



Anderson Shumaker Company

Open Die Forging Since 1902



DERSON-SH
OPEN DIE F



Anderson Shumaker Company
Open Die Forging Since 1902

MISSION STATEMENT

The **Anderson Shumaker team** is dedicated to earning your **loyalty** and gaining your **trust** through:

Total Quality Management

Quick and Accurate Response to Inquiries

As-Promised Deliveries

Fair and Competitive Prices

A Strong Commitment to Future Growth

MESSAGE FROM THE PRESIDENT

We make **quality** the profitable choice for open die forgings, rolled rings, and machined parts. Our commitment to excellence is as strong today as it was in 1902, and it shows!

William Klaczynski

President and COO

ABOUT ANDERSON SHUMAKER



Open die forging company, Anderson Shumaker, was started in 1902 by **Carl Anderson**, a forge master from Sweden. Centrally located in Chicago, Illinois, the history of Anderson Shumaker parallels the history of American innovation in the 20th century. Anderson Shumaker has played a vital role in the growth of hundreds of industries across North America.

With almost 70,000 feet under roof, open die forgings are produced with the following equipment: One 2500 ton Hydraulic forging press, Three steam driven hammers (6000, 4000, 3500) , two radial ring rollers (150 ton and 300 ton) with capabilities from 1 to 20,000 pounds in stainless, nickel based, (high temperature), tool steel, carbon, alloy, aluminum and titanium. Anderson Shumaker can produce shapes that include: rings, bars (round, square, flat and hex), discs, blocks and step down shafts or hubs.

In addition to forging, secondary processing include: heat treating, rough machining, saw cutting, hole boring, destructive and nondestructive testing. Finish machining also available.

As an ISO 9001-2008 certified company, excellence is expected. When you place an order with Anderson Shumaker, you will receive a forging that will stand up in service from people that will stand behind their product. Continuing education in all aspects of manufacturing set us apart.

Since 1902, Anderson Shumaker has supplied the following markets with quality forgings. Here are a few of those markets:

Power generation, pumps, valves, service centers, aerospace, defense, fabrication, machine tool, transportation, food product machinery, gears, and general industry machinery.



Anderson Shumaker Company
Open Die Forging Since 1902



1902 - Carl F. Anderson, a forgemaster from Sweden, gathers together a dozen forging experts and with some financial support from A.A. Shumaker starts Anderson Shumaker Company on Chicago's near west side.



1916 - With Anderson Shumaker's reputation for quality growing, Richard F. Anderson supports the war effort with various forged tank and artillery components



1918 - Anderson Shumaker Co., requiring more space, moves to its present location, 824 S. Central Ave. on Chicago's far west side.



1929 - Continuing to solve customers tooling problems while building on their expertise in supplying specialty steel open die forgings, Anderson Shumaker installs a new 6,000 pound hammer.



1935 - On-time delivery continues to be an important part of the Anderson Shumaker promise.



1941 - Anderson Shumaker again responds to the emergencies of war by supplying parts and tooling for the manufacture of ships, tanks, aircraft and armaments.



1956 - Anderson Shumaker builds a new facility over the old, creating additional heat treat capabilities and space for continued growth.



1967 - Installing new boilers, cutting and shipping departments helped Anderson Shumaker meet their customers requirements for quality and delivery



1990 - Anderson Shumaker constructs a 14,400 sq. foot addition increasing its in-house machining and cutting capabilities, while improving inventory control and trace ability.



2011

Anderson Shumaker has completed its 26,000 square foot, 15 million dollar expansion!

Adding two charging furnaces, one heat treating furnace, a 2500 ton hydraulic forging press with an eight station die train, a 300 ton radial ring roller, two quench tanks, three overhead cranes and a 10 ton mobile forging manipulator.

RINGS, DISCS, FORGED BAR

Anderson Shumaker creates open die forgings in a variety of shapes and sizes including rings, discs, bars, blocks and special shapes based on your drawings and specifications. Sizes in all categories will depend on grade of material and dimensional requirements.



Side by side it may be hard to distinguish an individually forged part from one that is welded or cast. But inside where it counts, Anderson Shumaker individually forged rings, discs, and bars are hard to beat. Producing Rings up to 72" in diameter and up to 30" in height, discs up to 72 inches in diameter, blocks up to 48 inches at the cross section, and bars from 1 inch square to 36 inches wide or 1-1/2 inch diameter to over 36 inch diameter. Over a century of service has made Anderson Shumaker the first choice for parts that will hold their shape and hardness and meet their specified use.



RINGS

Up to 72" max OD
10,000 lbs. max.

DISCS

3" DIA up to 72" DIA
15000 lbs. max



Anderson Shumaker Company
Open Die Forging Since 1902

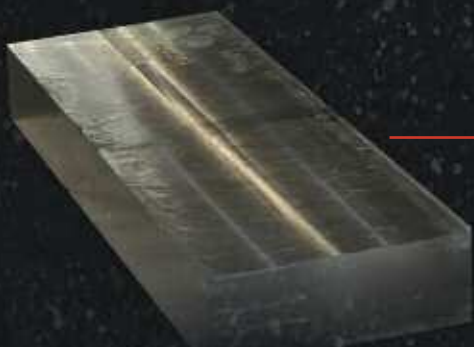


ROUND BARS

1 1/2" DIA up to 36" DIA
240" long 20,000 lbs. max.

BLOCKS

up to 48" cross section
15,000 lbs. max.



FLAT BARS

1" SQ up to 36" WIDE
240" long 20,000 lbs. max

STEP DOWNS & SPECIAL SHAPES

Send us your drawing



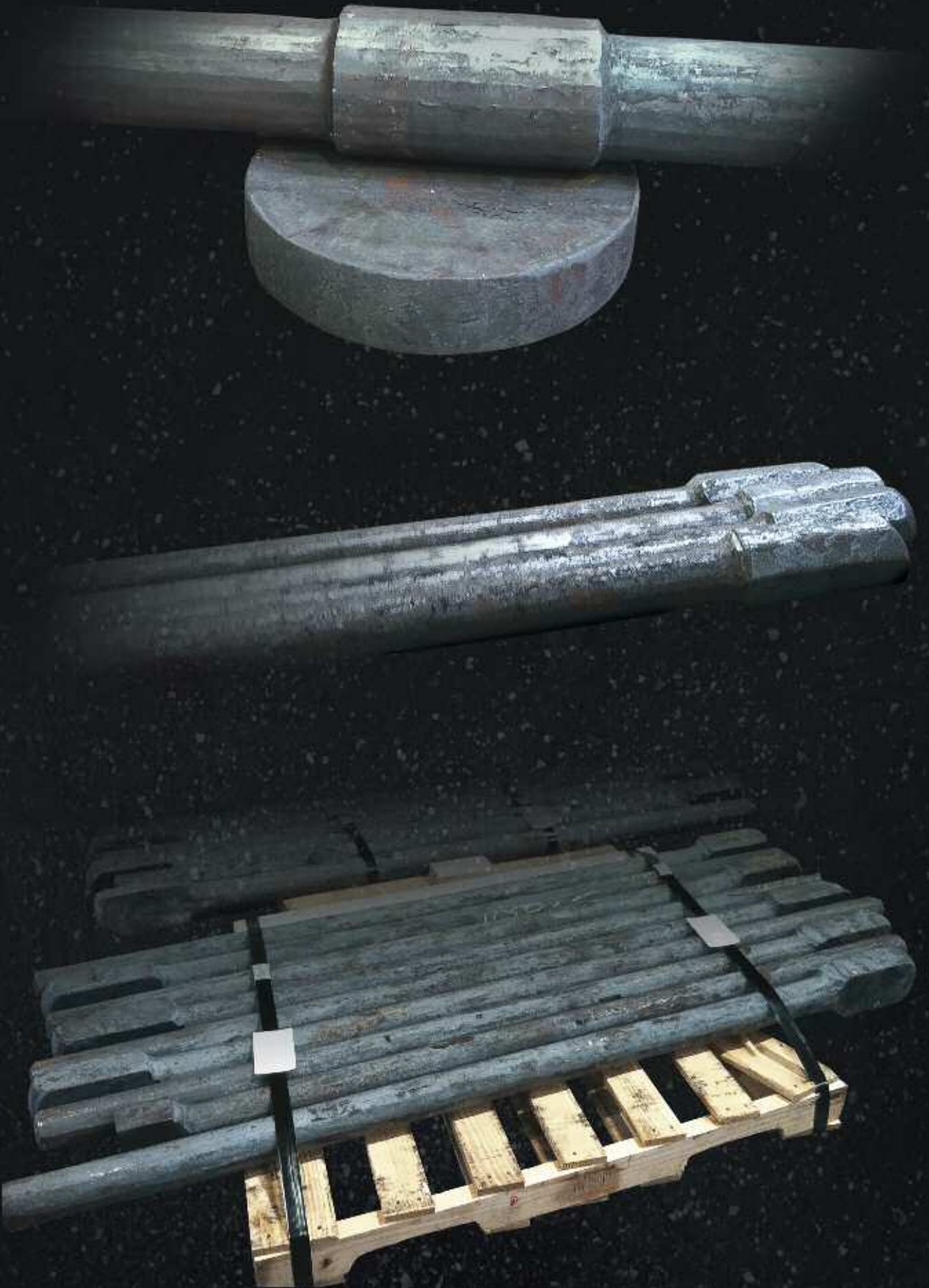
Sizes in all categories will depend on grade of material and dimensional requirements.

CUSTOMIZED FORGED SHAPES

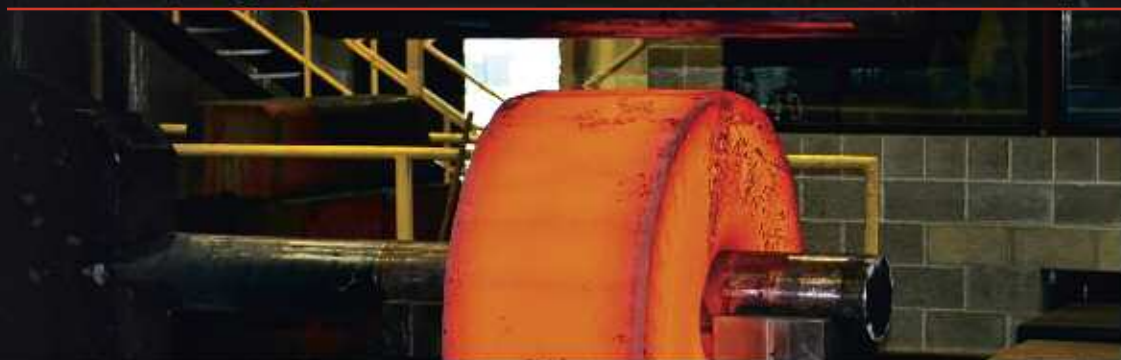
Customized forged parts per your requirement, no tooling charge, flexible delivery and material availability. We can take your requirement to finished part. Proto-type parts are our specialty. Forged parts offer refined grain structures, and offer endless possibilities in configurations. Machining down from solid bar causes loss of excess material, and cost of material turned into chips. Machining in this manner causes the grain flow to be exposed, making the material susceptible to metal fatigue. Forging produces a contoured grain flow within the step down, yielding greater impact and directional strength. Machining time will be greatly reduced freeing up production time and maintaining workflow.



Anderson Shumaker Company
Open Die Forging Since 1902



FORGING



Forging changes the size and shape, but not the volume, of a part. The change is made by force applied to the material so that it stretches beyond the yield point. The yield point is reached when the material will reform into a new shape. Anderson Shumaker has the expertise to form most materials to their required mechanical properties. Shapes include, Rings, Discs, Blocks, Round Bars, Square Bars, Flat Bars and special shapes.

FINISHING



Anderson Shumaker offers finish machining per your requirement. With no tooling charge, flexible delivery and material availability, one purchase order and one vendor makes Anderson Shumaker a wise choice. We can take your CAD drawing or physical drawing to finished part allowing you to make one contact for seamless trace-ability.

DESTRUCTIVE TESTING

Tensile, charpy, stress rupture, micro, macro and full chemical analysis can be performed. Testing can be taken from separately forged coupons, prolongations or sacrificial forgings. This will insure the material is capable of the desired specification requirement based on the specification.



Anderson Shumaker Company
Open Die Forging Since 1902

NON-DESTRUCTIVE TESTING



Ultrasonic testing, bounces a sound wave through the forging looking for a back reflection, which could mean a defect in the material.

Liquid penetrant testing, a dye is sprayed over the forging, penetrating any cracks or defects on the surface. Afterwards, the part is examined under a special light that would illuminate any imperfection.

Any of the non-destructive testing performed on a forging may require machining to achieve desired results.

Magnetic particle testing is a process where magnetic field is sent thorough the material. A Ferrous Iron, in a wet solution, or dry particle is applied to the surface. Any surface and slightly subsurface defect will be detected when the particles are attracted to the area.

HEAT TREATING

Proper thermal processing is essential in the manufacturing of quality parts. Annealing after forging, removes stresses produced during the forging process. With state of the art controls, temperatures are maintained to assure proper metallurgical requirements are met. Quenching, normalizing, tempering, annealing, age hardening can all be performed in house to assure trace ability and improve lead-time.



MACHINING



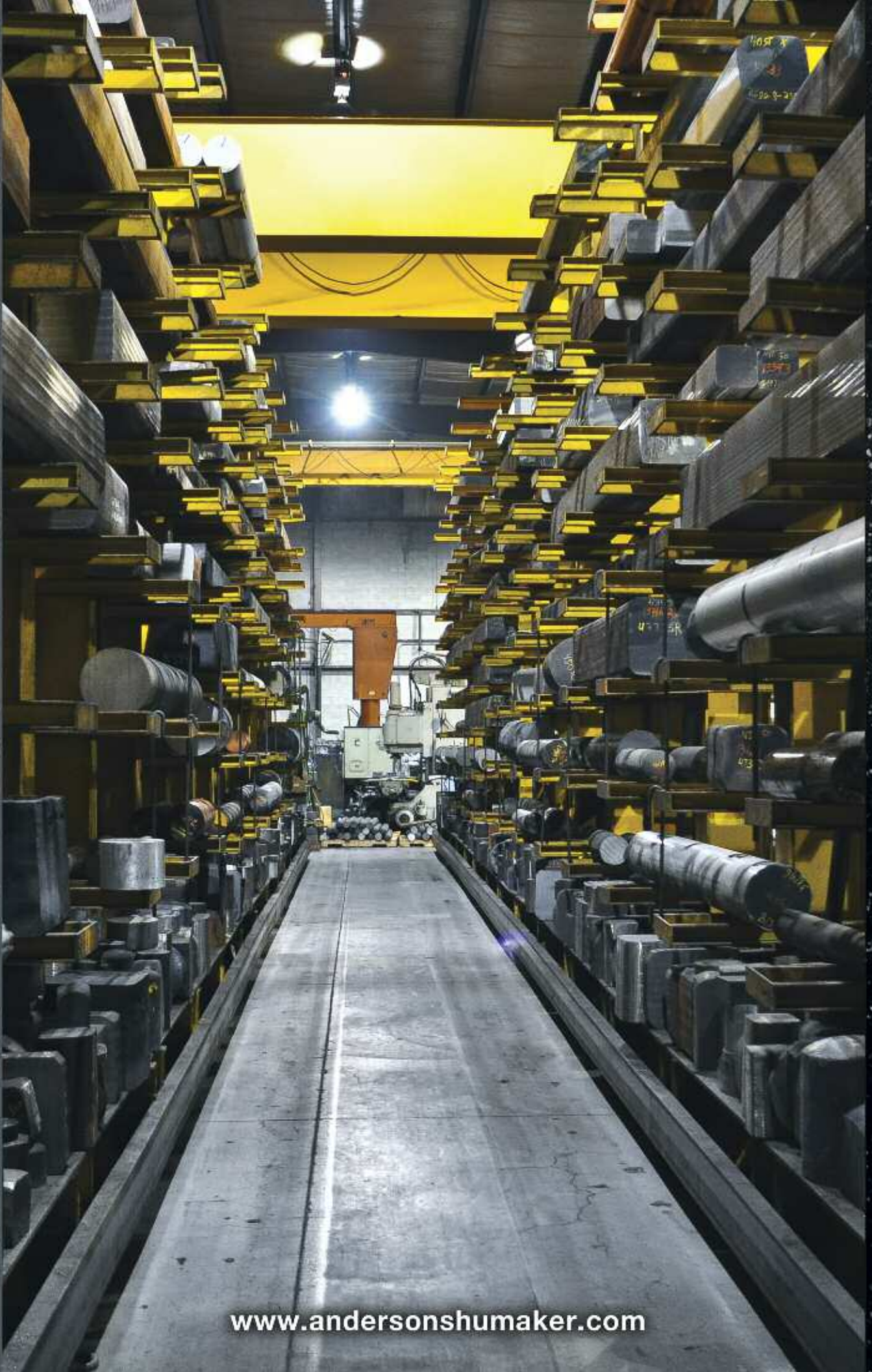
Anderson Shumaker has the capability to rough machine your part to near net shape. Quick turnaround on machining is our specialty. Our Manual Lathes and Milling machines can machine your parts to CNC ready improving your lead time.

FORGED METALS - OPEN DIE FORGING ALLOYS

Anderson Shumaker carries an extensive inventory of ingots and billets from quality mill sources. When procuring raw material, Anderson Shumaker orders Stainless Steel, Aluminum, Carbon and Alloy, Nickel Based and Tool Steel to many specifications insuring a quality product. Check our stock list for a current list of materials available. Please contact for grades that are not on the stock list, we can forge virtually any grade of steel.



Anderson Shumaker Company
Open Die Forging Since 1902



INDUSTRIES WE SERVE

Anderson Shumaker's serves a variety of open die forging industries, with clients as diverse as the forgings we produce.

Aerospace
Defense
Food Product Machinery
Forging
Gears
General Industry
Machine Shop

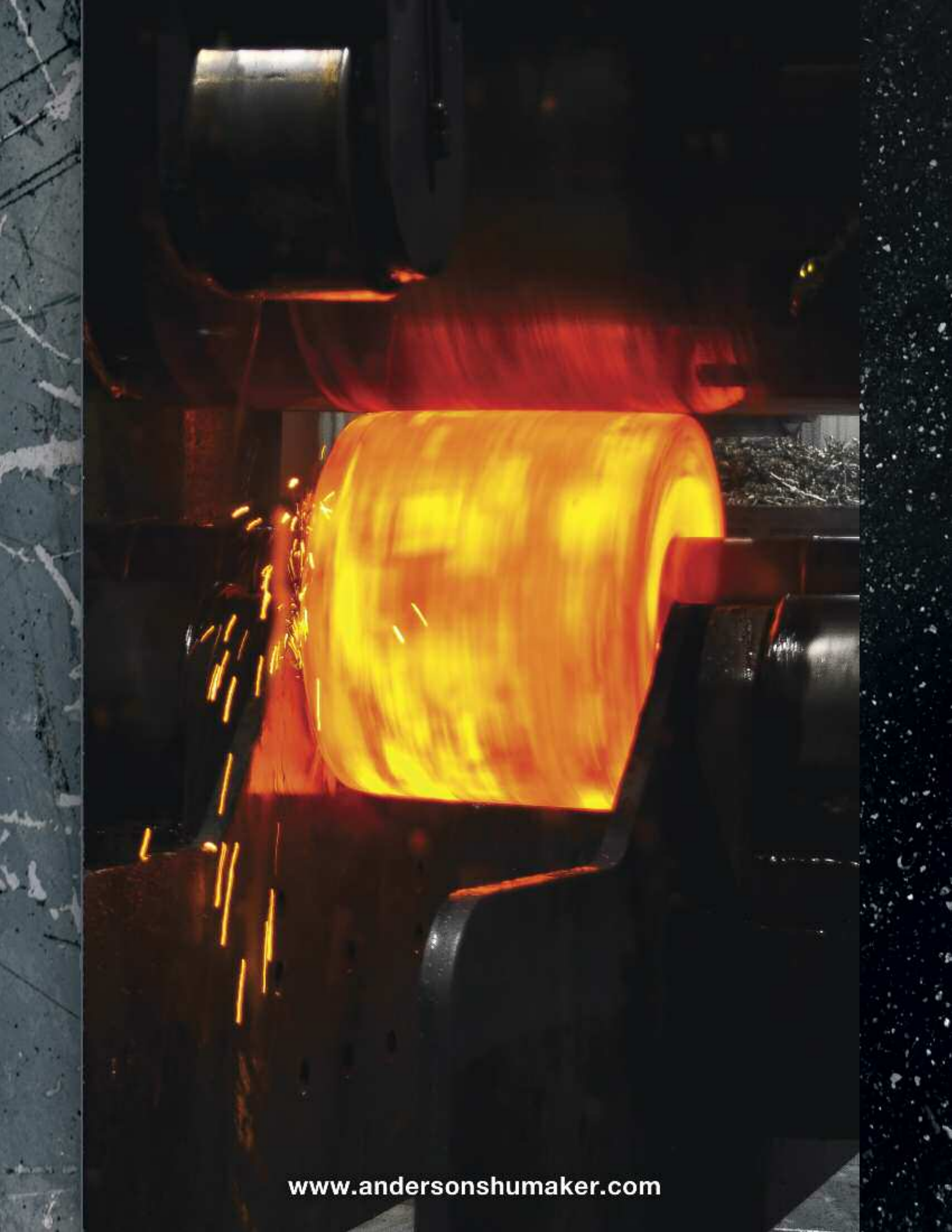
Oil and Gas Field
Power generation
Pumps
Semi-Conductor
Service Centers
Special Machinery
Valves



Our extensive inventory allows Anderson Shumaker the flexibility to produce Bars, Step shafts, Rings, Discs with a short lead time. Value added operations, including: heat treating, machining and testing can also be performed in a timely manner for single source manufacturing for the many industries Anderson Shumaker serves.



Anderson Shumaker Company
Open Die Forging Since 1902



www.andersonshumaker.com



Anderson Shumaker Company
Open Die Forging Since 1902

824 South Central Avenue • Chicago, IL 60644
(800) 932-0357 • www.andersonshumaker.com