



INTEGRATED SERVICES
FOR THE OIL & GAS
INDUSTRY

Speed, service, and highest quality

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ONE STEP AHEAD.

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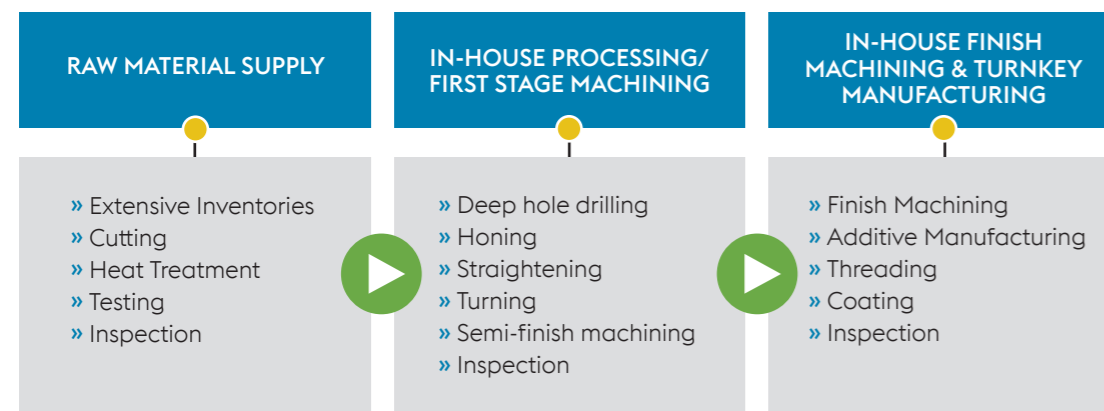
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INTEGRATED SERVICES



From material supply to semi-finished and finished machined parts, we have you covered.

Beyond our extensive portfolio of products, our internal processing capabilities - along with those of our strategic partners - provides you with access to a broad range of end-to-end services. Whether you need a cut-to-length bar of steel, a near-net shape ready for secondary finishing, or a precision machined turnkey part; we have the capabilities to meet your needs. No matter the complexity, we are committed to delivering tailored solutions that saves our customers time and money.



DEEP HOLE DRILLING

Our state-of-the-art deep hole drilling machines and specialized tooling, coupled with the best and most experienced people in the industry, enables vSM to provide world class boring services and quick turnaround times for our customers. Our ability to hold OD to ID concentricity of .010 TIR or better over lengths up to 20 feet can yield significant cost savings on material. We drill all ferrous and non-ferrous materials in-house with a capacity to bore up to 8" internal diameters and 235" in length.

HONING

Honing is used to achieve a precision hole size and an improved surface finish. Our precision machining capabilities uniquely equip us to perform precision honing services, including very fine micro finishes. Using various abrasives, we have the capability to achieve a finish as fine as 7 RMS on tolerances as tight as $\pm .001$. Size Range: 1" to 8" diameter with up to 20-foot stroke.

MACHINING & TURNKEY MANUFACTURING

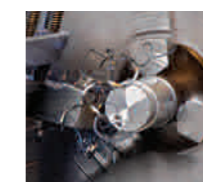
Machining of highly alloyed steel and nickel alloys requires metallurgical expertise and specialist equipment. We offer an extensive range of machining services that exceeds industry expectations. As a result, we can turn and machine a wide product range of products in-house to your most demanding specifications. Our advanced lathes can turn parts as small as 1.00" diameter up to 32.00" and 177.00" long between centers. And our enhanced hollow spindle capability allows us to machine extra-long products up to 14.00" in diameter and 44 feet long.



Deep Hole Drilling



Honing



Machining & Turnkey Manufacturing



Straightening



Additive Manufacturing

STRAIGHTENING

We utilize a 1,000-ton hydraulic press in our straightening processes. Our experience combined with capability allows us to perform straightening of the highest quality on round bars up to 22.00" in diameter. Our typical straightness tolerance is .001" per foot or .010" T.I.R.

ADDITIVE MANUFACTURING

voestalpine Additive Manufacturing Center (vAMC) is revolutionizing the design and manufacturing of components for Oil & Gas exploration and production. vAMC provides a complete solution - from concept to finished component. With our capability to support you throughout the process from idea to design and finished part, we eliminate the risk associated with multiple suppliers. We are your partner throughout the value chain which ranges from powder development to the delivery of finished products. Starting with three-dimensional CAD data, AM enables the production of even the most complex shapes.

Benefits of using vAMC for your Additive Manufacturing Projects

- » Shorter development lead time for prototyping
- » Simplified manufacturing steps
- » Stream-lined BOM & inventory

About voestalpine Specialty Metals North America

A leading player in the global oil & gas market. We are a global network of companies specializing in High Performance Metals, including nickel-based & special steel alloys. We deliver innovative and customer specific solutions to the Oil & Gas industry, and we are committed to maintaining our global presence. We produce our high quality products in our own mills, and our group of specialized companies allows us to provide customers with technical expertise and support.