



BREAKER TECHNOLOGY

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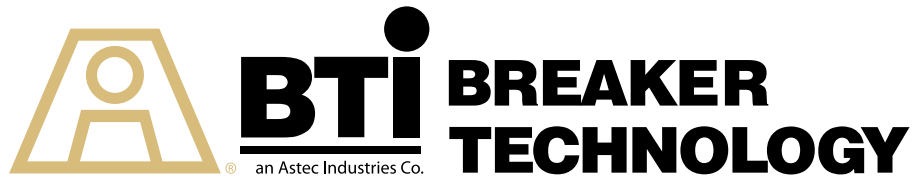
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Founded in 1958, Breaker Technology (BTI) is one of the select few Canadian equipment manufacturers to service the mining, construction, demolition, and aggregate industries for such a lengthy period of time. BTI's origins started in 1958 as JMG Manufacturing Ltd. In 1967, Teledyne Industries purchased JMG and continued to develop a broader line of applications for core products under the Teledyne CM banner. In 1999, to further BTI's creation, Teledyne CM was acquired by Astec Industries, as a natural addition to their aggregate and mining group. Renamed as Breaker Technology, the company has continued to lead the way in equipment and services for the construction, aggregate and mining industries. Today as part of the Astec family of companies, BTI is renowned for high performance, unparalleled experience and product support through a comprehensive sales and service network which includes manufacturing, sales and warehouse facilities in Thornbury, Ontario, Canada; and US service and warehouse facilities in Solon, Ohio and Riverside, California; along with a network of strategically located distribution and service outlets worldwide.

BTI's specialty applications range from primary and secondary sites involved in construction, demolition or recycling, to quarries and underground mining operations such as scaling and explosives loading. With its known reputation of engineering products with the most advanced technologies available, BTI's equipment results in systems that are remarkably easy to use. To stay in sync with the ever changing market trends and to keep ahead of its competitors, Breaker Technology looks at five market sectors including Mining, Aggregate, Construction, Demolition and Recycling. Each market Breaker Technology serves has similar needs; therefore, the company works hard to offer the largest range of Rockbreakers in the world and has become the leader in Rockbreaker development by implementing reach, lift capacity and Smart Boom capabilities. As the Mining industry heads toward customizable equipment that has greater efficiency, durability, and long life cycles, BTI knows that manufacturing equipment success is all about achieving higher production levels. Fortunately BTI has been a custom manufacturer throughout our existence who listens to the customer and we have developed products that will provide a solution to the situations at hand.

BTI builds portable and stationary rockbreaker systems, mobile rockbreakers, scalers, scissor lifts, crane trucks, lube trucks, ANFO loaders, shotcrete remixer, dedicated trucks, cassettes and multi-purpose equipment as standard. Plus the Mine Runner APV – all purpose vehicle which is available in different configurations. Variation being its core strength, BTI can build to meet your needs to allow lower maintenance costs, lower profiles, or any envisioned features that help you to get the job done, safely and productively. BTI's depth of engineering experience combined with a dedicated and professional support network makes BTI your smart choice for mining and aggregate equipment.

BTI has been ISO 9001 certified since 1998. In 2010 we received our Environmental Management System registration ISO 14001. Our shop and welders are Canadian Welding Bureau certified since 1991. These programs are important to any continuous improvement strategy and proudly we have been working hard to maintain our certification over the last several years.

BTI continues to look at where the world market is going in regards to technology and is in the process of developing new products that will provide customer solutions. All of these products will not only enhance our offering to the customer, but provide them with a product that will be a solution provider and be reliable, durable and built with longevity in mind. BTI looks forward to working together with our customers, providing solutions for a sustainable future.

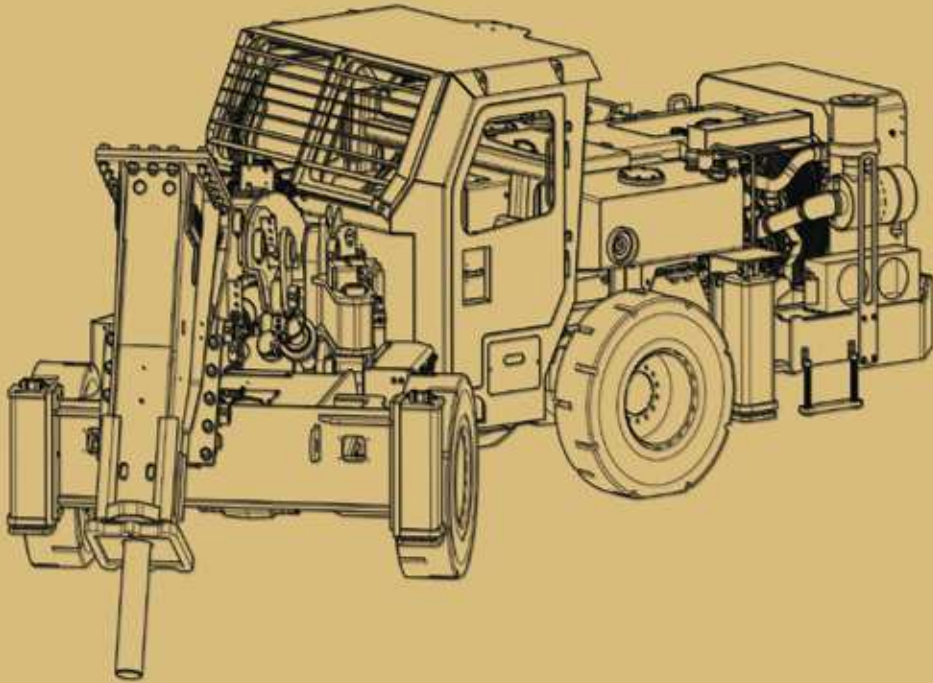
**SOLON
OHIO**



**RIVERSIDE
CALIFORNIA**



MOBILE EQUIPMENT



RMS18 Scaler



RMS18 Scaler



The **RMS Mine Scaler** combines the ruggedness of current BTI equipment and the flexibility of our stationary boom systems. By combining the strengths of both technologies, BTI has created a highly maneuverable machine and boom that can reach multiple scaling faces and positions with a single set-up.

BTI's Revolutionary **Vibratory Pick Scaling Head** attachment on our **VPS Scaler** brings mechanical scaling to a new level by combining the action of a pry-bar, pick and breaker into a simple robust attachment. This increases productivity while reducing operator fatigue and stress to the carrier.

BTI's **HFS (Hammer Feed Scaler)** Series of Underground Scalers are engineered to provide a safe and efficient method of mine scaling. They offer flexibility to deal with virtually all scaling situations, the maneuverability to work in tight quarters, and the variable breaker power to match your scaling requirements.

VPS Scaler



HFS Scaler



TM15XH MOBILE ROCKBREAKER w/ BXR85



TM15 XH

TM Series - LP15 Mobile Rockbreaker is a heavy duty, low profile vehicle specifically designed for breaking oversize in underground applications, with rugged construction and optimum breaker performance. The TM12 ARN (Narrow) comes with breaker options of a BX20 or a BX30. The TM15 ARW (Wide) comes with breaker options of a BXR50 or a BXR65. The TM15 XH (Extra Heavy) comes with a BXR85 breaker. Cab options available.



TM12 ARN



TM15 ARW



Crane Truck



Breaker Technology's Mobile Mining Trucks come as complete units or as Base Carriers with multiple cassette options.

The MPV Cassette Series has been designed and developed for use as a modular, multi-purpose underground "workhorse". The MPV series advances our proven "single carrier solution" to work with easy quick change variable cassettes without sacrificing working end durability or function.

MPV CASSETTE SERIES

- MPV-FL Fuel Lube Cassette
- MPV-SCT Shotcrete Remixer Cassette
- MPV-PC Personnel Carrier Cassette
- MPV-CV Crane Cassette
- MPV-MS Mechanics Service Cassette
- MPV-SL Scissor Lift Cassette
- MPV-FT Fuel Transfer System Cassette

Crane Truck



Scissor Lift Truck



Shotcrete Truck



Emulsion Loader



Anfo Loader



EMULSION AND ANFO LOADERS

Long Life, Solid Stainless Steel Tanks in single and double tank layouts - available from 600 lbs to 2,000 lbs capacity. Single, or dual discharge is available from each port. There are three Coverage Options available with 4.5, 9, and 14 foot extension booms or an extendable scissor platform for various face loading requirements. Two-person man basket positions the workers so that blast hole charging is done safely and efficiently. Four heavy duty stabilizers provide positive boom stability.

Fuel Lube Truck - A mobile service station engineered to provide a range of fuel, oil and lubrication services.

Environmental fully enclosed 2 person Cab, ROPS/FOPS certified. Available for MPV LP12 Base Carrier Cassette Systems or Dedicated trucks.

Fuel Lube Truck



Environmental Cab on a LP12 Scissor Lift



MINE RUNNER APV



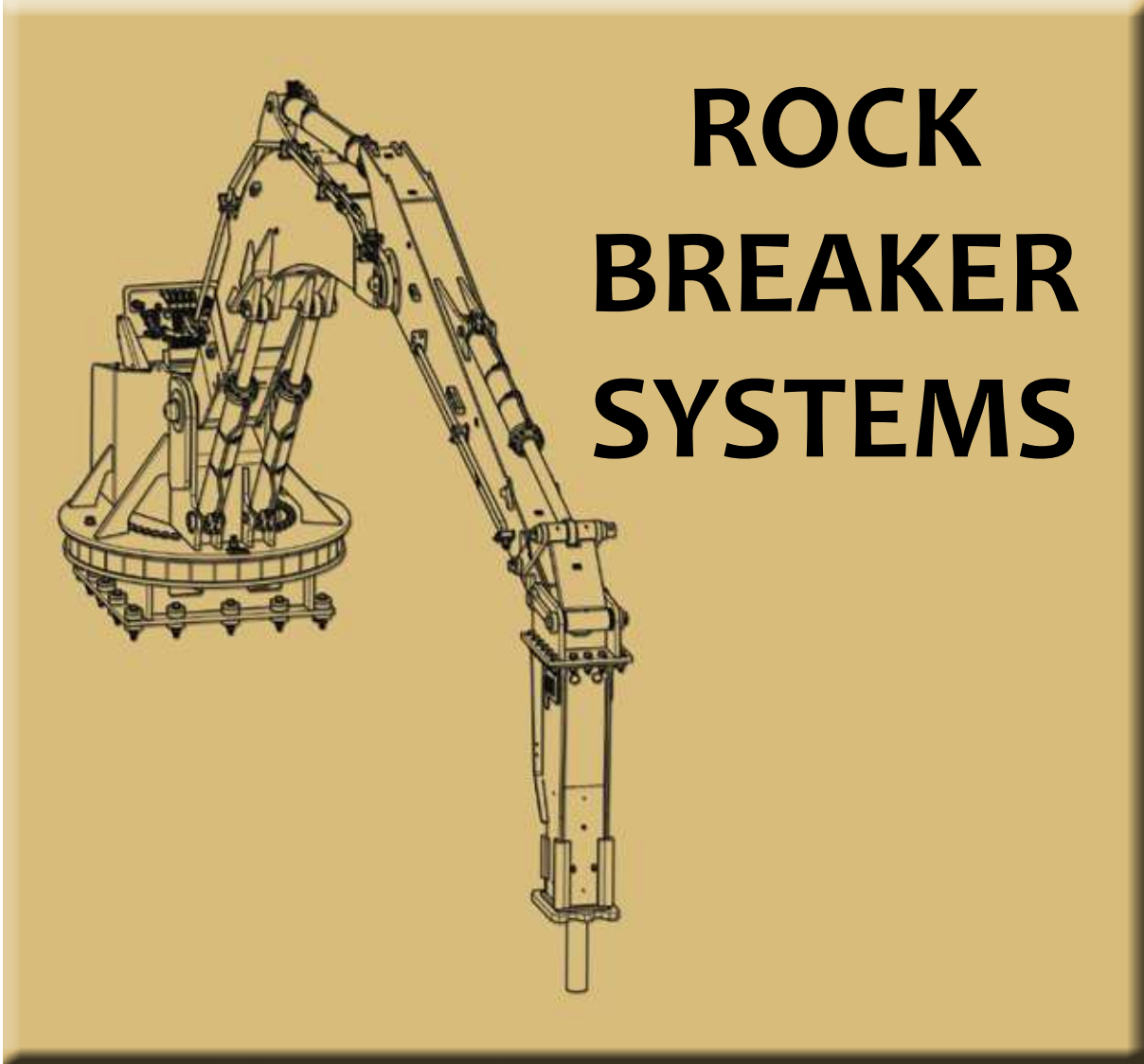
Breaker Technology's **MINE RUNNER All Purpose Vehicle** is a modern day solution for a future focused mining operation, aimed at safety, lower emissions, and increased productivity. The Mine Runner has Hydraulic Wheel Drive (HWD) motors, providing greater power and extended maintenance and duty cycles.

Engineered from the ground up to be a leader in personnel safety and operational flexibility. Standard on the Mine Runner is a rigorously tested and independently certified ROPS/FOPS operator cabin. The ever increasing payload requirements and tramming distances have exceeded the capabilities of the typical repurposed highway 4x4 style truck. Unlike many over the road type vehicles being modified for use underground, the Mine Runner is purpose designed and built for the underground environment.

Powered by our innovative "Hydraulic Wheel Drive" or "HWD" fluid controlled power train, the Mine Runner is capable of easy customization to optional configurations without hindering performance or longevity of components.



MINE RUNNER All Purpose Vehicle





industries since 1958. Our experience has taught us that information and partnerships combined with high quality equipment provide the best results. As such it's vital to consider several important factors when choosing your next pedestal rock breaker system.

BTI (Breaker Technology) has been supplying products and services specifically designed to meet the demanding needs of mining and quarry industries since 1958. Our experience has taught us that information and partnerships combined with high quality equipment provide the best results. As such it's vital to consider several important factors when choosing your next pedestal rock breaker system.

Breaker Class

Breaker power required is determined by the hardness, toughness and size of material to be broken. The size of your crusher or grizzly also affects the selection size of breaker.

Boom Model

The boom you choose to carry the selected breaker depends on its ability to provide full coverage of the area where material will require breaking, racking or clearing.

Power Packs

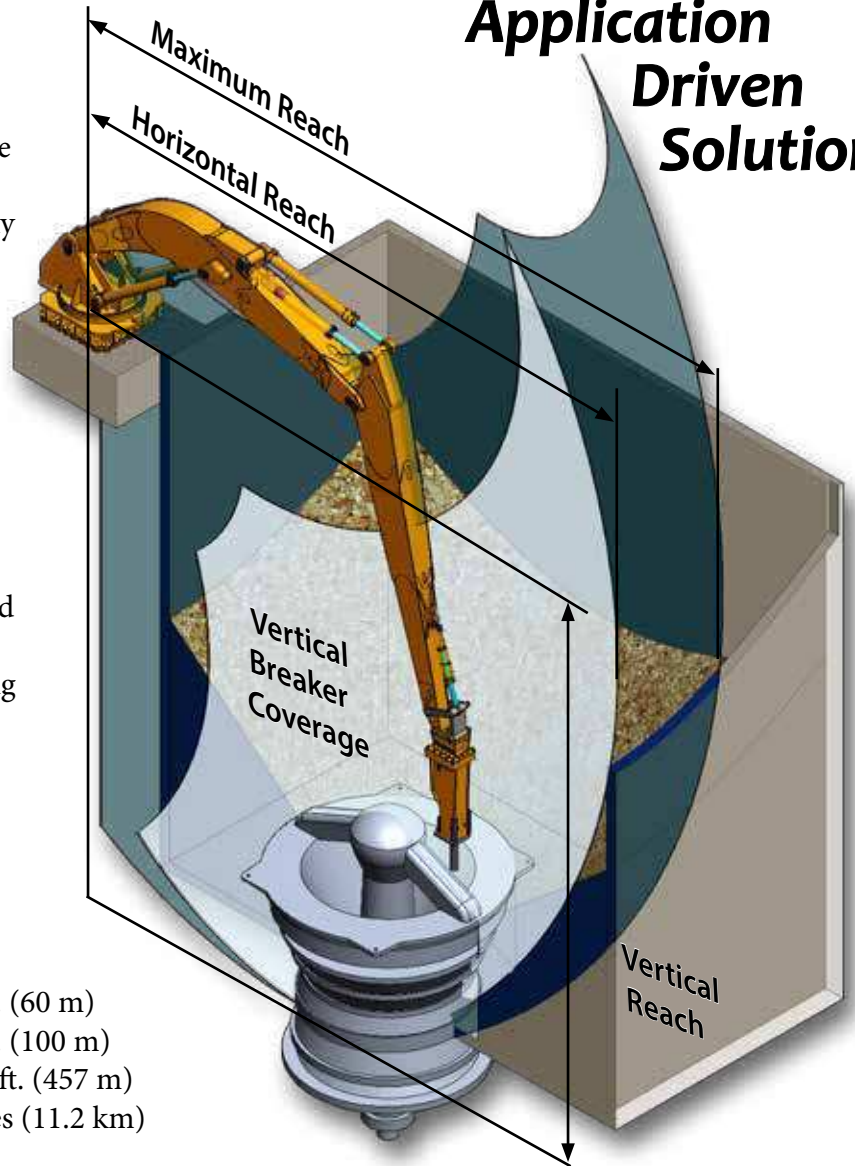
Power packs are matched to the hammer and boom to achieve optimal performance and reliability, based on your particular operating circumstances.

Controls

Our systems offer flexibility that allows for safe, effective operation from almost anywhere:

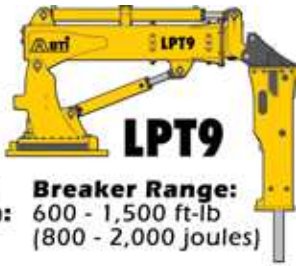
- Electric-hydraulic controls: 200 ft. (60 m)
- Radio remote control: 325 ft. (100 m)
- Camera assisted coaxial cable: 1,500 ft. (457 m)
- Fiber optics: 7 miles (11.2 km)

Application Driven Solutions



BTI will assist you in fine tuning your selection with the creation of an in-house site layout and related engineering package. To aid in good planning and cost control, our technicians can advise about service personnel, hoist crane requirements and installation considerations from electrical to hydraulic systems. In addition, BTI can recommend on any local support you may need. Contact BTI or its Authorized Dealer and lets us provide you with a complete solution.

ROCKBREAKER SYSTEMS for Mobile, Stationary and Light Grizzly applications



LPT9
Boom Reach: 10 ft (3 m)
Breaker Range: 600 - 1,500 ft-lb (800 - 2,000 joules)



MBS12H
Boom Reach: 12 ft (3.6 m)
Breaker Range: 1,000 - 3,000 ft-lb (1,350 - 4,100 joules)



PB12H
Boom Reach: 12 ft (3.6 m)
Breaker Range: 1,000 - 3,000 ft-lb (1,350 - 4,100 joules)



NT
Boom Reach: 12 - 24 ft (3.6 - 7.3m)
Breaker Range: 1,000 - 3,000 ft-lb (1,350 - 4,100 joules)

LPT9 / MBS / PB12H / NT

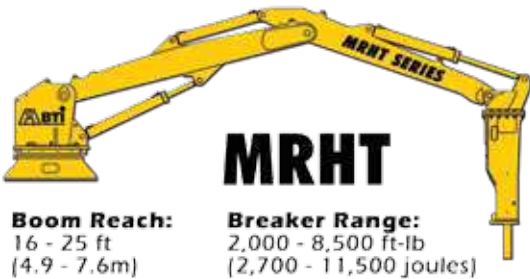
ROCKBREAKER SYSTEMS for Stationary, Standard Grizzly and Light Gyratory applications



MRH

Boom Reach:
16 - 30 ft
(4.9 - 9.1m)

Breaker Range:
2,000 - 8,500 ft-lb
(2,700 - 11,500 joules)



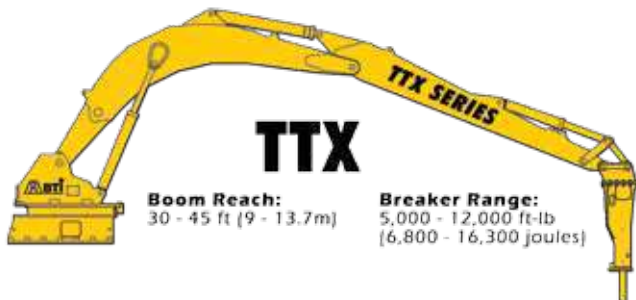
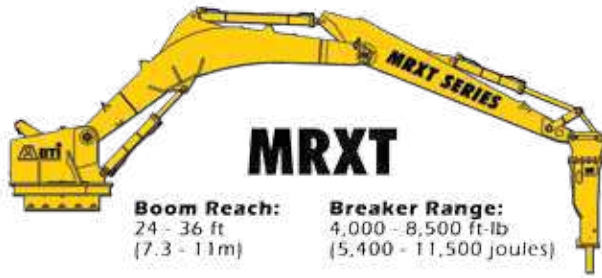
MRHT

Boom Reach:
16 - 25 ft
(4.9 - 7.6m)

Breaker Range:
2,000 - 8,500 ft-lb
(2,700 - 11,500 joules)

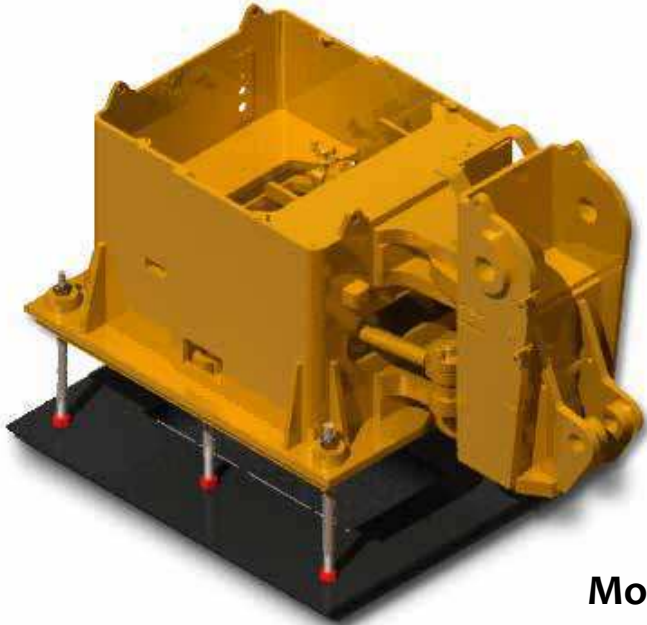
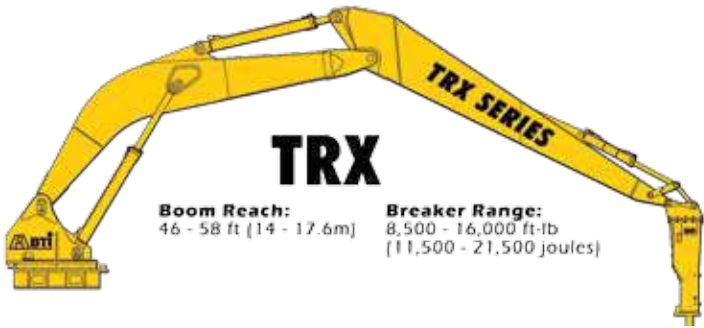


ROCKBREAKER SYSTEMS for Heavy Grizzly and Standard Gyrotory applications

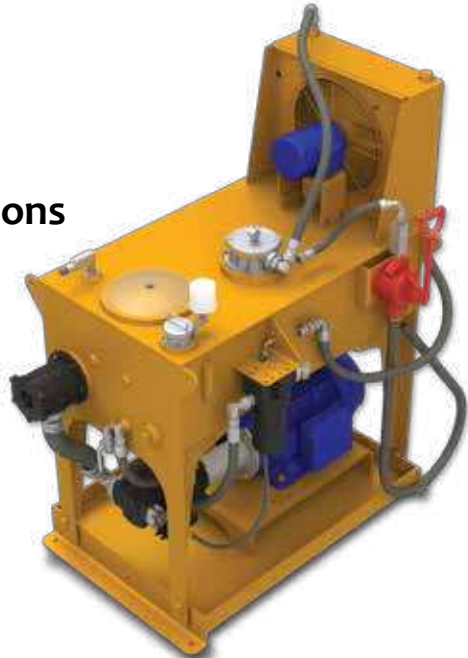


MRXT / TTX

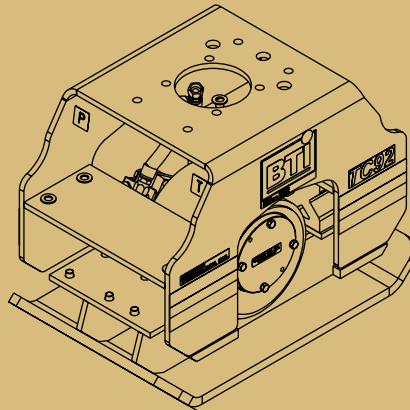
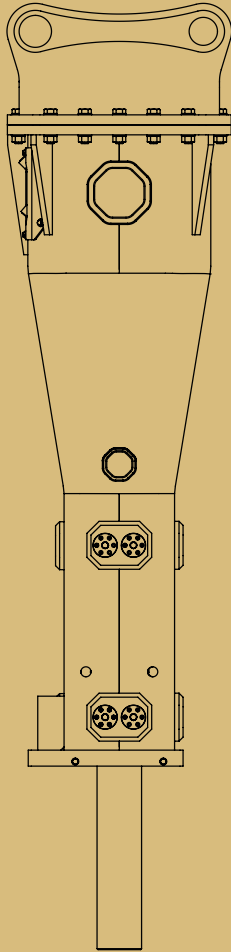
ROCKBREAKER SYSTEMS for Heavy Gyrotory applications



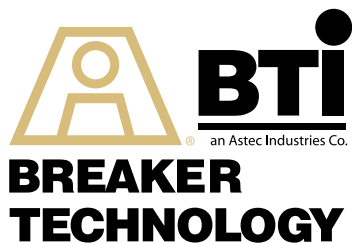
- Mounting Options
- Operator Cabin
- Power Pack Options
- Control System Options



HYDRAULIC BREAKERS & COMPACTORS



BX / BXR SERIES HYDRAULIC BREAKERS



The design of the **BX Series of Hydraulic Breakers** produces stable high-speed percussion, and exceptional value and durability for all construction, demolition, and rockbreaking requirements.

- Breaker mounted manual high / low stroke selector (BX8-BX40); improves production capability.
- Long stroke piston design; provides high levels of constant blow energy.
- Anti-blank fire on / off selector (BX8-BX40); alternate modes when operating in varying rock conditions.



BTI's **BXR Series of Hydraulic Breakers** offer outstanding power to weight ratio, and exceptional efficiency with the oil regeneration system. Overall system designed for harsh, continuous duty for use in demanding rock breaking applications.

- Two speed hydraulic pilot power control; controls blow energy in varying material conditions.
- Oil regeneration system; increases bpm's without decreasing energy in harder material applications.
- High volume nitrogen charged accumulator; provides constant blow energy and recoil absorption.
- Extra-long stroke pressure balanced piston in conjunction with oil regeneration system; optimizes impact energy and bpm's.
- Button nose piston design; maximizes energy transfer to the tool.
- Anti-blank fire interlock; protects front head and retainer pins.

BXR185 HYDRAULIC BREAKER



The **BXR185 Hydraulic Breaker** shares all the same features and benefits as the BXR Series. But along with being designed for rugged, continuous duty in demanding breaking applications and the BXR185 also offers an extra long stroke balanced piston design, which improves the power-to-weight ratio, providing the widest carrier and power available.



BXR185

TC SERIES HYDRAULIC COMPACTORS

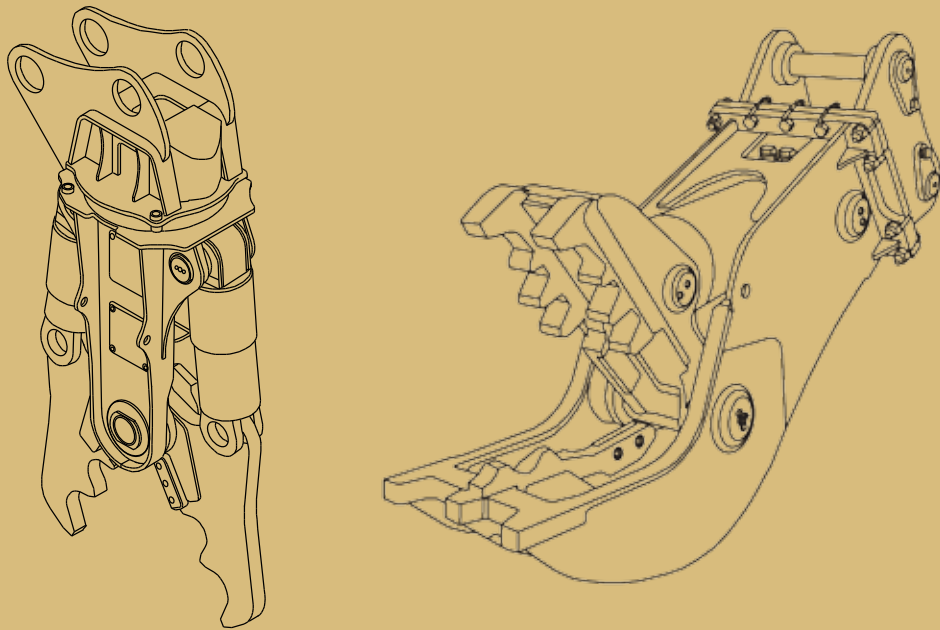
The unique design of Breaker Technology's **TC Series of Hydraulic Compactors** delivers high impulse energy for superior compaction. Five models satisfy a wide range of compaction applications and customer needs.

- High performance
- Low maintenance
- Oil bath lubrication
- Rubber Isolators
- Bracket options
- Swivel top mount
- Universal adjustable boss



TC COMPACTORS

DEMOLITION ATTACHMENTS





Rotating Multi-System



The MS Multi-system is a versatile product suitable for both primary and secondary demolition. This attachment consists of a main structure, the machine body, to which it is possible to mount different types of jaws transforming the Multisystem into a specific attachment for the demolition of structures, the reduction and fragmentation of material up to the cutting of ferrous materials.



CR Series: Hydraulic Crusher & Rotating Hydraulic Crusher



The CR demolition crusher attachment is made for primary demolition. The hydraulic demolition crushers are ideal for demolishing or removing building structures in reinforced concrete, for the quality, efficiency and accuracy of the work carried out.





MCP & MCP-IT Hydraulic Pulverizer

The MCP and MCP-IT Series fixed pulverizer is ideal attachment for secondary demolition or rather for the work of reduction and fragmentation of the demolished material making disposal and recycling easier by separating the reinforced iron from the reinforced concrete.



RP & RP-IT Rotating Hydraulic Pulverizer

The RP-IT Rotating Pulverizer is the ideal attachment for many different types of work: it is suitable both for the real and proper primary demolition as well as for the following operations of reduction and fragmentation of the material which has been demolished making disposal and recycling easier.



Shear Eagle II



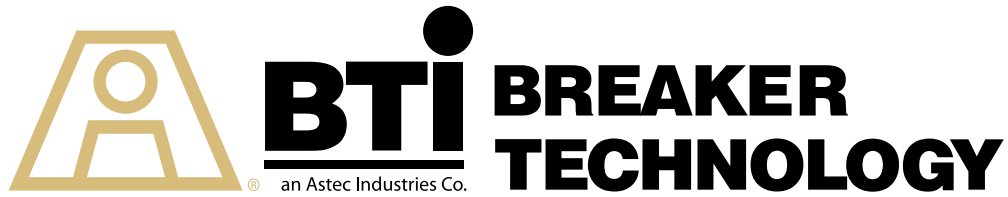
The Shear EAGLE II range of hydraulic, fully rotating scrap shears. Dedicated shears for many different areas of operation, including demolition of steel structures, processing steel in scrap applications and others.

Offering more productivity through increased power, a new jaw geometry, and all new blade designs. The blades can be changed quickly and easily, minimizing machinery downtime, optimizing productivity.

The EAGLE II range are all fitted with power valves to maximize cycle times and provide maximum effort when needed. Manufactured from the highest grade steels, ensuring the maximum tool strength, with the best possible wear resistance.



SHEAR EAGLE II



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