Astec Industries, Inc. is a family of companies, each a leader in its field, that manufactures equipment for building and restoring the world’s infrastructure. Manufacturing sectors include: rock breaking, crushing and screening equipment for the mining and quarry industry; facilities and components for the asphalt mixing industry; equipment and components for the asphalt paving industry; trenching, drilling, and boring equipment; and waste wood processing and grinding equipment.

**COMPANY GROUPS**

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The Asphalt Group (Astec, Heatec and CEI) has earned a reputation for high quality products and customer service. These three companies form a cohesive unit that designs and manufactures a complete line of portable, relocatable and stationary asphalt mixing facilities and related components as well as a variety of heaters, heat transfer processing equipment and thermal fluid storage tanks. The Asphalt Group is focused on providing the widest range of products for the hot mix asphalt industry. The Asphalt Group enjoys a reputation for engineering products with the most advanced and innovative technologies available. The products of the Asphalt Group utilize advanced technologies to help customers maximize performance and safety.

**GREEN FACTS:**

Astec, Inc. introduced its Double Barrel® Green System in 2007. This warm mix asphalt system generates mix at a lower temperature, thereby reducing fuel consumption by 14% and virtually reducing the emissions that are generally associated with conventional hot mix asphalt.

Heatec’s FIRESTORM™ direct-contact water heaters have extremely high thermal efficiency: up to 99%. The FIRESTORM heaters produce virtually no unwanted atmospheric emissions.

CEI’s asphalt rubber blending system utilizes discarded rubber tires as an additive to hot mix asphalt. The mixing system is also available with a low emissions oil heater.
Astec, Inc. is the world leader in Hot Mix Asphalt (HMA) equipment technology, support and training. Astec manufactures a complete line of stationary, relocatable and portable continuous mix HMA, and soil remediation equipment. Core products include the Double Barrel® drum mixer, TCII PC-based computer control system, the Phoenix® high-efficiency burner series, the Six Pack® portable HMA facility and New Generation long-term storage silos.

When it was introduced in 1986, the Double Barrel combination aggregate drying and HMA mixing drum was ahead of its time. Since then, the Double Barrel drum has been proven through millions of tons of operation to consistently produce high-quality mixes. Its ability to produce mixes with up to 50% reclaimed asphalt pavement (RAP) content without added emissions or fuel costs makes the Double Barrel drum mixer one of the most important pieces of equipment for HMA producers today.
The innovations from Astec continue with the Double Barrel Green system. Adding the Green System to a Double Barrel drum mixer allows producers to reduce fuel consumption, increase production, eliminate smoke and smell and use a higher percentage of reclaimed asphalt product (RAP) by producing mix at a lower temperature. The Double Barrel Green System is a major break through in warm mix asphalt technology because it does not require the addition of expensive commercial additives. Instead, water is injected into the mix along with the liquid asphalt cement. The injection of water causes the liquid asphalt to foam and expand in volume. The foaming action helps the liquid asphalt coat the aggregate at a lower temperature.

The Double Barrel Green System is yet another innovation from Astec that is poised to become an industry standard. Astec founder Dr. J. Don Brock notes that, “acceptance in the field is no less than a green tsunami.”

In addition to designing and manufacturing HMA facilities, Astec is committed to providing excellent customer service. Astec’s service and parts teams are always available to assist plant owners. And the company’s annual Advanced Customer Training Schools teach plant operators the skills they need to maximize plant efficiency and productivity. In 2007, Astec began an expansion of its training facility. The additional 11,000 square feet of space houses an exhibit hall, classrooms and office space. With this new facility, Astec will continue to grow its customer schools and enhance its reputation for customer service.

![Portable Hot Mix Asphalt Plant](image1)

The Astec Six Pack® hot mix asphalt facility, introduced in the early eighties, was the first truly portable facility available to hot mix asphalt producers and quickly became the world’s best selling portable asphalt facility.

![Double Barrel® Drum Mixer](image2)

The innovative design of Astec’s Double Barrel® drum mixer makes perfect sense for today’s hot mix asphalt facilities. It significantly improves the quality of all mixes and is able to run up to 50% reclaimed asphalt pavement (RAP) without using more fuel.
Double Barrel® Green System
The latest innovation from Astec saves energy and eliminates smoke and emissions without compromising mix quality. The Double Barrel Green System uses water to produce a foamed warm mix asphalt that is odorless, smokeless and longer lasting.

Phoenix® Talon Burner
The Astec Phoenix Talon delivers very low emissions combined with energy efficiency. Only the Phoenix Talon series uses precise, high quality mixing of air and gaseous fuel to achieve an advanced emission reduction method called lean burn premix. The use of Variable Frequency Drives (VFD) helps provide precise firing rate and uses less electrical energy while also ensuring quieter operation.

TCII Control System
The TCII is the most powerful PC-based system ever designed to control hot mix asphalt facilities. With these centralized controls, operators have instant and accurate control of all facility operations. No other system provides more flexibility and expansion options.
Heatec designs, manufactures and markets a wide variety of heating and storage equipment for numerous industries.

The majority of Heatec products go to manufacturers of products made with asphalt. Chief among those producers are HMA (hot mix asphalt) plants. Other major users of Heatec asphalt heating, mixing and storage equipment include asphalt terminals, roofing plants and asphalt emulsion plants.

We also make similar equipment for industries unrelated to asphalt. Recent sales to the concrete, oil and gas, liquified natural gas, bio-diesel, plastics, chemical, polymer and food industries have been substantial.

You will also find Heatec products on off-shore platforms, on barges, at power generation plants, at wood product manufacturers, at textile factories, at pharmaceutical companies and others.

We currently have orders for several polymer asphalt systems for deliveries in 2008. These polymer systems are for asphalt terminals. The typical system blends Styrene
Butadiene Styrene (SBS) polymer with virgin asphalt cement to make what is known as PMAC (polymer-modified asphalt cement). PMACs are used to make PG (Performance-Graded) asphalt, which has significantly improved durability compared to hot mix asphalts used in the past. Most states now mandate the use of PG mixes.

A typical system incorporates storage tanks, mixing tanks, holding tanks, a hopper and a mill. The system makes PMAC by introducing granules of polymer into a heated tank of liquid asphalt cement. The combined materials are then stirred and pumped through a precision mill that reduces the granules to fine particles so it will blend thoroughly with the asphalt cement. The finished material is then pumped into a holding tank for load-out.

Our new Firestorm water heater for the ready-mix concrete industry is generating a lot of interest. It is a high efficiency water heater that is used to heat mix water for concrete that is poured in cold weather. It is expected to replace older, less efficient heaters in current use.
Industrial Thermal Fluid Heaters

Heatec designs and manufactures thermal fluid heaters used in a wide variety of industrial processes. Here, Heatec supplied a heater, pump and piping system to a major manufacturer of asphalt roofing materials.

Firestorm™ Water Heaters

Heatec introduced this direct-contact water heater to the concrete industry in 2006. During 2007, the industry’s response to the heater was very strong, and continues to grow. Heatec is preparing to promote this heater into other markets.

New Training Facility

In 2007, Heatec completed a 7,000 square foot addition to its offices. The addition includes this training facility, designed specifically for training customers in the use and maintenance of Heatec products.
CEI Enterprises started as a small and focused manufacturer of asphalt storage tanks and hot oil heaters for the hot mix industry. Equipment users quickly realized the exceptional performance and quality and began requesting additional products with innovative design features. CEI Enterprises continues to grow in product scope within the industry and has become a major domestic and worldwide equipment supplier.

An example of CEI Enterprise’s innovative design and engineering capability is the development of the NOMAD® HMA hot mix asphalt plants. The 80 and 130 ton per hour plants were developed primarily for emerging countries where transportation of equipment is an issue due to limited road sizes. These two plants are transportable in four loads each and can be set up in just a few hours allowing the ultimate in portability. The Nomad continues to be a great success with over 60 units in operation throughout the world.
The Rap King™ is an 180 TPH counter flow design HMA plant capable of processing up to 50% RAP. The merits of its unique design are greater fuel efficiency along with lower hydrocarbon and VOC (Volatile Organic Compounds) emissions. The Rap King can meet the most stringent emissions standards. It can be equipped with multiple cold feed bins, self-erecting or stationary silo’s, truck scales and load out printing stations, and in a portable or relocatable design.

CEI Enterprises is the leader in the design and supply of portable crumb rubber blending plants. The design features for these plants includes the latest in control technology, the most efficient emission reduction capabilities and highest continuous tons per hour to the hot mix plant that is available in the market. CEI Enterprises has supplied over 30 of these specialized crumb rubber mixing plants. Current models feature high temperature hot oil heaters to boost virgin asphalt temperatures up to 425°F, dual sided connections for asphalt and hot oil lines, fully automated controls, mixing augers for high agitation and triple compartment reaction tanks to maximize production rates.

To support the industry in the residential arena, CEI Enterprises has developed a 12,000 gallon water tank. The tank is transported in a lowered position and easily raised to an operational position with an integrally mounted gasoline engine. For the customers with special local requirements, CEI Enterprises provides liquid Additive Systems for the storage and metering of anti-strip, etc. Equipment is also available for the production of polymer modified asphalt. And for those air quality districts, CEI Enterprises has delivered blue smoke control systems that can exhaust asphalt tank fumes at temperatures under 120°F.

Jacketed Firebox Heater

The CEI Jacketed Firebox heater leads the field with a highly efficient design. Helical rings in the jacket of the firebox control circulation of thermal fluid in the jacket to eliminate hot spots and ensure optimum heat transfer.

NOMAD® Asphalt Plant

A low-cost plant for production of hot mix asphalt (HMA), designed for the international market. Fully meets the needs of contractors who do a lot of small projects such as driveways and parking lots. But it is also well suited for secondary roads, especially those in rural areas. And it can also be used effectively when widening existing freeways. The plant produces up to 130 tons (118 metric tons) of hot mix asphalt an hour.
**RAP King Asphalt Plant**
The sturdy, efficient, cost-effective CEI RAP King hot mix asphalt facility allows smaller producers to make high recycled asphalt pavement (RAP) content mixes without added emissions or increased operating expenses.

**Asphalt Rubber Blending System**
CEI is the premier manufacturer of durable systems for blending Ground Tire Rubber (GTR) into asphalt cement. This portable system mixes GTR with liquid asphalt, then holds and agitates the mixture in a reaction tank until it is properly cured for use in making hot mix asphalt (HMA).

**Rubber Reaction Tank**
This high quality tank is designed for use with an asphalt rubber blending system. The tank includes an auger to agitate the mix and keep the crumb rubber in suspension.
The Astec Mobile Asphalt Paving Group (Roadtec and Carlson) produces machinery for road builders worldwide. The group’s customers come from the highway construction segment and range in size from family-owned companies to multi-national concerns. The group’s customers primarily handle projects involving the maintenance and construction of public roads. These companies typically value long-lasting and reliable equipment and equipment features that can give them an edge in their competitive environment. They also demand a high level of customer support. High-end, innovative products and support for its customers have been key to the Astec Mobile Asphalt Paving Group’s growth and continues to be its focus.

GREEN FACTS:
Asphalt is America’s most recycled product. Roadtec’s line of cold planers remove and grind the old asphalt pavement for use in new mixes. Up to 50% of Reclaimed Asphalt Product (RAP) can be added to new mixes.

Roadtec installs CAT® ACERT Tier III diesel engines in its products. In addition to lower emissions, the new engines feature lower bare engine noise by up to 5 decibels. Tier III engines reduce the amount of nitrogen oxide, particulate matter, carbon monoxide and hydrocarbons released into the air.

Electrically heated Carlson screeds produce no emissions.
Roadtec builds road building equipment. Four core product lines are cold planers, pavers, material transfer vehicles, and reclaimers/stabilizers. Roadtec enjoyed healthy growth in 2007 in new product sales as well as in parts and rebuild sales. International sales have been especially strong for the company.

Two upgraded eight-foot paver models were introduced in 2007, the RP-170 and the RP-175. They feature environmentally friendly Tier III engines and an improved operator environment, including slide-out seats for better visibility and reduced engine noise. Roadtec’s entire paver line enjoys a good reputation in the marketplace and was able to gain market share in 2007.

Roadtec cold planers are considered to be among the most productive machines available and feature competitive advantages such as higher horsepower engines, bi-directional drum options and a range of choices for the cutter system. Featuring environmentally friendly engines, they are recognized as having higher productivity than any other cold planers available today. Roadtec replacement parts are non-
proprietary and easy to find, and customers value that. This product line was also able to increase market share in 2007.

Roadtec manufactures the well known Shuttle Buggy® material transfer device, a machine which allows road builders to meet state DOT smoothness specifications with ease. Users of Shuttle Buggy material transfer devices consistently win quality awards for smoothness. The device is firmly entrenched in the U.S. as the only machine to battle material and temperature segregation in hot mix asphalt and continues to efficiently gain acceptance in international markets, especially Europe.

The Roadtec stabilizer/reclaimer is used to prepare the roadbed before pavement is laid. The machine can work in many types of materials ranging from soil to old pavement and features the greatest cut depth in the industry. Torque to the cutter drum is rated the highest in the industry at over 500,000 pound-force inches in first gear. This is the newest addition to the Roadtec product offering. Sales are expected to grow as the product continues to prove itself in the market.

Roadtec acquired a new robotic welding system in 2007 to manufacture cold planer cutter drums. The addition of this machine will reduce cycle times for cutter drums by approximately 50%. Other 2007 manufacturing department upgrades include two new Whitney burn tables, a new CNC machining center and a Kinetic plate-processing machine. The substantial investment in new manufacturing equipment is enhancing the lean manufacturing concept, which Roadtec has fully embraced.

Two new CNC machining centers have also been placed at the Roadtec Riverside facility in Chattanooga, where Roadtec parts are made. Thanks to new partnerships with OEM parts suppliers, Roadtec is seeing its parts business grow substantially, and these machines are providing the additional capacity required.

RX-900 Cold Planer
At 950 horsepower this machine is the most powerful cold planer on the market. Producing more milled surface per hour than competing machines this product is an important part of getting projects done quickly to avoid long periods of construction delays.

RP-190 Asphalt Paver
One of four different Roadtec paver models, the RP-190 provides Roadtec heavy-duty construction for reliable performance. Exclusive Roadtec design features allow asphalt mix moving through Roadtec pavers with minimal segregation to form a smoother road surface.
The SB-2500D Shuttle Buggy® Material Transfer Vehicle —

The SB-2500D Shuttle Buggy material transfer vehicle (MTV) can store and transfer hot-mixed asphalt material from a truck to a paver for continuous paving. A patented anti-segregation auger remixes materials just before they are delivered to the asphalt paver. The 25-ton surge capacity of the Shuttle Buggy MTV allows trucks to unload material immediately and return to the asphalt plant.

SX-7 Soil Stabilizer/Reclaimer —

Used to stabilize the roadbed before pavement construction, the SX-7 works in many materials from soil to old pavement. This powerful 700 horsepower machine can cut deeper than any other, and its tight turning radius makes it the most maneuverable available.

VCS Variable Cutter System —

With the variable cutter system Roadtec customers can use their cold planers to cut different widths without time-consuming cutter housing change-outs. This is one of many exclusive product enhancements available to Roadtec customers.
Carlson Paving Products, Inc.
Tacoma, Washington

Carlson Paving Products has been manufacturing asphalt screeds for more than 20 years. Initially started and still located in the Pacific Northwest, Carlson Paving Products, Inc. has continued to develop new and innovative products. Manufacturing asphalt screeds for all types and sizes of highway class pavers, Carlson continues to maintain a dominant presence in screeds in the paving industry.

Acquired by Astec Industries in 2000, Carlson has since expanded its product line to include a windrow pick-up machine with a removable highway towing package available.

Carlson Paving Products will continue to strive to design and develop products for the asphalt industry that are innovative, user friendly, and functionally superior to any other equipment on the market. These products are designed with the owner, operator and mechanic in mind. Carlson’s equipment line is available through an extensive network of distributors.
During 2007, Carlson continued to lead the field of paver screed technology in the asphalt paving industry. With a tradition of customer driven product enhancements Carlson kept ahead of the competition. Carlson continues to develop and improve core product lines, including a popular line of screeds, without abandoning a tradition of easily operated and maintained equipment.

EZIII Asphalt Screed
The screed is responsible for laying the asphalt mix down flat, level, and at the correct thickness. Among the screeds Carlson makes, this EZIII model is ideal for the builder who works in the commercial market. It has all the features of a highway-class screed, such as electrically heated, vibratory screed plates and adjustable extension, but is lighter in weight.

EZIV Asphalt Screed
Hydraulic, vibratory extensions are supported on heavy-duty, high-strength slide tracks of this popular model. Like all Carlson screeds the EZIV features front-mounted extensions. The patented, tapered Carlson screed plate design assures optimal material flow for a smooth surface of even density. The optional angle of attack adjustment on the extension is another Carlson exclusive valued by road builders.
Windrow Pick-Up Machine

The Carlson WP-800 Windrow Pick-up Machine is designed to couple to the front of an asphalt paver and transfer hot mix asphalt (HMA) from windrows laid in the paving track to the hopper via its elevating conveyor. The WP-800 can be adapted for use on almost any paver, and can be used with or without a hopper insert unit.

EZIII Asphalt Screed

A unique feature of the Carlson EZIII Screed is the extension support system, which uses brass wear plates to maintain tight control and prevent vertical movement. Two versions of different widths are offered. Maximum paving width of the 8’ (2.4 m) model is 13’-6” (4.1 m) and 19’ (5.8 m) with additional bolt-on extensions. Maximum paving width of the 10’ (3 m) model is 17’ (5.2 m) and 24’ (7.3 m) with additional bolt-on extensions.

EZIV Asphalt Screed

The Carlson EZIV Screed extension support system uses high strength chrome rods with adjustable composite bushings to tightly hold the extensions and to prevent vertical movement. Two versions of different widths are offered. Maximum paving width of the 8’ model is 15’ (4.6 m) and 19’ (5.8 m) with additional bolt-on extensions. Maximum paving width of the 10’ model is 19’ (5.8 m) and 25’ (7.6 m) with additional bolt-on extensions.
The Aggregate and Mining Group provides innovative solutions for the material handling, mining, quarry, recycling, construction and demolition industries. Superior customer support is a key element to the success of the Aggregate and Mining Group. The group is determined to satisfy customers by offering high quality and by listening to customers to better understand and meet their needs. The companies of the Aggregate and Mining Group design, manufacture and market a complete, world-class line of rock crushers feeders, conveyors, screens and washing equipment for open-mine and quarry operations. Through innovative technology the Aggregate and Mining Group is able to offer equipment that helps our customers perform better, safer and achieve maximum return on their investment.

**GREEN FACTS:**

The Kolberg-Pioneerer FT 4250, uses a Tier III compliant engine from Cummins or Caterpillar. Tier III engines significantly reduce emissions of nitrous oxide and unburned hydrocarbons while offering improved fuel economy compared to engines used just a few years ago. In addition, the FT 4250 uses programmable logic controls (PLC) to control overload conditions to the engine to prevent huge variations in engine horsepower which helps improve fuel efficiency.

Telsmith’s three new RAP (Reclaimed Asphalt Product) crushers allow asphalt producers to increase the amount of RAP used in the mix and significantly reduces the need for virgin oil products.

**COMPANIES**

Kolberg-Pioneer, Inc.
Johnson Crushers Intl., Inc.
Astec Mobile Screens, Inc.
Telsmith, Inc.
Breaker Technology, Ltd.
Osborn Engineered Products SA (Pty) Ltd.
Telsmith Inc. was founded over one hundred years ago to manufacture a new type of rock crusher. In the 1930’s, Telsmith began marketing cone crushers and other products into international markets. In 2007, with strong brand acceptance around the world, Telsmith was able to take advantage of growing international demand for USA made products, shipping into 34 countries on 5 continents.

Telsmith designs, manufacturers, markets and services a full line of processing equipment for the aggregate, concrete recycle and asphalt recycle industries. Included in the product offering are jaw crushers, cone crushers, impact crushers, screens and feeders. Brand names such as Iron Giant, Gyrasphere and Vibro-King have gained worldwide recognition for quality and performance.

Offering advanced solutions, Telsmith has also developed track mobile, wheeled portable and modular plant systems to deliver turnkey aggregate processing solutions. Combining consulting services, manufacturing and construction
management, Telsmith has been successful providing complete new plant installations.

Superior customer support is a differentiating element to Telsmith growth. Focused parts inventories and expert service technicians continue to build a loyal customer base.

New product development resulted in two successful product launches in 2007. The Quarry-Trax model TJ3258 track mobile jaw crushing plant and model PA6060 Primary Andreas style impact crusher add to the breadth of the Telsmith product line. Each of these products is uniquely designed to service both the quarried stone and growing recycled concrete markets.

2007 brought targeted investment into the Telsmith Mequon manufacturing facility. As part of an ongoing commitment to lean manufacturing, several manufacturing lines have been reorganized, including new machine tools, streamlining the focus on individual product quality, shortening build cycles and reducing costs.

Packaging innovative designs, quality manufacturing, superior customer support, systems capability and experience, Telsmith is able to provide long term solutions for today’s aggregate producers. Creating advantages for our customers is how we deliver the Telsmith Difference.

Modular Screening Towers
Modular screening towers, equipped with Vibro-King screens, are capable of processing in excess of 1000 tons per hour of stone. Utilizing modular construction, these towers erect on site in a few days, reducing the expense and time delay associated with installing traditional plant designs.

VibroKing® Screen
Telsmith VibroKing screens are the most dependable and versatile screens available today. Shown below, this screen is set up with urethane screening media and washing spray bars, designed to scrub the stone clean and improve product quality.
Quarry Trax®

Telsmith introduced the new QuarryTrax model TJ3258 during 2007. Designed to operate near the quarry face, the QuarryTrax reduces operating costs by eliminating haul trucks. Incorporating state of the art features like chamber clearing and automated operation, the TJ3258 is the safest and most productive track plant in its class.

PA6060 Primary Crusher

Incorporating a heavier rotor than competitive designs, the new PA6060 is a productive and reliable primary Andreas style impact crusher. Utilizing automated hydraulic apron adjustment, the PA6060 delivers consistent product sizing control to optimize plant efficiency.

SBS Cone Crusher

Telsmith SBS model cone crushers have continued to gain acceptance throughout the world, achieving record unit production levels in 2007. Combining modern crushing principles and TRAC10 automation controls, the SBS crushers are recognized for high performance that is safe and reliable.
Kolberg-Pioneer, Inc.
Yankton, South Dakota

Kolberg Pioneer, Inc designs, manufactures and markets full lines of washing, conveying, crushing, screening, classifying, portable and mobile plant equipment under the KPI-JCI brand. Simple solutions for all aggregate and recycling needs delivered through an unmatched resource of knowledge and experience, innovative products and systems and a world class support system, all exemplify a lifetime of value for the customer through the KPI-JCI brand. For more than 75 years, Kolberg-Pioneer and its dedicated KPI-JCI dealer organization have been recognized within the aggregate and recycling industries as the only true “One Source” supplier of dependable equipment and experienced application oriented support.

In 2007, Kolberg Pioneer introduced the new Automatic Setting System to its full line of KPI-JCI Vanguard jaw crushers. The value of this system is realized through increased functionality, reduced labor and increased production. In addition, Kolberg-Pioneer has expanded its current line of KPI-JCI Fast Trax® mobile plants by introducing the
FT3055 jaw crushing plant targeting the quarry producers and recycling contractors.

The new KPI-JCI Fast Trax® model FT36136 extendable conveyor moves processed in-pit blast materials from the primary mobile plant to the secondary processing plant system. This extendable conveyor is configured to handle higher output primary crushers and offers self-sustained onboard power and hydraulic systems.

The KPI-JCI line of extendable stackers along with Wizard Touch® automated control system for Kolberg Pioneer continues to be the only practical solution for stockpiling today’s stringent non-segregated aggregate needs. These highly portable stackers produce stockpiles up to 35% larger than those produced by more conventional non-extendable stackers. These stackers can also be used in applications such as precision bin loading, barge loading and unique stockpiling configurations.

The KPI-JCI line of washing and classifying products continue to lead the industry with innovative equipment and systems with an in-house resource of industry Knowledge and Experience. Kolberg-Pioneer produces over 48 models of fine and coarse material washers, blade mills, log washers and classifying tanks, along with 17 models of portable plants and two industry leading Spec Select control systems, all positioned to increase the end-user’s profitability by decreasing operating costs.

The new PRO Series Training program represents a World Class Support initiative from KPI-JCI to facilitate field sales and service training to its distribution and customer base. This industry leading program will utilize both directed and self-directed programs to facilitate 21 regional sales and five national service events throughout 2008.
Blademills
KPI-JCI blademills are completely customizable. The arrangement of the paddles and flights are set up to meet your exact need. Operating at little to no incline, these units remove sticky clay and other undesirables in front of wet screening and washing equipment. Sizes range from 24” to 48” diameter. Each size is available as a single or double.

Vertical Shaft Impact Crushers
Kolberg-Pioneer’s vertical shaft impact crushers are designed for ease of service and adjustment while producing the maximum amount of spec material in a single pass with the lowest cost.

Track Mount Impact Plant
The highly portable FT4250 track-mounted Horizontal Shaft Impactor (HSI) is designed to simply drive off the transport trailer and begin crushing. With innovative features and options, the FT4250 provides maximum production and application flexibility.
Johnson Crushers International, Inc.
Eugene, Oregon

Johnson Crushers International, Inc. designs, manufactures and markets full lines of cone crushing, screening, portable and mobile plant equipment under the KPI-JCI brand throughout the world. JCI and its dedicated KPI-JCI dealer organization have been recognized within the aggregate and recycling industries as the only true “One Source” supplier of dependable equipment and experienced application oriented support.

JCI continues its tradition of offering new innovative products. The KPI-JCI Kodiak® cone crusher family utilizes a PLC-based interface for increased crusher operation, troubleshooting and monitoring. This new system simplifies the operator’s management and maximizes crusher performance and efficiency.

The new line of KPI-JCI Combo® multi-angle screens from JCI address the aggregate industry’s need for increased screening capacity and efficiency of fine materials. The Fast Pack® rapid-deployment production system continues to redefine industry standards for productivity and profitability. The Fast Pack system can replace several
under-utilized portable or stationary production facilities, converting days of costly down time into highly profitable production time. Ultimately the end-user can significantly drive down production costs by improving safety performance, reducing dependency on auxiliary support equipment, consuming less liquid fuels, reducing freight expenses, and/or decommissioning antiquated or under-utilized assets while spreading fixed costs over more tons produced.

In addition, JCI has expanded its current line of KPI-JCI Fast Trax® mobile plants by introducing the FT5162 incline screening plants. A new plant design is planned for development in 2008. Both plants target the production requirements of our quarry producers as well as rental recycling contractors. These products are designed to address the demand for increased availability, flexibility, and for performance in a diverse array of applications.

In 2008, JCI will also launch the next generation in the Kodiak family of cone crushers. The evolution on the successful design will implement product enhancements to the maintenance and replacement wear parts features and overload systems. In addition, a refined base frame design provides both a more durable assembly with higher portability characteristics.

**Fast Trax® Horizontal Screening Plants**

The Fast Trax FT5162 offers extreme mobility and versatility with features like minimal prep time after delivery or before travel. Also, a removable rear feed hopper allows for feed via multiple methods. Fast Trax Horizontal Screen Plants come in open and closed circuit configurations with 2 or 3 deck screens ranging in size from 5x16 to 6x20.

**Fast Trax® Horizontal Screening Plants**

The Fast Trax FT6203 offers extreme mobility and versatility with features like minimal prep time after delivery or before travel. Also, a removable rear feed hopper allows for feed via multiple methods.
Fast Trax® Jaw Crusher Feeding a Fast Trax
JCI Screening Unit

Fast Trax’s are the only track mount crushers engineered and manufactured in the USA. Designed for rock and recycle applications, Fast Trax Jaw Crusher Plants offer the ultimate in portability. You simply drive off of a lowboy trailer and immediately begin crushing up to 400 tph.

Fast Pack® Crushing Plants

No cribbing required. Fast Pack Jaw Crusher Plants deliver rapid setups and tear-downs. Fast Pack Jaw Crusher Plants give mobile producers required speed through increased portability. Stationary producers benefit from a plant capable of short setup and tear down times to supplement multiple facilities. Available with multiple sized jaws and feeders, your exact need is fulfilled.

FT 200 Cone Crushing Plant

The FT200 Fast Trax Cone Crusher Plants are highly mobile and self-contained. Simply drive off of a low-boy trailer, and you are ready to crush 460 tph within minutes. Fast Trax Cone Crushers are perfect for contractors, as well as aggregate producers in need of in-pit mobility or supplemental production at multiple locations.
Astec Mobile Screens is the world’s premier supplier of innovative screening solutions. The full line of products include mobile screening plants, portable and stationary screen structures and the PEP line of high frequency screens for the quarry, recycle, sand & gravel, mining and other material processing industries. Each screening plant is designed, built and marketed to meet the highest demands in all kinds of applications.

Operating conditions for the material producer can vary and the company recognizes this fact by offering a broad range of operating systems. For the portable material producer, Astec Mobile Screens offers self-contained track and wheel operating systems in all vibrating incline screens to include the PEP high frequency screens and traditional two-bearing conventional screens. For stationary operations, high frequency screens are available in modular and traditional I-Beam structures for pre-screening and/or post-screening applications.

In 2007, Astec Mobile Screens continued its focus on the growing reclaimed asphalt pavement (RAP)
market with the introduction of the ProSizer™ recycling plant that features a PEP high frequency screen and on-board crusher. Prices of liquid asphalt and virgin aggregates have continued to climb which is leading the industry to re-evaluate the use of RAP in hot mix asphalt (HMA) designs. The ProSizer provides one portable processing system for screening and crushing (re-sizing) RAP back to its original size for maximum usage. By increasing RAP in mix designs, asphalt producers can reduce other ingredients, such as liquid asphalt and virgin aggregate, and overall operating costs.

Astec Mobile Screens continued its dominance in the fine screening market with its PEP Vari-Vibe® and Duo-Vibe® line of high frequency screens this past year. For material producers seeking the highest screen capacity in the market for fines removal, chip sizing and more, high frequency screens continue to be the choice. By removing fines dry, without the utilization of water, environmental concerns and operating costs can be significantly reduced. Fines material sizing and removal is a critical factor in aggregate operations so that more sale-able product is produced versus creating waste stockpiles and slurry ponds.

Demand for portable operating systems increased again this past year in both the aggregate and contractor markets. This growth has allowed Astec Mobile Screens' line of track mounted screening plants to continue gaining market share in the domestic and international markets. The Fold ‘n Go 2516KT, introduced in late 2006, has been well received and 2-3 more track mounted additions are expected to be released in early 2008.

Also, this past year Astec Mobile Screens had a successful plant expansion that doubled the manufacturing capacity. This expansion, along with continuous market share growth, are a good sign that the company’s product quality and service performance is being recognized throughout the industry.

Fold ‘n Go 2516KT
A new addition to Astec Mobile Screens line of screening plants, the Fold ‘n Go 2516KT mobile track screening plant that features a double deck screen for processing sand & gravel, top soil, slag, crushed stone and recycled materials. For producers looking to increase screen efficiency, this plant has the extra length to meet processing demands.

KDS 710T
Designed for construction and recycling contractors, the KDS 710T track mounted mobile screening plant is easy to operate and highly reliable in processing recycled materials, crushed stone, demolition waste, top soil and more. Capable of processing on site, this remote controlled track unit can easily move around the site and in tight construction areas.
High Frequency Screens

Multiple configurations for the screens are available in both stationary and portable structures. There are many advantages a high frequency screen provides the material producer from higher production capabilities to more efficient sizing as compared to conventional screens. The twin 2618VM screens in the modular structure shown here are post screening a conventional crushing and screening circuit.

ProSizer 2612V

Another new addition to the Astec Mobile Screens line of screening plants, the ProSizer 2612v is the complete solution for processing RAP (Reclaimed Asphalt Product) millings for the asphalt producer. This closed circuit mobile plant incorporates a double deck PEP Vari-Vibe high frequency screen with a horizontal shaft impactor (HSI) crusher. Using a ProSizer to fractionate RAP allows the producer to increase RAP usage while adding the flexibility and improved control in mix designs.

Modular 2618VM Structure

PEP Vari-Vibe high frequency screens can be designed to be a part of any crushing/screening system, for either pre or post screening. The high level of vibrating RPMs allow for material to stratify and separate at a much faster rate as compared to conventional screens.
Breaker Technology (BTI) a manufacturer and distributor of a wide range of mining, quarry, construction, demolition and recycling equipment is expanding its facilities to accommodate a growing demand for equipment catering to these industries. Current sales volumes and anticipated future growth have identified the need for expansion. Underway is a significant addition at the Canadian manufacturing facility, in conjunction with a complete reorganization of the workflow which will add to the efficiency of the operation. Safety, a key factor in all decision-making and activities at this operation will be enhanced with the new process flow and equipment upgrades. The manufacturing facility expansion is on the heels of relocation to a larger service/distribution facility in Riverside, California and expansion of the technical service department.

A broad line of performance proven hydraulic attachments is offered, including breakers, compactors, pulverizers, shears and multi-processors. Refinement of these product lines is constantly underway in order to enhance results in the field.
A specialty for the company is the comprehensive range of rock breaker systems; stationary, portable and mobile. Models are offered in six series, with 132 boom/breaker combinations for breaking oversized material at primary crushers, grizzlies, drawpoints and stopes. The low profile portable boom system is designed to remain affixed to portable and mobile crushing applications allowing for road transportation, while offering safety and productivity enhancements. Development of a new stationary rock breaker system was completed in 2007, incorporating benefits of fewer parts and improved componentry and maintainability.

BTI also specializes in a full line of rugged, low profile, underground utility vehicles including mobile scalers, mobile rock breakers, scissor lifts, crane trucks, fuel/lube trucks, ammonium nitrate fuel oil (ANFO) loaders, shotcrete mixers and placers, personnel vehicles and cassette systems engineered for long life, low maintenance and ease of service without sacrificing full functionality. The QS Scaler Series has been enhanced with a new 50’ reach model and optional tilt cab, and incorporates the revolutionary vibratory pick scaling head. These scalers have met with great enthusiasm from the industry and have proven to increase production up to 50% while reducing maintenance costs in very demanding applications.

BTI offers unparalleled experience and product support through its extensive worldwide dealer network and strategically located distribution and service outlets.

2008 marks BTI’s 50th anniversary. The worldwide success of this operation is a testament to the dedication of the employees, the customers and the consistent quality and innovation in the products. Commitment to customer service and continuous improvement are high priorities.

MRH Boom System
The new MRH Series of boom systems encompasses all of the important design elements of application, structure, connection, performance and serviceability, while offering enhanced coverage, optimal structural design, intelligent systems designs and commonality of cylinders for hoist, dipper and tilt on all three models.

MBS Series
The MBS Series is ideal for contractors who seek portable, cost effective, safe, high capacity, multi-application production from site to site. The boom systems are designed to remain on the plant due to an exclusive low profile design, which allows the boom to be lowered flat onto the feeder, below the height of the flywheel, for road transportation.
TM Mobile Rock Breakers
The key to efficient tramming is keeping the rock at a manageable size. The TM Series of Mobile Rockbreaker pulverizes large chunks of muck rather than the time consuming and often risky procedure of blasting. The machine can be sent on radio control, keeping the operator away from any bad ground conditions and can break material up to six feet thick.

Stationary Boom System
Boom systems in stationary applications will quickly, efficiently and safely rake and break material that is jamming/bridging in the feeder, eliminating the need to selectively sort the material during the loading operation and keeping personnel out of the crusher and feeder. Boom systems are available ranging from 10 ft to 45 ft reach, combined with 21 hydraulic breaker attachment options, providing 132 possible boom/breaker combinations.

BT Hydraulic Breaker Series
Designed for stable high-speed percussion, the BT Series of Hydraulic Breakers offers high value and durability for all aggregate, mining, construction and demolition material breaking jobs. A narrow profile allows for trenching in confined spaces as well as optimal visibility and access when working in tight quarters.
BT Series are available in 10 models ranging from 550 to 10,000 ft lb class.
The continued worldwide rise in basic commodity prices in 2007 has resulted in previously unexploited mineral deposits being proclaimed as new mining ventures. The expansions of existing mines and quarries has resulted in a demand for machinery and expertise not seen for many years in the South African mining and aggregate industry.

In addition, there has been a worldwide increase in the demand for energy. South Africa produces approximately a third of its gasoline requirement and 90% of its electricity from coal, this has resulted in the fast track expansion of existing facilities and the export of these technologies abroad. The demand for energy has also seen a renewed interest and investment in uranium, both in South Africa and our neighboring countries.

South Africa will host the FIFA world cup in 2010 and has embarked on the construction of new, and the revamping of existing soccer stadiums, along with the supporting infrastructure to transport and accommodate the expected fans from abroad.
Osborn’s performance in 2007 shows the effect of these demands, where with our 88 years of experience and expertise in the quarrying and mining industries we continue to offer process equipment including new machines, factory warranted rebuilds, replacement parts, conveyor idlers and project management to the South African industry and the world at large.

To cope with the demand, Osborn continues factory expansion, investment in additional production machinery and employment.

Product development will see the launch of the updated OT 3042 mk 2 jaw crusher track in January 2008, while renewed demand for mills, rotary breakers and scrubbers have required re-engineering of mature designs. Coupled to our offering of locally built Jaw, Cone, Double Roll and Rolling Ring crushers, vibrating screens and feeders, apron feeders and track or rubber mounted mobile equipment, Osborn can offer a turnkey solution to its customers’ needs.

Osborn remains proud of its continued accreditation as an integrated ISO 9001 – 2000, 14001 and 18000 manufacturer and supplier.
Washing and Dewatering Screen
Osborn Obex Washing & Dewatering Screens - easy to maintain vibrating motor drive system with adjustable stroke. Made in single deck format and can operate at an incline to improve drainage.

Conveyor System
Conveyor and Classifier System - to de-slime aggregate in a lime plant.

SBS Cone Crusher
Osborn 44 SBS installation in an aggregate plant showing the simplified upper frame design. This design reduces possible leak points and items to be damaged.
As the Underground Group of Astec Industries, Astec Underground and American Augers offer their customers the broadest range of breakthrough solutions in the underground construction industry. The companies’ product mix includes utility trenchers, horizontal directional drills (HDDs), drilling fluid systems, horizontal auger boring machines, downhole tooling, and accessories. Astec Underground and American Augers provide their customers the best value, productivity, and return on investment in the industry by combining top-notch service with application expertise and innovative, high-quality American Augers and Trencor products along with the proven value of the Astec line of utility trenchers and compact HDDs. Customers seek out these brands for their reputation of dependability and innovation when tackling the toughest underground jobs throughout the world.

GREEN FACTS:
Astec Underground continues to develop its line of horizontal directional drills for installing residential utilities with minimal impact on the surrounding landscape and environment.

American Augers introduced the Penetrator vertical and high angle drilling rig created specifically to support the oil and gas industry by more efficiently accessing pay zones with less impact and damage to the surrounding environment.
Astec Underground provides specialized equipment to meet the varied underground construction needs of a diverse mix of customers involved in the pipeline industry and the installation of infrastructure like utility and communication lines. The company offers Trencor high performance rock trenchers and road miners and the Astec line of utility trenchers and horizontal directional drills. Astec Underground products are manufactured at the company’s state-of-the-art, 360,000-square-foot facility in Loudon, Tenn.

For more than 60 years, Trencor has manufactured high-quality, innovative machines for heavy-duty rock trenching, and milling needs. This tough, ruggedly built equipment is a favorite of the demanding construction and oil and gas markets. With the world’s growing energy needs, these markets will continue to increase demand for these reliable, specialized workhorses.

The Trencor brand features eight different trencher models, including the world’s largest, most powerful trencher.

In response to customer demand in 2007, Trencor revived and updated
the wheel trencher design with the latest technology and design to develop the Trencher T1360 Wheel Trencher. This current unit combines the latest technology and modern design with the heritage of Capitol and Barber-Greene machines. Demand for these machines has been strong. Their high-production capability has earned them a spot on five of the seven segments of the Rockies Express Pipeline project that began this year.

Trencher products are also a popular choice for international customers, including many in the oil-rich Middle East. Almost 40 percent of the company’s products are sold to customers outside the United States. The Astec line of walk-behind and utility trenchers and compact horizontal directional drills benefit from the same technology and attention to design that makes the large-scale Trencher machines so popular. Since the company purchased the product mix from Case in 2002, it has continued to enhance the line’s reputation for performance and durability. Newly engineered units are steadily being added to the product mix.

The Astec compact horizontal directional drills complement the trencher lineup to meet customers’ underground construction needs and are a particularly bright spot in the company’s vision for the future. These units utilize technology and engineering derived from the maxi drills produced by Astec Underground’s sister company, American Augers. Two new compact horizontal directional drills were introduced in 2007 — the DD-2024 and the DD-1215. These machines are sized for working in tight conditions, but boast plenty of power to keep production high. These machines are popular with the growing utility and cable installation industry.

RT1160 — The new Astec RT1160 made its debut at ICUEE in October. This trencher represents the company’s vision for the future of its utility trencher line with features and styling cues developed through extensive customer feedback. The 115-horsepower trencher offers unmatched performance and reliability with features like an open platform design and an optional tilt frame.

RT660II — The Astec RT660II received an update in 2007 with the addition of a more powerful 75 horsepower engine and a new body style. The popular RT660 has long been a favorite of utility contractors needing a powerful, versatile machine.
T1660
Trencor trenchers like this Trencor T1660 tackle some of the toughest job sites in the underground construction industry. Contractors in the construction and pipeline industries have come to rely on these heavy-duty mechanical drive track trenchers and their proven performance.

RT60
The Astec RT60 received a fresh look in 2007 with the addition of a sleek sloped hood. The RT60 is one of four walk-behind units in the Astec lineup that offer plenty of appeal to rental customers who seek simplicity, flexibility and dependability when considering machines for their fleets.

Maxi Sneaker Series D
Easily recognized as the most seasoned model in the Astec lineup, the venerable Maxi-Sneaker Series D celebrated its 35th birthday in 2007. This year's innovation was the addition of a heavy-duty saw attachment with a quick-attach mechanism for additional versatility of this veteran machine.
Since 1970, customers worldwide have come to know American Augers as a dedicated manufacturer of underground technology equipment, which includes state-of-the-art horizontal directional drills, earth boring machines, mud pump and cleaning systems, and various product tooling or accessory items. Each of these categories produce products that maintain rugged, unsurpassed power, and industry leading designs.

American Augers was the first HDD manufacturer to eliminate chain and introduce a rack and pinion carriage design, which is now the industry standard. American Augers still maintains the distinction of manufacturing the largest maxirig system available on the market today with 1,100,000 lbs of thrust and pullback capabilities. Innovations like these have been important to staying current with marketplace needs where the ability to perform larger pipeline, utility installation, and crossing projects are vitally important to being successful in today’s industry.
American Augers changed auger boring when it introduced its new line of “Next Generation” boring machines. These machines are equipped with the fast return system known as “Quik Tran”, and the “Quik Split” design, which allows the machine to be separated into sections to allow for lighter and faster lifts into and out of the auger boring pit.

American Augers also continues to design and manufacturer mud pumps and cleaning systems. American Augers recognizes the essential part that drilling fluid (mud) plays in successful directional drilling/auger boring, so we have designed mud equipment for jobs of every size, including stand-alone mud pumps that can be used to power the biggest mud motor. American Augers mud cleaners use linear shakers, instead of the random shakers used in competitor systems. This increases the efficiency the driller has in being able to recycle mud.

American Augers has begun to diversify its product offerings and in 2007 launched its first introduction into the oil and gas marketplace when it introduced the VR-330 vertical drilling rig. American Augers designed the VR-330 through its can-do workforce which created a product that puts an emphasis on speed, performance, and safety for an industry which continues to experience exponential growth.

American Augers is committed to manufacturing equipment that helps preserve the sanctity of the global environment. American Augers does so by reducing noise and/or emission outputs, and emphasizing the fact that trenchless technology equipment requires little or no open cutting, and has very minimal impact on natural surfaces, features or habitats.

**DD-210 Directional Drill**

Introduced in 2007, the DD-210 is the smallest of the American Augers maxi-rig product line, and is a track mounted machine, which is capable of 210,000 lbs of thrust/pullback. The DD-210 satisfies contractors, as the ideal piece of equipment for short distance utility construction and smaller diameter pipeline installation projects.

**DD-1100 Direction Drill**

As the largest tri-axle mounted maxi-rig available in the market today, complete with a best-in-industry 1,100,000 lbs of thrust/pullback and a 700 horsepower diesel engine, the DD-1100 is the premier piece of horizontal directional drilling equipment that personifies shear power, reliable innovation, and field proven versatility.
48/54-900 NG Boring Unit
Always popular with customers, the mid-range 48/54-900 NG auger boring unit was reintroduced in 2007 with an upgrade in total horsepower (174HP), increased torque (119,095 ft-lbs) and increased overall speed. Complete with 400,000 lbs. of total thrust and a working range of 24 - 54 inch casing diameter, American Augers knows the 48/54-900 NG has the potential to always be a best-in-class product offering.

MPR-6000 Mud System
The MPR-6000 is the latest innovation in drilling fluid systems and is the perfect compliment for all American Augers drilling products. This versatile mud system, which debuted in 2007 has the ability to mix, pump and provide large volumes of mud down hole, and is great for use with mud motors or large reamers. Also, improvements in overall recycling and cleaning capacities make this unit a must-have when working in threatening ground conditions or when undertaking long-reach, large diameter bores.

DD-440T Directional Drill
The newest addition to American Augers maxi-rig product line, the DD-440T is becoming widely recognized by customers as the essential track mounted unit that combines optimum mid-size power with jobsite mobility. In today’s competitive underground technology marketplace, this surface launched, fluid assisted, mechanical directional drilling system has the distinction of being the only track mounted directional drill that offers the highest range of thrust/pullback power.
GREEN GROUP

The Green Group (Peterson Pacific) specializes in developing processing and delivery equipment that turns low-grade organic materials into high-value products. For 25 years, Peterson has been the industry leader in innovative design of reliable machines that build profit for companies. Peterson provides solutions for a variety of industries such as construction, paper, wood-based energy generation and landscaping.

Peterson leads the industry in sales of heavy-duty grinders and our pulpwood tree processors and blower trucks are the best of the best.

GREEN FACTS:

Peterson Horizontal Grinders are widely used in reclaiming wood fiber that previously would be considered waste material. Stumps, branches, and other by-products from land clearing and forestry are processed through Peterson grinders and are then usable as mulch, compost, hog (co-generation) fuel and other products. This not only reclaims the fiber, but it removes the material from the waste stream that fills our landfills, thus extending the life of existing landfills.

Peterson Pacific Corp.
Peterson is known for manufacturing industry-leading Whole Tree Pulpwood Chippers, Horizontal Grinders and Blower Trucks.

Peterson Pacific Corp. has been an Oregon Corporation since 1981. The company began as Wilbur Peterson & Sons, a heavy construction company. In July of 2007, Peterson was purchased by Astec Industries, Inc., opening a new chapter in their corporate history.

Peterson expanded into manufacturing to develop equipment to suit their land clearing / construction needs. A portable chain flail Delimber-Debarker was designed first, the Model DD 4800. The Model DDC 5000, a portable Delimber-Debarker-Chipper, was developed next followed by the development of other portable equipment for the paper pulp industry. In 1990 Peterson developed its first wood waste recycling machine.

Continuous development of wood grinders has led to the current line of horizontal feed wood grinders. These models have been very well received in the U.S. with production rates up to 150 tons per hour.
With the 2001 acquisition of manufacturing rights for the BloTech line of blower trucks, Peterson has extended its reach into the soil erosion and landscape markets, building trucks designed for distributing bark, mulch, compost and soil amendments.

The company has rapidly grown with the demands of the industry and in 1993 built their 60,000 sq. ft. manufacturing plant in Eugene, Oregon. In 2000 they expanded again, adding an additional 50,000 sq. ft. manufacturing facility.

5900 Whole Tree Disc Chipper
The Peterson whole tree disc chippers are built to produce high quality chips. The model 5900 chipper can produce fuel chips, and produces premium grade pulpwood chips when combined with a model 4800 debarker.

5000H Horizontal Grinder
Peterson developed one of the first commercially successful Horizontal Grinders. Continuous development has led to the current line of horizontal feed grinders. These models have been very well received both in the U.S. and overseas, with production rates up to 150 tons per hour.
**5710C Horizontal Grinder**

Peterson 5710C Horizontal Grinders produce high quality products from a wide variety of waste wood feedstocks. Pallets can be converted to mulch or boiler fuel. Land clearing debris can become a component of soil enriching composts.

**BTR70 Blower Truck**

Peterson Blower Trucks and Trailers are designed to deliver and apply materials, including mulches, compost and soil mixes. They are used by contractors in the erosion control, development, and landscape sectors.

**6700B Horizontal Grinder**

Reducing volume and increasing density of material in municipal landfills is a perfect application for Peterson Horizontal Grinders. In addition to extending the life of the landfill, some materials can be diverted from the waste stream and converted into alternative daily cover.