

LOI Italimpianti Essen

Am Lichtbogen 29
45141 Essen
Germany
phone +49 (0) 201 1891.1
fax +49 (0) 201 1891.321
loiitalimpianti@de.tenovagroup.com
www.tenovagroup.com



PRESS RELEASE

Contacts: Andrea Kehry +49 201 1891310
andrea.kehry@loi-italimpianti.de

Marina Landi +39 010 6054475
marina.landi@it.tenovagroup.com

Tenova LOI Italimpianti to supply a rotary hearth furnace with zone separation for Volvo Powertrain

The Swedish company Volvo Powertrain has awarded LOI Thermprocess, a Tenova LOI Italimpianti company, a contract to supply a roller hearth furnace for the gas carburizing of transmission parts to increase production capacity at its Köping plant. Quality, efficiency and high precision combined with versatile production technology are the requirements posed by Volvo Powertrain for the new plant. The LOI Italimpianti rotary hearth gas carburizing furnace features zone separation designed for flexible programming and implemented using thermally insulated, gas-tight intermediate doors. The heating-up, carburizing and diffusion stages of the process are therefore carried out in separate zones of the continuous furnace ring. The use of a controlled atmosphere enhances quality, reduces process times and cuts costs. The charge material (shafts and gears) is transferred through the furnace on trays. These trays are charged into the furnace and discharged by a manipulator, thus reducing wear. Following the completion of the heat treatment programme, the charge can be quenched in an oil bath at oil temperatures of 40-70°C or 50-200°C. The furnace is heated by vertically positioned low NOX radiant tubes. The LOI Italimpianti furnace design with zone separation ensures extremely precise temperature and atmosphere control in the various furnace zones.

Production with the new heat treatment plant is scheduled to start in June 2009.

Tenova LOI Italimpianti is a leading supplier of industrial furnaces and services for the metal industry. Tenova designs and supplies advanced technologies, products and services for the metal and mining industries. Tenova operates close to its customers through a network of 30 companies based in 16 different countries. For more information visit our website at www.tenovagroup.com.