



VERTICAL SHAFT IMPACT CRUSHER SERIES

Maximum Efficiency | Worry-Free Operation | Robust Construction

IMPACT CRUSHERS



AGGREGATE AND
MINING GROUP

VERTICAL SHAFT IMPACT CRUSHER

CASE STORY: HOSEA O. WEAVER & SONS INC.

VSI: VERY SIMPLE IDEA FOR ASPHALT CHIP PRODUCTION

Hosea O. Weaver & Sons, a 58-year-old Mobile, Alabama-based general contractor, has crushed its own aggregate since the early 1980s. Processing gravel to make -9/16" chip for asphalt. When its older cone plant broke down, the company began to look for alternatives. With a 2" topsize feed, running the gravel through the on-site HSI that Weaver uses to process RAP produced poor results. "At that point, we knew we were going to buy a new plant, and we decided from the get-go that we wanted a VSI," says Michael Weaver.

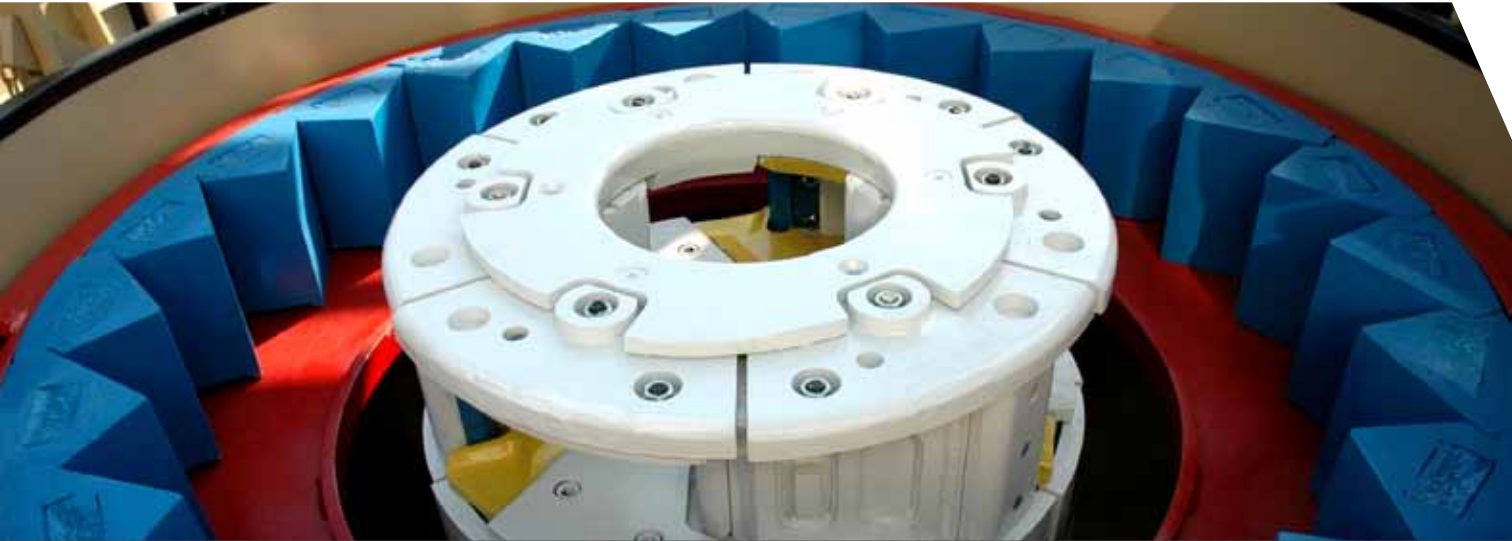
Both VSIs and today's high-speed cone crushers will produce a cubical product. The VSI, however, has the advantage of fracturing stone through impact, which typically creates a more cubical product vs. the cleavage fracture from a compression crusher. The up-front price of a VSI is lower than that of a cone, but, depending on the configuration, its wear costs can be higher over time. Compared to a standard VSI, a semi-autogenous VSI will save about 33% in wear costs, and a fully autogenous VSI will save an additional 33%.

Because Hosea O. Weaver & Sons is only making one product—from gravel, with a feed smaller than 2"—an autogenous KPI-JCI 2500EVT(A) portable VSI plant was the perfect solution for them. "From the asphalt side, our company has dealt with Astec for a long time. We knew how Dr. Brock's companies operate—and they provide personal service," says Weaver. "We took a trip to KPI's plant in Yankton, SD. We told them what we needed and they said they could do it."

"In the months since we installed it, we're getting a good, clean product for our asphalt plants. We're pleased with it so far. We looked at other models, but we were convinced that KPI could build the

Shown is a typical VSI crushing operation





Highly Efficient | Unmatched Precision | Proven Flexibility

BENEFITS

Autogenous configuration produces more spec material in a single pass.

Efficient design decreases horsepower requirements.

Reversible, replaceable and adjustable wear parts reduce operating costs.

Multiple shoe table and rotor configurations are easily interchangeable.

| MODEL | Feed Tube Diameter (in / mm) | Weight (lbs / kg) | Capacity Up To (tph / mpth) |
|-------|---------------------------------|----------------------|--------------------------------|
| 1500 | 8.5 / 216 | 13,200 / 6,000 | 150 / 136 |
| 2500 | 11.4 / 290 | 18,000 / 8,182 | 300 / 272 |
| 82 | 14 / 356 | 24,000 / 11,000 | 400 / 363 |
| 4500 | 16 / 406 | 29,600 / 13,320 | 500 / 453 |
| 120 | 18 / 457 | 32,100 / 14,595 | 500 / 453 |



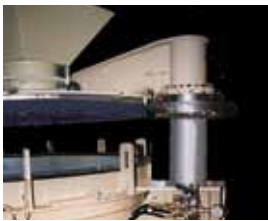
ENGINEERING INNOVATIONS

KPI-JCI engineers lead the industry in developing and pioneering new rock crushing technology. We're constantly innovating new ways to make our crushers more productive, more efficient, safer and easier to use and maintain. Below are just a few of the innovations present in our line of VSI crushers.



FEED TUBE/ INSPECTION DOORS

Externally adjustable, reversible and replaceable feed tube allows for quick, easy adjustment. Inspection doors are located on the top lid for easy access to the impact chamber.



HYDRA-ARM

Hydraulically operated, the optional Hydra-Arm assembly lifts and rotates the crusher lid, allowing safe and unobstructed access to the crushing chamber for maintenance.

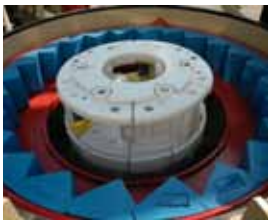
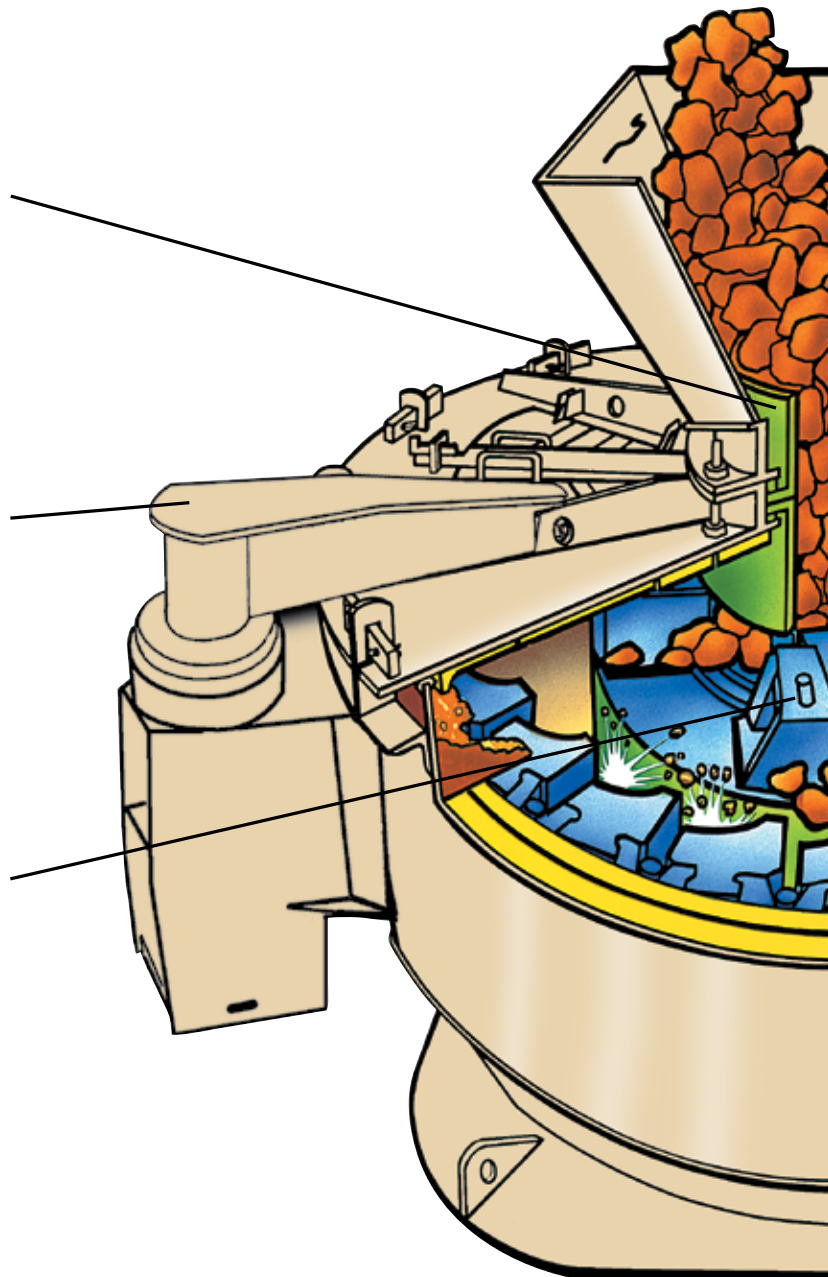
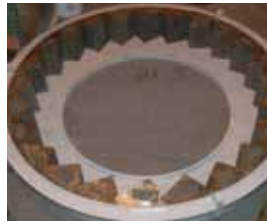
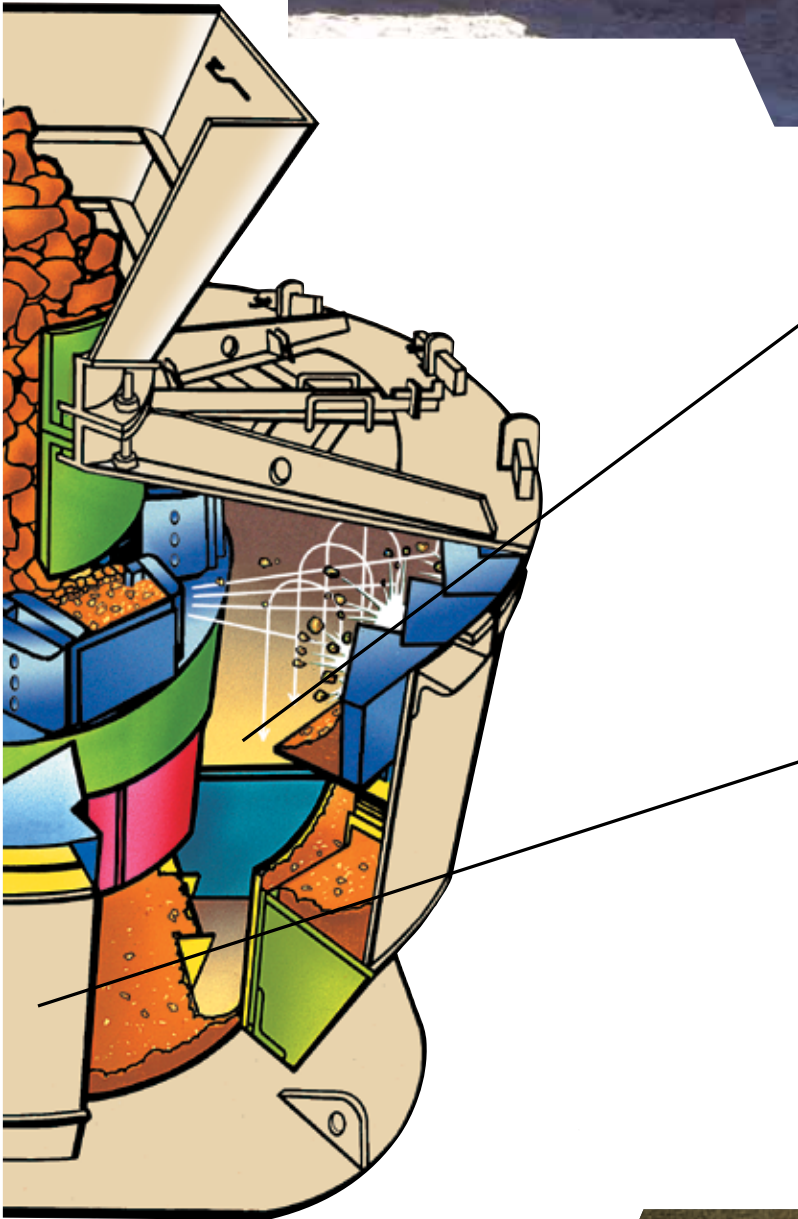


TABLE AND ROTOR

Table and rotor assemblies are interchangeable within the crushing chamber, for maximum application flexibility.





HYBRID ROCK SHELF

The exclusive use of anvils in the rock shelf provides a higher crushing efficiency. The ability to interchange the rock shelf and anvil ring optimizes production and wear cost to maximize the return on investment.



WEAR LINERS

Bolt-on wear liners protect the tub and lid surface for long service life and also allow safe and easy maintenance with no welding required.

VERTICAL SHAFT IMPACT CRUSHER



www.kpijci.com

KOLBERG-PIONEER, INC.

700 West 21st Street
Yankton, SD 57078 USA
800.542.9311
605.665.9311 F 605.665.8858

JOHNSON CRUSHERS INTERNATIONAL

86470 Franklin Boulevard
Eugene, OR 97405 USA
800.314.4656
541.736.1400 F 541.736.1424

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NOTE: SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

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