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SHOTCRETE • CONCRETE • GROUT • EQUIPMENT



MINI CATALOGUE



SUPPORT YOU CAN COUNT ON

As your one-stop source for shotcrete application equipment, shotcrete materials, transfer systems, grouting equipment, and associated technical support, Multicrete Systems Inc. offers leading-edge project solutions to customers worldwide.

Our energetic and multi-disciplinary team includes engineers, mining professionals, and construction specialists who supply the mining and tunneling industries with technical assistance focused on supporting shotcrete, grouting, and concrete programs. We have also offered expertise and solutions in several civil construction, new construction, and restoration ventures. On the international scale, we have supplied equipment and materials to mining companies in North, Central, and South America.

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EQUIPMENT SOLUTIONS



HYBRID-WET® SHOTCRETE CARRIER

Hybrid-Wet® Shotcrete Carrier is the ultimate in shotcrete technology. Blending the best of both worlds, Hybrid-Wet® technology utilizes dry premixed shotcrete, and turns the product into a Hybrid-Wet® state for application. This Hybrid Wet® Shotcrete Application Carrier is based on simplicity. Load and haul dry, pre-mixed material to the shooting site. Water is added to the Mixing Auger just before the Aliva 257 Shotcrete Pump and it is sprayed "wet" at a low slump for reduced accelerator needs and high strength and adhesion. This unit can also spray "predampened" dry shotcrete!



- Mitigates the dust associated with dry process shotcrete application methods



- Reduces the amount of overspray and waste associated with wet process shotcrete application methods

- Reduces the amount of expensive admixtures needed to delay set times, increase slump flowability, or accelerator typically used in the wet process shotcrete application methods

- Is a stronger, quicker setting product that allows productivity to continue without delays



A single Hybrid-Wet® Shotcrete Application Carrier reduces the number of pieces of equipment associated with dry or wet processes. Start and stop as you need production. Clean-up takes about 10 minutes.

MULTIGROUT CB AND CB-S

CB is an un-sanded, cement-based expanding grout containing silica fume (microsilica) and other carefully selected additives. MultiGrout CB gains strength quickly and resists water washout, making it ideal for anchoring tendons, cables and bolts into soil or rock media. CB-S Grout includes sand material.

WATER CUT-OFF GROUT

Water Cut-Off Grout is an unsanded blend of cement, silica fume (microsilica) and other carefully selected admixtures. It is designed to be a pumpable grout that resists washout by flowing water and behaves similar to a microfine cement.

CG-500 VERSATILE GROUT SERIES

The ChemGrout CG-500 versatile series are high production, skid-mounted grout plants. These versatile units are designed to mix and pump neat cement, sanded grouts and most commercial pre-blended grout mixes. The versatile series features two 70-gallon (265 L) mixing tanks, a 15-gallon (57 L) holding hopper and an open throat progressive cavity pump.

CG-500 HIGH PRESSURE GROUT SERIES

The ChemGrout CG-500 HP series are skid-mounted, high pressure grout plants. These units feature two 70-gallon (265 L) mixing tanks, a 21-gallon (80 L) holding hopper, and a high-pressure plunger grout plant. The unique double mix tank design permits continuous pumping as each mix tank alternately feeds the pump.



Multicrete produces grout materials in a variety of packaging sizes or bulk.

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GROUT MATERIALS



ROMIX CEMENT PRODUCTS

ROMIX Back-set is a concrete dissolver that is acid-free with no fumes, odors and is environmentally safe to use. It will not harm surfaces and can be used on cured cement, concrete, grout, and mortar.

ROMIX RO-396 is a form release which can be applied thinly to any clean surface for best releasing properties. With high coverage rates and superior clean stripping, it is also non-staining.

ROMIX 1125 RX Sprayer is a 2.5 Gallon pumpable sprayer for use with the Backset and RO-396.

MULTICRETE GROUT MATERIALS

POLYURETHANE WATER CUT-OFF GROUT

Polyurethane Water Cut-off & Soil Stabilization Grout is made of polyurethane, which reacts with water by expanding. The cured product is a cellular material.

MULTIGROUT NON-SHRINK GROUT

Non-Shrink Grout is a sanded, cement-based, non-ferrous, non-shrink grout. This specially formulated grout features reliability and high performance for a variety of general grouting purposes.

XPR NON-SHRINK GROUT

This grout is a hydraulic cement-based, non-ferrous, non-shrink grout that can be sanded or unsanded (concentrate). This specially formulated grout features reliability and high performance for a variety of general grouting purposes.

GROUT EQUIPMENT

MULTICRETE COLLODIAL SD-6 MIXER



This machine is a single drum, high speed, high shear unit designed for the efficient production of cement-based grouts. The product exhibits colloidal properties and is nearly immiscible in water. Can handle cement/sand ratios of up to 1:3 by weight and produce pumpable mixtures. Will mix a wide range of materials such as cement/PFA, pre-blends, bentonite, lime or chemicals.

MULTICRETE 3100 GROUT MIXER



Works flawlessly with the Ictus 6000 grout pump.

The Multicrete 3100 Grout Mixer System allows mixing of grout and may be used in combination with the Ictus 6000 Grout Pump.



ICTUS EQUIPMENT (Pty) Ltd

ICTUS 6000 GROUT PUMP



In combination with the Multicrete-3100 mixers, it is mainly used for full-column grouting as in cable anchoring and also for spraying materials. Combining the air-motor with different riser-tube assemblies (fluid sections) will adapt the pump to suit different needs.

All the pumps are equipped with a VFO lubricator/filter to ensure clean lubricating air operates the pump. The riser-tube is fitted with a clamp and allows removal of the tube for cleaning without special tools. Pump can handle a variety of mixes, from a thin liquid to a viscous grout (1:3 water to cement ratio). Other models can be manufactured to meet special needs.

SHOTCRETE EQUIPMENT



ALIVA AL-237 COMPACT SHOTCRETE UNIT



The AL-237 is a compact concrete spraying machine for dry shotcrete as well as for small wet shotcrete application of mortar. The low filling height of the hopper allows easy handling of pre-bagged materials with little effort. The integrated FU (frequency changer) enables an infinitely variable speed of the rotor, and with it, the conveying capacity for each specific job. With a range of conveying capacity from 0.4 to 4.0 m³/h, the AL-237 is suitable especially (but not only) for:

- Concrete renovation
- Ponds & swimming pools
- Mining
- Joint fillings
- Slope protection & stabilization
- Canal renovation (sewage)

ALIVA-257 WET/DRY SHOTCRETE UNIT



The AL-257 is the universal machine for the application of dry and wet shotcrete in the thin-stream method. Weighing in at 750 kg and as small as a small dry shotcrete machine, the AL-257 fits on every job site and is easy to install and operate.

With its unbelievable output capacity range from 0.7-9.6 m³/hr, the machine works on small concrete renovation work as efficient as on big slope protection or in mines. Less maintenance and wear cost make it the ideal shotcrete machine for all applications.

- Concrete renovation
- Joint fillings
- Concrete restoration
- Ponds & swimming pools
- Slope protection & rock consolidation
- Mining & tunnel applications
- Canal renovation (sewage)

SHOTCRETE EQUIPMENT

AUTHORIZED DISTRIBUTOR



ALIVA AL-267 WET/DRY SHOTCRETE UNIT



The AL-267 is a multi-functional machine for wet and dry application of sprayed concrete in the thin stream method. With an output capacity of 4-21 m³/hr and a modular design, the 267 fits a wide range of applications.

- Concrete renovation
- Ponds & swimming pools
- Mining & tunnel applications
- Joint fillings
- Slope protection & stabilization
- Canal renovation (sewage)

ALIVA 302.1 ROBOTIC TELESCOPING SPRAY ARM



The telescope spraying arm Aliva 302 is used for the application of sprayed concrete in mines, small galleries and excavations. This quality Aliva product can assist the shotcrete team in safely applying high quality targeted shotcrete with minimum rebound and waste

With its simple and rigid construction, the Aliva 302 is very suitable for mounting onto different types of carriers. The telescope spraying arm is available in two different types:

Type - PROP: Electric remote control (wireless remote control optional) hydraulic aggregate with motor.

Type - AIR: Hydraulic remote control, hydraulic aggregate with air motor.

Concrete renovation with sprayed concrete in the dry shotcrete method guarantees good bond strength and impeccable compaction. No matter the project, Aliva shotcrete machines are the right choice.

GROUT EQUIPMENT

AUTHORIZED DISTRIBUTOR



CG-500 VERSATILE GROUT SERIES



The ChemGrout CG-500 versatile series are high production, skid-mounted grout plants. These versatile units are designed to mix and pump neat cement, sanded grouts and most commercial pre-blended grout mixes. The versatile series features two 70-gallon (265 L) mixing tanks, a 15-gallon (57 L) holding hopper and an open throat progressive cavity pump.

CG-500 HIGH PRESSURE GROUT SERIES



The ChemGrout CG-500 HP series are skid-mounted, high pressure grout plants. These units feature two 70-gallon (265 L) mixing tanks, a 21-gallon (80 L) holding hopper, and a high-pressure plunger grout plant. The unique double mix tank design permits continuous pumping as each mix tank alternately feeds the pump.

HIGH PRESSURE GROUT PUMPS



HP Series grout pumps combine the latest advances in grouting equipment design and flexibility. With the HP series, you can customize pump to meet specific needs by installing a simple conversion kit to increase discharge pressure in the field from the standard 1,000 to 1,600 psi or 2,000 psi.

HP series pumps are offered separately, or with optional mixing tanks. They can accommodate a variety of power sources to deliver higher volumes at greater pressures for optimum production.

CONCRETE MATERIAL



STANDARD REDI-MIX CONCRETE

Standard Redi-mix Wet Concrete is a product consisting of accurately weighed Portland admixtures and specially graded, coarse and fine aggregates. With mixing, proper consolidation, finishing, and curing, a quality concrete suitable for a variety of uses and strengths will be produced. Available at several branches.

SIKA CONCRETE ADMIXTURES

SIKA® Sikatard 930

Retarding agent which delays initial set of the concrete.

SIKA® Viscocrete 2100

A super plasticising agent which allows for temporary increase of slump characteristics for plasticized concrete.

SIKA Plastocrete 161 ca

A water reducing agent which allows for decreased water/cement ratio mixes, resulting in stronger concrete.

SIKA® SikaAer

An air entraining agent which increases air volume in concrete.

SIKA also provides the **FRITZ-PAK®** lineup of easy to use "toss-in" concrete admixture solutions including:

Air Plus®, Air Minus®, Standard Delayed Set®, Slump Plus® and Slump Buster®



SHOTCRETE EQUIPMENT

MULTICRETE INTEGRAL SHOTCRETE UNIT



This easily transported machine consists of an Aliva dry mix shotcrete machine and a Multicrete Predampener, mounted together on a common frame. The hopper on the Predampener allows for a continuous feed of pre-blended dry mix shotcrete, even during bulk bag changes. The feed auger located under the hopper then feeds a mix auger where water is added to suppress dust and to allow the nozzleman to easily regulate the water at the nozzle.

This unit has both electric and pneumatic power options.



HYBRID-WET® SHOTCRETE CARRIER

The shotcrete carrier includes a dry mix hopper, a wet/dry mix shotcrete spraying machine, and a mixing auger. This mixing auger wets the dry mix as it is conveyed from the dry mix hopper to the shotcrete spraying machine on a common mobile frame.

The shotcrete spraying machine comprises an inlet hopper receiving the wet mix shotcrete from the mixing auger, a rotor with chambers rotatable from a loading position in communication with inlet hopper, and a discharging position in communication with a pneumatic conveying line. The pneumatic conveying line conveys the wet mix shotcrete to a nozzle commonly supported on the mobile frame.

SHOTCRETE EQUIPMENT

MULTICRETE HURON 4 MOBILE CARRIER



The Multicrete Huron 4 shotcrete carrier includes a state-of-the-art Aliva 257 wet/dry shotcrete machine on the rear and an Aliva 302 wet mix shotcrete spraying arm on the front. Additionally, it features enhanced hydraulics, self-contained liquid accelerator storage, and pumping system - all on a Huron 4 transmixer chassis. This compact, maneuverable, tough unit gets the job done!



MULTICRETE MSU 420/302

Multicrete's MSU 420/302 is a complete mobile shotcrete unit with front forks and a shotcrete boom with a reach of over 18 feet!



MULTICRETE RAISE ROBOT

The RAISE ROBOT® is a remotely controlled robotic assembly for the spraying of shotcrete used in shafts and raises of subterranean excavations. Together with the RAISE RANGER®, these robotic units are designed for use in mines and on large civil construction projects. Standard RAISE ROBOTS® are designed for use in raises a minimum of 1.5 metres diameter up to a maximum of 5.5 metres diameter. Spring-loaded retractable arms stabilize the RAISE ROBOT® and allow for undulations along the interior surface of the raise.

In 2008 Multicrete completed a 3.5 metre diameter x 300 metre raise. A second raise, over 400 metres in depth, was completed in 2009.

CONCRETE MATERIAL

RAPID SET CONCRETE MIX



Rapid Set Concrete is a rapid curing, premixed, bagged product used where high early strengths are required. It is ideally suited for cold weather applications. The product consists of accurately weighed Portland admixtures and specially graded coarse and fine aggregates. With the addition of water, thorough mixing, proper consolidation, finishing, and proper curing, quality concrete will be produced that is suitable for a variety of uses.

STANDARD PRE-MIXED DRY CONCRETE

Standard Pre-Mixed Dry Concrete is a bagged product consisting of accurately weighed Portland admixtures and specially graded, coarse and fine aggregates. With the addition of water, thorough mixing, proper consolidation, finishing, and curing, a quality concrete will be produced suitable for a variety of uses.

TOP N' BOND TOPPING CEMENT MIX

This one-part, self-bonding, cement base patching material is specifically formulated for thin-section repairs to existing surfaces. When used as directed, it has superior bonding power to regular sand and cement boxes, and adheres securely to concrete, masonry, and stucco. The material requires only the addition of clean water.

It exhibits the colour of concrete, and may be used on both interior and exterior installations. As the edges feather easily and do not shrink Top 'n Bond develops exceptional strength. The final set is obtained in 4-5 hours, depending on relative surface and air temperature.

CONCRETE EQUIPMENT



SCHWING® CONCRETE PUMPS

Designed to handle today's concrete pumping needs, this Schwing® series concrete pumper is the latest in mobile pumps. With a theoretical output of 38 m³/hr and a maximum pressure of 1100 psi, this is a workhorse to handle all needs. Its twin pumping cylinders will pump up to 1.5 cm aggregates.



PUTZMEISTER® CONCRETE PUMPS

Designed specifically for shotcreting applications, but equally capable of handling concrete jobs, the rugged Katt-Kreter pump features large material cylinders and a 101 horsepower turbo, water-cooled Deutz diesel engine to achieve both high pressure and high volume output. Other added features of this innovative trailer-mounted pump include twin-shifting cylinders, a wider frame for improved towing, lower hopper charging height, and a large 27-gallon (102 L) fuel tank.

MULTICRETE CONCRETE PUMPER SERVICE

At several of Multicrete's branches we offer Concrete Pumping Services to assist with your construction projects. Rapid concrete placement saves time and money. Contact us for availability and pricing.



Multicrete sells concrete and shotcrete pump equipment and also offers concrete pumper service at several locations.

SHOTCRETE EQUIPMENT



MULTICRETE PORTABLE MIX STATION

The ideal shotcrete mixing solution for underground applications. This unit will accept dry, pre-mixed shotcrete, mix it to exact water/cement ratio and load it into an awaiting Transmixer for transport to application site.



MULTICRETE UNDERGROUND STORAGE & MIXING STATION

Multicrete specializes in designing and manufacturing underground shotcrete storage and mixing stations which can provide solutions to your underground shotcrete needs. Whether it is a wet or Hybrid-Wet® end product, Multicrete can get you up and producing.



MULTICRETE PORTABLE LOAD-OUT STATION

A totally portable load-out station capable of receiving bulk shotcrete bags or cassettes. Infeed hopper & auger move material to the feed auger for carrier loading. This unit can be set up in several locations.



MULTICRETE BULK SHOTCRETE TRANSPORT

The perfect bulk dry premixed shotcrete solution - transportation and delivery systems for bulk shotcrete product right to your door! The augering system will deliver product to your storage station.

MATERIAL & ACCESSORIES

SHOTCRETE NOZZLES AND PARTS



We stock a complete line of nozzles, bodies, hose, clamps, and additional parts to fill your shotcreting needs.

We also stock a complete lineup of wear plates, rotors, and other parts for most Aliva equipment.

SHOTCRETE MATERIAL



We stock and carry a variety of shotcrete materials, including:

MEGASTICK® DRY & WET

Shotcrete mixtures

XPR SHOTCRETE

For cold temperature application.

FLASH-SET SHOTCRETE

For applications requiring rapid set times.

Additionally, Multicrete has the ability to add any number of shotcrete additives to the mix design:

DRAMIX® STEEL FIBER

A steel fiber to enhance durability and strength

MULTICRETE SHOTCRETE SET ACCELERATOR

Chloride-free designed for use with shotcrete

Multicrete manufactures shotcrete in a variety of packaging options: bulk, bulk bags, or bulk cassettes - tailored for you.

CONCRETE EQUIPMENT

CELLULAR CONCRETE MIXING SYSTEM



This high volume Cellular Concrete Production Plant consists of a 5 ton dry cement bin which feeds a 1 cubic meter colloidal mixer. From the mixer, the material discharges into a 3 cubic meter agitator hopper.

The hopper feeds a Moyno pump, which conveys the material through a static mixing system, where the foam is added. The Autofoam Generator is capable of producing twenty 100-cubic meters per hour. This system can be operated manually, through touch screen controls or completely automatic via PLC. A wide range of densities, from 5 pcf to 120 pcf, can be produced.

CEMENTED ROCK FILL SLURRY MIXER 680



The CRF Slurry Mixer is a PLC-controlled single drum, high speed, high-shear unit designed for the efficient production of cement based slurries. The product produced exhibits colloidal properties and is nearly immiscible in water.

The machine can handle cement/sand ratios up to 1:3 by weight and produce pumpable mixtures. It will mix a wide range of materials such as cement: P.F.A., Pre-blends, Bentonite, lime or chemicals.

Multicrete manufactures several lines of foam products including Multicrete Foaming Agent and Multi-Foam®, Multicrete's special proprietary foam product.