

A low-angle photograph of a massive industrial steel mill structure, featuring a complex network of pipes, scaffolding, and a tall central tower, set against a clear blue sky. A thick green diagonal line cuts across the image from the bottom left towards the top right.

MIDREX

WE DON'T FOLLOW
THE FUTURE OF STEEL
WE CREATE IT

ABOUT MIDREX

At Midrex, we believe two things to be true: our world needs steel, and the steel industry cannot survive unless we develop a way to produce high-grade steel while minimizing greenhouse gases.

Steel is used in every aspect of our lives. To make steel, you need iron. Our solution is the MIDREX™ Direct Reduction Process, a method for producing direct reduced iron (DRI), a high-quality and sustainable metallic iron. By using hydrogen in place of natural gas or other hydrocarbon energy sources, the MIDREX™ Process can reduce CO₂ emissions to nearly zero.

Every day, our Midrex team is working to create a sustainable future for iron and steel by designing, building, and supporting MIDREX™ Plants around the world. Not only are these plants more energy efficient and sustainable, they're also the most profitable to own and operate.

Since 1969, when the first MIDREX Plant was started up, we have offered the best method for decarbonizing the iron and steel industry—direct reduction. Our growth has transformed ironmaking and has contributed to the electric arc furnace (EAF) moving into the highest-quality steel grades. And none of it would be possible without our people, who bring vision, compassion, and extraordinary expertise to this work every day. By recruiting and empowering the brightest minds in engineering, research and development, and business, we will continue to offer the most sustainable solutions to our global customers.

Our Services

Material evaluation
and analysis

Technology
packages

Plant design and
plant supply

Aftermarket
(Midrex Global Solutions)

Feasibility
studies

THE MOST RELIABLE SOURCE OF IRONMAKING TECHNOLOGY

The MIDREX Process has earned a reputation for excellence. Collectively, the achievements of Midrex teammates, MIDREX Plant operators, and Midrex strategic partners have established a standard of excellence that assures our customers of a long and productive life for their plants.



55+ YEARS
OF COMMERCIAL OPERATIONS



20+
COUNTRIES WITH
MIDREX™ PLANTS



80%
OF GLOBAL SHAFT FURNACE DRI IS
PRODUCED BY MIDREX™ PLANTS

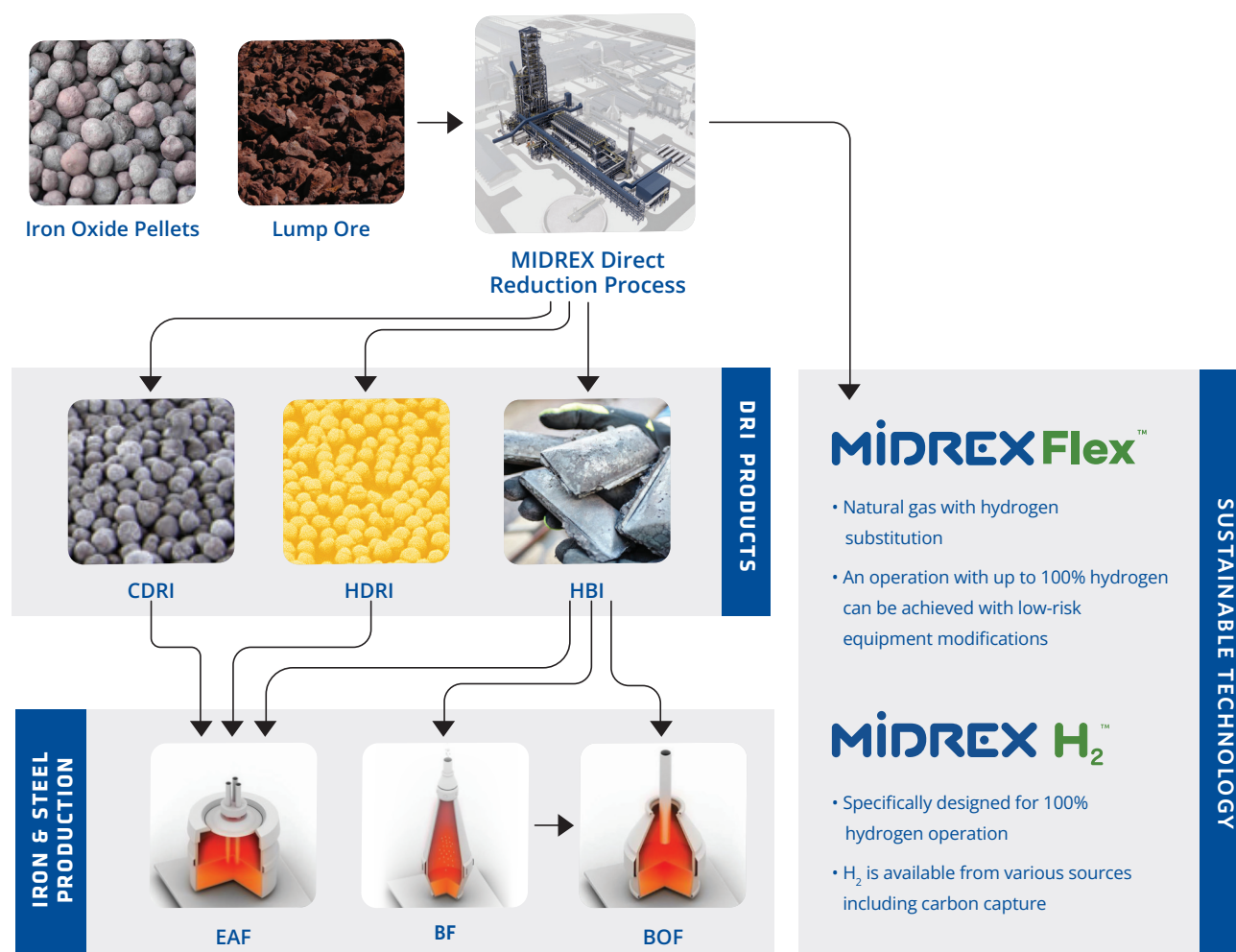


90%
OF THE WORLD'S HBI
IS SUPPLIED BY MIDREX

Innovative and Sustainable Ironmaking Solutions

The ever-increasing call for the iron and steel industry to significantly reduce its carbon dioxide emissions is driving a surge in interest in direct reduction. The environmental benefit of natural gas-based DRI plants is well documented versus the coke-based production of metallic iron via the blast furnace. Now, the prospect of using 100% green hydrogen as the reducing gas for DRI production is regarded as the key to decarbonizing steelmaking.

THE FLOW OF DRI PRODUCTS



Production Performance

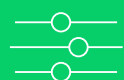
More than one billion tons of DRI produced since 1979; plants typically exceed rated annual capacity, depending on market conditions



Plant Reliability

Excellent construction-to-start-up schedules

OPERATING HOURS $\times$ HOURLY CAPACITY = ANNUAL PRODUCTION = PROFITS



Process Flexibility

Designed to the specific requirements of each client; broad range of plant designs, feed materials, energy sources, reducing gases, and discharge options.

Support for the Life of Your Plant

A successful plant start-up is the midpoint in a client relationship that begins with our sales engineers helping to develop the plant specifications and continues through assistance with financing arrangements for all or a portion of the project. Our skilled and highly experienced field personnel are involved on-site during construction, commissioning, and start-up. When the plant begins normal operations, our Technical Services Group provides support according to the unique Midrex two-way technology transfer approach, and we have a dedicated aftermarket group that includes engineers and process professionals who have decades of experience working in MIDREX Plants.

STRATEGIC ALLIANCES FOR ENHANCED PLANT PERFORMANCE

We maintain strategic alliances and working relationships with prominent engineering, construction, and equipment supply firms worldwide that enhance and complement our capabilities. This allows us to deliver plants and equipment that start up quickly, routinely exceed performance ratings, and perform reliably year after year.

All designs and engineering meet the strict requirements of our ISO 9001:2015 Quality Management System.

MIDREX PLANT LIFE CYCLE



From Ingenious Idea to Industry Icon

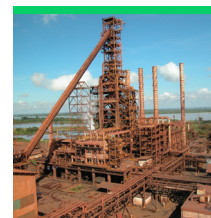
The Midrex story is one of innovations, improvements, and notable milestones. What began as a “what if...” R&D idea is today the world’s most widely used, productive technology for the direct reduction of iron.



1974. Midrex Corporation established in Charlotte, North Carolina, USA



1984. Sabah Gas Industries (now Antara Steel Mills) starts up in Malaysia — First MIDREX hot briquetted iron (HBI) plant



1990. Start-up of OPCO (now FMO Planta de Briquetas) in Venezuela — First MEGAMOD® and use of steam reformer

10 million tons per year

1990. First 1 million t/y MIDREX Plant (Ferrominera Orinoco — FMO)

OFF AND RUNNING

1960

1966. Donald Beggs of the Surface Combustion Corp. conceives the idea for the MIDREX Direct Reduction Process



CROSSING CONTINENTS

1970

1971. First commercial-scale plants — Georgetown SC, USA and Hamburg, West Germany (400,000 t/y each)



LEADING THE DRI MARKET

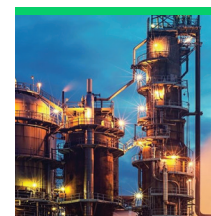
1980

50% of world's DRI

1979. MIDREX Plants producing more than 50% of world's DRI supply

CONTINUED GROWTH

1990



1990. First dual discharge MIDREX Plants — CDRI & HDRI (Essar Steel I and II, now ArcelorMittal Nippon Steel I and II)

1983. Kobe Steel, Ltd. acquires Midrex Corporation

KOBELCO
KOBELCO STEEL GROUP

1969. Prototype plant built in Portland, Oregon, USA (150,000 t/y x 2)



1999. Saldanha Steel starts up world's first COREX®/MIDREX Plant



2010. First MIDREX HOTLINK® Plant for direct charging HDRI into EAF — Jindal Shadeed, Sohar, Oman



MIDREX Flex™

2023. thyssenkrupp Steel selected Midrex and Paul Wurth to build a 2.5 million ton-per-year MIDREX Flex™ DRI plant in Duisburg, Germany



2024. Dillinger and ROGESA selected Midrex and Primetals Technologies to supply a 2.0 million ton-per-year MIDREX Flex® DRI plant and EAF complex in Germany

SETTING WORLD RECORDS

2000

NONSTOP INNOVATION

2010

2020

SUSTAINABLE FUTURE

1994. First use of oxygen injection in a MIDREX Plant at Acindar in Argentina



20 million tons per year

1996. MIDREX Plants produce more than 20 million t/y of DRI

2007. First hot transport of HDRI by insulated conveyor — Hadeed E, Al Jubail, Saudi Arabia



2007. First MIDREX Combination Plants (simultaneous discharge) — Qatar Steel 2, Mesaieed, Qatar (CDRI & HBI) and Hadeed E, Al Jubail, Saudi Arabia (HDRI/CDRI)



2018 and 2021. World's largest capacity single module DRI plants started up — Tosyali Algeria and Algerian-Qatari Steel, respectively



1 billion tons cumulative

2018. MIDREX® Plants exceed 1 billion tons of DRI cumulative (since 1971)

2022. Midrex selected by Stegra for world's first commercial-scale green steel plant

MIDREX H₂™



2025. TOSYALI SULB awarded Midrex and SMS group a contract to build a 2.5 million ton-per-year MIDREX Flex® CDRI plant in Libya





LEARN MORE ONLINE AT
WWW.MIDREX.COM

MIDREX

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5-2026