Linde to unveil CARBOJET® at the TUBE 2008 fair in Germany

Friday, 21 Mar, 2008

The Gases Division of The Linde Group today announced that it will launch a new version of its CARBOJET® solution at TUBE 2008 at Dusseldorf in Germany. With high speed gas injection, CARBOJET® makes it possible to alter the furnace atmosphere and create gas circulation, which improves convection and increases both the heat and carbon transfer rates. The patented CARBOJET® high speed nozzles utilize only 1 cubic meter of gas to alter 30 cubic meter of furnace atmosphere. Companies like Sennestahl GmbH in Bielefeld, Germany have achieved remarkable cost savings with CARBOJET®.

CARBOJET® can eliminate a major disadvantage of regular furnaces, because the solution enables a stable atmosphere in furnaces that have no ventilators. It consists of one or several CARBOJET® high speed nozzles with piping and flow train. The number of nozzles corresponds to the furnace size and existing gas consumption. Gas flows can be controlled manually or through a CARBOFLEX® atmosphere control system. As a result, tailor made solutions provide better quality of products and increase productivity through faster carburisation processes.

CARBOJET® technology can be used in various heat treatment processes (annealing, carburising, carbonitriding etc.) and has proven to be a success in roller hearth, belt, rotary retort, and pit furnaces. Since the first CARBOJET® solution was developed three years ago, Linde Gas has implemented over 20 installations at 15 European heat treatment companies. These include some leading tube manufacturers who have been able to anneal steel tubes with higher and more homogeneous quality after the installation of CARBOJET®.

Mr Sami Ahonen product manager of the Heat Treatment Department of Linde Gas said that “With CARBOJET® we are able to offer a unique solution to the market that differentiates us from competing gas companies or furnace manufacturers. We are proud of the high satisfaction expressed by our clients with Linde’s new heat treatment solution.”