



NEWS RELEASE

Midrex Technologies, Inc
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Tosyali Holding to build World's Largest DRI Combo Plant Project Awarded to Midrex and Paul Wurth for 2.5 MTPY HDRI/CDRI Plant in Algeria

June 22, 2015

(Charlotte, NC – USA) Tosyali Holding has awarded Midrex Technologies, Inc., and its partner Paul Wurth S.A., the project to build the world's largest multiple product direct reduced iron plant for Tosyali Algeria located in Bethioua (Oran), Algeria.

The new MIDREX NG™ Direct Reduction Plant Combo will be designed to produce 2.5 million tons of DRI and have the capability to vary its production to produce hot direct reduced iron (HDRI) and/or cold direct reduced iron (CDRI) simultaneously without stoppage of production. This new DRI plant will be the largest single DRI plant to produce multiple DRI products in combination. HDRI will be fed via an Aumund hot transport conveyor to a new EAF meltshop located adjacent to the MIDREX® DRI Plant allowing for greater EAF productivity and energy savings; CDRI can also be produced for additional onsite use. The new Tosyali Algeria MIDREX® DRI Combo Plant will provide the Tosyali Algeria steelmaking facility with greater production flexibility to produce high quality, low impurity steels as well as decrease their demand for imported scrap.

Benefits of Hot Direct Reduced Iron

There are two main benefits of charging hot DRI (HDRI) to the EAF: lower specific electricity consumption and increased productivity. The energy savings occur because less energy is required in the EAF to heat the DRI to melting temperature, resulting in a shorter overall melting cycle.

Additional benefits of charging hot DRI (HDRI) to the EAF are:

- Less energy required to heat the DRI to melting temperature.
- Shorter overall melting cycle
- Reduced electrode consumption
- Reduced tap-to-tap time up to 20% compared to charging DRI at ambient temperature.
- Reduced electricity consumption about 20 kWh/t liquid steel for each 100° C increase in DRI charging temperature.
- Lower overall emissions due to lower electricity demand and reduced need for charge carbon

The history of **Tosyali Holding** goes back to 1952. Iskenderun's first holding, Tosyalı Holding, began a rapid period of growth in the 1980's. Tosyalı Holding has 16 facilities throughout Turkey with 6 in the Osmaniye Organized Industry Zone (OIZ), 1 in Istanbul, 1 in Izmir, 7 in the Iskenderun OIZ and 1 in the investment stage. Also the company has 2 facilities in the North African country of Algeria and 1 in Europe's Montenegro. Tosyalı Holding has a total of 18 facilities on 3 continents in 6 different regions along with 12 affiliates. Under the Tosyalı Holding umbrella there are the 3 production companies Tosçelik Profil ve Sac Endüstrisi A.Ş. , Tosyalı Demir Çelik Sanayi A.Ş. and Tosçelik Granül San. A.Ş., which are all leaders in their own sectors, and Tosyalı Dış Ticaret A.Ş., which conducts the foreign trade operations. For more information please visit: en.tosyaliholding.com.tr/



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Paul Wurth S.A.

Headquartered in Luxembourg since its creation in 1870, Paul Wurth, now a member of the SMS Group, has transformed itself over the last decades into an international engineering company. As a result of its considerable know-how and its effective policy of innovation, the Paul Wurth Group is today one of the world leaders in the design and supply of the full-range of technological solutions for the primary stage of integrated steelmaking.

With more the 1500 employees worldwide, the Paul Wurth Group operates international entities and affiliated companies in the main iron and steelmaking regions of the world.

For more information please visit: www.paulwurth.com

Midrex

Midrex Technologies, Inc. is an international process engineering and technology company providing steelmakers with commercially proven solutions for greater profitability and has been the leading innovator and technology supplier for the direct reduction of iron ore for more than 40 years. The company offers eco-friendly technologies for ironmaking that provide high productivity, outstanding product quality, and cost competitiveness. Midrex has built its foundation upon the MIDREX® Direct Reduction Process that converts iron ore into high-purity direct reduced iron (DRI) for use in steelmaking, ironmaking and foundry applications. Each year, MIDREX® Plants produce about 60 percent of the world's DRI.

For more information, visit www.midrex.com.

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