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## ENVIRO-PORT: SERVING THE ENVIRONMENTAL NEEDS OF THE READY-MIX CONCRETE INDUSTRY.



Enviro-Port builds systems to meet each customer's specific needs for fleet size and facility criteria.

Today's ready-mix and concrete producers have greater challenges than ever before. Success of their operations relies on operating efficiently. Important efficiencies can be realized by investing in equipment that is ideal for their specific needs, and by effectively managing and reducing waste.

Enviro-Port starts by customizing their installations to the users' specific needs for ready-mix reclamation. This means that customers are not paying more for components that they don't need. "Whether it's configuring a specific intake feed hopper or designing a system that fits a specific need, we're prepared to meet unique challenges," says Jeff Metz, president of Enviro-Port.

By outlining the Enviro-Port equipment and process, a system is revealed that offers simplicity in design and operation.

True to the idea of custom installation, Enviro-Port offers from 1-5 truck discharges and 8'-70' feed hoppers to a wide range of discharge tank sizes and design configurations. Some incorporate ramps for truck discharge, and others provide alternative solutions, eliminating ramps. "We prefer to utilize gravity, as opposed to mechanical devices," says Jeff Metz. "It has been highly effective, and it's extremely energy efficient – and as our name implies (enviroport), we're focused on providing an environmentally sound solution for our customers.

Other designs of our systems include discharge tanks featuring a factory-installed 4" diameter overflow at the very top of the side walls of the tank, so the maximum volume of the tank is achieved. The Enviro-Port system also features a simple butterfly valve drain system that is utilized during power outages or scheduled maintenance.

The Enviro-Port tank system incorporates a false floor, intentionally providing a material-on-material surface. Sand and stone are swept into a diagonal screw conveyor. The material-on-material design continues throughout the auger housing making flight adjustment automatic and eliminating auger-housing wear. Less wear means lower maintenance and greater uptime for the system. Because efficiency in operation is important, the auger housing is constructed with screw flights covering more than 85% of the housing area.

"Our custom built tail bearing assembly features an automatic lubrication system that was introduced to us by a ready mix producer," states Metz.



Enviro-Port systems utilize residual water in the truck cleaning system. Residual water is metered as part of the water management process.

The Enviro-Port system also incorporates high-quality centrifugal pumps, which have been used to achieve multiple functions with great success. “We size our pump systems to accommodate our customer’s needs, says Metz “Our batch plant pump systems range in size from a 3” – 300gpm pump to a 5” – 500gpm pump, with even higher flow rates available.” Flushing of the system is achieved with automatic cycle modes. This flushing feature ensures that the pneumatic butterfly valves remain fully functional, even if foreign debris is encountered.

The Enviro-Port system offers discharge rates ranging from 10 to 60 yards per hour.

Enviro-Port’s electrical panels carry UL and ULC certification. Factory installed, rigid steel and steel lined flexible conduit is utilized. Water lines are scheduled 80 and schedule 40 steel pipe and high-pressure flexible reinforced rubber hose. And the entire Enviro-Port system is monitored and managed through state-of-the-art control system.

The Enviro-Port system uses residual water to rinse cement mixers too. Drivers simply push a start button, which runs off a timer for shut-off. Potential overload situations are prevented via a combined visual and audible overload signal that alerts drivers before problems occur.

Water management is key in the design of any ready-mix concrete recycling system. It determines how the system impacts the environment. The Enviro-Port system utilizes Precision Gray Water Rebatching, incorporating the plant’s process/storm water resources as the discharge tank’s primary water source. Minimal municipal water is ever used.

“I recently had people asking me questions about our product in comparison to competitive reclaimers’ systems,” explained Jeff Metz. “I had to explain that what they were doing was comparing apples to oranges. There are several reclaimers in the market such as Bibko and Scrommel. It’s impossible to compare systems on a head-to-head basis,” adds Metz. “Any responsible ready-mix or concrete producer knows that the only way to get what’s best for them is to consult with the system manufacturer, and to talk to other ready-mix producers in order to purchase the system that’s really right for them.”

Enviro-Port representatives are factory-trained professionals only. They are knowledgeable on all aspects of the Enviro-Port system. “We’ve employed a **factory-direct sales approach** which keeps the design and build of any Enviro-Port system managed carefully, providing optimum solutions for all our ready-mix customers,” said Metz. “Anything less will not give the customer the support and knowledge they need.”

**For more information on Enviro-Port’s ready-mix reclamation systems, contact Enviro-Port, Inc. at 800-356-8106.**



Enviro-Port is manufactured under a number of U.S. Patents with several other patents pending.