

NUCOR PRODUCT GUIDE

OIL & GAS



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WHY NUCOR?



POWERFUL PARTNERSHIPS. POWERFUL RESULTS.

As North America's most diversified steel and steel products company, we serve as your trusted partner to deliver world-class results. With more than 300 locations and growing, we're dedicated to your success from start to finish.

**Unparalleled customer care. Building trusted partnerships.
Creating sustained value.**

That is our vision.

Why partner with Nucor?

BUILT-IN SUSTAINABILITY

We are a world leader in sustainable steel production and North America's largest recycler. Our efficient steelmaking process is built around recycling scrap into high-quality new steel—with a GHG intensity 75% lower than the global average. That means greater sustainability and a lower carbon footprint built right into your projects.

WE UNDERSTAND YOUR CHALLENGES

In this industry, you expect the unexpected. And as your partner, we understand the rigorous safety, certification, quality, and environmental challenges you face every day. Our team is committed to responding quickly so you can keep your projects moving forward.

DEPTH OF PRODUCTS

We produce a wide range of standard and specialty steels for the energy sector. Our team works hand-in-hand with yours to meet the specific demands of every project.

CUSTOM COMPONENTS AND CASTINGS

No two projects are alike. Our casting facilities produce a broad range of custom components and castings, making Nucor a one-stop-shop for every aspect of your most demanding projects.

OIL AND GAS SOLUTIONS

With more than 25 million tons of capacity on multiple grades, we can deliver the steel required for modern onshore and offshore oil and gas applications.

Our offerings include the raw material for welded and seamless line pipe and OCTG products. For infrastructure, we produce steel used in everything from pumps, sucker rods, and storage tanks to drilling rig equipment, refineries, and offshore platforms.



DRIVING SUSTAINABILITY

Sustainability drives the business decisions of leading companies around the world. As a trusted partner, Nucor is committed to helping you be more sustainable by reducing the emissions impact of our products.

[EXPLORE OUR SUSTAINABILITY EFFORTS →](#)



ECONIQ™

[EXPLORE ECONIQ™ →](#)



As the world's first net-zero carbon steel at scale, Econiq steel products can help you meet your sustainability goals. Net zero means that any greenhouse gas (GHG) emissions released into the atmosphere are balanced by an equivalent amount being removed. The Econiq certification covers all of Nucor's steel product line, the most comprehensive in the U.S. market.

A LEADER IN SUSTAINABILITY

- Steel can be infinitely recycled and reused without any quality loss. Nucor steel products are made from an average of 75.4% recycled content, with some products containing almost 100% recycled content.
- Nucor produces steel with 75% less GHG intensity than the global average.

AN EYE ON THE FUTURE

Nucor is committed to reducing its GHG emissions and driving sustainability through investment and innovation. Currently, Nucor has committed to an additional 35% combined reduction in steel mill Scope 1 and Scope 2 GHG intensity by 2030, using 2015 emissions as a baseline.

\$350M

Over the last decade, we invested \$350M in environmental process equipment to lower our carbon footprint and GHG emissions.



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SHEET

As a leading partner/supplier of coil for API 5L line pipe products and API 5CT welded casing, Nucor's Sheet Mill Group is comprised of experts to solve your business' challenges. Continuous investment has allowed us to grow and provide tailored solutions to our valued energy partners along with competitive logistics out of our five sheet mills in the United States.

LINE PIPE	OCTG
Grades	Grades
API 5L grades through X80	API 5CT grades - H40, J55, N80, L80, P110, and Q125
Thickness	Thickness
Up to 3/4"	Steel grades capable of providing high collapse performance, and stable enough to produce restricted yield products Up to 5/8"

PLATE

Comprised of three production facilities in the United States, Nucor's Plate Mill Group manufactures a wide range of grades, gauges, widths, and lengths customized to meet the customer's precise specifications for offshore and onshore applications. In 2022, Nucor will be commissioning a state-of-the-art plate mill in Brandenburg, Kentucky, bringing further versatility to the energy market. Located along the Ohio river, this greenfield facility will offer customers an entire size range of 3/16" to 14" in thickness and widths from 60" to 168", covering fossil and renewable energy market demand.

OFFSHORE STRUCTURES / SUBSEA	LINE PIPE	OCTG
Grades	Grades	Grades
API 2W50-60	API X65, X70, X80	J55, L80, P110
API 2H-50 S11	Thickness	Coil weights exceeding 50 tons
API 2Y-50/60	Up to 1 1/4" on coil and 2" on plate	
ABS EQ51, ABS EQ70		
ABS DH/EH36, EH40		
A572-50/60/65		
A789-50/60/70/100		

Product listings updated as of April 2022. Please reach out to one of our product specialists at energy@nucor.com to get our latest offerings.

ENGINEERED BAR

Strategically located close to our oil and gas customers in Texas, Oklahoma, and Louisiana, Nucor's Bar Mill Group creates cost-effective Special Bar Quality (SBQ) and value-added supply chain solutions that increase our customers' competitiveness. Our solution toolbox includes clean steel carbon and alloy grade melt practices, broad rolling mill size range, continuous heat treatment, NDT inspection, cold finishing through 8" diameter, trepanning, and precision saw cutting.



SURFACE WELLHEAD SUBSEA / LAND BASED	ROTARY DRILL STEM
Grades	Grades
4130, 4140 & 8620	4715, 8715, 9315, 4130M, 4140, 4145M & 4330VMOD
Diameters	Diameters
2" to 11"	2" to 11"
Products	Products
Valves	Rotary and fixed cutter bits
Fittings	Tool joints
Flanges	Drill collar bar used for slick and spiral drill collars
Bolts	Drill stem subs—bit, cross overs, swivel, etc.
Swivel joints	Stabilizer
Pup joints	Whipstock

FRAC PUMP	OCTG AND LINE PIPE	ARTIFICIAL LIFT SYSTEMS
Grades	Grades	Grades
4140, 4330VMOD, 4715 & 8620	API / ASTM / SAE	1045, 4140, 8620
Diameters	Diameters	Diameters
3/4" to 9"	Round bloom—6" to 20 1/8" Square billet—6" to 7"	11/16" to 2"
Products		Lengths
Seats		Up to 40' on cold drawn rounds
Bolts		Up to 42' on TG&P and T&P rounds
Swivel joints		
Discharge manifold		
Packing nuts		

Product listings updated as of April 2022. Please reach out to one of our product specialists at energy@nucor.com to get our latest offerings.



CASTINGS

POK, a Nucor company, has the ability to manufacture sand castings up to 8,000 pounds and investment castings up to 1,500 pounds in finish weight. With eight induction furnaces, including a vacuum induction melting and pouring furnace (VIM), POK has the capacity to produce a wide range of alloys for the oil and gas industry, from high-strength steels, stainless steels, and copper-based alloys to specialty alloys such as Inconel 718. Our foundry expertise, knowledge of industry specifications, and wide offering of value-added services make us the preferred choice to our OEM customers. With a second facility scheduled to open in April 2022 and more than 35 CNC machines, POK is ready to deliver turnkey castings components with attractive lead times and competitive pricing.

HANDLING TOOLS FOR RIGS

- Tongs
- Roughneck jaws
- Insert bowls
- Master bushings
- Kelly bushings
- Rotary slips
- Power slips
- Tubing spiders
- Elevators
- Rod hooks
- Clamps, handles, and latches

POWER SWIVEL COMPONENTS FOR MOBILE RIGS

- Gearboxes
- Goosenecks
- Bonnets
- Bails
- Covers and nuts

BLOWOUT PREVENTER COMPONENTS

- Annular Blowout Preventer (BOP) segments
- Variable Bore Ram (VBR) inconel segments
- Ram blocks and ram block holders
- Doors and door hinges
- Cylinder heads
- Single and double BOP bodies

DRILLING

- Fixed cutter drill bits
- Roller cone drill bits
- Coil tubing equipment

COMPLETIONS

- Flapper valves
- Mud pump components (crossheads, guides, pulsation dampers)
- Motor housings and covers

SUBSEA

- Remote Operating Vehicle (ROV) components

FRAC PUMP POWER-END

- Bearing housings
- Connecting rods
- Crossheads
- Manifolds

PUMPS AND VALVES

- Impellers
- Casing covers
- Body casing
- End covers
- Valve guards
- Suction valves
- Suction bell
- Oil cylinder
- Body globes
- Yoke

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CONTACT

29 LOCATIONS SUPPORTING THE OIL & GAS INDUSTRY

- SHEET
- PLATE
- ◆ ENGINEERED BAR
- | BAR
- ▲ COLD FINISH
- ▣ BEAM
- ◆ CASTINGS

CONTACT US

Our goal is to partner with you to deliver world-class results. If you'd like to learn more about how Nucor can benefit your business, please visit us online at nucor.com or contact us at energy@nucor.com.

ABOUT NUCOR

Nucor and its affiliates are manufacturers of steel and steel products, with operating facilities in the United States, Canada, and Mexico. Products produced include carbon and alloy steel—in bars, beams, sheet, and plate; hollow structural section tubing; electrical conduit; steel piling; steel joists and joist girders; steel deck; fabricated concrete reinforcing steel; cold finished steel; precision castings; steel fasteners; metal building systems; steel grating; and wire and wire mesh. Nucor, through the David J. Joseph Company, also brokers ferrous and nonferrous metals, pig iron, and hot briquetted iron/direct reduced iron; supplies ferro-alloys; and processes ferrous and nonferrous scrap. Nucor is North America's largest recycler.

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