

Pioneer[®]



JAWS-02

THE FIRST NAME IN CRUSHING



JAW CRUSHERS, PORTABLE & STATIONARY PLANTS

**The NEW
VANGUARD Series**



KOLBERG-PIONEER, INC.
an Astec company

Pioneer®

Crushing Rock for More Than 75 Years

Since the 1920's Pioneer has sold more than 10,000 processing systems. In fact, many of the first systems are still operating today. The legacy continues with Pioneer's complete crushing line-up including; primary impactors, secondary horizontal shaft impactors, jaw, cone and roll crushers, vertical shaft impactors, feeders, screens and portable plants.

Pioneer Gravel Equipment Manufacturing Company produces portable gravel plants for aggregates used in America's highway systems.

1920s

Pioneer expands into the mining, cement and quarry industries.

1930s

Pioneer plays a vital role in World War II by supplying gravel and rock processing plants to help build roads and air bases throughout the world.

1940s

Pioneer becomes a subsidiary of Poor & Company (Later known as Portec), a leading company in railway supply, manganese and industrial belting.

1950s

Pioneer expands into many related markets, including asphalt processing equipment.

1960s

Pioneer strengthens its aggregate focus and enters the recycle market. Pioneer manufactures the 2854 Jaw Crusher, the industry's first jaw crusher designed specifically for recycle.

1970s

Pioneer relocates from Minneapolis to the expanded facilities in Yankton, SD. This new state-of-the-art plant was designed expressly for manufacturing crushing and aggregate equipment. Pioneer introduces the industry's first new series of low-profile jaw crusher plants while adding new models to the product line.

1980s

Pioneer becomes a member of the Astec family of companies, committed to the aggregate and road building industries. Using cutting edge computer design software, Pioneer continues to engineer new products for the changing aggregate and recycle markets.

1990s

With the broadest aggregate production and recycle line available, Pioneer continues the tradition of delivering quality and value to your operation.

2000 and beyond

Today, Pioneer remains the #1 Best-Selling Jaw Crushing Line in North America.

VANGUARD SERIES

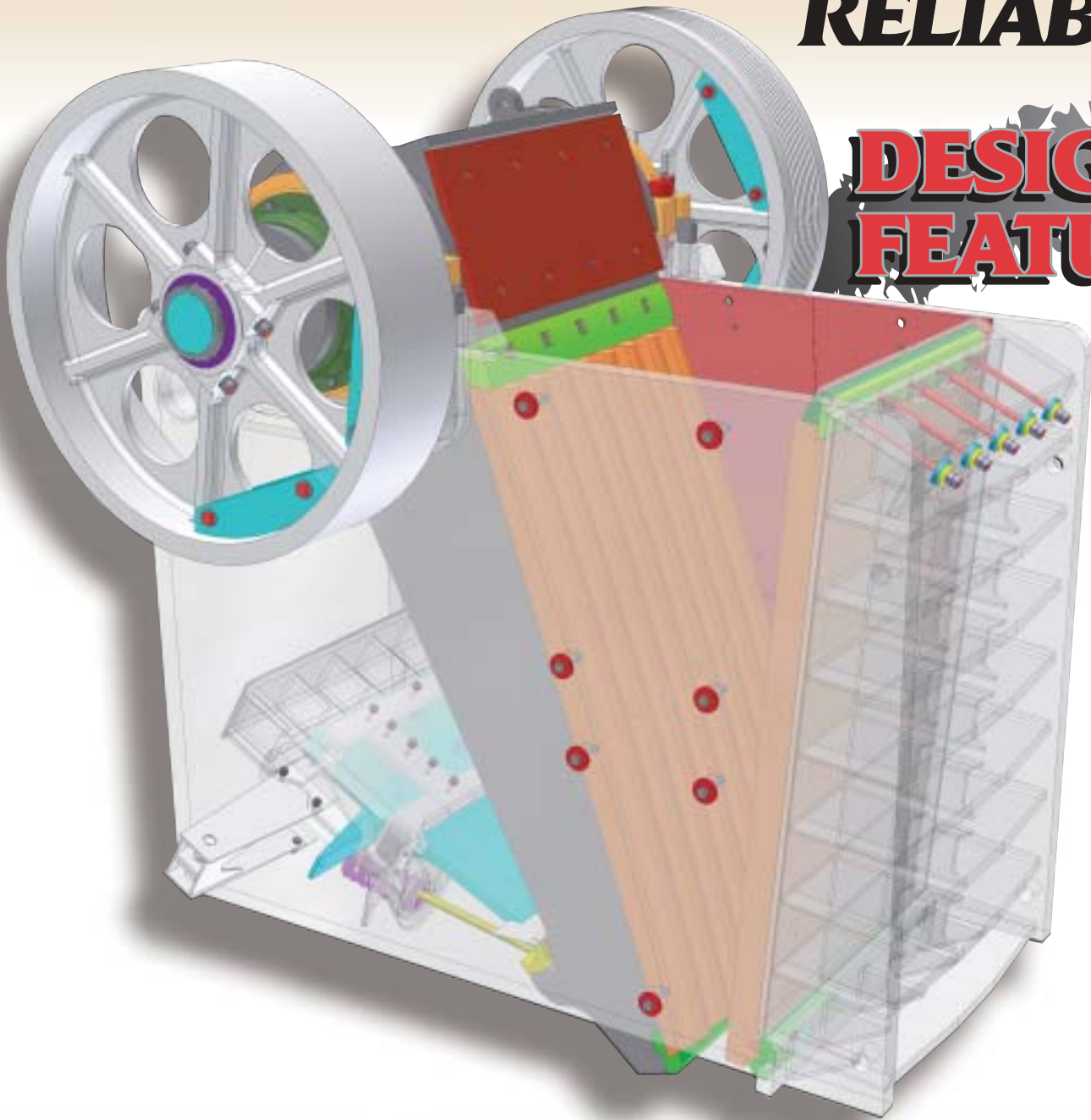


The Pioneer Difference

- Designed and manufactured in the U.S.A.
- Maximum power conversion into crushing energy.
- Unsurpassed crusher integrity.
- Unmatched crushing efficiency.
- Wide range of applications.
- Innovative adjustment and maintenance features.

SINCE 1928 PIONEER HAS RELIABLE JAW

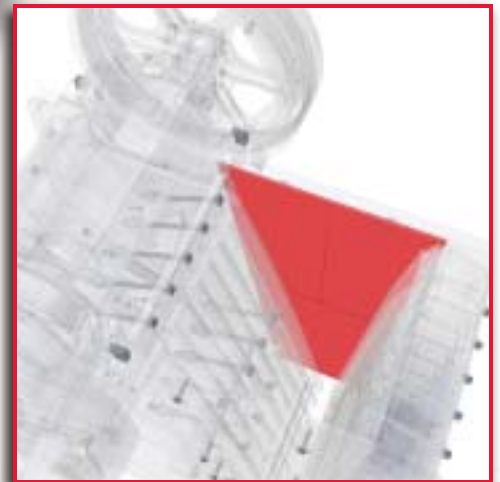
DESIGNED FEATURES



Heavy-Duty Cast Open-Back Ribbed Pitman.
The design required for component quality and structural integrity.

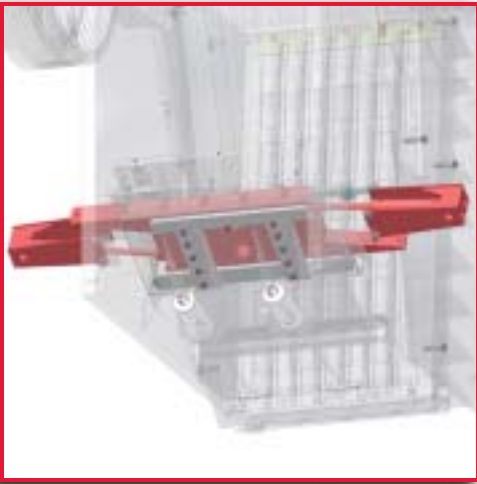


Single Side Plate, Open Rigid Box End Section, Fabricated Base Assembly.
Maximum strength and structural integrity while minimizing weight.

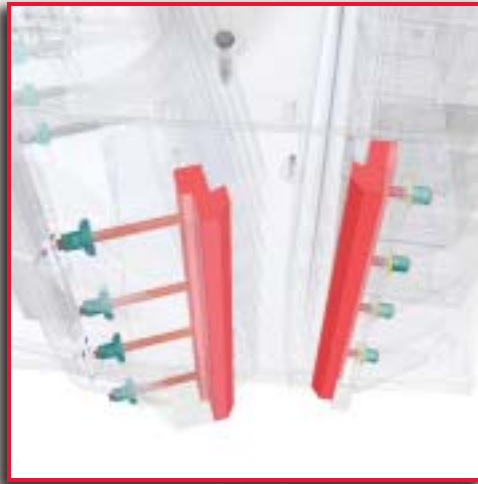


Replaceable Side Base Wear Liners.
Bolt in, 3 piece design allows for easy replacement.

BEEN BUILDING THE MOST V CRUSHERS IN THE INDUSTRY.



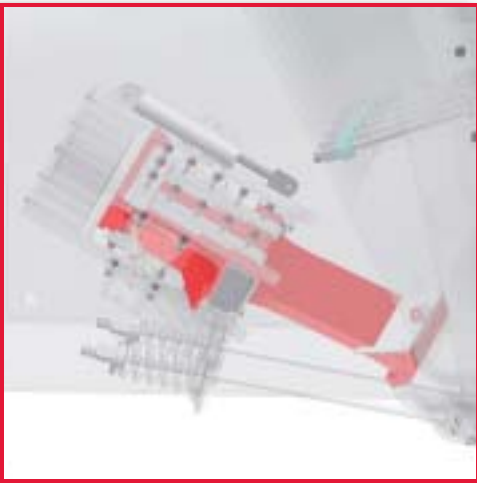
Hydraulic Crusher Adjustment.
The dual wedge assembly allows for quick and easy adjustment of the closed side settings.



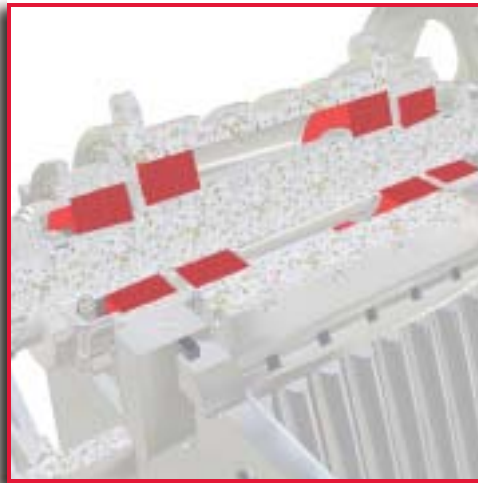
Replaceable Jaw Die Retention Lips.
The replaceable tips protect the base and pitman. (on Vanguard series designs only on the pitman)



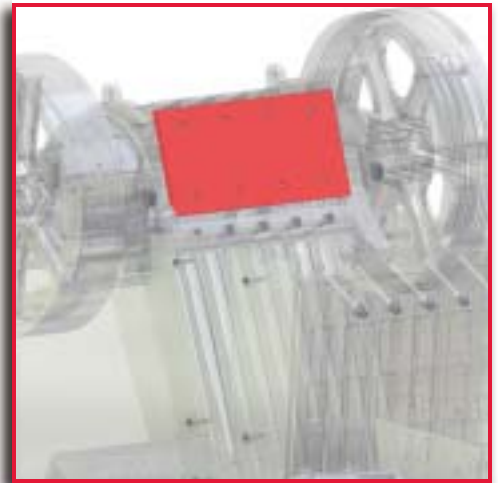
Heavy-Duty Dynamically Balanced Flywheels.
Reduces peak horsepower requirements and provides smooth operation.



Toggle Plate Angle & Arrangement.
Provides in-line support while optimizing crushing action for Maximum capacity through the full range of closed side setting.



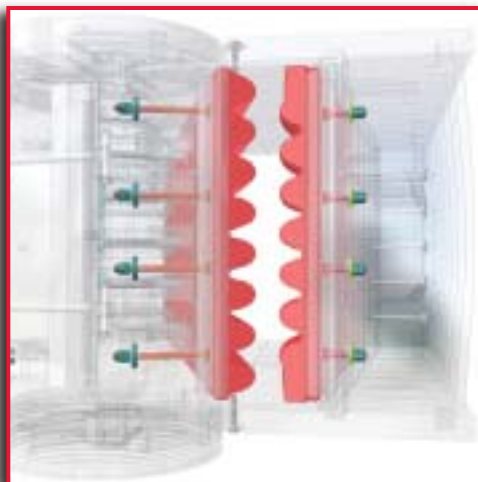
Common Flinger Collar For Close Bearing Spacing.
Reduces fatigue and increases shaft and bearing life providing maximum assembly integrity.



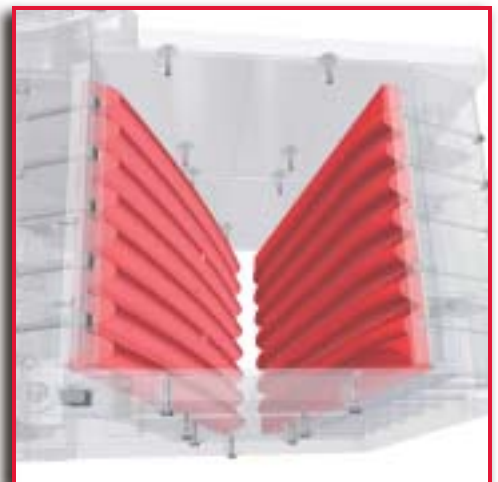
Replaceable Barrel Protector Plate.
Protects the pitman barrel from wear.



Saddle Block Bearing Support.
Maximum bearing support and alignment for extended bearing life.

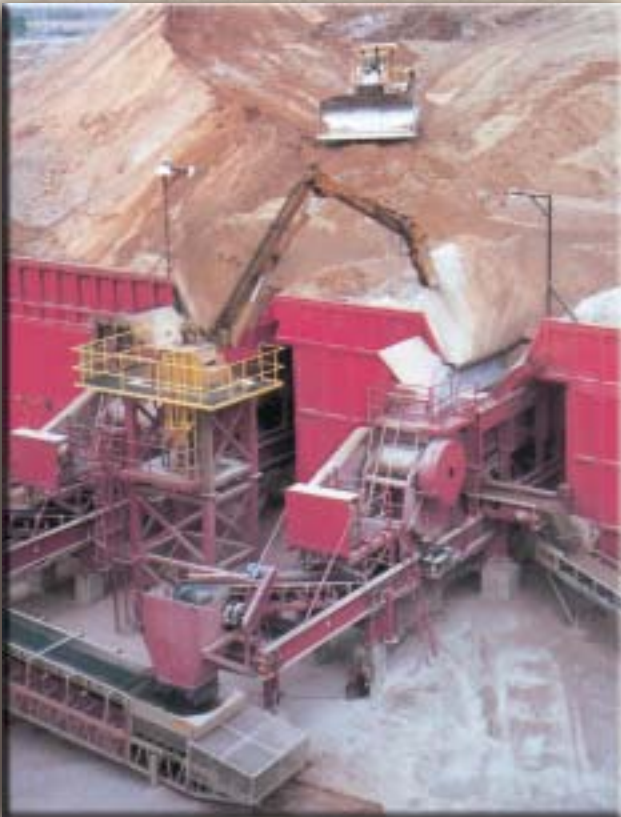


Wedge Holding System For Manganese Jaw Dies.
Allows for easy replacement of moving and stationary jaw dies. (For Legendary series on moving jaw die only)



Variety Of Manganese Configurations.
Maximizes crusher performance by selecting the jaw dies to match the application.

Pioneer® **SETTING STATION**



PIONEER is unique in the industry as the only crusher manufacturer and warrant the entire crushing plant including conveyors, our expertise is integrating these complex configurations. You benefit from our total source and lost time matching components.

PIONEER delivers crushing strength through efficient engineering difference – a superior design that eases operating costs and ease-of-maintenance.



STANDARDS FOR OVER 75 YEARS



ushing manufacturer to completely design,
ent. From the feeder to the crusher to screens and
ponents into the industry's largest array of plant
capability – no second sources, no fabricators, no

cient design, not bulk. That is Pioneer's unique
ensures reliability, higher performance, lower



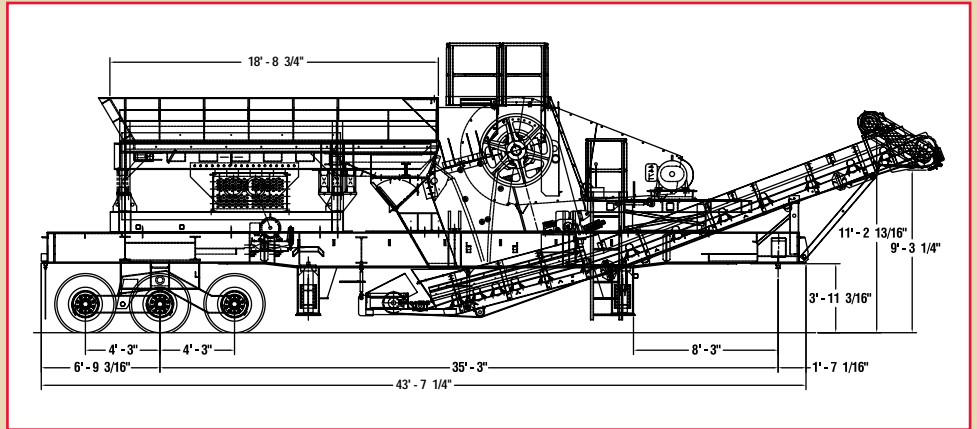
Pioneer® JAW PLANT CONFIGURATIONS

PORTABLE AND STATIONARY PLANTS

Through design flexibility Pioneer offers a wide variety of feeding, scalping, and throughput material delivery to meet your application requirements. Pioneer crushers, plants, feeders and components are engineered and manufactured from a single source and in the U.S.A. Pioneer designing experience guarantees all components have a perfect fit. By using multiple DOT approved axle configurations, Pioneer provides the most portable plant designs in the industry. Stationary plants are available in the same configurations as portable plants. Additionally, Pioneer offers a wide variety of self-contained power sources.

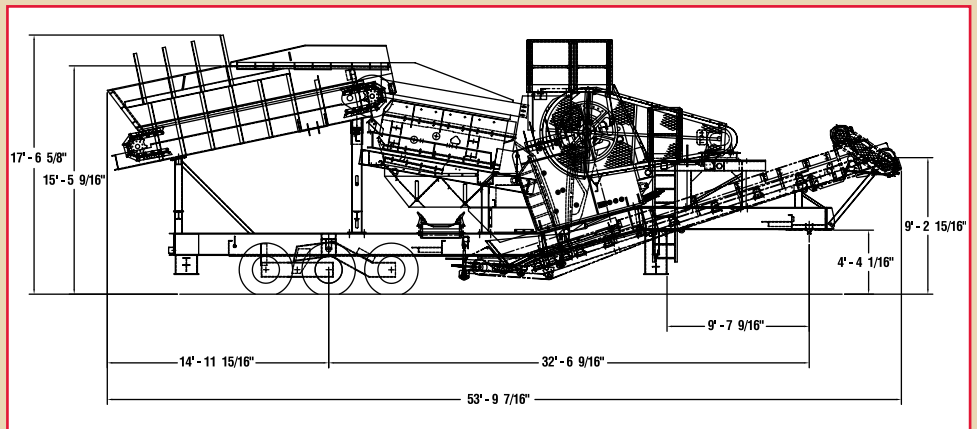
FEED – SCALP – CRUSH

Designed to handle typical quarry rock, sand and gravel or recycle utilizing a vibrating feeder and grizzly section with an all – in – one feed and scalping operation for low-cost, low-maintenance crushing. Features a heavy-duty vibrating feeder with an adjustable grizzly section that allows for bypass sizing of feed material to maximize crusher efficiency.



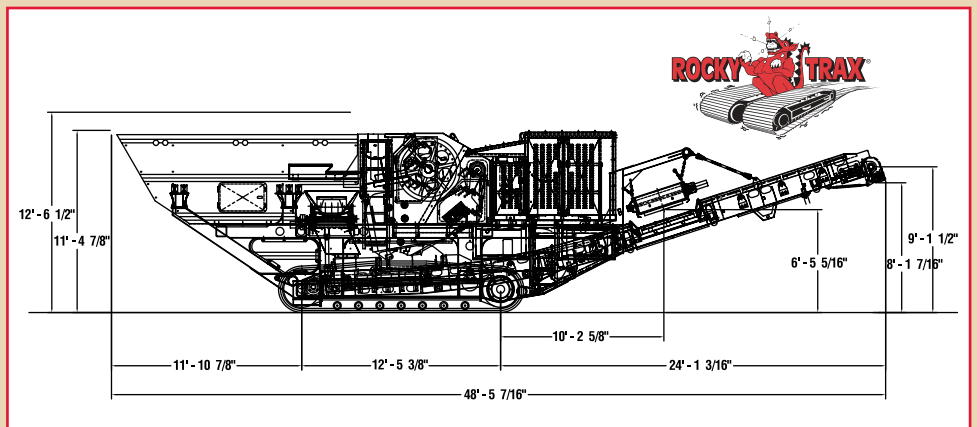
FEED – SCALP – CRUSH

Designed for those applications with moist and/or dirty feed materials where it is desirable to remove vines and produce a sized natural product in addition to producing a crushed product. Features a heavy-duty or extra heavy-duty apron feeder and a Mesabi® Scalping Screen.



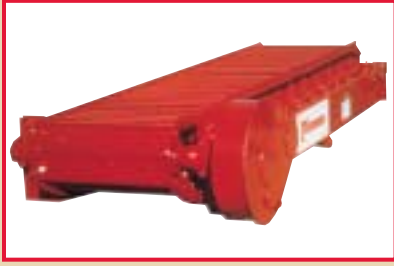
FEED – SCALP – CRUSH...ON THE GO

Pioneer RT (Rocky Trax®) series plants are designed to be highly portable using a crawler track undercarriage while incorporating the features and benefits of the feeding-scalping-crushing plants. These plants are self-contained and offer the ultimate fast set-up, in-pit and on-site mobility. Plant options include: a side delivery conveyor that allows a natural product to be removed under the grizzly section of the vibrating grizzly feeder and a cross belt magnet for metal separation in recycle applications.



PIONEER FEEDING, SCALPING & SCREENING COMPONENTS

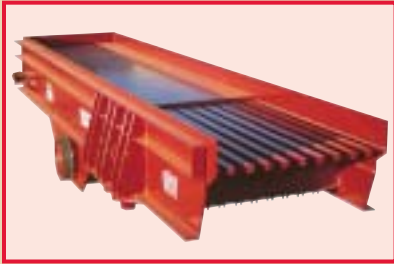
APRON FEEDER



Particularly suited to wet, sticky materials, the Pioneer Apron Feeder provides positive feed action while reducing material

slippage. Feeder construction includes heavy-duty and extra-heavy-duty designs depending upon the application.

VIBRATING FEEDER



Designed to convey material while separating fines, Pioneer vibrating feeders provide smooth, controlled feed rates to

maximize capacity. Grizzly bars are tapered to self-relieve with adjustable spacing for bypass sizing. Feeder construction includes heavy-duty deck plate with optional AR plate liners. Heavy-duty spring suspension withstands loading impact and assists vibration.

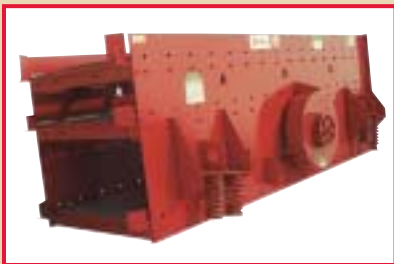
MESABI® SCREEN



Designed with a positive throw to efficiently scalp and size primary feed from typical wet and dirty deposits with virtually no

plugging. The Mesabi 4-bearing scalping screen is built with a heavy-duty reinforced main frame, rigid box-type screen pan, IsoVibe™ screen mounting and a heavy-duty eccentric shaft assembly.

LOW-PROFILE SCREEN



Designed for high capacity operation within low-profile applications, the 10° low-profile, 2-bearing screen can

produce up to four products simultaneously. The heavy-duty, single eccentric shaft assembly provides lower maintenance costs than two- or three-shaft horizontal screens, but still provides the throw and frequency required for maximum capacity and gradation control.

REASONS PRODUCERS & CONTRACTORS CHOOSE PIONEER JAW CRUSHERS & PLANTS

1. A superior jaw design that delivers strength, not bulk.
2. Crushing expertise since 1928 with over 10,000 jaws & jaw plants at work around the world.
3. Manufactured with the quality workmanship that delivers field reliability and performance.
4. Crusher, components and chassis engineered for maximum portability.
5. A complete jaw crushing line with a model for every application.
6. Factory specialists available to assist with material evaluation and flow analysis, layout drawings and equipment selection.
7. Engineered for lower maintenance and operating costs.
8. Pioneer supplies standard plants with optional auxiliary equipment for a perfect fit in your application.
9. Designed for full compatibility with the Kolberg® line for a complete one-stop aggregate processing source.
10. Local dealer expertise, service, and 24-hour Genuine KOLBERG-PIONEER Parts support backed with a factory warranty.



www.kpijci.com

Pioneer[®]

The NEW
VANGUARD Series



Pioneer®

...IMAGINE THE OPPORTUNITIES

- ◆ Jaw Crushers
- ◆ Portable Recycle Plants
- ◆ Horizontal Shaft Impact Crushers
- ◆ Vertical Shaft Impact Crushers
- ◆ Vibrating Feeders
- ◆ Apron Feeders
- ◆ Cone Crushers
- ◆ Portable & Stationary Plants
- ◆ Double & Triple-Deck Screens
- ◆ Scalping Screens
- ◆ Roll Crushers



KOLBERG®

- ◆ Complete Aggregate Washing & Classifying Plants
- ◆ Log Washers
- ◆ Fine Material Washers
- ◆ Coarse Material Washers
- ◆ Classifying Tanks
- ◆ Blademills
- ◆ Spec-Select™ Programmable Controls
- ◆ Portable Screening Plants
- ◆ Conveyors & Radial Stackers
- ◆ Pugmill Plants
- ◆ Additive Silos
- ◆ Cold Feed Plants
- ◆ Auxiliary Support Equipment
- ◆ Surge Bins

NOTE: SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

Because KOLBERG-PIONEER, INC. may use in its catalog & literature, field photographs of its products which may have been modified by the owners, products furnished by KOLBERG-PIONEER, INC. may not necessarily be as illustrated therein. Also continuous design progress makes it necessary that specifications be subject to change without notice. All sales of the products of KOLBERG-PIONEER, INC. are subject to the provisions of its standard warranty. KOLBERG-PIONEER, INC. does not warrant or represent that its products meet any federal, state, or local statutes, codes, ordinances, rules, standards or other regulations, including OSHA and MSHA, covering safety pollution, electrical wiring, etc. Compliance with these

statutes and regulations is the responsibility of the user and will be dependent upon the area and the use to which the product is put by the user. In some photographs, guards may have been removed for illustrative purposes only. This equipment should not be operated without all guards attached in their normal position. Placement of guards and other safety equipment is often dependent upon the area and the use to which the product is put. A safety study should be made by the user of the application, and, if required, additional guards, warning signs and other safety devices should be installed by the user, wherever appropriate before operating the products.



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