

GEA and SGL Carbon develop new graphite steam jet vacuum pumps

- Major advantages over porcelain pumps
- Energy savings of over 30 percent
- Fast delivery times and availability

In a collaborative effort, SGL Carbon and technology group GEA have developed a new steam jet vacuum pump made of graphite. Thanks to the combination of the many material advantages, customers in the chemistry industry save over 30 percent energy.

In the highly corrosive sector of chemical industrial processes, the new GEA vacuum pumps made of SGL Carbon DIABON® graphite provide major advantages over pumps made of porcelain, the main material used to date – at competitive prices. Graphite also offers a greater degree of design freedom and faster delivery times. All of this is possible because the housing of the graphite steam jet pumps is made in a standardized size, while the internal geometry can be tailored to the customer's requirements.

“To retrofit existing systems, we offer a complete service package, from inspection of the vacuum unit, to support in determining performance characteristics, to engineering and execution,” states Sascha Schumacher, Service Consultant After Sales Vacuum Systems at GEA. “We're happy to cooperate with SGL Carbon to offer our customers a solution that not only optimizes performance and energy consumption, but also presents an economically attractive alternative to porcelain ejectors.”

Ralph Spuller, Head of Product Management Process Technology, Graphite Materials & Systems Business Unit at SGL Carbon: “Together with GEA, we have developed a pinpoint solution that is geared to customers in the chemical industry and their special requirements. And it's a winner: We are already supplying many customers with components in the new design.”

In addition to the jet pumps, SGL Carbon also supplies block heat exchangers and connection components for between block heat exchangers and jet pumps made of DIABON graphite for these applications.

About SGL Carbon

SGL Carbon is a technology-based company and world leader in the development and

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production of carbon-based solutions. Its high-quality materials and products made from specialty graphite and composites are used in industrial sectors that determine the future: automotive, aerospace, solar and wind energy, semiconductor and LEDs as well as in the production of lithium-ion batteries and other energy storage systems. In addition, SGL Carbon develops solutions for chemical and industrial applications.

In 2017, SGL Carbon generated sales of around 860 million euros. As of December 31, 2017, the company had approximately 4,200 employees worldwide in 34 locations in Europe, North America, and Asia.

Materials, products and solutions from SGL Carbon are embedded in the major topics of the future: sustainable mobility, new energies and cross-industry digitization. Further developments in these areas demand more intelligent, more efficient, networked and sustainable solutions. This is where the entrepreneurial vision of SGL Carbon evolves around: contributing to a smarter world.

Further information on SGL Carbon can be found in the Newsroom of SGL Carbon at www.sglcarbon.com/press and at www.sglcarbon.com.

Important note:

To the extent that our press release contains forward-looking statements, the latter are based on information that is available at present and on our current forecasts and assumptions. Forward-looking statements, by their very nature, entail known as well as unknown risks and uncertainties that may lead to actual developments and events differing substantially from the forward-looking assessments. Forward-looking statements must not be understood to be guarantees. Instead, future developments and events depend on a large number of factors; they comprise various risks and imponderables and are based on assumptions that may possibly turn out not to be appropriate. These include unforeseeable changes to fundamental political, economic, legal and societal conditions, particularly in the context of our main customers' industries, the competitive situation, interest and exchange rate trends, technological developments as well as other risks and uncertainties. We perceive additional risks e.g. in pricing developments, unforeseeable events in the environment of companies acquired and Group member companies as well as in current cost savings programs from time to time. The SGL Carbon assumes no obligation and does not intend to adjust or otherwise update these forward-looking statements either.

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