

Learn the details of the ProSizer 2612V
and you will want to put it to work
processing RAP in your yard.



The ProSizer™

THE USE OF RAP (reclaimed asphalt pavement) to reduce the cost of producing hot-mix asphalt (HMA) material is not a new concept. But producers are finding that there is an old way to use RAP—and there is a new and more effective way to use RAP.

Using RAP the “old way” meant that a producer would simply crush the milled and ripped-up HMA material that ended up in his stockpile. And he would then mix the RAP with the virgin aggregate and liquid asphalt cement (liquid AC). This system works, of course, but it lacks the precision that many producers would like to have in their mix designs in order to get the biggest cost benefits out of using the RAP.

The “new way” that many forward-thinking producers are embracing involves processing the RAP to two or more sizes in order to better approximate the amount of aggregate and liquid AC that is being added to the virgin components of the mix. By sizing—or *fractionating*—the RAP, producers are able to run higher percentages of RAP, save money, and make a high-quality end product.

That is where the ProSizer 2612V from Astec Mobile Screens comes into the picture. This closed-circuit mobile crushing and screening plant incorporates a double-deck PEP Vari-Vibe® high-frequency screen with a horizontal shaft impactor (HSI) crusher. Here’s how it works:

Material goes from the feed hopper to a double-deck high-frequency screen. The overs go to the HSI crusher for additional processing via the on-board, closed-circuit conveyor. They are then returned to the screen. Material that has been screened and sized is moved to stockpiles, with chips moving along a fold-out conveyor and fines exiting the system via a conveyor at the front of the unit.

A screen-angle adjustment system and the rotary screen-tensioning system allow the operator to make simple adjustments in order to easily meet a wide variety of RAP-application demands.

The ProSizer 2612V offers the operator a remarkably fast setup

time of less than 15 minutes. This means producers can feel free to move the unit from one location to another, crushing, sizing, and stockpiling RAP for every hot-mix asphalt production facility owned by the company. The design of the unit also makes it easy to make it a part of an in-line material processing setup.

In addition to its many versatile standard features, the ProSizer 2612V offers a number of options, including the following: a remote-controlled grizzly for dumping oversized material off the feed hopper; feed bin wings to help funnel the material into the feed hopper; and a crusher by-pass chute to facilitate the production of a third product. ▼▲▼

Here are the basic components:

The callouts in the photo below should give you a quick idea of how the flow of material is handled. [1] All plant functions are powered by a diesel engine; [2] Reclaimed asphalt pavement (RAP) enters on a 6 x 13-ft. (1.8 x 4-m) sloped grizzly; [3] The unprocessed RAP then travels along a conveyor for screening; [4] The RAP is screened and separated into three sizes—fines, chips, and

overs—on the PEP Vari-Vibe® 2612V double-deck, high-frequency screen; [5] Overs are returned to for more processing via an on-board, closed-circuit conveyor; [6] This processing is done by a 2430 Horizontal Shaft Impactor (HSI) crusher; [7] The fines (smaller-sized screenings) are deposited on one stockpile; [8] And the chips (larger-sized screenings) go on another pile.



FOR MORE INFORMATION

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