. Hexion has been providing specialty chemicals to various industries globally for over 100 years.
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Driver Industrial Safety™ is a quality manufacturer of market-driven Safety Products for industrial and commercial industries. SAFETY IS ALL WE DO™. We are headquartered in Phoenix, Arizona (USA) with manufacturing and warehouse facilities in the US & Canada and sell through our global distribution channels. Driver Industrial Safety™ was originally founded in 2004 under our former recognized name SafetyWhips®.

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Technical Tunnelling Components Ltd
Technical Tunnelling Components Ltd is at the forefront of quality assured segment assembly supply worldwide.

TTC’s expertise is focussed solely on the segmentally lined tunnel industry and with the enviable in-house design and manufacturing capabilities it has, gives TTC a flexible and competitive edge when it comes to segment assembly supply. This also enables TTC to offer bespoke products for specialist and challenging situations as well as supplying standard parts.

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TOMRA Sorting Mining
TOMRA Sorting Mining provides proven sensor-based sorting technology for efficient material separation in various mineral and ore applications such as in the processing of gold, diamonds, gemstones, industrial minerals, and metal recovery from slag. World-wide, numerous sorting systems are already contributing to more energy-efficient and cost effective pre-concentrations as well as material recovery. TOMRA’s sensor-based solutions help to extend the life of mining operations and increase the value of the deposit.
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SHAFT DRILLING AND RAISEBORING EQUIPMENT

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SHOTCRETE EQUIPMENT, SUPPLIES AND SERVICES

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Normet Americas Inc.
Normet is an industry-leading technology company offering continuous improvement to underground mining and tunnelling processes for increased safety, productivity and profitability. We work in close collaboration with our customers and utilise our process expertise amassed over thousands of mine and tunnel projects all over the globe into concrete actions and financial results for our customers.

We have a broad underground offering, including equipment for concrete spraying and transport, explosives charging, scaling, lifting, installation works, and logistics. We supply construction chemicals for sprayed concrete, admixtures, injection systems for ground and water control, waterproofing systems and additives for TBM technology. We have high quality and innovative rock reinforcement products that reduce the risk of accidents in challenging rock conditions. Our services are to ensure safety and productivity for our customers throughout the lifecycle this includes the supply of spare parts, rental equipment, remanufacturing and upgrades, field services, training and more.
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Sika has subsidiaries in 101 countries around the world and manufactures in over 300 factories. Its 25,000 employees generated annual sales of CHF 9.24 billion in 2021.

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MASTER BUILDERS SOLUTIONS
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Master Builders Solutions is the world leader for reliable, customer-oriented product solutions to the underground mining sector. For more than 100 years, our innovations have become today’s industry benchmark; we supply customized solutions that perform in the ever-changing geological environments and challenging underground conditions. Today we continue to support the underground mining sector with technological advancements that can directly enhance safety and improve productivity for a sustainable mining future.

The MasterRoc® product range is comprised of market-leading innovations and application expertise for the mining and tunneling industries. Our reliable, customer focused solutions include several outstanding technologies for:

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SCHAUENBURG Maschinen- und Anlagen-Bau GmbH
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Whether it’s a subway tunnel in London, a hydroelectric plant on the Amazon river, the Gotthard Base Tunnel in Switzerland or a high-speed rail route in China: Construction projects of this magnitude are nothing unusual for Amberg Technologies AG. The Swiss company is one of the global leaders specializing in user-friendly surveying solutions. Geophysicists and surveyors as well as software and hardware engineers at the headquarters in Regensdorf design customized solutions for georeferenced data capture and processing in infrastructure installations. The company offers its customers field-proven products as well as customer-specific services for railway surveying, tunnel surveying and tunnel seismic.

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**Frontier Precision**

www.frontierprecision.com

Frontier Precision is a distributor of geospatial survey and mapping products, unmanned aerial and ROV products, as well high precision satellite imagery and software. We are an employee-owned company, with over 35+ years of experience working in mining environments. Since our founding in Bismarck, ND in 1988, we’ve expanded our footprint to South Dakota, Minnesota, Colorado, Alaska, Montana, Idaho, Hawaii, Oregon, Washington, Florida, and Texas. Additionally, Frontier provides service in the states of Wyoming and Utah, along with our remote Frontier Precision Unmanned specific offices in Ohio, North Carolina, Florida, and Arizona. We pride ourselves on offering unmatched customer service with industry experts who always find a solution to fit your needs.

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STT Storage & Transfer Technologies
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Pocock Industrial specializes in solving solids/liquid separation problems. We believe the integration of laboratory expertise with substantial engineering capability, plant operating knowledge, and practical experience, provides a basis for exceptional service. Since 1983, we have served a broad-spectrum of industry and have provided services to many of the major mining, oil, chemical, pharmaceutical, food, and environmental companies.

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Philippi-Hagenbuch, Inc. is a global leader in off-highway truck customization and has engineered innovative haul truck solutions for the mining industry since 1969.

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TUNNEL BORING EQUIPMENT

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Herrenknecht is a technology and market leader in the area of mechanized tunneling systems. As the only company worldwide, Herrenknecht delivers cutting-edge tunnel boring machines for all ground conditions and in all diameters — ranging from 0.10 to 19 meters. The Herrenknecht product range includes tailor-made machines for transport tunnels (Traffic Tunneling) and supply and disposal tunnels (Utility Tunneling). Under the umbrella of the Herrenknecht Group, a team of innovative specialists has formed to provide integrated solutions around tunnel construction with project-specific equipment and service packages upon request. Herrenknecht develops innovative technical solutions to sink vertical shafts down to great depths as well as to successfully excavate sloping shafts. The company also produces state-of-the-art deep drilling rigs that drill down to depths of 8,000 meters.

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CBE GROUP
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Tunnel Communication Systems & Equipment
Innovative Wireless Technologies (IWT)
iwtwireless.com
Innovative Wireless Technologies, Inc. (IWT) is the leading supplier of wireless communication, tracking and data systems for underground applications. IWT’s SENTINEL™ system is easy to install and maintain and provides clear voice communications for maximum productivity and low cost of ownership. Continuous tracking and sensor data is also available - all in one system. IWT offers line-powered infrastructure for long term projects, or battery-powered infrastructure for short term inspections. IWT equipment is 100% recoverable and reusable once the project is completed.

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CBE GROUP
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Design and production of either rolling and fixed tools for any type of excavation; from horizontal boring (Tunnels for road, railways and water) to vertical boring and drilling.

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TERRATEC
www.terratec.co
Incorporated in 1990, TERRATEC is a world renowned designer & manufacturer of Tunnel Boring Machines, encompassing all ground conditions and diameters – ranging from 0.60 to over 16 metres – as well as TBM back-up equipment, Raise Boring Machines and other custom-engineered products for the tunnelling and mining industries. TERRATEC’s success is based on the experience and excellence of its global engineering team. TERRATEC is also fully managed by engineers enabling quick and efficient solutions that meet customer expectations.

TERRATEC products are well-known in the industry as Robust, Durable and Safe, basic principles that must prevail in the design of any equipment made to work in the extreme conditions encountered underground. Providing Total Tunnelling Solutions, TERRATEC’s scope of work extends to custom engineering, as well as the operation and maintenance of tunnel boring equipment and the supply of ancillary equipment.

As a result, it is becoming more and more common for TERRATEC to supply a Total Tunnelling Solution package consisting of the TBM/s, other main equipment in the tunnel (Trains, Conveyors, Segment Moulds and Ventilation), spares and consumables for the equipment and a team of field personnel who assist in the operation and maintenance of the supplied equipment throughout the project.

TERRATEC offers full range of equipment from pipe jacking machine to open TBM, soft ground to very hard rock machine. TERRATEC’s continuing success on global projects is a result of tailor-made robust TBM design, prompt onsite assistance, readily available stock of TBM spares and highly-skilled specialised TBM support throughout tunnelling operations.

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**TUNNELING AND UNDERGROUND CONSTRUCTION**

**RiteChoice Ducting, LLC**
www.ritechoiceducting.com

RiteChoice Ducting is a leading US manufacturer of flexible ducting for tunneling and underground construction. We offer highly customized options that are tailored to your needs. The flexible ducting that we offer is an integral component in tunneling and construction used for vacuuming, heating, cooling, and dehumidifying. They help reduce contamination and cleanup for tight spaces, while also providing venting in outdoor/indoor construction sites.

What makes RiteChoice, your choice? Simply, we offer great customer service and quick turnaround. We have our ducts in the warehouse and ready-to-ship, often the same day. RiteChoice Ducting is one of those companies that will truly make an impact on your business.

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Minegrid® has become the industry standard for longwall recovery, roof, and rib control due to its high strength-to-weight ratio, flexibility, and safe handling.

HUESKER has supplied over 1,400 Minegrid® longwall recovery systems in the United States, Australia, South Africa, Norway, and the United Kingdom since 1994, making coal mining safer, faster, and more cost-effective.

Minegrid® conforms to Fire Retardant Anti-Static (FRAS) requirements, which complies with Standardized Small Scale Flame Test Procedure for the Acceptance of Roof-Rib Grid Material from MSHA.

Minegrid® is used successfully as rib support, highwall protection and in shotcrete applications due to ease of handling and installation, durability and withstanding extreme conditions, while still offering higher tensile strength compared to wire mesh.

Over the course of four decades, HUESKER’s Minegrid® has earned a global reputation for increased safety and productivity.

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Business Area Manager - Mining
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http://www.michels.us

Michels is a turnkey contractor for the design and construction of trenchless solutions for energy, energy transition, transportation, water and wastewater projects in North America. Through early contractor involvement and alternative delivery models, Michels partners with customers to clearly understand the desired outcome before reviewing options and risks to provide customers with the safety, best-value options for completing complex projects. Michels’ self-performed support services include shafts and bracing systems to connect underground work areas to the surface while keeping crews and equipment separated from water, groundwater, rock and soil.

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Frontier-Kemper’s Mine Development Division provides comprehensive, mine development services to our owners and partners. With techniques such as Blind Drilling, Raise Boring, Conventional Shaft Sinking, and Slope Construction, Frontier-Kemper has developed underground mines for coal, salt, copper, gold, and other minerals throughout North America.

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**CBE GROUP**
See our full listing on page 54
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**ASI Group Ltd.**
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ASI specializes in providing hyperbaric intervention services for soft ground tunnel projects. Our hyperbaric services include project management and consultation for all hyperbaric requirements including; planning, risk assessment, safety and adherence to local regulatory requirements, management of variance applications and development of the projects Hyperbaric Operation Manual. We supply hyperbaric workers and worker training, specialized onsite medical locks and ancillary support equipment, along with maintenance programs for the TBM air-lock and supporting air supply systems. In addition to hyperbaric services, ASI has been a global leader in long range flooded tunnel inspections for more than 30 years, providing accurate and repeatable inspection data while delivering safe value added solutions for industry.

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Mining Equipment has been supplying the mining and tunneling industries with quality rebuilt underground equipment for more than 40 years. The business has grown to encompass new ventilation equipment, Jetair fans, and new rolling stock, C.S. Card and Moran Engineering. Mining Equipment, Jetair and Mine Hoists International are currently doing business in North and South America, Australia, Asia, Africa and Europe. Mining Equipment opened its first office and shop facility in Germany in 2019. They purchased all the assets of the former Mulhauser company and now offer their full range of rolling stock.
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Brookville Equipment Corp
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Brookville Equipment Corporation designs and manufactures American-made custom rail-mounted and rubber-tired haulage and transportation vehicles for the underground mining and tunneling industries. Founded in 1918, Brookville’s diesel, battery, and battery-trolley vehicle portfolio includes locomotives from 4 to 50 tons, personnel carriers with capacity for up to 18 passengers, combination vehicles, and rubber-tired tractors up to 50 tons, among other unique solutions for operations and maintenance applications. Brookville is dedicated to working with its new and longtime customers to collaboratively develop innovative,
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Schauenburg Flexadux Corp was founded in the USA in 1974 as a manufacturer of flexible ventila-
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faceted manufacturing and distributing company providing flexible lay flat, spiral, rigid, fiberglass and steel ducting, pumpable crib bags, elec-
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**DOVE Equipment & Machinery Co., Ltd.**

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Kurita America identifies the root causes of our customers’ water challenges and develops mutually beneficial long-term partnerships that enable us to deliver optimal results and overall lower cost of ownership while conserving natural resources for a better, more sustainable world. These water treatment solutions prevent unscheduled downtime and improve system efficiency.

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