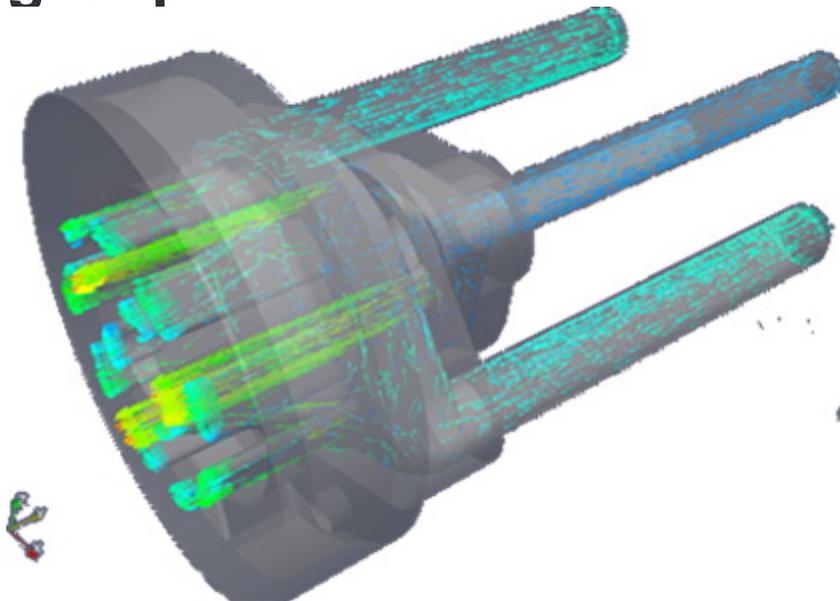


PRESS RELEASE

Düsseldorf, January 15, 2019

Nanjing Iron and Steel upgrades electric arc furnace with injector technology from SMS group



Design study with computational fluid dynamics (CFD).

Nanjing Iron and Steel Co., Ltd., China, has placed an order with SMS group to supply new SMS group ConSo R6 injectors for the electric arc furnace No. 3 in Luhe, Nanjing. Erection and commissioning of the

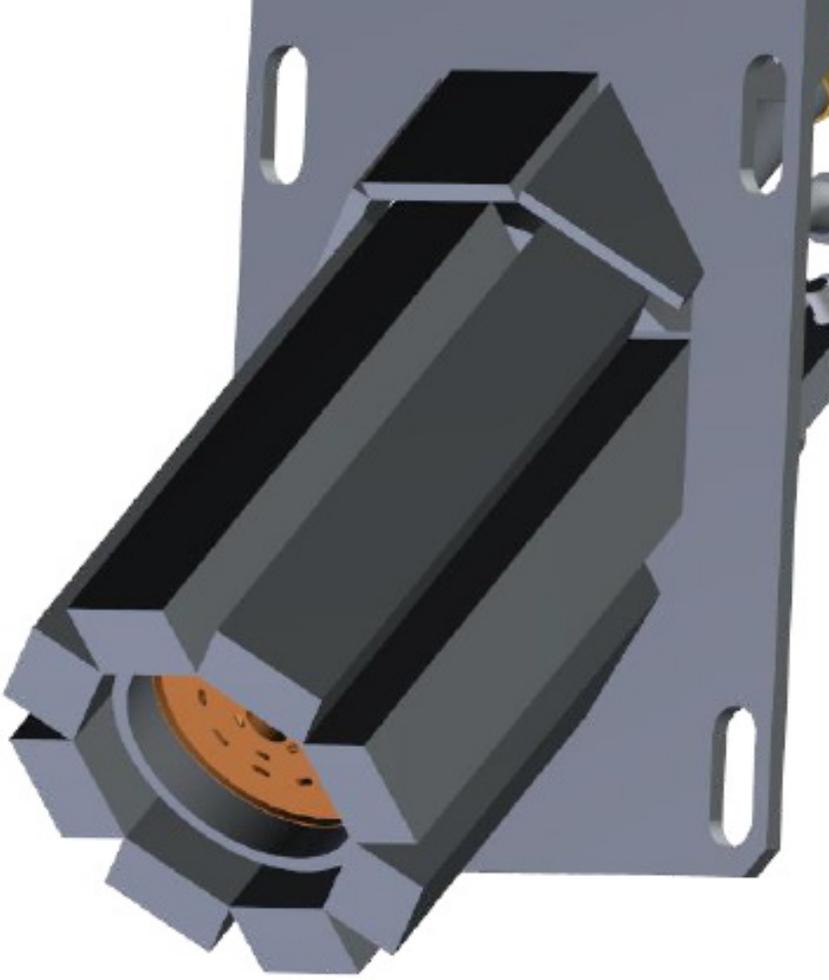
equipment are scheduled for 2019.

The main goal of the upgrade is to cope with the future reduction of hot metal by replacing it with scrap in the charge. For this purpose, efficient injector technology is required. Furthermore, the upgrade will reduce operating costs and increase productivity.

The injector design was developed using computational fluid dynamics (CFD). The new lightweight construction, ten percent lighter than previous version, is particularly easy to maintain.

The SMS group ConSo R6 water-cooled copper boxes in monoblock design are not susceptible to cracking and effectively prevent water leakage. The integrated flashback detection system allows continuous monitoring of the ConSo R6 injector. The injector, which can be operated in burner or oxygen injector mode, additionally provides for automatic management of the melting profiles, ensuring excellent efficiency.

The SMS group scope of supply includes three ConSo R6 injectors, water-cooled copper boxes, the respective valve stations, an integrated flashback detection system as well as supervision of the erection and commissioning activities.



3D design of the SMS group ConSo R6 injector.

SMS group is a group of companies internationally active in plant construction and mechanical engineering for the steel and nonferrous metals industry. It has some 14,000 employees who generate worldwide sales of about EUR 3 billion. The sole owner of the holding company SMS GmbH is the Familie Weiss Foundation.