

RIVERSIDE ENGINEERING

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## SPIRIT OF INNOVATION

**Riverside Engineering** offers highly engineered metal shredding solutions to the recycling industry.



**A NEW DIRECTION.** While its corporate structure may have undergone some recent retooling, Riverside Engineering's commitment to providing highly engineered shredding solutions to its customers remains the same. Built on 40 years of experience in the metal shredding industry, Riverside offers shredder and rotor design, fabrication, controls and separation systems. Leveraging the depth of its industry experience allows Riverside Engineering to provide installation services, consultative audits and emergency response services.

The company has also maintained its commitment to innovation. Riverside understands that it is not serving a static industry. The auto recycling and scrap processing business is constantly changing, and Riverside Engineering is determined to continue updating its product offerings to best serve this evolving market.

**WEALTH OF KNOWLEDGE.** Riverside Engineering increased its wealth of information and intellectual property with the acquisition of Newell Industries in October 2000. The acquisition allows Newell's catalog of shredder and casting designs to be at Riverside's fingertips, which is a resource that Riverside Engineering President Randy Brace believes can't be underestimated. "Having on hand the original fabrication drawings allows us to respond quickly and accurately to our customers' needs," Brace says.

**"In a way, all Riverside Engineering solutions are customized to the needs of our customers and their operations." – Jim Olson, CEO, Riverside Engineering**





**H<sub>2</sub>PRO WATER INJECTION SYSTEM.** H<sub>2</sub>Pro is a low-cost water injection system designed to reduce dust and emissions as well as monitor daily water usage. The system is able to use city water pressure levels. Air mixing nozzles allow the water to enter the shredder in a very fine mist spray, which greatly improves the rates at which steam is created in the shredding chamber. This benefit reduces the severity and frequency of explosions.

**“We do everything we can to help customers understand in great detail the equipment they’re going to be receiving from us.” – Jim Olson, CEO**

**M-SERIES MEGASHREDDER®.** The M-Series Megashredder® is a prime example of Riverside Engineering’s innovation. Having hands-on experience in shredder design that spans 20 years from the original SHD (Super Heavy Duty) shredders in 1985 to the MegaShredders (120-inch rotor diameter) developed in 1991, Riverside Engineering knows and understands shredders. This knowledge, combined with the input from several shredder operators, was used to develop the M-Series of shredders. The first M-Series MegaShredder installed, now having processed more than 2 million ferrous tons, powered by 7,000 hp can process in eight hours 2,400 ferrous tons with a density in excess of 90 pounds per cubic foot.

Four recently installed M-Series MegaShredders with 9,000-hp drives will be processing by January 2007. In addition to the M122112, M-Series shredders are available in sizes to meet the specific needs of today’s individual scrap processors. “The M-Series has proven to minimize the operating and maintenance costs while maximizing productivity and profits for their operators,” says company President Randy Brace.

**SUPER DOUBLE FEED ROLL AND SHREDDER CRUISE CONTROL.** Designed to better control the feed of material into the shredder, the Double Feed Roll is constructed to resist twisting and flexing. This reduces the amount of relative twist between the shafts of the system and helps to prevent damage to the bearing component. It also guards against the possibility of breaking the bearing housings loose from the feed roll yoke.

Keeping with Riverside Engineering’s commitment to efficiency, Cruise Control is a feed roll automation platform that adjusts the feed rate of material to maximize shredder output and efficiency. The system works on the same principle as the cruise system on a car. It automatically adjusts the speed, direction and height of the feed roll, regulating the flow of scrap to the shredder for maximum operating efficiency. Yet the operator always has the ability to easily override the system. Jim Olson, Riverside Engineering CEO, says, “The operator doesn’t have to physically manipulate the controls to get the machine to feed at an aggressive rate.”



**HEAVY HAMMER 4-ARM SPIDER ROTOR.** This rotor is designed for maximum throughput, increased hammer life and improved durability and serviceability. The increased hammer and rotor weight improve the available kinetic energy impact force. The “Heavy Hammer” rotor uses the same spiders, caps and pins as the standard Riverside Engineering rotor but by reducing the number of spiders and increasing the hammer thickness the hammers weights can be increased by more than 20 percent. This design allows operators to expand their business into heavier scrap markets.

**CUSTOM DESIGN.** Riverside’s M-122 MegaShredder® targets high volume auto shredding operations, typically those with monthly production rates over 30,000 tons.

However, in addition to these high volume systems, Riverside prides itself on the ability to customize systems to meet individual shredders’ needs that might not fall into that target demographic. “We pride ourselves on being flexible and able to work with everyone from smaller companies requiring a lot of custom design to large mills—we work regularly with both ends of the scale,” says Riverside Engineering President Randy Brace.

“Our engineering and sales team will listen to our customer’s concerns, review the shredding system and make customized recommendations for productivity improvements and reductions in operating costs,” says CEO Jim Olson. “In a way, all Riverside Engineering solutions are customized to the needs of our customers and their operations.”



**FOLLOW-THROUGH.** The Riverside Engineering team prides itself on maintaining a close relationship with its customers throughout the installation process.

After a shredding solution has been reviewed and accepted by the customer, Riverside assigns a project manager to coordinate and monitor the activities and milestones of a project plan. "After the sale, the company doesn't just take over – Riverside Engineering will be actively involved in the installation and start-up of the shredding system they'll be using," says CEO Jim Olson.

"We do everything we can to help customers understand in great detail the equipment they're going to be receiving from us," he says.

To address any questions or problems that do arise, Riverside Engineering has certified personnel available 24/7 to assist with post-sale installation and support services. In addition, the company offers a suite of system monitoring products that allows support staff to remotely manage and troubleshoot customer operations over the Internet, which puts the skills and industry knowledge of the Riverside staff at its customers' service instantaneously.



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**THE POWER OF REPUTATION.** Announcing the new corporate arrangement of Riverside Engineering, along with the company's cooperative agreement with Riverside Products, creates an ideal opportunity to re-introduce Riverside's product line and relationship-focused business philosophy to the industry. Led by President Randy Brace, CEO Jim Olson and Sales and Marketing Manager Rusty Manning, the company is poised to build on its strong reputation.

Brace says that maintaining a reputation as a fair dealer is central to the Riverside Engineering philosophy. He says a company's integrity is constantly being tested in the shredding industry, which makes maintaining an honest reputation all the more important. "We want our customers to see Riverside Engineering as a reputable and fair company that they want to do business with because they know they're going to be treated with respect." he says.



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