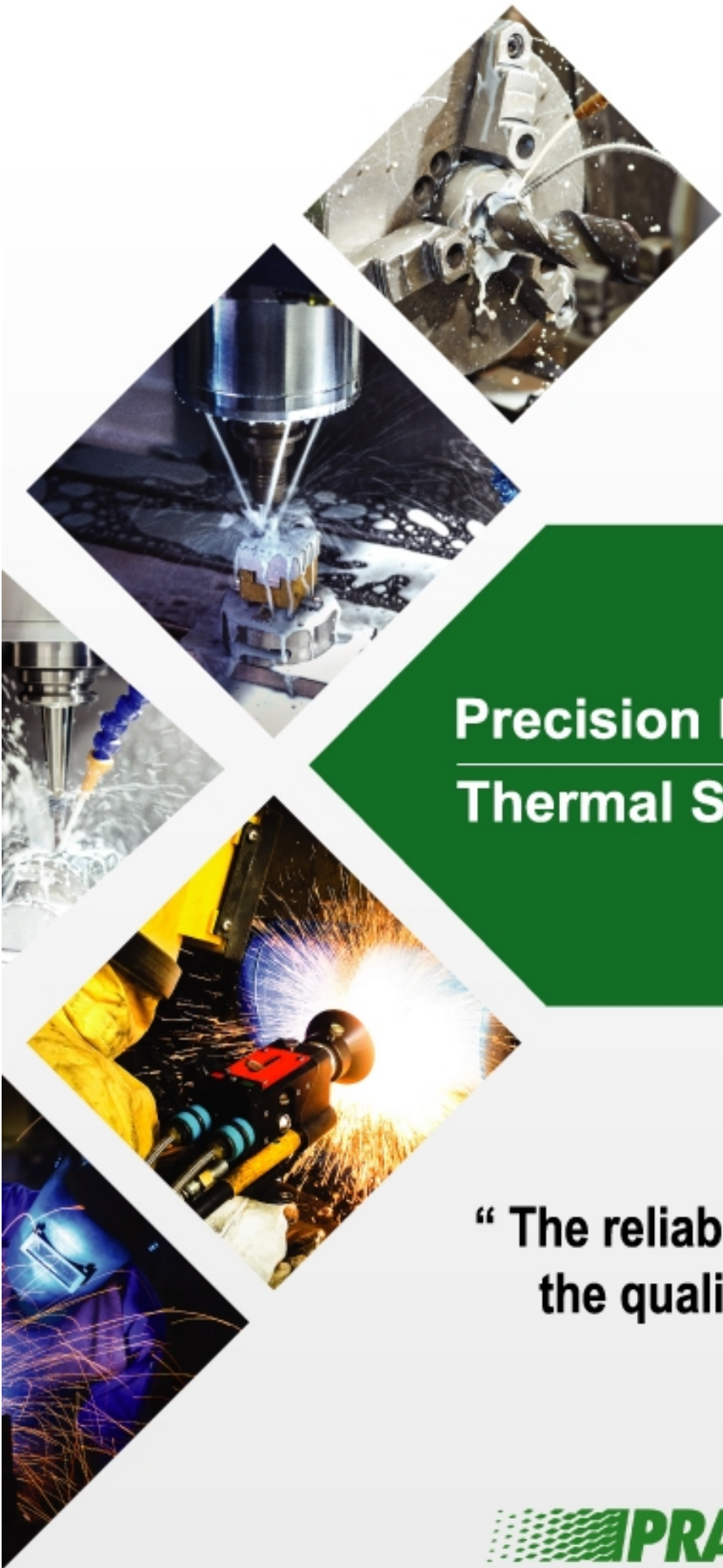




Precision Machine Shop & Thermal Spray Services

**“ The reliability you trust ,
the quality we care.”**





Venture Engineering

is a manufacturing company specialize in providing machine spare parts and modification services to customers. Our services consist of both mechanical engineering and surface development services to serve wide range of engineering industries especially for Energy Industry, Oil & Gas Field, Power Generation, Marine and many more.

Our Machining Centre (M/C) carry out the task of Machinery Design, Machinery Parts, Jig & Fixture, Machine Modification, Tooling & Die. We appreciate to consult and work along with our partners and clients to develop the best working solution for the highest satisfaction and quality for our customers.

We also specialize in Thermal Spray Coating services via variety of coating processes, consisting of Flame Spray, Arc Wire, High Velocity Oxy Fuel (HVOF), and many more coating processes are yet to come. These coating operations are contributed to the surface enhancement approach related to wear, erosion, corrosion, abrasion, thermal, and electrical conductivity for a superior performance, and lifetime extension.

In terms of the Corporate Social Responsibility, VECO cooperate the dual education systems from various government academic institutions which offer students experiences, to gain more skills in real world engineering, and job opportunity to give back to our communities.

No words could express our commitment rather than your satisfaction because

We provide "ON-SHOP" & "ON-SITE Services"

Machine Shop

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VECO aims for the highest satisfactory from our customers by increasing our competencies and capabilities as much as we could. VECO has more than 30 machines and various engineering tools, providing variety of services to our customers including Turning Boring, Grinding, Milling, Drilling & Tapping, Welding & Assembling. We service a number of world-leading companies and government institutions with the equivalent to international quality and standard.



We provide "ON-SHOP" & "ON-SITE Services"

Some of our Machines



AWEA SP 2016

(CNC. Machining Centre)

Bridge Type (Double Column)

Working on 5 faces by angle head

- Handle the size of workpiece up to 2,100x1,600x760 mm. in x,y and z axis accordingly.
- Max Table Load 8,000 kg.
- Precision ± 10 microns.



MAZAK Quick turn Smart 350M

(CNC. Turning Centre)

- Maximum Swing 720 mm.
- maximum Machining diameter 420 mm.
- Maximum Machining length 1,234 mm.
- precision ± 10 microns.



OKUMA GP-44N

(CNC. Cylindrical Grinder)

- Distance between centre 1,500 mm.
- Maximum Diameter of workpiece 400 mm.
- Precision ± 3 microns.



VECO offers full service of Thermal Spray Coating application for machine parts and spare parts repairing for all industries especially for Oil & Gas Field, Electric Generation and all Power Generation industries. We officially received the technology from Praxair TAFE, guarantee supports for a proper coating material which suits for various damages of the repairing parts. All related VECO engineers and technicians has been well-trained from TAFE. We only select high standard quality & world wide accepted product from USA. in every of our workpieces. With these comprehensive in Thermal Spray Coating knowledges and experiences, we are able to give you advices for all Thermal Spray Solution and services according to your needs.

Applications

Chrome replacement, Dimensional rebuilding, Surface engineering modification, Erosion, Abrasion, Cavitations and Corrosion protection, Sacrificial coatings, Surface wetting characteristic modification and Wear resistance coating.



Flame Spray

Flame spray is among the oldest methods of applying thermal spray coating. Its long history has been afforded a great deal of refinement and improvement. And though the guns used today still perform the same basic functions, their operation, and even the materials they spray continues to reflect innovations in thermal spray technology.



Arc Wire

Arc wire brings the operational simplicity and portability of MIG welding technology to the field of thermal spray. The result is a system that capable of applying a quality surface treatment at virtually any location. Additionally, the high feedstock capacity of the arc wire system makes it ideal for coating large areas, such as structural surfaces and large rolls.



ray Coating

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High-Velocity Oxy-Fuel (HVOF)



Coatings applied by HVOF process exhibit density, hardness, and bond strength characteristics that can significantly outperform other methods of coating, giving superior coating density, low as-sprayed profile, and low residual coating stress. These features are the defining characteristics of HVOF thermalspray coatings.

Common Coating Materials



Chrome carbide, tungsten carbide, Stellite 6 and other Cobalt - based alloys nickel/chrome/ boron Cr O ,TiO , and other Ceramics including nanostructure materials. Carbon steel, Stainless steel, Mo alloys, high chrome steel, Babbitt, aluminum, Zinc alloys

Special Coating Materials



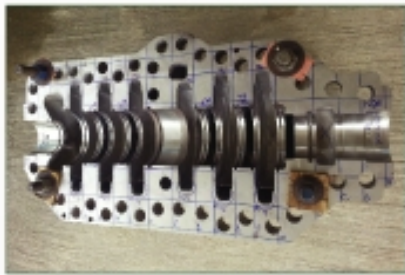
We do design the Special Coating Materials in any Specified work according to customers' needs

Common components coated within this Industry include



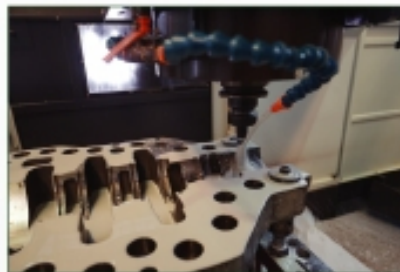
Rotating elements ,Riser, Bearing housings Pump cases, impellers and heads Piston rods, Pistons, Pump shafts Centrifuges, Impellers, Heat exchangers, Seal sleeves, Gear boxes, Boilers Compressor, Shafts, Compressor pistons, Compressor cylinders, Vessels Compressor rotors - steam & gas Hydraulic cylinders, Process vessels Mixing equipment - vessels, agitators & blades

Receiving Inspection



Pre M/C Surface Preparation

- Facing/Boring
- Cylindrical Grinding
- Surface Grinding

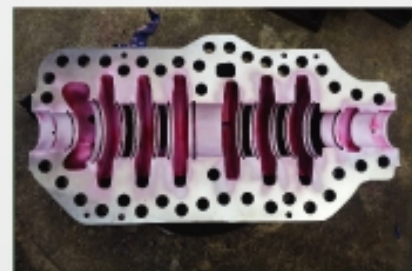


One of our desirable features is the One-Stop Service Operation by our imported machines and equipments under the world-class certified specialists and technicians by PRAXAIR TAFA. VECO performs the works within our own Original Equipment Manufacturer and towards our certified partners over 20 years to give the best out of our customer requirements.

Delivery



QC Final Inspection
Quality check according to customer requirement and drawing.



Accept

VICE OPERATION

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Masking

Tape on the non working part to cover the undesired coating area.



Sand Blasting

- Refurbish the workpieces ((dirts & rust removal))
- Increase the surface roughness for advanced mechanical lock.



Thermal Spray Coating

Analyze the coating process/processes and the materials for the specified workpieces.

Flame Spray

Arc Wire

HVOF



QC

Coating Inspection & Testing

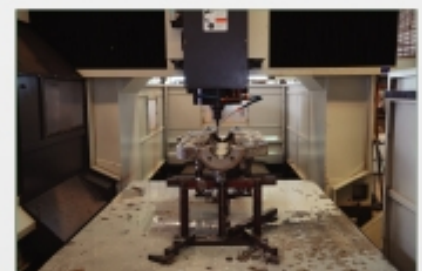
- Coating Thickness
- Surface hardness

Reject

Accept

M/C Final Finishing

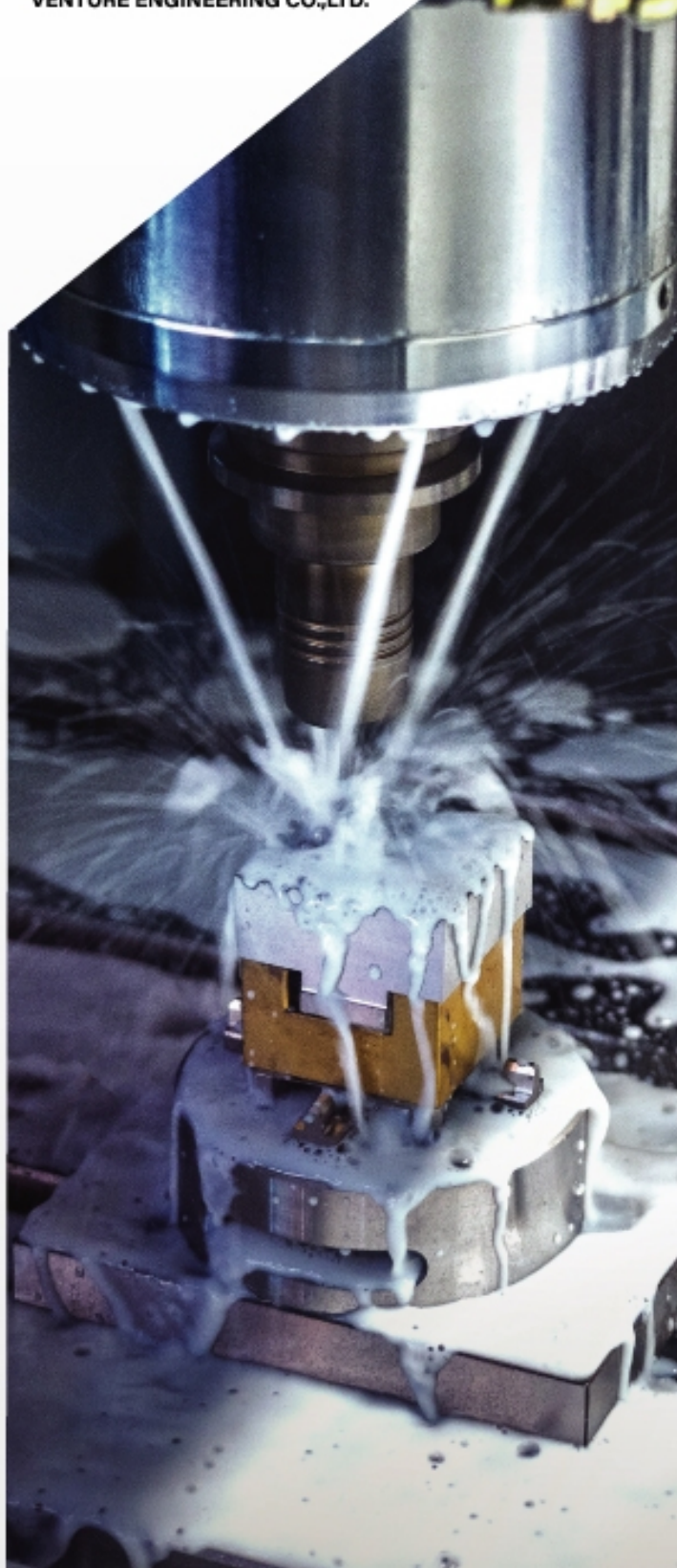
- Cylindrical Grinding
- Surface Grinding



Reject

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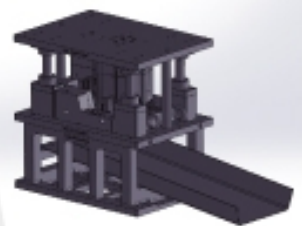
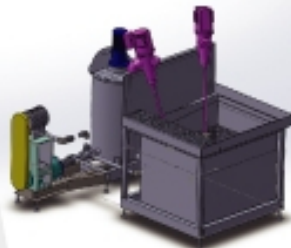
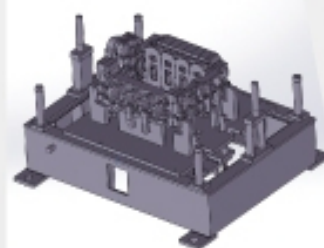
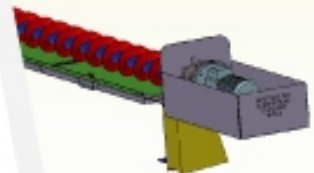
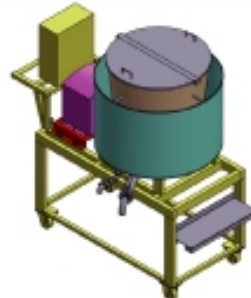
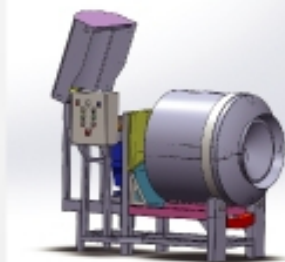
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Portfolio

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Map

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