



Selas Fluid Processing is now Linde Engineering North America Inc.

Linde Engineering North America Products and Services

For over 60 years, we've been there for the refining, petrochemical, and chemical industries. Formerly Selas Fluid Processing Corporation, Linde Engineering North America Inc. (LENA) offers single source responsibility for technology, engineering, procurement and construction - *T-EPC*.

- Technology, engineering and design expertise across all disciplines has been our hallmark since our beginning. Today, we enhance that strength with the latest design and simulation software packages.
- Worldwide procurement maximizes value to our clients and ensures timely project delivery.
- Our construction management teams are experienced professionals who demand high standards at each project site, with a goal to provide an incident-free workplace.
- Revamps & rebuilds - we supply, upgrade and service fired equipment - our own Selas Fluid brand or that of other OEMs. Our Revamp Services group, located in Houston, TX, positions us to provide prompt sales and service support to our clients in the Gulf and Western Regions of the U.S. as well as Central and South America.
- Our Customer Service team is ready to assist with spare parts and equipment supply, working with our engineers and procurement center to provide effective solutions and prompt delivery.
- As a member of The Linde Group, we have a global network of resources.



Ethylene furnaces supplied on an EPC basis by Linde Engineering North America Inc. (formerly Selas Fluid Processing)

Ethylene and EDC Pyrolysis Furnaces

LENA provides the most reliable ethylene furnaces in the industry. Our furnaces operate continually for up to five years without maintenance shutdowns, putting us 'top in class' as an ethylene furnace supplier. Our EDC installations utilize virtually every major vinyl chloride monomer (VCM) processor.

Steam Hydrocarbon Reformers

Our reformers are designed for a variety of feed stocks ranging from natural gas through naphtha. Over 250 reforming furnaces supplied.

Process Fired Heaters

We provide fired heaters for many processes such as crude heating, vacuum distillation, visbreaking, steam superheating, CO boilers, reboiling, and hydrocarbon catalytic reforming.

Oxidation Technologies

LENA has supplied over 600 thermal oxidizing systems worldwide, specializing in liquid and fume incineration of hazardous chemical wastes. We provide both flame-based and unique Flameless Thermal Oxidizers.

Cryogenic Vaporizers

LNG vaporizers for both base load and peak shaving applications. Over 280 installations world wide for both peak shaving and base load applications.

Revamp/Rebuild and Aftermarket Services

Upgrades, revamps, and rebuilds maximize the life of our customers' valuable plant assets - our own Selas Fluid brand or that of other OEMs. We also provide construction services, commissioning and startup, operator training, maintenance programs, engineering studies, CFD and process modeling, and spare parts and equipment.

Global Plant Experience



Process plants are some of the largest and most sophisticated building structures ever built by mankind. Only a select few contractors are capable of designing and constructing them with Linde ranking among them. Customers worldwide trust Linde's unparalleled reliability, efficiency and competence.

Linde Engineering North America Inc. is the NAFTA regional supplier of Linde hydrogen and air separation plants. Linde has the technological advantage gained from meeting the needs of a large and diverse global market. From small, modular plant solutions to large custom designed plants, we're ready to meet the unique requirements of our clients.

Hydrogen Plants

Our primary technologies:

- Steam reforming for light hydrocarbon feedstocks combined with Linde's pressure swing adsorption (PSA) systems for hydrogen purification
- Partial oxidation for heavy hydrocarbon feedstocks followed by a sequence of integrated process steps to shift, desulfurize and purify raw hydrogen. Pure oxygen for gasification is produced with a Linde air separation unit.

Modular Hydrogen Plants

Hydro-Chem, our division in Holly Springs, GA puts us foremost in pre-fabricated, skid-mounted steam reforming hydrogen plants, with typical capacities from below 0.2 to 11 MM SCFD.

Air Separation Plants

- Modular liquid and gaseous cryogenic nitrogen and oxygen generators
- Large gaseous cryogenic nitrogen and oxygen generators
- Liquid merchant plants capable of producing liquid oxygen, nitrogen and argon

Optimized Plant Designs

- Maximum efficiency
- Robust operation and easy maintenance
- Meet international safety and environmental regulations

Technology Center

Our Technology Center is located in Conshohocken, PA, approximately five miles from our headquarters in Blue Bell, PA.

- Research and development activities for the various combustion technologies offered by the Company
- Active demonstrations of system performance to clients to validate processes

We're local. We're global. And we're proud to be both.

Linde Engineering North America Inc.

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