ASTEC AGGREGATE & MINING

GLOBAL PROCESSING SOLUTIONS









ASTEC AGGREGATE & MINING

UNMATCHED EXPERIENCE

Astec Aggregate & Mining is your gateway to the most extensive and unique network of industry experts supporting the Telsmith, KPI-JCI & Astec Mobile Screens, Osborn, and Breaker Technology brands. These dedicated product champions provide unparalleled expertise of crushers, mills, sizers, feeders, screens, breaker systems, mobile mining vehicles, washing and classifying equipment, material handling equipment, and track/mobile equipment.





INTEGRATED SOLUTIONS

The broadest product offering can be integrated as your one source in the aggregate and mining industries to address virtually every process and meet any challenge within your operation. Our team of application engineers thoroughly analyze your specific requirements to design a complete engineered stationary, modular, portable or mobile system that performs with optimum efficiency.

TABLE OF CONTENTS

INTRODUCTION2
TABLE OF CONTENTS
BTI BREAKER TECHNOLOGY4
KPI-JCI & ASTEC MOBILE SCREENS5
OSBORN6
TELSMITH7
GLOBAL PRODUCT SUPPORT NETWORK

MINING VEHICLES9

Explosive Loaders Underground Scalers Shotcrete Systems Mobile Rockbreakers MPV (Multi Purpose Vehicle) MINE RUNNER - APV

SCREENS......13

Buzzer Screens Conventional Incline Screens Low-Profile Incline Screens Horizontal Screens Multi-Angle Screens Obex Screens Heavy-Duty Scalper High Frequency Screens

CRUSHERS17

Crushers – Cone SBS Cone Crushers T-Series Cone Crushers Gyraspheres Kodiak[®] Plus Cone Crushers LS Cone Crushers

Crushers – Impact Andreas Horizontal Shaft Impactors New Holland Horizontal Shaft Impactors Vertical Shaft Impactors

Crushers – Jaw Double Toggle Jaw Crushers Overhead Eccentric Jaw Crushers

Crushers – Roll Rolling Ring Crusher Double Roll Crusher Crushers – Rotary Rotary Coal Breaker

Belt Feeders Pan Feeders Vibrating Feeders Apron Feeders

ROCKBREAKER SYSTEMS......25

Rockbreaker Systems

Portable Crusher Rockbreaker System Primary Jaw Rockbreaker Systems Static Grizzly Rockbreaker Systems Primary Gyratory Rockbreaker Systems HYDRAULC BREAKERS BX Series BXR Series

WASHING & CLASSIFYING29

Blademills Classifying Tanks Coarse Material Washers Fine Material Washers Fine Recovery Systems Log Washers Screening/Washing Plants Skid-Mounted/Portable Classifying Systems Super Scrubber

MATERIAL HANDLING33

Feed Systems Mobile Truck Unloaders Rail-Mounted Shiploaders Portable Stacking Conveyors Pugmills Stackable Conveyors Telescoping Conveyors Tracked Stockpiling Radial Telescopic Shiploaders Direct Feed Shiploaders Custom/Stationary Conveyor Systems Mobile Reclaim Hoppers Hopper Feeders

Modular Plants Portable Plants Global Track Plants Fast Trax Plants QuarryTrax FastPack

PRODUCT LISTING MATRIX42





BREAKER TECHNOLOGY

Breaker Technology (BTI) has been a manufacturer of a wide range of mining, quarry and construction equipment since 1958. We specialize in stationary and mobile rockbreaker systems and hydraulic breakers for breaking oversize rocks at primary crushers, grizzlies, drawpoints and stopes. BTI also produces a full line of rugged, low-profile, underground utility vehicles including mobile scalers, scissors lifts, crane trucks, lube trucks, ANFO & Emulsion loaders, shotcrete remixers and placers, cassette systems and personnel vehicles. Well-recognized as a leader in global mining and quarry markets, BTI offers unparalleled experience and product support through its network of strategically located international distributors.

- Mobile Mining Equipment
- Rockbreaker System
- Hydraulic Breakers





KPI-JCI AND ASTEC MOBILE SCREENS

KPI-JCI and Astec Mobile Screens is a premier worldwide manufacturer for the aggregate, construction, paving and recycling industries. As an innovative, high-integrity manufacturer, KPI-JCI and Astec Mobile Screens develops quality, state-of-the-art products and has the ability to engineer custom products because of a highly-qualified engineering staff. The team at KPI-JCI and Astec Mobile Screens is dedicated to more than just manufacturing the industry's best crushing, screening, material handling and washing and classifying equipment. The company emphasizes customer support, providing support before, during and, most importantly, after the sale, ensuring its equipment stays up and running with genuine parts and industry-leading service.

- Material Handling Systems
- Crushers
- Screens

 Track-Mount Equipment
 Washing and Classifying Equipment







OSBORN

As the leading name in mining and quarry markets, Osborn provides a full range of engineering products from concept and installation through to commissioning. Osborn has a rock-solid reputation as one of South Africa's foremost materials handling contractors. Osborn has a continuous devotion to meet the needs of its customers. Purchasing the equipment from Osborn is only the start of a long-standing relationship with customers.

- Crushers
 Modular Plants
 - • Feeders
 - Screens





TELSMITH

Every member of Team Telsmith is focused on utilizing advances in technology and adhering to stringent quality standards in providing integrated processing solutions to customers in aggregate, mining, industrial or recycling industries throughout the world.

Telsmith consistently demonstrates a commitment to customer needs throughout the product lifecycle. Standing strong for over a century on our core values: Honesty, Integrity and Quality.

- Cone Crushers
 Jaw Crushers
 Vibrating Equipment
 - Portable Plants
 - Track Plants
 - Modular Plants

GLOBAL PRODUCT SUPPORT NETWORK

Our international product support team of field applications engineers, parts and service representatives and factory-trained local dealers are strategically located around the globe providing a world-class product life-cycle program. We work at your side to understand and help you plan for the unique market challenges you face by providing local training and product support to minimize downtime.

Million and



EXPLOSIVE LOADERS

The BTI ANFO and Emulsion Loading Systems are a complete line of modules designed for various short or long hole explosive loading and are available with single or dual charging vessels for various capacities. Three sizes of telescopic man basket booms allow the operator to reach the whole face with a single setup. Loading vehicles are also available with scissor lifts or flat decks to facilitate loading. The removable charging vessel option and explosive storage boxes make this vehicle user friendly to both the operator and maintenance crew.

UNDERGROUND SCALERS

Breaker Technology Scalers safely perform scaling operations in mines and tunnels. Hydraulic breakers provide precise control for directional scaling of back, walls and ribs. The HFS Series (Hammer Feed Scaler) has a unique telescope feed and knuckle boom combination incorporating high rigidity and torsional strength to absorb accidental shock while scaling. The RMS Series Mine Scaler combines the ruggedness and flexibility for scaling in smaller to mid-size heading. The VPS Scaler uses a patented vibratory pick for fast scaling in softer and sedimentary rock formations.



SHOTCRETE SYSTEMS

Breaker Technology offers a full line of shotcrete / concrete remixers and agitator vehicles for the fast and effective transport of these materials throughout the mine. Breaker Technology also supplies wet and dry shotcrete spraying vehicles for ground support operations under varying conditions.

SCT SERIES

MOBILE ROCKBREAKERS

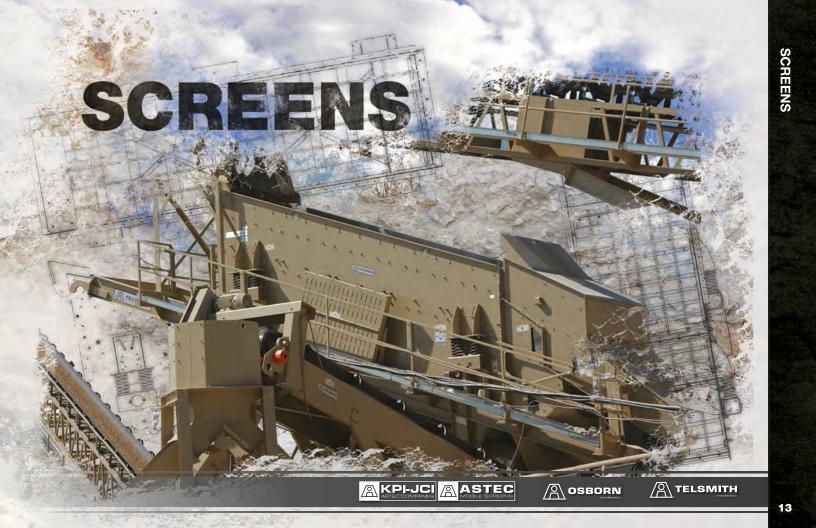
BTI's Low-Profile Mobile Rockbreaker Systems eliminate disruptive, costly and unsafe blasting in stopes, drawpoints and grizzlies, providing efficient, safer alternatives to secondary blasting. The TM Series Mobile Rockbreaker is a heavy-duty, low-profile vehicle specifically designed for breaking oversize in underground applications, with rugged construction and optimum breaker performance.

MPV (MULTI PURPOSE VEHICLE)

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.



Breaker Technology's MINE RUNNER All Purpose Vehicle is designed specifically for the underground environment and 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. Configurations available include a supervisor vehicle, personnel carrier and mechanics truck.



BUZZER SCREENS

Simple and handy screens available in 1-, 2- and 3- deck configurations, buzzer screens provide perhaps the most economical screening tool available.

CONVENTIONAL INCLINE SCREENS

Our line of conventional incline screens offer outstanding value with built-in standard features not normally available in competitive models.

LOW-PROFILE INCLINE SCREENS

Ideal for incline screening applications where headroom is an issue, low-profile incline screens pack reliable and consistent screening performance into a wide selection of alternative designs.



HORIZONTAL SCREENS

Horizontal screens deliver high productivity in a low-profile package. The triple-shaft design employs an oval motion stroke pattern that generates a more aggressive screening action to reduce plugging and blinding while providing extended bearing life.

MULTI-ANGLE SCREENS

Developed as a response to the limitations of traditional flat and horizontal screens, multi-angle screens combine the best characteristics of both incline and horizontal screens to deliver unsurpassed capacity and efficiency.

OBEX SCREENS

Obex horizontal single- and double-deck screens are the preferred choice for various applications such as dewatering, sizing, trash, etc.

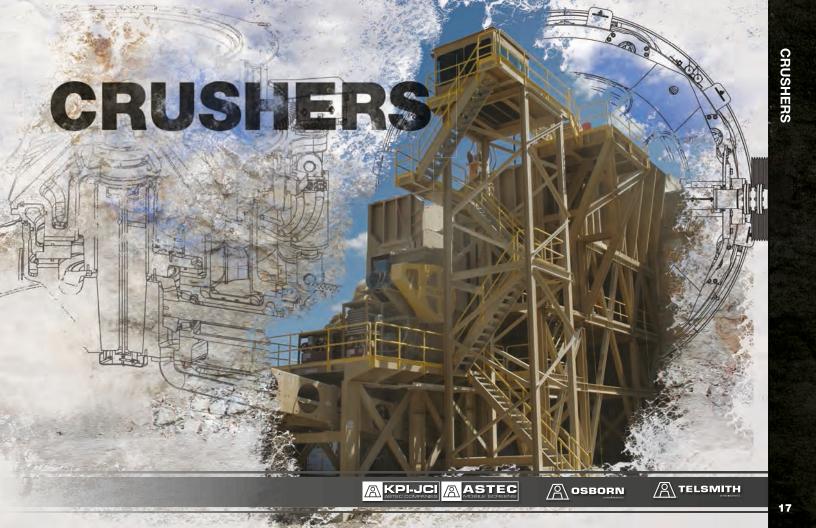


HEAVY-DUTY SCALPER

Built to scalp the toughest, most abrasive materials, scalper screens are built to work in conjunction with a primary crusher or in the production of rip-rap.

HIGH FREQUENCY SCREENS

High frequency screens are engineered to provide higher production capacities and more efficient sizing of fine separations compared to conventional screens.



CRUSHERS

CRUSHERS – CONE

SBS CONE CRUSHERS

SBS Cone Crushers are the only field-proven tool of choice employing "cam and lever" crushing to meet the shaping and sizing requirements needed in the quarry or the mine.

T-SERIES CONE CRUSHERS

The newest and most innovative cone crusher design in the industry today, T-Series Cone Crushers are available in sizes up to 900 hp and represent cutting edge technology.

GYRASPHERES

With over one hundred world-wide patents, "Gyrasphere" is one of the most respected names in crushing technology today - and the technology continues to expand.



(500)

KPI-JCI

KODIAK® PLUS CONE CRUSHERS

The Kodiak[®] Plus Series of cone crushers are built on a unique and highly efficient revolving wedge roller-bearing technology and many other patented innovations.

LS CONE CRUSHERS

These roller-bearing cone crushers have been delivering dependable performance for aggregate and mining applications for decades, and are as simple as they are reliable.

CRUSHERS

CRUSHERS – IMPACT

ANDREAS HORIZONTAL SHAFT IMPACTORS

Accommodating three- or four-blow bar configurations, Andreas Horizontal Shaft Impact (HSI) Crushers offer the adaptability and capacity required to meet the fast-changing aggregate market.

NEW HOLLAND HORIZONTAL SHAFT IMPACTORS

With over 40 years of field-proven results, New Holland Horizontal Shaft Impact (HSI) Crushers consistently provide profitable impact performance.

VERTICAL SHAFT IMPACTORS

The efficient and versatile design of our Vertical Shaft Impactor (VSI) crushers deliver highly consistent end products for jobs that demand precision.







CRUSHERS – JAW

DOUBLE TOGGLE JAW CRUSHERS

For much harder and highly abrasive materials with a compressive strength of up to 600 mpa, the double toggle crusher would be the preferred machine.

OVERHEAD ECCENTRIC JAW CRUSHERS

With brands including Iron Giant, Hydra-Jaw[®] and Vanguard covering a full range of sizes and application-duty jaw crushers, we have a machine designed for optimal crushing performance whether your need is for maximum portability, relocation or ruggedness in the toughest environments.

CRUSHERS

CRUSHERS – ROLL

ROLLING RING CRUSHER

Osborn offers a complete range of standard design Rolling Ring Crushers suited for most coal crushing applications.

DOUBLE ROLL CRUSHER

Osborn Double-Roll Crushers are designed and built in a range of sizes to reduce run-of-mine and sized coal, providing a reliable means of crushing to specific sizes through adjustment of the rolls.

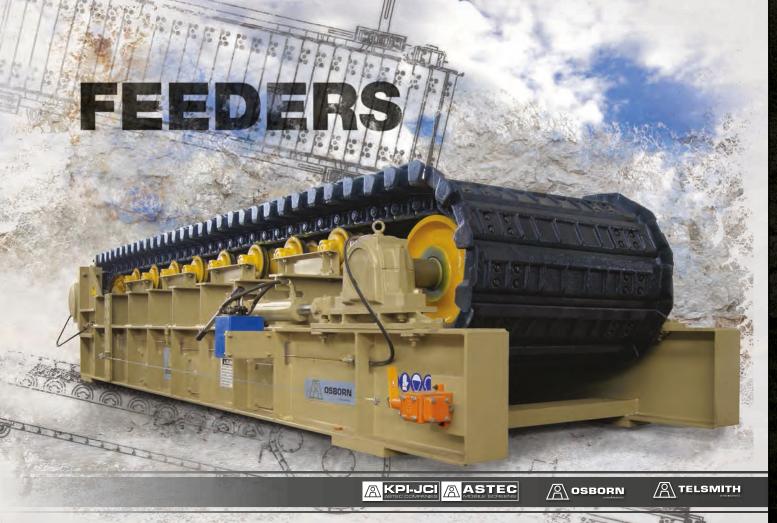
CRUSHERS – ROTARY

ROTARY COAL BREAKER

Serving the coal industry for more than 80 years, our Rotary Coal Breakers are capable of processing up to 2,000 TPH with a maximum feed size of 600 mm. For more specific and smaller sizing of the coal, the Double Roll Crusher is generally the preferred machine, particularly for processing the sizes required by power stations and for projects where tight specifications are required.







BELT FEEDERS

Meter or blend different materials at a controlled rate to feed portable or fixed stationary crushing plants, wash plants, loading and unloading facilities at railways, ports and construction sites.

PAN FEEDERS

Pan feeders provide the best efficiency for the free flow of material. Fitted with replaceable liners, they can be floor or suspension mounted.

VIBRATING FEEDERS

Our wide selection of vibrating grizzly feeders range from light-duty machines to those used extensively for very heavy-duty mining applications. Available in multiple sizes and configurations, including an innovative patented new grizzly pre-screen for scalping unwanted material.

APRON FEEDERS

Our offering includes the most complete range of standard and extra heavy-duty apron feeders suited for the most arduous conditions encountered in the mining and quarrying industries.



ROCKBREAKER SYSTEMS



NPH SERIE

ROCKBREAKER SYSTEMS

PORTABLE CRUSHER ROCKBREAKER SYSTEM *MBS, PB, NT SERIES*

BTI provides a wide array of portable crushing solutions from small recycle to larger hard rock application equipped with hydraulic breakers from 800 to 3,000 FT-LB class. These compact boom systems can be mounted on track, and wheeled jaw and impact crushers in either inline or sidemounted positions. In most applications the booms can be parked in low profile transport positions to remain on the crusher during transportation.

PRIMARY JAW ROCKBREAKER SYSTEMS *MBS, PB, NT, NTT, MRH, MRHT SERIES*

Jaw crushers and impact crushers are most often fed from a rock box using a vibratory feeder. A rock breaker should be positioned to assist with raking rocks into the crusher, reduce oversize, and to be able to reach into the crusher to assist with processing and clearing jams. BTI offers the widest range of boom reach and breaker sizes in the industry.



STATIC GRIZZLY ROCKBREAKER SYSTEMS *PB, NT, NTT, MRH, MRHT, MRXT SERIES*

BTI's heavy duty grizzly booms are designed to handle complex loading to the boom in harsh grizzly applications. Optional low-profile, side-mounted breakers and boom designs allow for operation in areas with restricted head rooms.

PRIMARY GYRATORY ROCKBREAKER SYSTEMS *MRH, MRHT, MRXT, TTX, TRX SERIES*

Big jobs need big booms and breakers. BTI's wide range of gyratory booms provide full coverage over large rock boxes and down into the gyratory crushing chamber. Depending on models selected breaker size can range from 4,000 to 16,000 FT-LB with reaches from 24 to 58 feet.

HYDRAULIC BREAKERS

BX SERIES

The BX Series of Hydraulic Breakers produces stable highspeed percussion, and exceptional value and durability for all construction, demolition, and rockbreaking requirements. Energy Class: 550 – 5400 Joules (400 - 4,000 ft-lbs)

BXR SERIES

The BXR Series Breakers offer outstanding power-to-weight ratio, and exceptional efficiency with the oil regeneration system. Overall system is designed for harsh, continuous duty for use in demanding rock breaking applications. Energy Class: 6800 - 21 500 Joules (5,000 - 18,500 ft-lbs)



WASHING & CLASSIFYING

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KPI-JCI ASTEC

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BLADEMILLS

Blademills efficiently convey material to break up sticky clay and muddy clumps with extraordinary effectiveness.

CLASSIFYING TANKS

Classifying tanks are engineered to maximize your profitability of sand classification by creating less turbulence and more accurate settling of the feed material.

COARSE MATERIAL WASHERS

Coarse material washers are engineered in both single and twin spiral designs that can be easily reconfigured with numerous bolt-on paddle and flight arrangements to satisfy even the most precise specifications.

FINE MATERIAL WASHERS

Fine material washers are designed to clean and dewater fine aggregates, fine-tune end products to meet specifications and separate out slimes, dirts and fines. Available in both single and twin configurations, fine material washers are most often used after a sand classifying/blending tank or after a wet screening operation.

FINE RECOVERY SYSTEMS

For a complete, custom-engineered, fines recovery or specialty sand production plant, dewatering screens, classifying cyclones, dewatering cyclones, pumps, attrition cells, density classifiers and sieve bend screens can be designed into your existing wet plant.

LOG WASHERS

Even the most agglomerated deposits are no match for our reverse-involution, spiral paddle design, which produces an extremely effective scrubbing action to remove tough, plastic-soluble clays and other unwanted coatings.

SCREENING/WASHING PLANTS

Take power and performance on the road with our portable 1800 series screening and washing plants. Efficiently process aggregate material wherever opportunities exist.

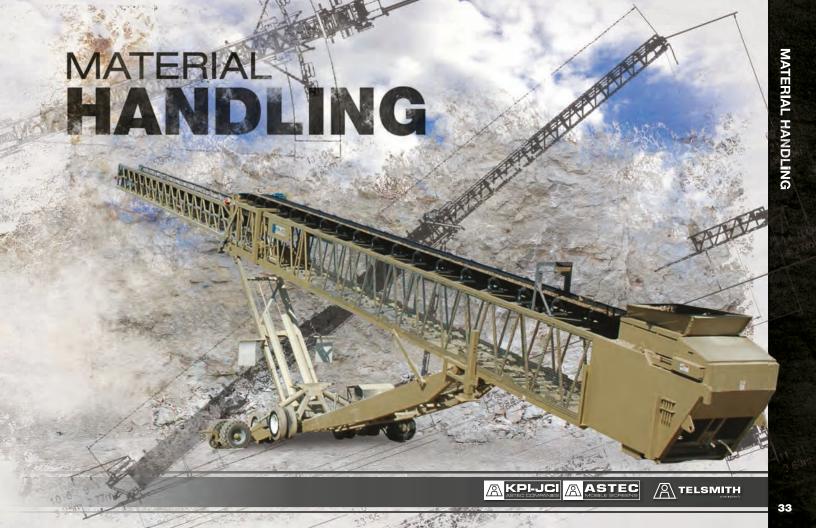
SKID-MOUNTED/PORTABLE CLASSIFYING SYSTEMS

Classifying plants are engineered to incorporate all of the features of our industry-leading fine material washers and classifying tanks into a skid system or single, low-profile portable plant.

SUPER SCRUBBER

Super Scrubbers are designed and built in a range of sizes to handle lumpy materials typically contaminated with clay and other waste material to produce a washed product suitable for screening or further downstream processes.





FEED SYSTEMS

Our entire line of feed solutions has been designed using several decades of experience in building aggregate processing and recycling equipment.

MOBILE TRUCK UNLOADERS

Mobile truck unloaders provide an efficient solution for unloading material where you need it, reducing set-up time by building smaller earthen ramps, cutting labor needs and fuel costs.

RAIL-MOUNTED SHIPLOADERS

Rail-mounted shiploaders allow easy, parallel movement down the quayside with the telescopic conveyor systems trimming the hatch of the vessel accordingly.

PORTABLE STACKING CONVEYORS

Available in standard sizes up to 42" x 150', these conveyors partner seamlessly with our full line of portable and stationary crushing, screening and material handling equipment.

PUGMILLS

The continuous-mix pugmill includes two counter-rotating shafts with paddles, along with timing gears that provide optimum speed to obtain the quality mix desired.

STACKABLE CONVEYORS

Our stackable conveyors can pack up to 480 feet of conveying power in a single truckload. Perfect for portable operations, always on the move.



TELESCOPING CONVEYORS

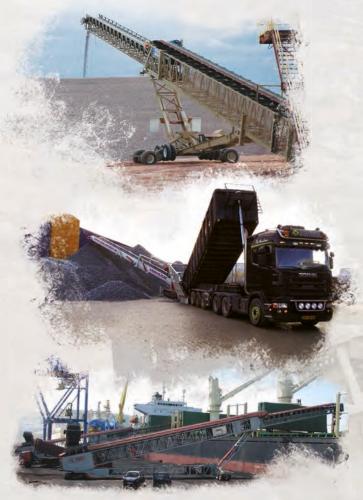
Capable of creating custom-shaped, partially- or fullydesegregated stockpiles to fit maximum material in minimal space.

TRACKED STOCKPILING

Tracked stockpiling conveyors are the ideal solution for mobile crushing or screening plants. Their mobility and flexibility reduce or eliminate the need for wheel loaders on site.

RADIAL TELESCOPIC SHIPLOADERS

Mobile radial telescopic shiploaders ensure unrivaled flexibility when loading a vessel. The radial and telescopic features allow the operator to easily trim the hatch or multiple hatches from one feeding position, reducing hatch change times and production downtime.



DIRECT FEED SHIPLOADERS

Mobile direct feed shiploaders allow the operators to directly feed equipment from wheel loaders in the Port/Inland Terminal to eliminate the double handling of material.



CUSTOM/STATIONARY CONVEYOR SYSTEMS

Conveyor systems offer a streamlined design of highly productive material handling systems. Load and unload railcars, trucks or ships and move massive loads of material throughout your operation in no time.



MOBILE RECLAIM HOPPERS

These mobile units allow a controlled feed of material into the system for increased production capacities and further eliminate the need for double handling of material.

HOPPER FEEDERS

Mobile hopper feeders allow operators to directly discharge from wheel loaders or grab cranes to further eliminate double handling of material.







PLANTS & SYSTEMS

MODULAR PLANTS

Modular plants significantly shorten the timeline for new crushing plant development. Capable of achieving start-up possibly months ahead of a conventional plant approach, these modular plants offer outstanding maintenance access, reliable performance and a lower installation cost.

Primary Jaw Crushers • Secondary Cone Crushers Primary and Secondary Horizontal Impact Crushers Screens • Vertical Shaft Impactors Closed-Circuit Crushing and Screening Plants

PORTABLE PLANTS

A full line of portable plants has been developed for maximum portability.

Primary Jaw Crushers • Secondary Cone Crushers Primary and Secondary Horizontal Impact Crushers Screens • Portable Vertical Shaft Impactors Closed-Circuit Crushing and Screening Plants

GLOBAL TRACK PLANTS

The Global Track Series from KPI-JCI and Astec Mobile Screens is designed to offer the industry-leading crushing and screening power you expect in portable, compatible and easy-to-use configurations.

Track Jaws Track Impactors Track Cones Track Screens Track Convevors



FAST TRAX PLANTS

FastTrax plants are engineered for maximum versatility. These plants were designed specifically for the high volume producer in mind, who will benefit more from enhanced features than smaller, competitive machines.

Track Jaws Track Impactors Track Cones Track Screens

QUARRYTRAX

These machines are heavy-duty, self-contained, mobile crushing units designed for the highest production environments in large quarry or recycling installations, while also facilitating close proximity of crushable material, maximizing the efficiency of your operation.

Track Jaws Track Impactors Track Cones Track Screens

FASTPACK

The ultimate in high-production portable processing, the FastPack was conceived to be the first fully self-contained, high-production aggregate processing facility, capable of being relocated and operational between two locations within a 24-hour period.





EQUIPMENT TYPE	BTI	KPI-JCI 8	& AMS	OSBORN	TELSMITH
MINING VEHICLES	1				1
Explosive Loaders	•				
Underground Scalers	•				
Shotcrete Systems	•				
Mobile Rockbreakers	•				
MPV (Multi Purpose Vehicle)	•				
Mine Runner - APV	1.	and the	Messi al		
SCREENS					
Buzzer Screens		•			•
Conventional Incline Screens		•		•	•
Low-Profile Incline Screens					
Horizontal Screens		•		•	•
Multi-Angle Screens		•		Det	
OBEX Screens				•	
Heavy-Duty Scalper Screens		•		•	
High Frequency Screens		•			
CONE CRUSHERS					
SBS Cone Crushers					•
T-Series Cone Crushers					•
Gyraspheres				•	
Kodiak [®] Plus Cone Crushers		•	/		
LS Cone Crushers		•			

EQUIPMENT TYPE

BTI KPI-JCI & AMS OSBORN TELSMITH





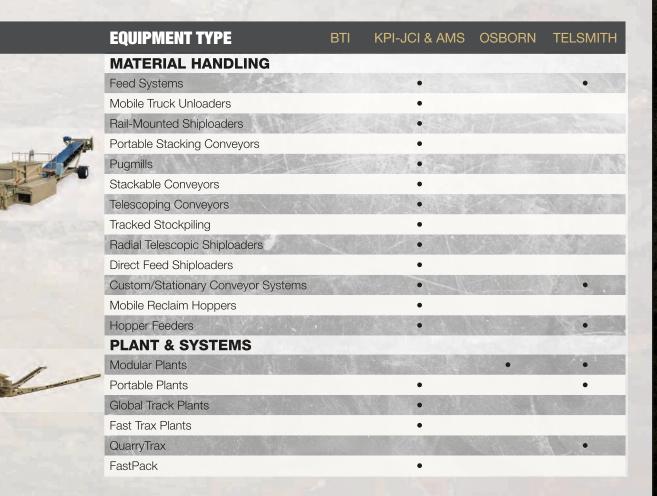




IMPACT CRUSHERS
Andreas Horizontal
Shaft Impactors
New Holland Horizontal Shaft Impactors
Vertical Shaft Impactors •
JAW CRUSHERS
Double Toggle Jaw Crushers •
Overhead Eccentric Jaw Crushers
ROLL CRUSHERS
Rolling Ring Crusher
Double Roll Crusher •
ROTARY CRUSHERS
Rotary Coal Breakers •
FEEDERS
Belt Feeders •
Pan Feeders •
Vibrating Feeders • •
Apron Feeders • •

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EQUIPMENT TYPE BTI KPI-JCI & AMS OSBORN TELSMITH **ROCKBREAKER SYSTEMS** Portable Crusher • Primary Jaw • Primary Gyratory Static Grizzly **HYDAULIC BREAKERS BX** Series **BXR** Series **WASHING & CLASSIFYING** Blademills . **Classifying Tanks Coarse Material Washers** • Fine Material Washers . Fine Recovery Systems . Log Washers Screening/Washing Plants • Skid-Mounted/Portable Classifying Tanks Super Scrubber



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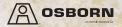
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