

## U.S. Chemical Climate Controlled Storage

U.S. Chemical Storage® manufactures customizable storage units for hazardous materials and chemicals at specific temperatures or within specific temperature ranges. Unit types include air-conditioned, refrigerated, and heated buildings. Units can maintain chemical integrity at 35°F (2°C) or above 175°F (79°C), as required. Storage buildings are constructed with built-in secondary containment to meet 40CFR, NFPA 30, and other regulations to ensure that hazardous materials are stored safely.

—U.S. Chemical Storage, [www.uschemicalstorage.com](http://www.uschemicalstorage.com)



## Brokk C20 Rock Splitter

Brokk's® C20 Rock Splitter is available with two vertical options, from 64 to 72 in. (1626 to 1829 mm) long, as well as two horizontal options, from 70 to 83 in. (1778 to 5359 mm) long. Manufactured by Brokk's German sister company, Darda®, the splitter can quickly break large boulders and solid rock in mining and shaft sinking applications as well as cross passage work in tunneling. Users drill a 3 in. (76 mm) diameter hole into the rock with a separate attachment before inserting the splitter. The attachment expands with as much as 1800 tons (1630 tonnes) of force, splitting the rock. It provides users with an alternative in areas where disruptive demolition techniques are not allowed, such as near hospitals.

—Brokk Inc., [www.brokk.com](http://www.brokk.com)



## Blastcrete MX-20MT

Blastcrete Equipment Company's MX-20MT mixer/pump can be used for shotcrete and refractory work applications. The machine provides twice the output of Blastcrete's MX-10 mixer/pump, but with nearly the same compact footprint. It's mounted to a single-chassis trailer for convenience and easy transportation, setup, and cleaning. The MX-20MT features a 1.1 ton (1 tonne) mixer with a high-speed hydraulic agitator that keeps materials blended and in suspension as it flows to the 4 in. (102 mm) swing-tube piston pump. The pump operates with up to 2200 psi (15 MPa) pumping pressure for consistent installation of as much as 22 tons/h (20 tonnes/h) of material. The unit can vertically pump refractory material more than 300 ft (91 m). Users can load the hopper with as much as 2500 lb (1100 kg) of material.

—Blastcrete Equipment Company, [www.blastcrete.com](http://www.blastcrete.com)

## Lignomat Concrete Moisture Meters

Lignomat offers three relative humidity (RH) in-place concrete moisture meters as well as pin and pinless concrete moisture meters. The in-place probes measure RH at the midsection of a concrete slab. Handheld pin/pinless meters should only be used to show high and low moisture areas and not to determine whether resilient floor coverings should be installed. The in-place meters use reusable, removable RH BluePeg probes. Each probe comes with a single microchip, factory calibrated to NIST standards, and a NIST traceable certificate. Meters and probes comply to ASTM F2170. RH and temperature values are displayed with a resolution of 0.1% and 0.1°F (or 0.1°C), respectively.

—Lignomat, [www.lignomatusa.com](http://www.lignomatusa.com)



## IROCK Crushers TS-522 TDR

IROCK Crushers redesigned its TS-522 TDR track portable screening plant to include a rinser. The machine sorts and washes as many as three sized and one oversized aggregates at once, making it useable for medium- to large-scale operations. The unit processes 200 to 300 tons (181 to 272 tonnes) per hour and features three decks with nine spray bars along the top deck and eight each on the middle and bottom decks. The spray bars' brass heads deliver 25 psi (0.2 MPa) of water pressure. Users can rotate the spray bars to change the angle of incidence of the spray, to either hold aggregates on the screen longer or force aggregates through the screen media. The TS-522 TDR includes a rinse box at the top of the unit that features two additional spray bars. These spray bars pre-soak material to facilitate faster and easier removal of tough mud and clay as the material reaches the screen decks.

—IROCK Crushers, [www.irockcrushers.com](http://www.irockcrushers.com)

## BPS Bulk Bag Dischargers

Bulk bag dischargers from Best Process Solutions, Inc. (BPS) provide dust-free product discharge from bulk bags. These dischargers are expandable and flexible to meet discharging and bulk bag requirements. They are available in three models: MTD-2.5K for unloading large bulk bags up to 2500 lb (1100 kg); Model MTD-4K for very large bulk bags up to 4000 lb (1800 kg); and heavy-duty Model BBD-4K with vibratory motor agitation to assist in unloading hard-to-remove products.

—Best Process Solutions,  
[www.bpsvibes.com](http://www.bpsvibes.com)



## Manitou Group MRT 3050 and MRT 2470

Manitou Group's MRT 3050 and MRT 2470 models complement a wide range that is suited for high-rise construction work. The MRT 3050 can lift 5 tonnes (5.5 tons) and has a maximum lifting height of 30 m (98 ft). Stabilizers have a deployment length of up to 6.25 m (20.5 ft) and are fitted with a strain gauge system, which ensures accurate and secure detection of pressure of the stabilizers on the ground. Equipped with a two-ratio hydrostatic transmission, the MRT 3050 has a maximum speed of 40 km/h (25 mph).

The MRT 2470 is a rotating telehandler with a boom reach of 24 m (79 ft) for a load-bearing capacity of 7 tonnes (7.7 tons). With its hydrostatic "shift-on-fly" transmission option, this model allows the operator to choose between a manual or automatic gearbox. With two ratios, the maximum speed of the MRT 2470 is 40 km/h. Cab access is facilitated with a wider footboard aligned with the cabin. Optionally, the electronic stairway provides an extra step that slides out when the stabilizers are deployed.

—The Manitou Group,  
[www.manitou-group.com](http://www.manitou-group.com)

## Rhino Linings ThermalGuard OC1.6

Rhino Linings' ThermalGuard™ OC1.6 is a water-blown, high-yield, hybrid cell spray polyurethane foam insulation. The hybrid cell chemistry of ThermalGuard OC1.6 contributes to its impressive yield. When applied, it expands to 25 times its size in about 12 seconds. The insulation can be safely applied in lift thickness of up to 2 in. (51 mm). ThermalGuard OC1.6 is a high-performance building envelope insulation system designed for use in residential and commercial structures, and it can be used to provide exterior foundation, perimeter, tank, or pipe insulation.

—Rhino Linings Corporation, [www.rhino linings.com](http://www.rhino linings.com)

## Web Notes

### Tarlton Launches New Website

Tarlton Corp.'s redesigned website was created with user experience in mind, offering enhanced content, improved functionality, quick access to essential information, and insight into the company's capabilities. The website features photographs and a comprehensive overview of Tarlton. It also features a filter that allows visitors to search projects by size, market type, or specific attributes such as LEED-certification or historic renovation.

—Tarlton Corp., [www.tarltoncorp.com](http://www.tarltoncorp.com)

## Book Notes

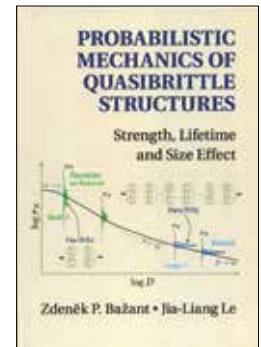
### *Probabilistic Mechanics of Quasibrittle Structures*

by Zdeněk P. Bažant and Jia-Liang Le

Quasibrittle (or brittle heterogeneous) materials include concrete, rock, fiber composites, sea ice, wood, and stiff soils. Their salient feature is that the fracture process zone size is non-negligible compared to the structural dimensions. This causes intricate energetic and statistical size effects and leads to size-dependent probability distribution of strength, transitional between Gaussian and Weibullian. *Probabilistic Mechanics of Quasibrittle Structures* includes probabilistic fracture kinetics at nanoscale, multiscale transition, statistics of structural strength and lifetime, size effect, reliability indexes, and safety factors. The book provides readers with a comprehensive collection of experimental data on strength and lifetime statistics of quasibrittle materials. It also provides realistic approximations for design and will appeal to researchers and engineers from different disciplines.

—Cambridge University Press, [www.cambridge.org](http://www.cambridge.org)

Price: \$140; 316 pp.; ISBN: 9781107151703



## Products & Service Literature & Videos

### Enerpac Tools for Bridge Maintenance Brochure

The brochure, "Tools for Bridge Maintenance," details Enerpac's offering of hydraulic tools designed to assist in a variety of bridge maintenance activities, including lifting bridge decks for bearing replacement or repositioning. The brochure also provides information on hollow rams designed to pull on bolts, rods, and cables during installation and testing; rams used for pile testing or transferring loads to and from temporary structural supports; and hydraulic torque wrenches and hydraulic nut cutters used in the assembly and replacement of chords in steel bridges.

—Enerpac, [www.enerpac.com](http://www.enerpac.com)

