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# **FULL LINE CATALOG**

# MORE THAN IRON

*KOLBERG-PIONEER and JCI combine to form the largest, most complete product offering for aggregate processing equipment obtainable from a single manufacturer. From rugged scalping screens to roller bearing cone crushers, jaw and impact crushers, horizontal and incline screens through material washing, classifying, telescoping stackers, portable screening plants and pugmill plants. No single distribution network provides a more complete source for local sales – service – parts and financing options.*

*With a history dating back to 1928, PIONEER is renowned for portable jaw plants, innovative impact crushers, heavy-duty feeders/screens, recycle and portable plant designs. Since 1964, KOLBERG conveyors, washing and classifying equipment and portable screens have set industry standards for capacity, low operating costs and the highest resale value at trade-in time. JCI employees trace their roots to the original 1950's ElJay® roller bearing cone crushers and field proven horizontal screen designs. Today, JCI designs and manufactures the most technologically advanced roller bearing cone crushers in the industry.*

## MARKETS SERVED

	Mining	Stationary Aggregate	Portable Aggregate	Recycle	Bulk Material
<b>PRODUCTS &amp; SERVICES</b>					
Material Analysis	X	X	X	X	X
Equipment & Operating					
Cost Comparisons	X	X	X	X	X
Plant Layout	X	X	X	X	X
Feeders/Grizzlies	X	X	X	X	X
Screens	X	X	X	X	X
Jaw Crushers	X	X	X	X	
Cone Crushers	X	X	X	X	
Horizontal Shaft Impactors	X	X	X	X	
Vertical Shaft Impactors	X	X	X		
Sizing Screens	X	X	X	X	X
Washing	X	X	X		
Classifying		X	X		
Conveyors	X	X	X	X	X
Telescoping Stackers	X	X	X	X	X
Portable Crushing Plants	X		X	X	X
Track Mounted Plants	X		X	X	X
Portable Screen Plants			X	X	X
Recycle Crushers			X	X	
Complete Turn Key Systems	X	X	X	X	
Rebuilds	X	X	X	X	
Pugmills	X	X	X	X	X
Parts Support	X	X	X	X	X
Service/Training	X	X	X	X	X
Retro-Fit Packages	X	X	X	X	X
Software	X	X	X	X	X
Warranty	X	X	X	X	X
Financing	X	X	X	X	X

**IMAGINE THE OPPORTUNITIES**



# CORPORATE FOCUS & COMMITMENT

*As members of the **Astec** family of companies, **KOLBERG-PIONEER** and **JCI** are focused on the aggregate processing and recycle industries. Unlike other manufacturers who suffer from revolving ownership or directional changes, our corporate parent truly understands aggregate processing equipment and makes the commitment to continually invest in new product development, manufacturing technologies, quality assurance and customer satisfaction. Resources are available from across the **Astec** family spectrum, assuring you the technology and support to meet tomorrow's competitive environment.*

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## **JCI**

This world class manufacturing facility, located in Eugene, Oregon, boasts 130,000 square feet of manufacturing space. Organized as focused factories by product line and supported by CNC machinery and Robotics. A state-of-the-art ERP system ensures high quality products that are delivered in a timely manner.



## **KOLBERG-PIONEER**

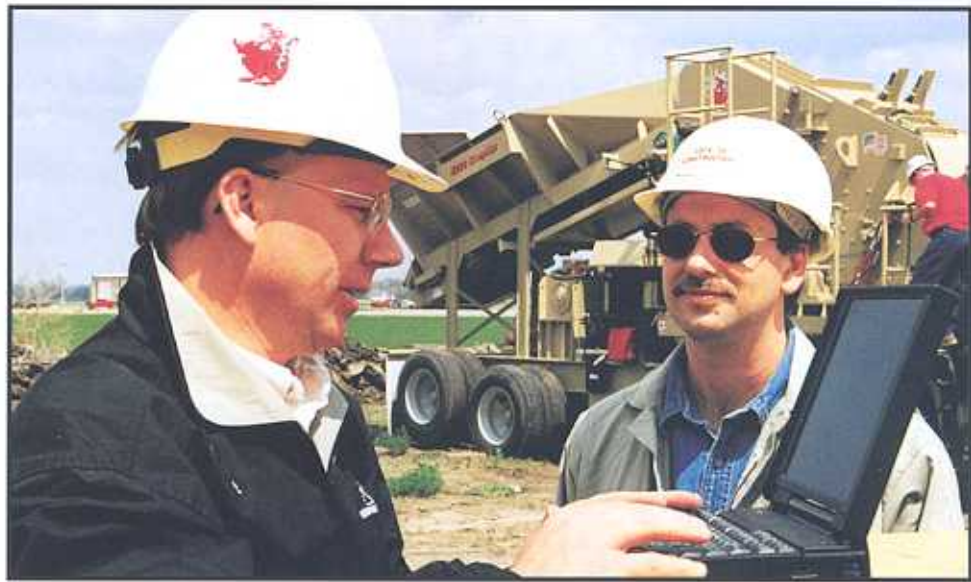
Located in Yankton, South Dakota, this 250,000 sq. ft. modern manufacturing facility contains the latest in CNC machining centers, torch tables, angle cut/punch and plasma work centers. Design Engineers using 3D AutoCAD software, supported by a state-of-the-art ERP system, ensure efficient order entry and shop throughput. Cell manufacturing practices deliver quality, value added assembly.





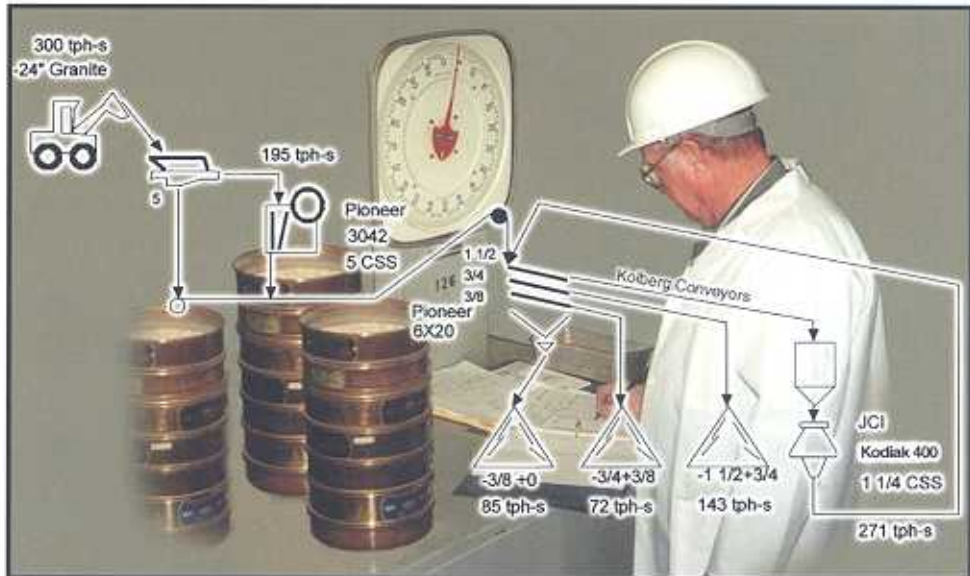
## Processing Experience

People make the difference at KOLBERG-PIONEER and JCI. From the initial phone call, our aggregate processing experience is evident – understanding your material and objectives - lowering your production costs – maximizing your profits. Hands-on application engineers with decades of field experience are available to assist in your material and process evaluation. Nothing replaces experience!



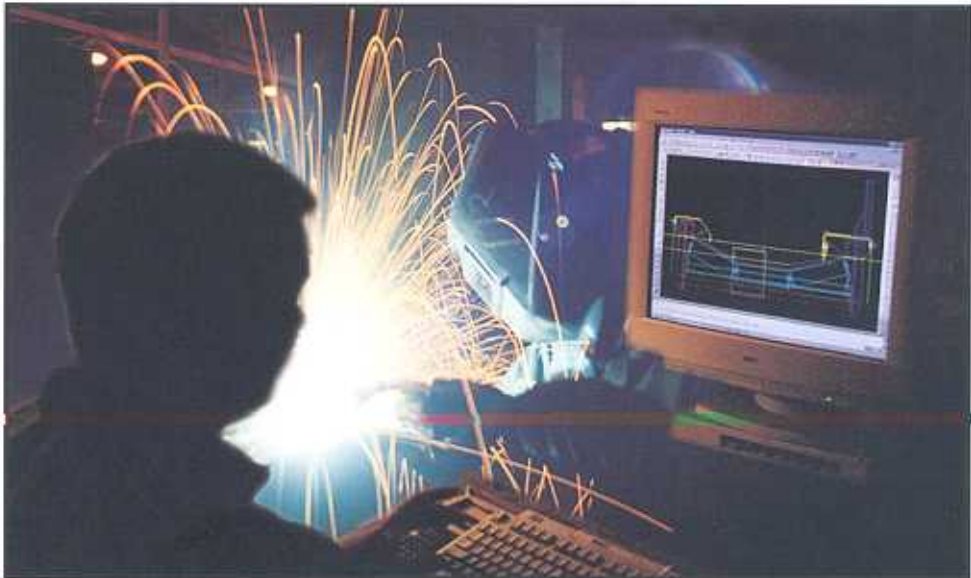
## Material Analysis

Our application engineers can assist you with material evaluations including gradation and sieve analysis, crushing characteristics, abrasion, wear costs estimates and projected production rates.



## Customer Focus

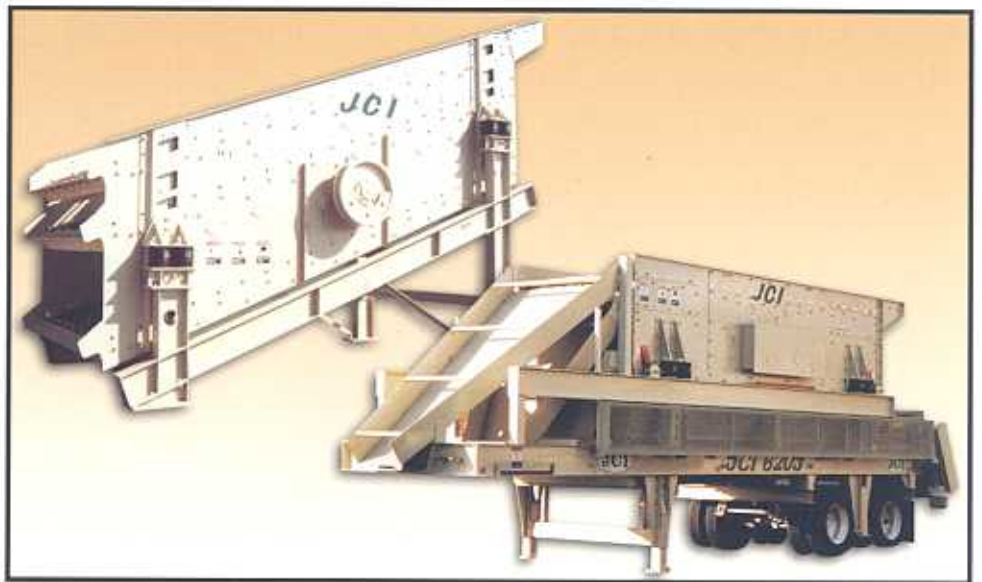
You have one-on-one access to our design and application engineers. We listen to your objectives, adding our field experiences to meet your specialized requirements. Factory trained service crews fine-tune your operation, putting the maximum amount of product in the sell pile. After sale support with 24 hour Hotline access to factory personnel in no more than 15 minutes. We understand that time is money!





## Horizontal & Incline Screens

JCI's double and triple-deck, oval motion screens range in size from 5'x14' to 8'x20' and deliver efficient screening with the ability to quickly change the speed, length, and angle of the vibrating action. The screen can be configured for either scalping, sizing or fine screening applications.



## Combo Screen

JCI's exclusive screen design combines the benefits of both a horizontal screen and an incline screen in a single unit. The unit features a three-deck design with the top two decks set at an incline sloping to horizontal. The top deck starts at 20 degrees then transitions to 10, then to horizontal. The second deck is 15 degrees and then 7.5, then to horizontal. The third deck is completely horizontal. The combo screen is ideal for producers to increase current capacity (up to 20%) while retaining the same footprint.



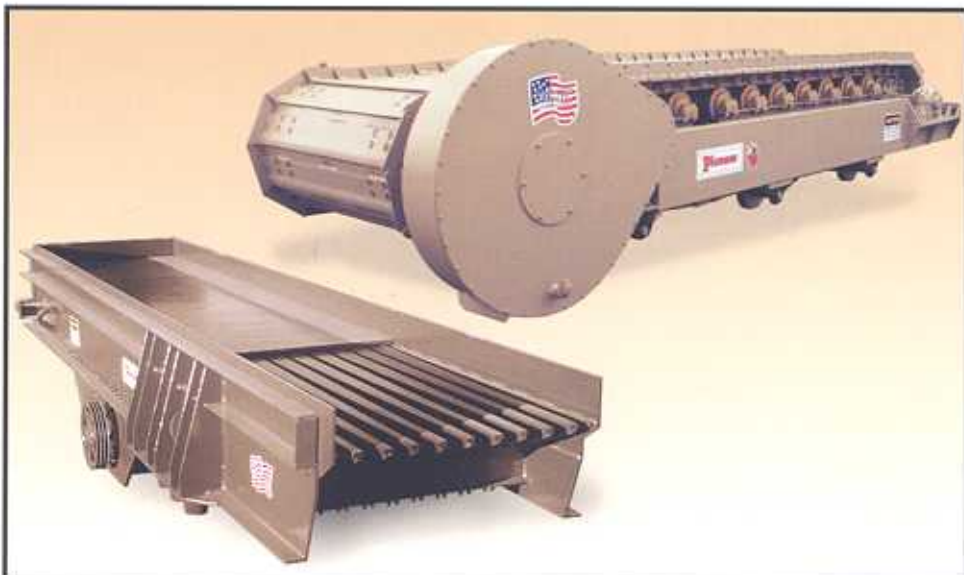
## MESABI® Screen

Designed with a positive throw to increase production 3 ways: efficient scalping, size multiple products and fines rejection. Works in typical wet and dirty deposits with virtually no plugging. The 4-bearing scalping screen is built with a reinforced main frame, rigid box-type screen pan, IsoVibe® screen mounting and heavy-duty eccentric shaft assembly.



## Scalping/Feeding

The extra heavy-duty PIONEER Mesabi® and JCI horizontal oval motion designs lead a family of screens, grizzly and pan feeders designed for rugged applications. Engineered for scalping, separating fines, wet-sticky material handling or high production in a low profile package, the product lineup enables you to select the correct equipment to meet your specific application requirements. All components from a single source, designed to work as an efficient processing system.



## Vanguard Series Jaw Crusher All New Design

Pioneer introduces the 2650, 3055, 3144, 3352, 4450 and 3165 models as an all new design with many user friendly features, including a dual wedge hydraulic adjustment for easy closed side setting changes. Heavy Duty 63" flywheels optimize  $wk^2$  and reduce peak horsepower requirements. Optimal 3-D computer design of stroke, nip and toggle angles produce an aggressive crushing action. Replaceable lower wear lips on pitman and base for long service life.



## Track Mounted Apron Feeder

Pioneer makes the only track mounted apron feeder. These are heavy duty 'mine' quality machines. Designed and engineered for extreme operating conditions. Shown here is a 48" x 43' model. Let us take care of all your track mounted needs.





## 391 Track Mounted Screen

This all new track mounted screen plant (with on board fold out stacking conveyors) joins our growing line of Jaw and Horizontal Shaft Impactor Track Mounted line of aggregate processing equipment. Standard equipment include on-board power. Just unload from a lowboy trailer, unfold the conveyors and you're ready to screen. No additional set up required.



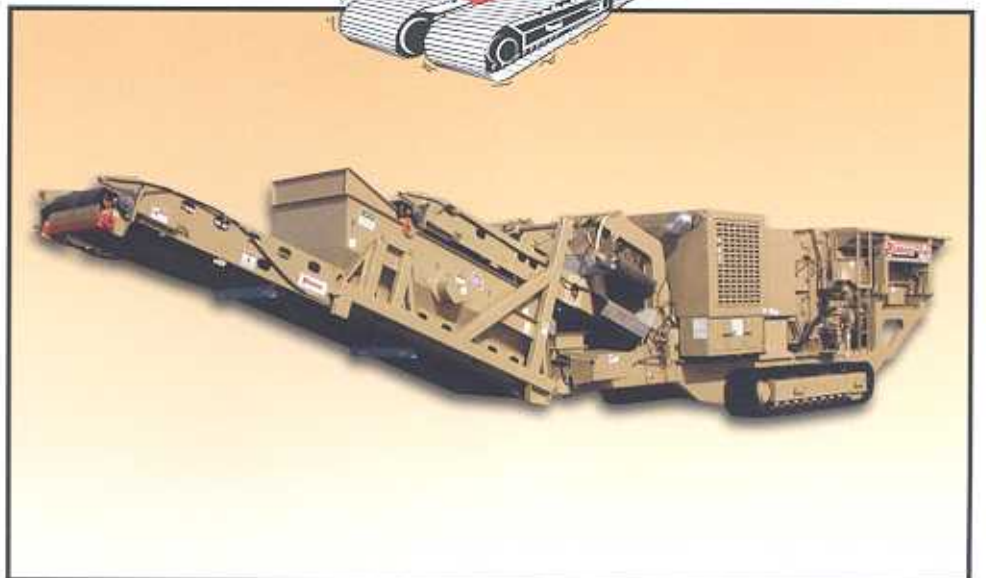
## RT2650 Track Mounted Jaw

The Pioneer Rocky Trax is the only crawler track mounted crusher that is designed, manufactured and supported in the U.S.A. Designed for ultimate in portability you can just drive off a lowboy trailer and immediately begin crushing. NO additional set up required. Standard items include a tier II compliant diesel engine and a remote control. Options include a cross belt permanent magnet.



## RT4250 Track Mounted Impact

Following in the 'tracks' of our 2650 Jaw Crusher, the 4250 Horizontal Shaft Impact crusher track mounted model has an optional closed circuit conveyor and an incline screen enabling producers to make a 'spec product' in a single pass. "Overs" are returned to the crushing material flow, via an optional onboard closed circuit conveyor, for additional size reduction. This crusher is especially effective in crushing recycled concrete and RAP.





## Fast Pack Jaw Plant

Multiple axle configurations available to meet all DOT requirements. Special emphasis on transition points for proper material flow. Easy maintenance and service access. Factory designed in conjunction with the cone crusher and screen component engineers to work as a system, not an afterthought. Innovative suspension designs.



## Fast Pack Screen Plant

JCI builds the largest portable screen (8'x20') on the market today. Complete with onboard Tier II diesel power, hydraulic folding stairway, and on-board hydraulic foundations enable this plant to be set up and running in literally just minutes. Dual under screen conveyors can be reversed for additional product production. Side discharge conveyors are field reversible to either side for optimum work space utilization.



## Fast Pack Cone Plant

JCI engineers and manufactures their field proven KODIAK roller bearing cone crusher in a "Fast Pack" package. On board surge bin enables the cone to be choke fed, optimizing particle shape and production (TPH). On-board power for system configuration or use as a stand alone crushing plant. Hydraulic powered steel foundations eliminate the need for cribbing timbers. On-board hydraulic powered combination discharge/transfer conveyor for optimal material transition to the next process. All on one load, NO additional load for jump conveyors.





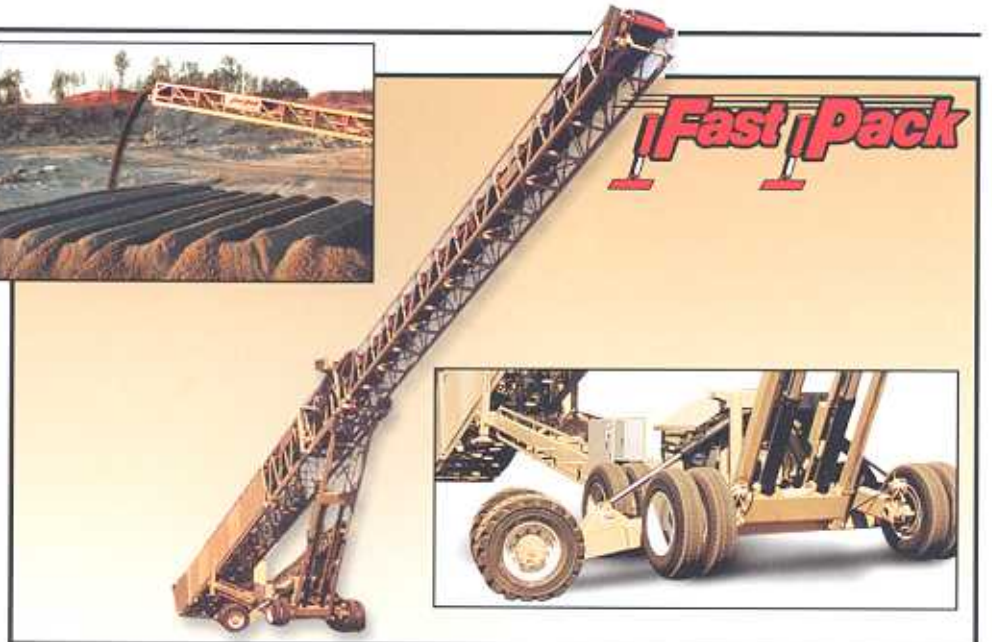
## Fast Pack Screen Plant

Fully self-contained screen plant. Three on-board stacking conveyors for optimum stockpiling capacity. Durable design and heavy duty construction for long service life. User friendly controls do not require a standby operator. Easy operator access for service.



## Fast Pack Telescoping Stacker

PLC control of radial travel, raise/lower and extend/retract movements create custom **FULLY** non-segregated stockpiles. Patented axle assembly provides optimum road portability and minimal set-up time. PLC controller and the Gull Wing axle design deliver uninterrupted stockpiling. Multiple sizes available. Rugged design for long service life. Available in 60'/110', 70'/130' and 80'/150' lengths.



## Fast Pack Complete Plant

A true 500 TPH crushing, screening and stockpiling plant that can be 'set up' in under four hours. Self contained on board Tier II diesel power for ultimate flexibility and energy management and eliminate the traditional manhandling of bulky electrical cables required with a central gen set. Hydraulic steel plate foundations eliminate the need for cribbing with timbers. Set up, plant adjustments and tear down are efficiently accomplished with the flip of a hydraulic lever.





## Horizontal Shaft Impactors

Big capacity - small foot print - no specialized transport truck. These entry level impactor plants are designed for recycling concrete-asphalt & secondary crushing of limestone. Maximum Performance Rotor offers the mass of a solid design with the clearances of an open configuration. Low charge height and on-plant stacking conveyor. Pioneer recycle impact crushers feature the MRP rotor design and are available in two, three, and four bar configurations for maximum material penetration and control of particle shape.



## High Volume

Pioneer recycle jaw crushers are designed for high volume production with an aggressive toggle action and pitman stroke. The crushing chamber is designed with the maximum nip angle. A pitman barrel protector plate prevents damage from slabby material. Side delivery conveyors handle rebar with ease.



## 2-Pack and 3-Pack Recycler

High capacity combined with flexibility. A variety of crushing options: multiple jaws, cones and horizontal shaft impactor models available in various sizes/capacities. Multiple screen sizes and styles (horizontal and incline) to choose from. On-board power plant and hydraulics simplify set up and tear down times. Engineered as a highly mobile recycle crushing spread with low operating costs in mind.





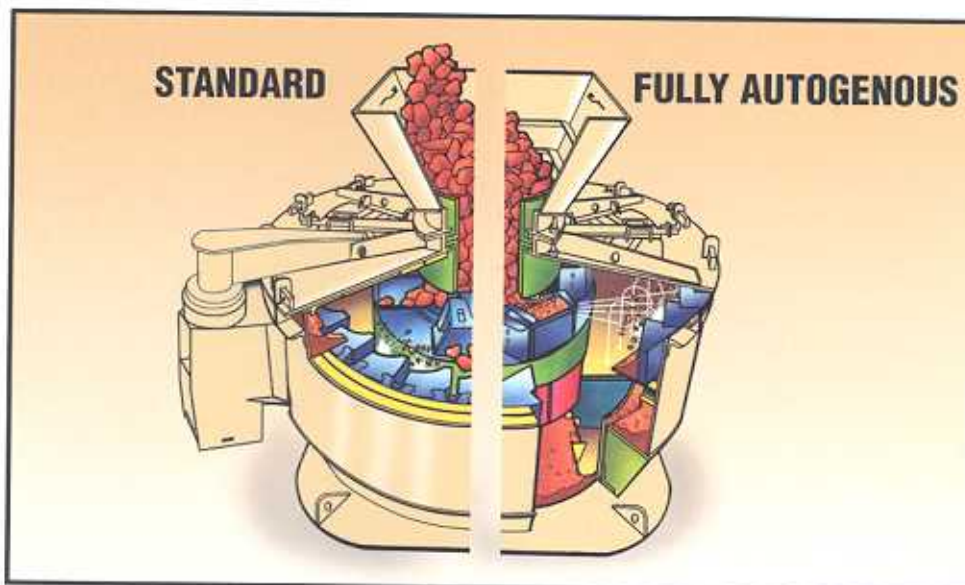
## Portable VSI Plants

Numerous crusher sizes to meet your TPH requirements. Multiple drive configurations. EV Series: single motor. EVT Series: dual electric motor. DCV Series: Diesel – counter shaft w/V-belt. DGV Series: Diesel gear box w/V-Belt. Single or tandem axle chassis in various lengths, with service platform & power unit support. Optional on-plant fuel tanks.



## Vertical Shaft Impactors

These innovative designs, incorporating a hybrid rock shelf, produce more spec product in a fully autogenous (rock on rock) configuration. Dramatic reduction in wear costs with reverse cascade material flow. Reduced re-circulating load. Ideal for meeting Superpave cubicity requirements.



## Soil Stabilization

The unique spiral paddle design of the KOLBERG pugmill chamber delivers a more aggressive mixing action. Adjustable bolt-on paddles allow variable retention time. Available options include: a second feed hopper, electronic belt scales and liquid or solid additive introduction systems.





## Complete Turnkey Systems

You benefit from a single source for material testing and flow analysis through integrated design of feeding, crushing, classifying, screening, washing and stockpiling components for best overall value. Coordinated delivery and set-up. Equipment pre-assembled at the factory for efficient on-site set up and reduced installation time. No excuses.



## Experienced People

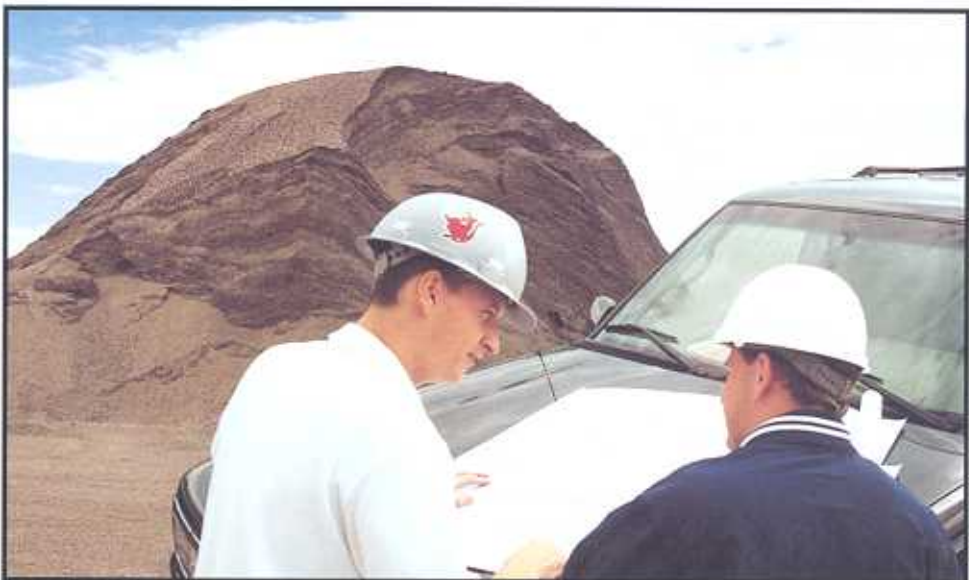
Engineers with decades of experience who are recognized in the industry for their published technical articles, national and regional seminars and workshop presentations. Engineers with hands-on field experience using state-of-the-art application software and material lab analysis are focused on your individual objectives.



## Partners Create Investment Value

KOLBERG-PIONEER and JCI invest in understanding your objectives. Our relationship goal is to look beyond today's needs, enabling us to respond to your future opportunities, giving you the greatest value for your investment. The result: an engineered system that delivers profits over the life of your equipment.

We realize there are **no commodity solutions.**

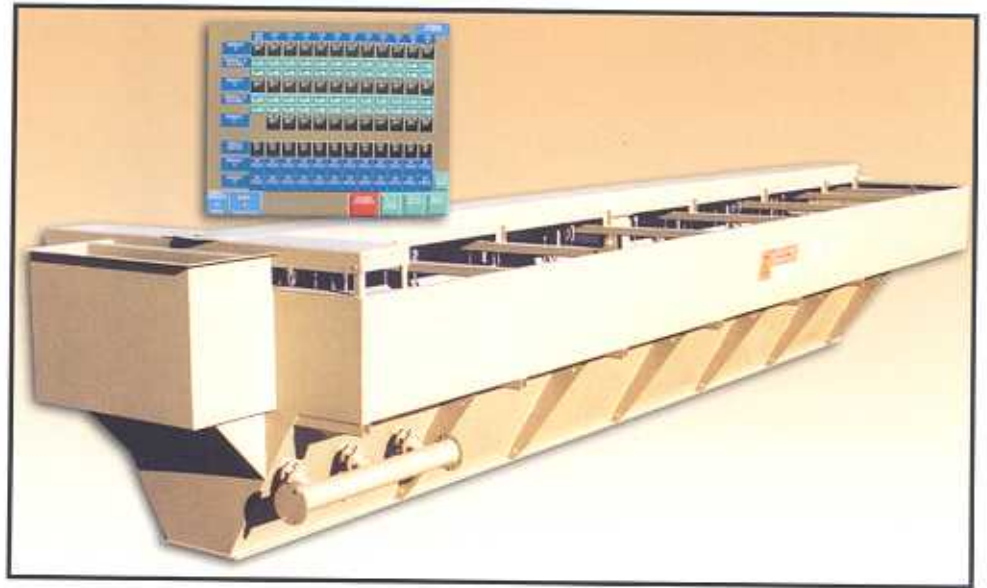




## Classifying and Controls

Computerized Spec-Select® controls let you meet tomorrow's stringent SE and FM specifications. Tanks are available in portable, semi-portable and stationary designs. Blend sand particles to produce 3 products simultaneously (2 spec products), rejecting clay, silts and slime. Dart-shaped urethane valves and seats provide precise slurry discharge and improved sealing control.

Retro-fit your existing controller with either Spec-Select I, II or III models. Upgrade your current tank (any manufacturers) with state-of-the-art controllers for more spec product at a fraction of the cost vs. new.



## Wash Plants-Skid

KOLBERG quality components in a compact plant feeding 4 stacking conveyors (3 screens, 1 sand screw). The 1800 series offers a single water inlet and your choice of incline or JCI horizontal screens in an economical package. Standard urethane on both the outer and inner wear shoes deliver increased wear life. Standard 36" single flight fine material washer.



## Wash Plants-Portable

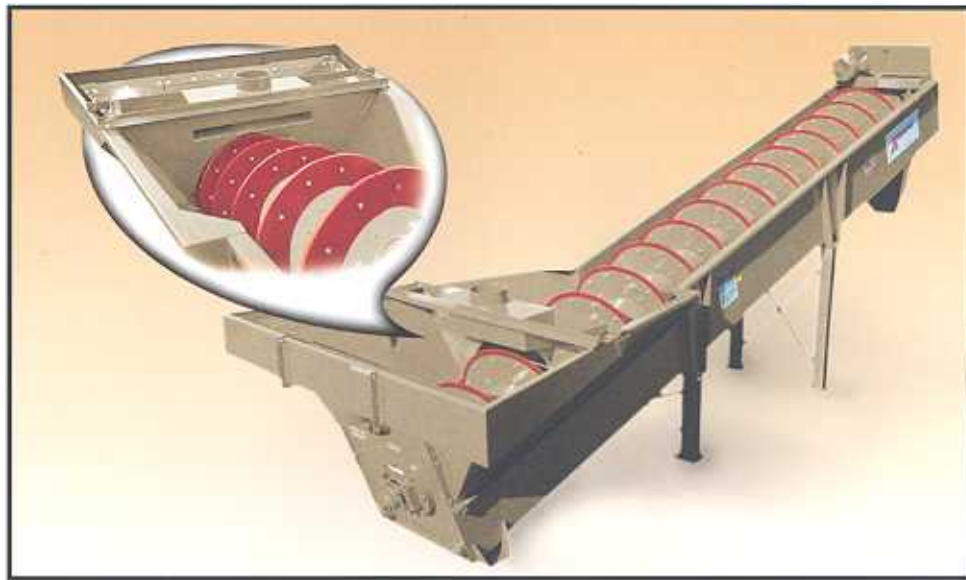
When production rates count... KOLBERG offers the industry's largest portable screening and washing plant with capacity up to 500 tons per hour. Screen sizes up to 6'x20' in either incline or JCI horizontal configurations. For minimal set up requirements, all plumbing connects to a single water inlet. 36" or 44" twin sand screws and efficient gear reducers make this the low cost producer.





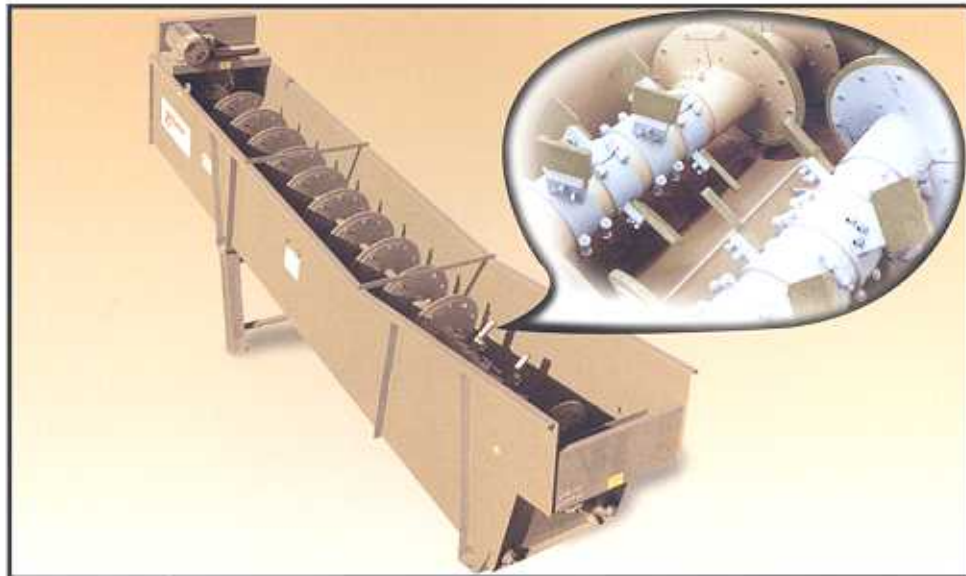
## Fine Material Washer

Improved fines separation with controlled material entry feed box-baffle plate and rising current manifold. Standard urethane outer and inner wear shoes deliver increased wear life on flights. Long adjustable weirs handle larger slurry volume. High efficiency gear reducers require less horsepower per tons per hour for lower operating costs.



## Coarse Material Washer

Flexibility is designed into each coarse material washer. Bolt-on design allows you to interchange flights with spiral mounted paddles for maximum scrubbing action. Paddle tips are replaceable, reversible and adjustable to vary material retention time and reduce wear costs. High efficiency gear reducers require less HP/TPH.



## Log Washers

Side-by-side field tests prove that KOLBERG log washers beat the competition. Not only does KOLBERG produce more TPH at a lower energy costs per ton, but the spiral paddle design has proven to clean better! The unique spiral paddle design, combined with a state-of-the-art gear reducer, reduces power surges and lowers operating costs. The 48' diameter unit is the industry's largest.





## Remote Adjust

Patented features: Internal counterweights never need rebalancing. Field replaceable, left hand brass threads. Hydraulic lock ring for secure CSS. Dual hydraulic motor bowl rotation. Dual action tramp iron relief cylinders with 7' travel. Fluid ring manifold. Massive full strut (5 pier) base frame. User friendly - one finger control panel. 300 & 400 HP models (500 HP under development). High speed - aggressive steep chamber design. True remote adjust control of CSS. Highest TPH.



## LS Models

JCI's 1200LS and 1400LS cone crushers utilize anti-friction roller bearings that efficiently transfer power to the crushing chamber and an aggressive stroke for maximum production. The oil reservoirs are self contained, taking less space and allowing for quicker installation. These machines are among the most portable on the market. The 200 HP 1200LS and the 300 HP 1400LS operate at 750-950 RPM and 700-900 RPM respectively.



## Stationary Plants

PIONEER offers stationary plant designs in sizes from 2436 through 4248. Design flexibility to meet your application requirements. All plant components engineered to fit as a system for reduced set up time on your job site. Multiple feeding, scalping, screening and delivery methods available. Designed to work with KOLBERG and JCI products for a complete aggregate operation without the need for third party fabricators.





## Portable & Recycle Plants

PIONEER recycle plants, introduced in 1978, are designed specifically for processing tough recycle materials. Optional side discharge conveyor handles rebar contamination with less plugging or belt damage. Barrel protector plate prevents pitman damage from slabby material. 8' stepped grizzly. While sized for recycle feed materials, all PIONEER jaws are designed to withstand the extreme forces found in hard rock crushing.



## Portable Conveyors

Lengths from 40' to 125'. Highway portable. Power radial travel option. Standard features include: truck type tires, receiving trough, pin lock undercarriage and correctly sized drives for greater TPH capacity. Heavy Duty components: bearings, shafts, pulleys and idlers. Jig-welded lattice frame. Proven highest resale value at trade-in time.



## Radial Stackers

Lengths up to 125'. Belt widths from 24" to 36". Side-fold or top-fold designs for easy set up. Power radial travel. Single axle or tandem walking beam. Cam-arm style hydraulic under carriage for constant radial travel radius. Jig-welded lattice frames. Highway portable. Optional hydraulic top folding frame and axle raise.





## Stackable/Table Conveyors

Transport up to 480 feet of conveyor on a single truck load. Jig-welded channel frame. 50' and 60' lengths. Overland and in-pit compatible. Often used as transfer conveyors in portable crushing spreads. Standard U.S. components and correctly sized drives for maximum TPH. Proven highest resale value at trade-in time.



## Stationary Conveyors

Custom designed in various widths: 24", 30" or 36". Job specific lengths and drive configurations to compliment your plant layout. Includes overland systems thousands of feet long. Optional walkways and belt covers. Standard U.S. components and correctly sized drives for maximum TPH.



## Tripper Conveyors

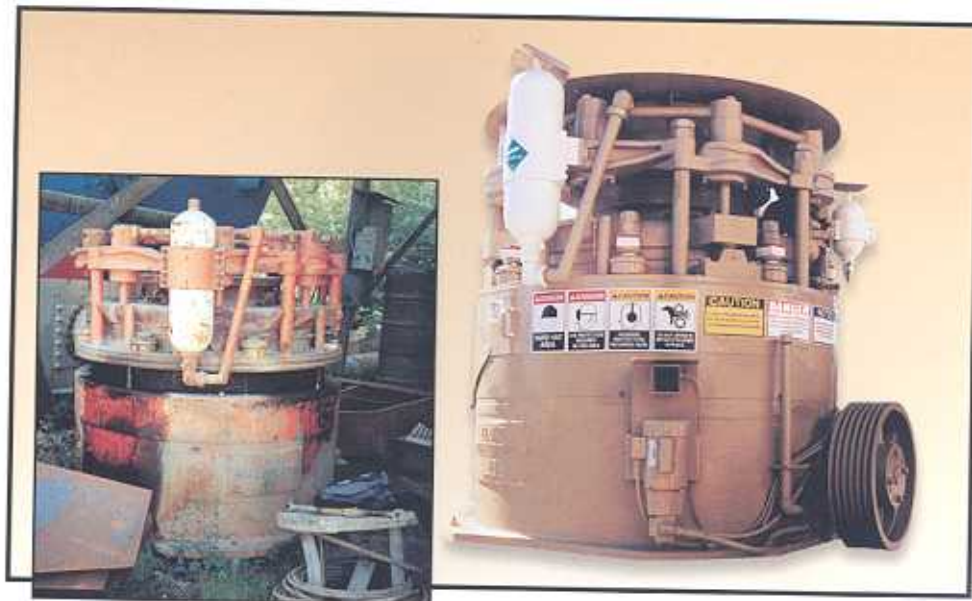
Designed to meet your specifications and unique applications. Provides efficient, low costs, continuous transfer of material onto multiple adjacent stockpiles of different products. Sized to fit your operations. Rugged design for long service life and minimal maintenance.





## Factory Rebuilds

Designed for the economy minded aggregate producer, genuine JCI rebuilt crushers are returned to as-new factory specifications. Each component is removed from the crusher, inspected and rebuilt, or replaced, to ensure optimal performance. Confidence in the quality of these machines is so great that JCI fully warrants the units for 6 months or 1,000 hours, equating the new equipment warranties from many manufacturers! Savings of 20%-30% vs new.



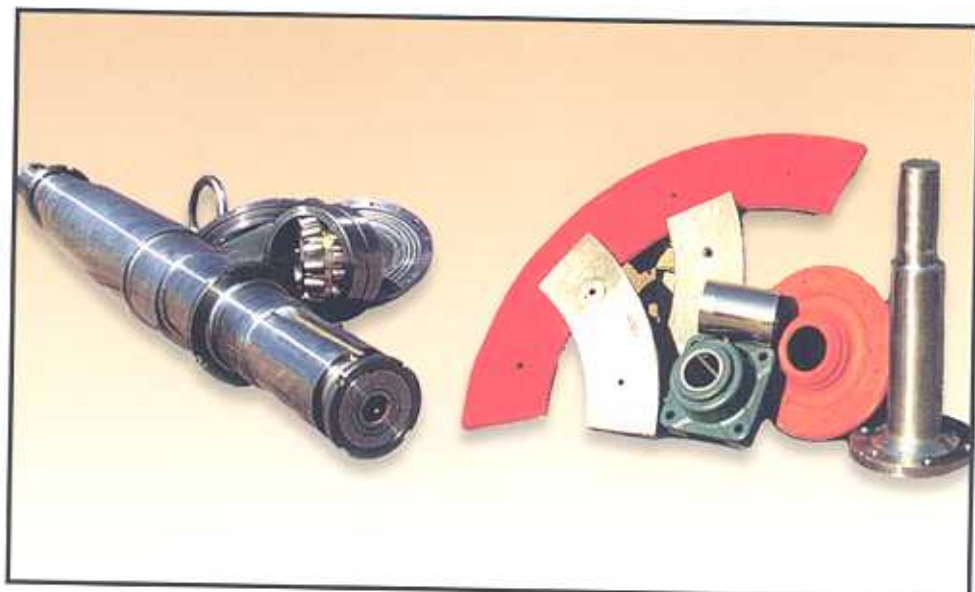
## Parts Support

JCI offers a 6 month or 1,000 hours warranty on parts that fit. Always have – always will. Experienced factory parts personnel with a combined 42+ years of hands on knowledge of JCI, ElJay® and Cedarapids® roller cones and horizontal screens, 24 hours a day, we're there when you need us.



## Parts Support

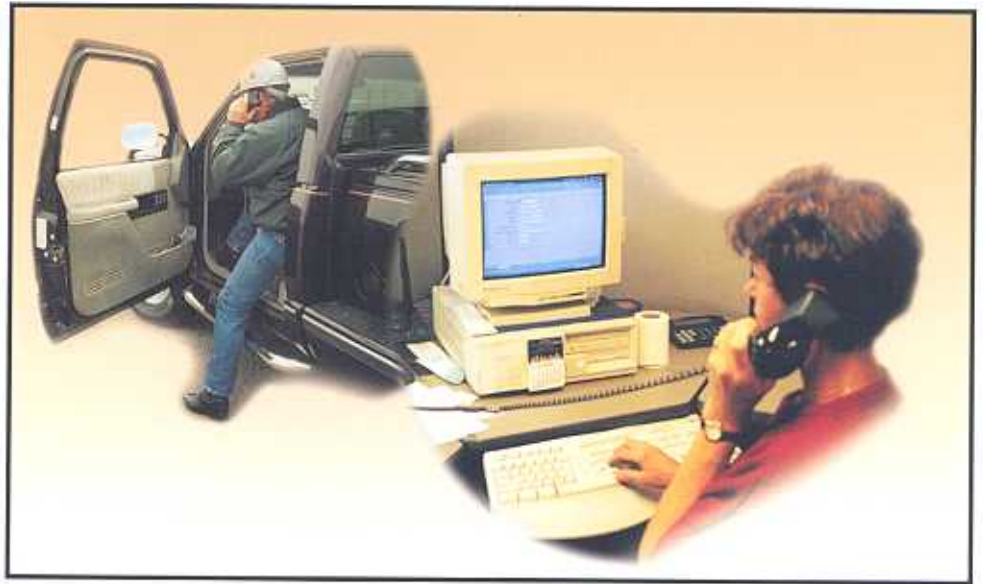
Genuine KOLBERG-PIONEER factory parts are engineered to work with your equipment. An *Associated Warranty* covers all parts related to the replacement item. You have 24 hour Hotline access to factory personnel. Factory rebuild kits allow easy credit for items not used. Over 95% of common parts in-stock for off-the-shelf availability. We understand that time is money.





## Warranty

For expediency, all equipment warranty claims are administered through your local KOLBERG-PIONEER & JCI dealer. Your dealer's service representative will coordinate the parts and labor necessary to get you back in operation quickly. All forms and related information are handled professionally and promptly.



## Training & Support

Equipment erection and start-up. On-site operator training including: efficient operation analysis for maximum plant output, safety awareness, proper maintenance procedures and trouble shooting. Local dealer service personnel are factory trained. Factory and regional service schools available. 24 hour access to factory service technicians.



## Service

Equipment support throughout the life of your investment. We routinely provide wear parts for crushers and screens dating back to the 1930's and 1940's. Our service technicians support all KOLBERG, PIONEER and JCI equipment in addition to ElJay® and Cedarapids® roller cones and horizontal screens.





*The vision of KOLBERG-PIONEER & JCI is to be the provider of solutions for producers and contractors.*

*We are inventive, technology leading, high integrity manufacturers of quality material processing equipment through continuous assessment and improvement of our products, processes and performance.*

**Astec Companies**



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