

Wisconsin Stamping & Manufacturing Highlights

Industrial Benefits of Raschig Rings

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Wisconsin Stamping & Manufacturing, an ISO 9001 certified metal fabrication company located in Germantown, Wisconsin, has released new information detailing the industrial benefits of raschig rings and their expanding role across chemical processing and separation operations. The announcement outlines how the company manufactures these random packing components for facilities that depend on efficient mass transfer, and it clarifies the material options and performance characteristics that engineers weigh when specifying packing media for demanding environments.

Raschig rings are tubular metal pieces that typically feature an equal length and diameter, and they are used as random packing materials inside process equipment. When loaded into a column or vessel, the rings settle into a randomly packed configuration that creates a large amount of surface area within a compact footprint. That surface area, combined with the open geometry of each ring, promotes contact between liquid and vapor streams and supports the chemical and physical exchanges that many industrial processes require.

The company noted that raschig rings serve a wide range of applications. They are commonly installed in fractional distillation columns, quench towers, and gas absorption and stripping systems, and they are also used as media supporting reactor internals. In each case, the packing helps distribute flow, increase interfacial contact, and improve the overall efficiency of mass transfer operations. Because the rings can be produced in numerous sizes, they allow process engineers to tailor packing characteristics to the throughput and separation goals of a specific unit.

Material selection is a central consideration in the company's approach to raschig ring production. Wisconsin Stamping & Manufacturing produces rings from stainless steel, carbon steel, aluminum, copper, nickel, exotic alloys, and superalloys. This range gives customers the ability to match a packing material to the temperature, pressure, and chemical exposure conditions of their process, whether the priority is corrosion resistance, thermal stability, or cost control across a large fill volume.

According to the company, three benefits define the value of metal raschig rings in industrial settings. The

first is comparatively low cost, made possible by the breadth of available metals and the ability to specify an economical alloy where process conditions permit. The second is durability, as metal rings can withstand caustic chemicals and extreme temperatures that would degrade other packing materials. The third is high capacity paired with strong separation efficiency, which allows facilities to process significant volumes while maintaining the quality of the separation.

"Raschig rings remain one of the most dependable forms of random packing available to process engineers, and the material really is what makes the difference," said David Renner, Director of Manufacturing at Wisconsin Stamping & Manufacturing. "When a customer tells us about the temperatures, the chemistry, and the throughput they are dealing with, we can point them toward the alloy that will hold up and perform the way they need it to over the long run."

The company also produces pall rings, a related packing product that features perforated windows around the perimeter of the ring. Those openings increase flow rates and reduce the fouling that can occur with standard raschig rings, giving engineers an additional option when a process calls for higher capacity or lower pressure drop. Offering both product types allows the company to support a broader set of separation and processing requirements from a single manufacturing source.

Wisconsin Stamping & Manufacturing operates from Germantown, Wisconsin, and brings nearly 70 years of metal manufacturing experience to its packing media work. The company recently acquired DJS Manufacturing as a subsidiary and partners with WorldSource Fasteners, additions that broaden its production capabilities and supply relationships. Its ISO 9001 certification reflects a documented quality management system that supports consistency across product lines.

"Our customers are running processes where reliability is not optional, so we take the same care with a packing component that we would with any critical part," Renner said. "The goal is always to deliver rings that arrive to specification and perform in the field."

Raschig rings continue to hold a foundational place in distillation, gas absorption, stripping, and related chemical processing operations, and the durability and material flexibility of metal packing keep it relevant for facilities operating under harsh conditions. Wisconsin Stamping & Manufacturing produces these components to support industries that depend on efficient and reliable mass transfer.

For more information, visit www.wisconsinstamping.com.

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Wisconsin Stamping and Manufacturing

Since 1958, our roots have been in metal stamping. But today it's about metal fabrication of virtually every kind, in every metal type and stock, and through numerous processes.

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