



THE FEED

2019

ISSUE 20
QUARTER 1

The official magazine of KPI-JCI and Astec Mobile Screens

A LETTER FROM THE PRESIDENT



The idea of a high quality product varies from person to person; it depends on what each of us feels is important. KPI-JCI and Astec Mobile Screens recognize the importance its customers place on quality, and we are committed to continuously improving our customers' experiences.

Rather than assembling or rebranding other products, we manufacture ours from the ground up, giving us the opportunity to ensure the highest quality product. This allows us to make improvements and corrections in a timely manner and replace

worn or damaged parts without the added cost of replacing entire components. For these reasons and others, we believe our approach adds value to highly-engineered, complex machinery that's built to last.

From a manufacturing quality standpoint, we have taken steps to better document our production procedures as part of our 5S program. We perform supplier audits and regular inspections of critical parts, utilize run-in checklists and incorporate final equipment inspections involving diverse, cross-functional teams.

Our customer service and support team analyzes problems and issues and communicates needed improvements or areas of concern.

Finally, KPI-JCI and Astec Mobile Screens dealer network plays a crucial role in the quality of our products and services. Their steadfast dedication to customer support provides one of the most critical links in our combined quality system.

Moving forward, we have several quality initiatives planned, including eight, 90-minute Quality Education Training (QED) sessions for approximately 300 people within our combined organizations. We will also be implementing an initial quality survey designed for customers to provide feedback upon receipt of their new equipment. We look forward to using this feedback to further strengthen our emphasis on quality. We'd like to thank the many existing customers who've chosen KPI-JCI and Astec Mobile Screens and prospective customers who are considering purchasing new equipment.

A handwritten signature in black ink that reads "Jeff L. May". The signature is written in a cursive, flowing style.

THE FEED

The Feed is designed to bring awareness to the latest equipment offerings, customer and dealer success stories and upcoming industry and factory events from Kolberg-Pioneer, Johnson Crushers International and Astec Mobile Screens.

To report an error, subscribe or suggest a story idea, please contact:

EDITOR

Holly Anderson

PUBLISHER

Daniel Filsinger

ABOUT

Kolberg-Pioneer, Johnson Crushers International, and Astec Mobile Screens, of Astec Industries (NASDAQ: ASTE) are worldwide leaders in manufacturing equipment for the aggregate, construction and recycling industries. As innovative, high-integrity manufacturers, the three companies develop quality, state-of-the-art products and have the ability to engineer custom products because of a highly-qualified sales application and engineering staff. Kolberg-Pioneer, Inc. manufactures its products in Yankton, South Dakota, Johnson Crushers International, Inc. in Eugene, Oregon and Astec Mobile Screens, Inc. in Sterling, Illinois. For more information, call (605) 668-2524 or visit www.kpijci.com.

CONTACT

700 West 21st Street
Yankton, SD 57078 USA
605-665-9311



CONTENTS

- 4 Application Angle
- 6 Big Impact, Small Imprint
- 12 Press Updates
- 18 NDC Recap
- 22 The Multi-Solution
- 26 Talking Shop



EVENTS

JANUARY

January 8-10

Washing and Classifying Operation and Maintenance School
Kolberg-Pioneer, Inc.
Yankton, SD

FEBRUARY

February 12-14

AGG1/World of Asphalt Expo
Indianapolis, IN

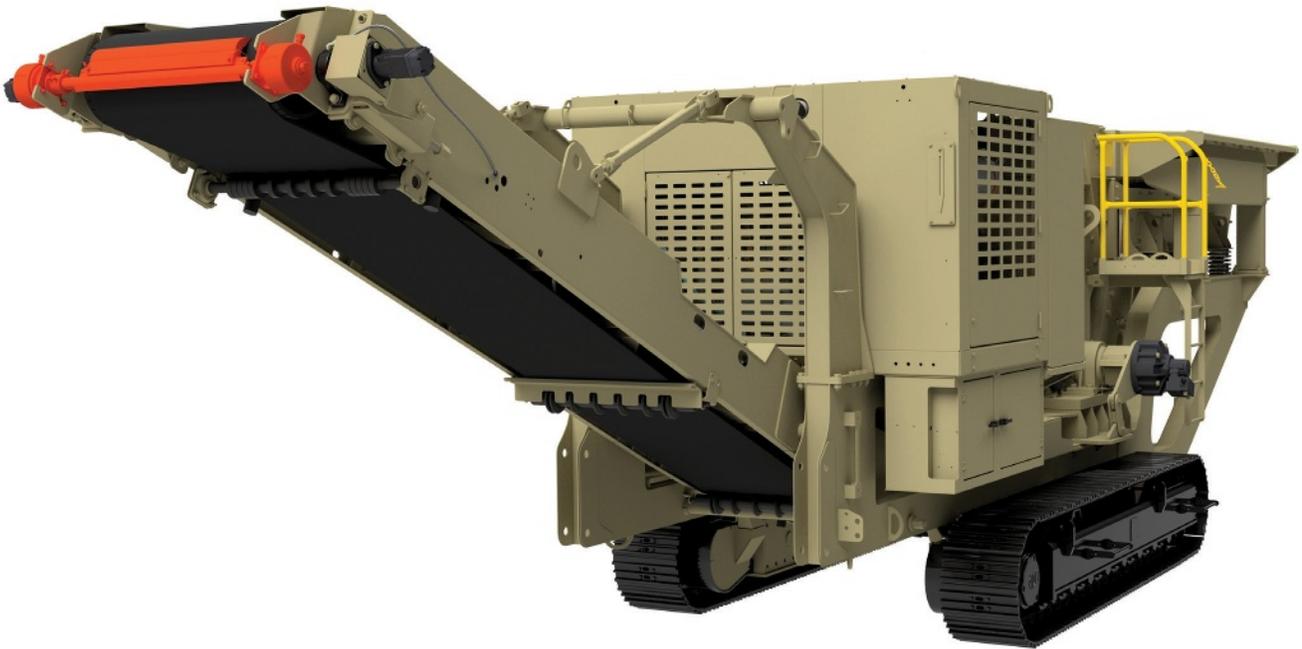
February 26-28

Jaw and Impactor Operation and Maintenance School
Kolberg-Pioneer, Inc.
Yankton, SD



APPLICATION ANGLE

It's all about perspective. It's all about results.



THE OBJECTIVE

This contractor, who processes recycled asphalt and concrete, was underutilizing their equipment and staff in the winter months. By not producing in the winter, the contractor was forced to relieve the staff for the season. They also had a large, chassis-mounted horizontal shaft impactor plant that they were aiming to replace in this application.

THE SOLUTION

The contractor rented the track-mounted GT440 horizontal shaft impactor plant to run in open-circuit with their existing cone crusher, followed by another, closed-circuit cone crusher. Using only the top deck of the three screens they already had on site, the producer makes one final product while reducing maintenance and blinding on the screens. The contractor was able to easily integrate their new equipment into their current spread.

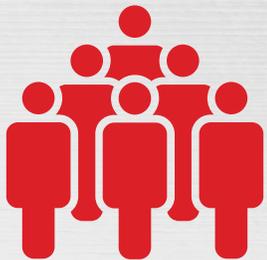
The GT440 features a robust 42 x 40 Andreas style horizontal shaft impactor with twenty-five percent more production than competitive models, a large feed opening and hydraulically adjustable curtain design.

THE FIGURES

By utilizing the equipment and crew in the winter months, this contractor avoids having to lay off their experienced staff, saving them the incalculable experience that a seasoned team brings to an operation.

An experienced team is a necessity for any operation. Rather than dismissing their teams, this contractor wisely spread out their human resources to preserve an efficient and effective crew.

THE BOTTOM LINE

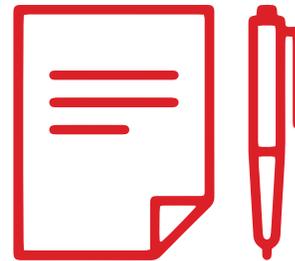


**PRODUCER
RETAINED A
WELL-TRAINED
TEAM
THROUGH THE
OFF SEASON.**



GT440 HIGHLIGHTS

- Mobile 42 x 40 horizontal shaft impactor (HSI) with power source options via hybrid technology
- 30% more uptime with continuous crushing and tracking
- On-site mobility and quick set-up provide more flexibility
- Maximize performance and production with proven Overload Protection System
- Easy access to all controls slowing for easy operation and maintenance
- Large reduction ratio with maximum performance rotor



RENTAL PROGRAM HIGHLIGHTS

- Immediate equipment availability
- Limited initial financial investment
- Flexibility to change without long-term investment
- Consistent levels of cash flow

BIG IMPACT SMALL IMPRINT





Operating in the middle of the bustling city of Denver, Colorado, this city's municipal crews are working hard to make the most out of their asphalt recycling enterprise while taking up the least amount of space. The City and County of Denver's asphalt recycling process is a full-service operation. From milling roads to paving new ones, this city's crews ensure that the streets are maintained.

For Doug Legg, manager with the City and County of Denver, space was the primary concern when considering equipment. "We're operating inside the City of Denver, so property was very limited. To solve that problem, we looked for a machine that could feed, crush and screen all on one chassis to keep the overall footprint compact," says Legg.

Mike Caldwell, regional sales manager for KPI-JCI and Astec Mobile Screens comments, "The City and County of Denver wanted a compact unit that still contained all the necessary components, which we were able to do with the ProSizer® 3600 impactor plant. This is a one-load move in most markets, if not all markets, that's what Astec Mobile Screens was trying to achieve and that's what we accomplished."

The environmentally-conscious city was also looking for a unit that has the flexibility to operate using only electric power. While Legg was prospecting and comparing potential equipment, he considered the equipment's footprint as well as its ability to run using clean energy. After selecting the ProSizer® 3600 plant, the crew set up a genset

to operate the unit. Legg says, "We operate off a 500kw genset. It is located about 120 feet to the south of the plant, which keeps it out of the dust area. In the future, we can switch that to run it off a transformer." Legg also adds that, because the equipment is run using electricity, they do not have to worry about oil dust plugging and overheating engines.

In addition to the small footprint and operating using electricity, the City and County of Denver also had specific operational requirements. Legg explained that a capacity of 250-300 tons per hour was a must-have for the project. Eric Smallwood, aggregate sales manager for Power Motive Corporation, worked closely with KPI-JCI and Astec Mobile Screens and the City and County of Denver to help address the City's concerns and necessities for equipment selection. "Production capabilities were a strong driver. The ability to offer a single-load machine that met their throughput requirements, while also minimizing as much footprint as possible, was essential," explains Smallwood.

MILLINGS TO ROADS

"The City and County of Denver's street maintenance crews are comprised of 242 full-time employees. We produce, on average, 250,000 tons of asphalt per year. The city, with its internal crews, paves 250 lane miles a year and we provide asphalt to an outside contractor, contracted directly with the City and County of Denver,

"We're operating inside the City of Denver, so property was very limited. To solve that problem, we looked for a machine that could feed, crush and screen all on one chassis to keep the overall footprint compact."

*Doug Legg, manager
with the City and
County of Denver*

for a hot-in-place recycle process," explains Legg.

"From start to finish, we rotomill our own streets, bring the millings to this yard, process them through the ProSizer® 3600 plant, and haul them across the street to our asphalt plant, which is a 300 tons per hour double-drum. We'll haul that asphalt back out to our internal crews and lay it back on the





street,” says Legg.

While Legg and the City and County of Denver have large crews working in street maintenance, there are usually only two people operating the ProSizer® 3600 plant. With a small team and limited experience, operating the new machine was unfamiliar territory. The team began crushing in April of 2018 and quickly mastered running the machine.

“The Prosizer® plant has been very easy to learn and operate. The crew was up and running with the machine within two days of it being set up,” explains Legg.

Smallwood adds, “We began operating this plant early this year and the City and County of Denver has stayed consistent in the 250-300 tons per hour range...The City needed a plant that could kind of be a jump start that they wouldn’t have to run every day, all day, seven days a week. They can keep up with their aggregate demands, working four, 10-hour shifts with minimal issues.”

“The heart of this operation is the ProSizer® 3600 impactor plant, manufactured by Astec Mobile Screens. It’s equipped with a 14’ vibrating grizzly feeder, a 2-bar, 36 x 46 horizontal shaft impactor, two adjustable hydraulic aprons and then the material is discharged or fed into a 6 x 18, 2-deck high frequency screen,” explains Smallwood.

Legg also expands on the impactor plant and its reliability in processing RAP, “The plant fits the RAP environment very well. With the high angle screen, we get very little blind over on the screens



“The heart of this operation is the ProSizer® 3600, manufactured by Astec Mobile Screens. It’s equipped with a 14’ vibrating grizzly feeder, a 2-bar, 36 x 46 horizontal shaft impactor, two adjustable hydraulic aprons and then the material is discharged or fed into a 6 x 18, 2-deck high frequency screen.”

Eric Smallwood, aggregate sales manager for Power Motive Corporation

and with it being all electric, we don’t have any cooling issues with the oil dust sticking to radiators and plugging up engines and overheating them.”

In addition to a reliable plant, Smallwood explains the importance of parts and service to their operation. “Parts and service are the backbone of Power Motive for our success on the sales side. I grew

up through our service department and our parts department. They truly believe the old adage that ‘Sales sells the first one, and parts and service sells the rest’. You have to be in a position to support your equipment through KPI-JCI and Astec Mobile Screens. This American-made equipment, along with the dealer network, is the strong mechanism behind Power Motive.”

Legg adds, “...If the screen or crusher is not operating, we’re not producing material, so we need to be able to get parts and service relatively quickly so we can keep running. The parts and service from Power Motive and KPI-JCI and Astec Mobile Screens has been good. We’ve been able to keep the plant running and they were able to deliver parts in a timely manner.”

MILE HIGH EXPECTATIONS

Before the City and County of Denver began processing its own asphalt, the material was going into the asphalt plant uncrushed. “About two years ago, we looked into crushing the RAP before it went to the asphalt plant. We found that by crushing the RAP, we could be cost effective, potentially recycle more material and recoup some of the oil out of the asphalt. That’s when we started the process of looking for the right plant for our application,” explains Legg.

Legg attended ConExpo 2017 in Las Vegas, Nevada, Caldwell mentioned, “We met Mr. Legg at ConExpo, where we started talking about the plant. When the City put out a bid, we quickly placed ours.

The liked our bid, and we won the order.”

Caldwell adds, “It was a great experience for us working with a municipality. For me personally, this was my first municipal bid won, but we gained a lot of knowledge working with the City and County of Denver and we are ready to handle large projects moving forward with city and state governments.”

Caldwell continues, saying, “The City and County of Denver have been great and easy to work with. They were polite and professional; it’s been a real pleasure.”

Smallwood adds, “The City and County of Denver is a valuable customer. We appreciate everything they do. They are environmentally aware and support the asphalt industry greatly. Doug and his team are very heavily involved with all the local asphalt associations and support the most recycled product in the world.”

When asked about future goals for the operation, Smallwood said, “We would like to see the city earn a strong return on investment with the ability to introduce more crushed product into their asphalt plant, reducing their overall oil content. As most of our customers know, that’s a major expense to producing HMA asphalt.” In the next year, Legg, Caldwell and Smallwood anticipate the City and County of Denver to see a return on investment, introduce more crushed product into its asphalt plants, produce up to 30% recycled material, reduce overall oil content and, the ultimate goal, produce more paved miles for the City and County of Denver.

KILLGORE PROMOTED TO JCI PRESIDENT



Johnson Crushers International is pleased to announce the promotion of Rob Killgore to company president. In his new leadership position, Killgore will be responsible for setting and achieving JCI's goals and objectives.

Killgore joined JCI in 2016 and served as manufacturing

manager. With over thirty years of leadership experience, beginning with his military career and progressing through many manufacturing businesses, he has been an integral part of JCI's success over the last two years.

"Rob's long and diverse career brings a new perspective to JCI. We are eager to see how his background will help us operate more efficiently and serve our customers more effectively," says Jeff Schwarz, group president, Astec Industries.

Rob Killgore can be contacted at rkillgore@jcieug.com or (541) 988-9450.

KIRBY PROMOTED TO NORTH AMERICA SALES DIRECTOR – EAST



KPI-JCI and Astec Mobile Screens are pleased to announce the promotion of Darren Kirby to North America Sales Director – East.

In his new position, Kirby will be responsible for directing, administering and coordinating all domestic field sales operations for the eastern region. In his new role, he will report to the vice

president, sales & marketing to establish and attain annual sales goals for his respective region.

Kirby has been employed at KPI-JCI and Astec Mobile Screens since 2007, his most recent position being Regional Sales Manager – Southeast. He graduated from the Virginia Military Institute and has been involved in the aggregate industry since 1996.

"With over 20 years of experience working in the aggregate industry, Darren's unique background, having worked with producers as well as manufacturers, will allow us to better understand and meet the needs of our customers," said Ron Earl, vice president, sales & marketing.

Darren Kirby can be reached at darrenkirby@kpijci.com or (540) 798-1922.

FIELD SALES TRANSITIONS

We are pleased to announce the transitions of Bill Royce, Brad Freeman, Corey Gruber, John McGimpsey and Arthur Leonard into new roles at KPI-JCI and Astec Mobile Screens. Bill Royce, previously Regional Sales Manager- Mid-Atlantic, has moved into his new position of Regional Sales Manager-Southwest. Brad Freeman is also moving into a new role as Regional Sales Manager-South Central. Previously, Freeman was the Product Application Specialist at Johnson Crushers International. Corey Gruber was promoted to Regional Sales Manager- North Central from his previous position as Technical Sales Manager at Astec Mobile Screens.

John McGimpsey is transitioning into his new role of Technical Sales Manager- West from his previous position as Regional Sales Manager- South Central. Arthur Leonard will also be moving into his new position as Technical Sales Manager-East from his current role of Parts Sales

Representative with the group. In their new roles, McGimpsey and Leonard will focus on strategic product and industry initiatives while also working with regional sales managers in their regions.

Charles Gilbert and Danny Loughran will be expanding their Regional Sales Manager roles to include additional territories. Gilbert will be adding New York (boroughs) and New Jersey to his current responsibilities. Loughran will be adding Delaware, Maryland, Pennsylvania and West Virginia to his territory.

"This group has an extensive background in the industry, and we're excited for them to transition into and expand their new roles. Our group of companies remains fully committed to accomplishing our goals; stronger safety cultures, improved quality, and growth, all while embracing Astec Industries core values," says Ron Earl, Vice President, Sales & Marketing.



MULTI-FREQUENCY SCREEN OFFERING

The revolutionary multi-frequency technology from Astec Mobile Screens was launched in March of 2017 for the GT205 plant. The multi-frequency technology combines a conventional, two-bearing vibrator, traditionally used on an incline screen with a high frequency vibrator on the bottom deck. The combination of the two systems creates a screen that operates with a higher G-force. The increased screening energy also enables the multi-frequency screen to process material with higher moisture content.

With the success of the GT205 multi-frequency, Astec Mobile Screens has designed and manufactured the same technology

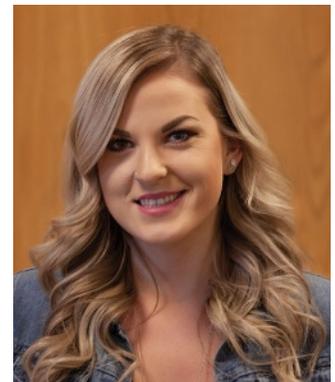
on a portable PTSC205 plant and GT145 track screen. Astec Mobile Screens will now offer multi-frequency technology for all of its 5' wide, two deck screens.

Patrick Reaver, inside sales director at Astec Mobile Screens, says, "Our customers have seen tremendous improvements in their operations by using the multi-frequency screen in the GT205, and we're really excited to bring this technology to more people by expanding into our direct feed and portable mounted screens."

For more information regarding multi-frequency screens, contact Patrick Reaver.

EXPANDING MARKETING TEAM

KPI-JCI and Astec Mobile Screens are expanding their capabilities and adding valuable resources with the expansion of the marketing team. In the second and third quarters, the group added two new members. David Arickx, marketing designer, designs and creates marketing materials to enhance our brand. Madison McCrory, product marketing representative, works with the marketing and product management groups to conceive and develop sales resources and innovative marketing programs.





AWARD-WINNING EQUIPMENT

The ProSizer® 3600 from, Astec Mobile Screens earned a spot on the 2018 Top 30 Editor's Choice Award from Asphalt Contractor magazine.

According to Asphalt Contractor, honorees for the Top 30 Editor's Choice Award are chosen by meeting various criteria including: unique technologies and innovations, increased productivity, contractor interest, longevity and consistency in

the market, dependability and reader traffic.

The Kolberg-Pioneer 3365 Pioneer Jaw Crusher was also honored as one of the Top 25 Rollouts of 2017 by Aggregates Manager. According to the publication, the award focuses on new-concept products, new generations of products and products that received significant attention from its readers.

NEW 3500 VSI MODEL RELEASED

Kolberg-Pioneer, Inc. released its newest Vertical Shaft Impactor model. The new 3500 VSI is a mid-sized crusher with excellent precision and flexibility.

The new model, along with other models, features hydra-arm hydraulics. The hydra-arm assembly lifts the lid for 360 degrees of internal crusher viewing. The lid assembly has large inspection doors for internal component viewing and safe, easy access to wear liners.

The new VSI also features an externally-adjustable feed tube



to prevent excessive wear normally experienced by other, non-adjustable systems.

The hybrid rock shelf on the new 3500 VSI provides the maximum amount of crushing efficiency while minimizing wear in an autogenous configuration.

In addition to the newest 350 TPH capacity model, Kolberg-Pioneer, Inc. offers models in 150, 250 and 450 TPH capacities. For more information about the 3500 VSI, contact Tim Harms via email at TimHarms@kpijci.com.



MODULAR SYSTEMS OFFERING

KPI-JCI and Astec Mobile Screens continue to expand their modular structure offerings.

The group offers a complete line of pre-engineered modular crushing, screening, material handling and washing and classifying components for a variety of applications. The modular systems feature bolt-together design for simple installation, smaller site footprint and easy access for

maintenance compared to normal, stick-built systems. These systems are available in 150-500TPH system configurations to meet current production needs and allow for incremental growth.

The cost-effective modules are easily transported in standard shipping containers or flatbed trailers for quick reassembly.

Updates to FT3055 Jaw Plant

Kolberg-Pioneer has made numerous updates to its FT3055 track-mounted jaw crusher plant.

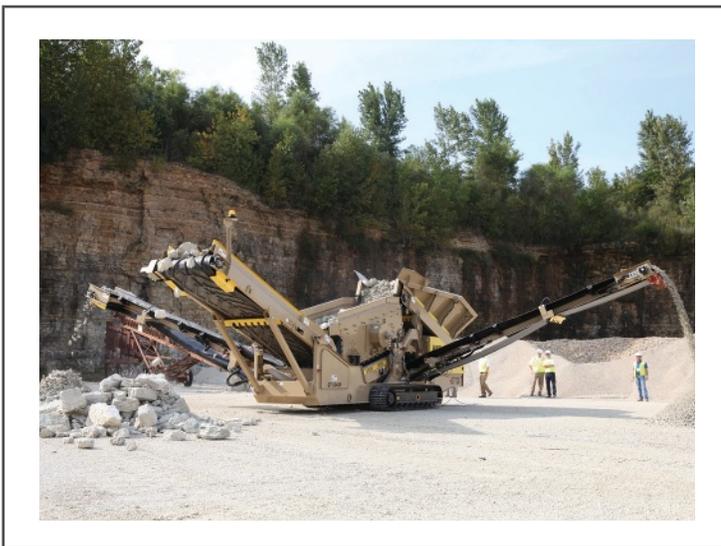
The jaw plant now features versatile and powerful, American-made hydraulic pumps for better support and reliability. In addition, The FT3055 will also feature a new common feeder/hopper, which is used on the FT4250, with greater spare parts availability and shop commonality, to better serve our customers.

The push-button or touch screen display has been upgraded for increased memory and performance to ensure that producers are using the latest technology.

In addition to hardware updates, the crushing plant will showcase a new, functional industrial-style design. KPI designers have improved the overall appearance of the plant by moving hoses and other components inside the frame, which improves the overall equipment design and further protects those parts.



GT104 Screen Plant Improvements



The two-deck direct feed screen plant, made by Astec Mobile Screens, features industry-leading conveyor heights, a heavy-duty design and maximum application flexibility. New updates to the GT104 will increase uptime and improve ease of maintenance and operation.

The direct feed screen plant now features a Cummins QSF2.8 (Tier 4 Final) engine for increased efficiency and production. The powerful, yet compact, engine delivers performance at 74 hp, while meeting near-zero emissions standards.

Astec Mobile Screens has made many changes and additions to contain material including adding rubber skirting in multiple locations. An added extension to the engine enclosure lid prevents material from building up on the edge of the lid. A new, low-profile belt cleaner has also been added to the under-screen fines conveyor.

Newly added brackets keep belts in place while folded for travel, instead of using ratchet straps. Pins now replace transport brackets for travel, reducing the risk of human error and making it easier to fold conveyors.

Additional improvements include updated Hydrocontrol valves and relocated huck bolts to easily change screens.

Electrical Service Truck Kit Now Available

Astec Mobile Screens is introducing an electrical service truck kit that will hold key electrical components for repairs and replacements on track screens.

These kits will help dealers and end users ensure they have critical components on hand to limit downtime. Depending on the kit, items will include Packard/Delphi terminals, Metri-Pack connectors, 12- or 24-volt relays and fuses, 120 ohm resistors and strip links.

Updates to Kodiak® Plus Cone Crusher

Johnson Crushers International has made many improvements to its Kodiak® Plus Cone Crushers. The crusher now features a protective door to shield the system from damage made by material. Bowl sensors have also been moved to a safer location away from material.

New cone crushers now feature a labyrinth contact seal. This seal was developed to reduce the amount of contaminates entering the oil. Field testing concluded dramatically increased oil filter life.

JCI also introduced a kidney loop kit that may be purchased and installed on the Kodiak® Plus cone crusher's lubrication panel.

The kidney loop is a secondary filtration system that pulls oil from the lubrication reservoir, pushes it through a filter and sends it back to the tank. With relatively low flow rates and filter pressure, the kidney loop is less likely to cause filter bypass. The lower pressures also allow the filter element to hold more dirt, which in turn extends the life of the main filter. The kidney loop can run continuously, providing real-time filtration. It can be set up to run an additional four hours after the crusher is turned off to provide an extra level of lube oil conditioning.

Crusher systems built after 2014 already contain the kidney loop kit, as it was part of the new MILO software program. For older crushers, the kit can be retrofitted, but the new MILO system must be installed prior to the kit's addition.



Updates to Track Tugger

The Kolberg-Pioneer track tugger is used to provide in-pit mobility to a SuperStacker®, saving producers the time that would be wasted manually moving the conveyor.

The track tugger now features a Tier 4 Final engine for more powerful function. With the upgraded engine, the tugger has the ability to run two external conveyors from the unit, action as a dynamic power source.





NATIONAL DEALER CONFERENCE

Yankton, South Dakota

This year, Kolberg-Pioneer, Johnson Crushers International and Astec Mobile Screens hosted their annual National Dealer Conference (NDC) in Yankton, South Dakota, the home of Kolberg-Pioneer. At this exclusive, two-day event, the group of companies and its dealer network met to share opportunities for the industry, network with other dealers and top industry professionals, discuss current and future equipment technology and learn how to expand new business opportunities.





NDC CONTINUED



AWARD WINNERS

- The Rocky Award, given to a dealer who has demonstrated exceptional dedication to KPI-JCI and Astec Mobile Screens and has gone above and beyond to demonstrate excellence in all facets of dealer operations, was presented to Texas Bearing Company.

- Presidents' Awards, the highest honors given to the dealers who have excelled in service, sales, parts sales, marketing and stewardship, were presented to Modern Machinery from Kolberg-Pioneer, Goodfellow Corporation from Johnson Crushers International, and G.W. Van Keppel from Astec Mobile Screens.



- Sales Excellence in Material Handling Products awards were presented to Texas Bearing Company and Road Machinery & Supplies Company.

- Sales Excellence in Washing and Classifying Products awards were presented to Mine & Equipment Design, LLC and Stone Equipment Company, Inc.

- Sales Excellence in Crushing and Screening Products awards were presented to Goodfellow Corporation and Murrysville Machinery.

- Sales Excellence in Track-Mounted Products awards were presented to Goodfellow Corporation and Thompsonrolec.

- Part Sales Excellence awards were presented to Power Motive Corporation and Road Machinery & Supplies Company.

- Service Excellence awards were presented to Modern Machinery Company Inc. and Texas Bearing Company.

THE MULTI-SOLUTION



Working in the center of the busy suburbs of the Windy City, the crew at Builders Asphalt has limited space to make their operation function at maximum capacity.

With the tight space that Guy Dickson, plant and crushing manager at Builders Asphalt, has at the Skokie, Illinois site, he

needed a portable and compact, yet powerful setup that could crush and screen both asphalt and concrete effectively. They also needed the flexibility to screen the two products easily, but they did not have an abundance of space to set up multiple screens.

Equipment size, functionality,



manufacturer reputation and affordability were Builders Asphalt criteria when updating old crushing equipment. Andy Bazan, vice president at Finkbiner, worked closely with Builders Asphalt to select a CS5260 and PTSC205 multi-frequency Screen. “The 5260 is a big impactor so when you’re doing

the concrete, it allows you a bigger feed opening so you can handle material just with an impactor. In the asphalt, it becomes more of a screening operation, which is why we needed the 5’ x 20’ to handle that volume,” said Bazan.

Danny Loughran, regional sales manager at KPI-JCI and Astec

Mobile Screens, adds, “Builders Asphalt has a small yard where they needed a new impactor, but most importantly, they needed a screen that was capable of accepting both recycled asphalt and concrete and have the ability to easily switch between the two. Working closely with Astec Mobile Screens,

we decided that the 205 multi-frequency, along with the 5260, were the best options for them.”

This unique operation, dealing with both concrete and asphalt, creates fine and coarse FRAP. “On the job, they’re grinding, loading trucks and bringing it here. Our loader pulls the grindings from the pile, places them in the hopper where they go through the impactor and get screened into our course and fine FRAP materials using the multi-frequency,” explains Dickson.

“The majority of what they’re doing is recycled asphalt here, so it’s any kind of mix of product. The piles here have been accumulating for years, so sometimes you don’t know what’s in that pile, so having that 5260, gives them the flexibility to take large pieces and be able to handle them and then at the same time, if you have millings, you can just process those through the screening side of it,” explains Bazan.

PAVING THE WAY

Builders Asphalt has a legacy that spans over 120 years. As descendants of the Palumbo family construction business, the team works together to manage, operate and grow Builders Asphalt and Builders Paving.

“We’re an asphalt plant and we do asphalt crushing to produce hot mix...we do paving as well,” said Dickson. The first crushing site, in Elburn, was in operation for ten short years before expanding to become a multi-plant company and opening its Skokie location.

Builders Paving was acquired

in 2010. The million-dollar paving company is pre-qualified by the Illinois Department of Transportation and has a team of dedicated, knowledgeable and hard-working experts.

The crew at the Skokie site is comprised of eight workers who operate the loader, impactor, screen and other components. “We have two or three guys [operating the crusher] depending on the material we’re running. You have to be a little bit more vigilant when you’re running concrete because there’s steel involved and you don’t want it to get caught up in any of your elements of the plant, so we generally have three guys on concrete and two guys on asphalt,” explains Dickson.

The small union team at Builders Asphalt trained extensively on safety and general procedures, but Bazan and Dickson explain that operational and maintenance procedures are on-the-job training. “These guys basically learn on the

job. When you buy a new crusher, most of the time, nobody’s run it before so we have to learn. The team has been around them maybe, but hasn’t learned that specific crusher, every [machine] has its own intricacies,” says Dickson, “It’s been great. We’ve had a lot of help from Finkbiner coming out, showing our guys, getting them familiar with the plant, the crusher, and procedures like changing the screens out, changing belts, telling us what to look for, and so on.”

The biggest operational challenge for the team at Builders Asphalt, as Dickson explains, is keeping up with maintenance with a small team and long hours of operation. “Being able to crush for nine hours a day and doing one hour a day of maintenance is a process. You’re adjusting belts, you’re adjusting blow bars, you’re lubricating bearings, all of those things need to be addressed on a daily basis to keep you up and running and make the products you want to do. We’ve



tried to be part of the instruction. The apprentice here, Tom, said he's been taking online courses that KPI-JCI and Astec Mobile Screens offer to become familiar with it," says Bazan. "I thought it was really interesting that a young guy would take the initiative to look online to see the information that's provided by the group," adds Bazan.

With the daily maintenance being done, Bazan and Dickson explain that the equipment runs more efficiently and effectively.

The CS5260 HSI crushing plant, Bazan explains, crushes the material down to a fine -3/8" where it is sent to a 5 x 20 multi-frequency screen.

"The multi-frequency screen has been beneficial in being able to get us to those fine cuts better than a conventional screen. I think that was one of the benefits of having the screening plant in combination with the impactor. Those fine cuts take a lot of surface area to get that product through the screen cloth," explains Bazan.

Loughran adds, "The multi-frequency is able to produce fine screenings as well as higher tonnages with the recycled asphalt. The 205 allowed them to run the bottom deck vibrators when they needed to in asphalt but then turn them off when they didn't need them for the recycled concrete."

A SUCCESSFUL PARTNERSHIP

Builders Asphalt and Finkbiner have been working together for over two decades. "We handle other products that they use, so that's

how the start of the relationship came to be," said Bazan.

Although Finkbiner has only been working with KPI-JCI and Astec Mobile Screens for a short time, Bazan has seen many benefits to the relationship.

"Equipment manufactured in America is a great thing [because] it brings you the support here. I don't have to get it from somewhere else. I can get it from KPI-JCI and Astec Mobile Screens, frequently the same day. That's a big asset for us, if there is a need, I can address it the same day or the next day. Being made in America helps that support come quickly when we need it, and you'll always need it, all equipment needs it. It's all about how quickly you can get back up," explains Bazan.

Dickson explains that in the equipment-buying process, parts, service and availability were an important factor, "Service is very important and parts are very important, as well as the ability to stay competitive with parts and their availability."

He also commented on the importance of having a relationship with the manufacturer, "Having the relationship with the manufacturer is great because they are familiar with your needs, they are familiar with your working environment,



and therefore they can work with you a little bit better as far as parts and needs."

Dickson says he hopes to continue developing his new relationship with KPI-JCI and Astec Mobile Screens and well as Finkbiner while Builders Asphalt continues to grow and expand. Bazan also says, "They have been very gracious to work with us. They are one of the larger contractors here in the Chicago market and will continue to be that. They are in a growth spurt where they are updating their old equipment and this was one of the pieces that was part of the process. We look forward to continuing our work with Builders Asphalt."



TALKING SHOP

The RAP Solution

by Patrick Reaver, Inside Sales Director, Astec Mobile Screens

Producers know that processing RAP comes with countless challenges to overcome. From keeping the site clean and safe to handling under-equipped machines, operators have to work hard to conquer these obstacles.

One of the most common hindrances on any RAP production is dust. Not only is suppressing the dust an issue, but keeping machines clean requires extra effort. Asphalt dust can plug radiators, cause engines to run poorly or overheat and obstruct other important parts, requiring more time and effort to clean all of the affected parts before being able to run again.

Dust suppression systems should be added to machines to keep the dirt under control; providing a safer work environment and cleaner machines. In addition to dust suppression systems, filter kits can be retrofitted to any KPI-JCI and Astec Mobile Screens model. These kits cover all access doors and openings, helping to stop

dust from getting to the radiator and other parts of the equipment. The filter media is easily replaceable using a simple retention system with locking pins and clips. Our plants are also designed with maintenance in mind, giving operators more space for cleaning and other maintenance.

Utilizing all electric power systems can be an effective way to remove diesel engines from the dusty environment, making the dust much less harmful. However, producers often like to maintain the convenience of having a diesel motor for remote locations or to track equipment around the site. Our new hybrid technology allows producers to power their equipment using line power or a genset, helping to keep diesel engines clear of dust. Gensets can be placed over a hundred feet away from the equipment to

reduce the amount of dust it comes into contact with.

Another challenge producers have to overcome is inadequate equipment that isn't built specifically for the RAP environment. KPI-JCI and Astec Mobile Screens impactor plants feature two, three or four bar rotor configurations, so operators can work easily with varying types of material, while providing more flexibility when working with RAP. Our hydraulically-driven rotors can vary in speed without loss of power, and also allow producers to crush and track at the same time. Improved feeders, with a high speed, low stroke design, create a smoother feed rate for more consistent performance.

Producers also need to ensure that their equipment can adequately process RAP. From undersized screens to outdated technology, having the wrong equipment can set operators back. The large screen on our FT4250CC plant maximizes production compared to competitive models. Pair the open-circuit option of this plant with a GT205 multi-frequency screening plant to increase productivity. The new multi-frequency technology combines a conventional, two-bearing vibrator, traditionally used on an incline screen, with a high frequency vibrator on the bottom deck. Along with the GT205, the multi-frequency technology is also available on the GT145 track screen, PTSC2520 and all other 5' wide screens from Astec Mobile Screens.

Another piece of equipment that excels in RAP environments is the ProSizer® crushing plant line. This machine, with three models available, is a closed-circuit, portable impact crushing plant that offers increased productivity and consistency. The ProSizer® plants are also available with hybrid power, allowing producers to run using line power or a genset, further lending itself to the RAP application and giving producers more flexibility. These plants feature a power pack design and radiator package for easy cleaning.

RAP producers face these, and many more challenges to produce their material. Working to manage or eliminate these issues can be difficult. However, if operators utilize the appropriate equipment for the RAP environment, they can help reduce maintenance, create a more consistent and quality product and reduce operating costs.

“One of the most common hindrances on any RAP production is dust.”

ProSizer® Series



ProSizer® 3600 Impactor Plant

The *all new* ProSizer® 3600 impactor plant is a single-load crushing plant for processing virgin aggregate and recycled materials. Its robust 36" x 46" horizontal shaft impactor can be paired with a 5' x 20' conventional screen or a 6' x 18' high frequency screen to meet your application needs. This crushing plant can be powered by diesel, electric or hybrid power.

Contact us to learn more at kpijci.com



ASTEC MOBILE SCREENS an Astec Industries Company
2704 WEST LEFEVRE ROAD • STERLING, IL 61081 USA • 800.545.2125 • FAX 815.626.6430 • kpijci.com





700 West 21st Street, P.O. Box 20
Yankton, SD 57078

The Savings Come in the Travel Time

The ability to break down an operation, move the equipment to a new location, set up and begin processing once took days. Wheel-mounted portable plants reduce the transportation time from days or weeks to hours and minutes.

Time saved in travel and set-up is time better used increasing your operation's output. Talk to your dealer about the benefits of KPI-JCI and Astec Mobile Screens wheel-mounted portable equipment.



www.kpijci.com/support/dealer-locator/