



MAX1 compressor technology: Breaking through to additional fields of application

Following its very successful market entry, the latest axial compressor technology from MAN Diesel & Turbo is now convincing also in the iron and steel industry

Swedish SSAB, a leading European manufacturer of special steel products, has placed an order with MAN Diesel & Turbo for its latest MAX1 axial compressor technology. „This will very much improve the cold blast supply at our steel works in the Swedish town of Luleå”, so Patrik Midebjörk, Blast Furnace Manager at SSAB Luleå. “With this changeover to the latest axial compressor technology available in the market, we are mainly heading for a significantly reduced power consumption, meaning both lower operating costs and environmental advancement in terms of less CO2 emissions.”

Dr Lothar Wallscheid, heading the basic industries sales segment at MAN Diesel & Turbo: “While SSAB, as our esteemed customer, can make use of its existing electric drive capacities for this project, our scope of delivery comprises a full package that follows a plug and play logic. Beside guaranteed machine availability, based on extensive remote diagnostics, this includes auxiliary equipment and comprehensive services like spare part supply and operator training modules.”

This order also marks another breakthrough for the MAX1 technology of MAN Diesel & Turbo. The latest axial compressor technology available in the market will now come into operation beyond global air separation industry, where it found its very successful market entry: Already 19 units have been ordered for sophisticated air separation projects. Now MAN Diesel & Turbo is offering this technology also optimized for other branches, e.g. iron and steel or the fertilizer industry.

In initial projects, MAX1 axial compressors and the related blading technology convinced through greatly enhanced power density and performance, while exceeding expectations in terms of reliability. Technology wise, this was achieved by combining compression technology of modern gas turbines with the one of industrial large-volume compressors. Result is a significantly lower power consumption together with a unique robustness along the whole operating range.

The task of the MAX1 compressor in Luleå will be a rather demanding one. Ambient temperatures ranging from -40° to +30 °Celsius are making great

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MAN Diesel & Turbo SE
Steinbrinkstrasse 1
46145 Oberhausen

Felix Brecht,
Media Relations & Publishing

Tel. +49 (0) 208 – 692 2735
felix.brecht@man.eu

www.mandieselturbo.com
www.turbomachinery.man.eu



demands here on project engineering and chosen material. With blast furnace compression asking for a particular wide operating range, this is supported through quick reaction times and a very high availability of the compressor, to serve alternating demands of the steel production process.

Commissioning of the current project in Sweden will take place in the second quarter of the year 2018.



(SSAB_Lulea_copyright_SSAB.jpg) Steelworks of SSAB in Luleå: Blast furnace application is making great demands here on the compressor technology.



(MDT_MAX1_Copyright_MDT.jpg) MAX1 axial compressor: MAN Diesel & Turbo now offers this highly efficient and robust technology for additional applications.

Press Release

MAN Diesel & Turbo



Press Release
Page 3 / 3

About MAN Diesel & Turbo

MAN Diesel & Turbo SE, based in Augsburg, Germany, is the world's leading provider of large-bore diesel and gas engines and turbomachinery. The company employs around 14,500 staff at more than 100 international sites, primarily in Germany, Denmark, France, Switzerland, the Czech Republic, India and China. The company's product portfolio includes two-stroke and four-stroke engines for marine and stationary applications, turbochargers and propellers as well as gas and steam turbines, compressors and chemical reactors. The range of services and supplies is rounded off by complete solutions like ship propulsion systems, engine-based power plants and turbomachinery trains for the oil & gas as well as the process industries. Customers receive worldwide after-sales services marketed under the MAN PrimeServ brand.