



## OVERVIEW

**Patriot Forge Co.** is a Canadian company that specializes in the production of high quality custom open-die and rolled ring forgings.

Patriot is capable of processing a variety of material grades in weight ranges from 5 to 90,000 pounds. Through rigorous material testing and thorough quality programs we are able to ensure the strength, toughness, and structural soundness required for your critical service applications.

## HISTORY

- ▶ 1976 – One facility serving primarily local customers
- ▶ 1984 – Built Brantford, Ontario location
- ▶ 1992 – Built Paris, Ontario location
- ▶ 2016 – Large expansion of the Brantford location
- ▶ Today, Patriot Forge Co. is Canada's largest producer of custom open die forgings and rolled rings. We are a strategic industry partner with over 25 years' experience working with OEMs in North America and abroad.

## FORGING EQUIPMENT

- ▶ 1000T, 1650T & 5000T Hydraulic Forging Presses
- ▶ 5000lb, 6000lb, & 8000lb Pneumatic Forging Hammers.
- ▶ 250T Radial-Axial Ring Mill
- ▶ 16 Forge Furnaces
- ▶ 9 Mobile Forging Manipulators, and 1 Rail-Bound Manipulator
- ▶ 9 Cranes from 20T to 60T
- ▶ 60" Gantry Saw
- ▶ 8 Quench Tanks (Water + Polymer)

## MACHINING EQUIPMENT

- ▶ Over 20 band saws of various sizes
- ▶ 3 Plate saws
- ▶ 15 different mills with CNC and manual capabilities
- ▶ 20 lathes with both CNC and manual capabilities
- ▶ 3 large planer mills
- ▶ 3 deep hole trepanning lathes
- ▶ 1 Radial Drill

# SPECIFICATIONS AND MATERIALS

Patriot Forge Co. has a well-earned reputation for dedication to customers and production of the highest quality forgings. We endeavor to be a globally recognized leader in the supply of components for the most demanding uses. Let us help supply the forgings you need for your critical applications.

QUALITY CERTIFICATIONS / APPROVALS
ISO 9001:2015 / AS9100D
PED 2014/68/EU
ABS CERTIFICATION
CONTROLLED GOODS PROGRAM
NUCLEAR CSA N299.3 and
ASME SECTION III NCA-3300

MATERIALS
300/400 SERIES STAINLESS
CARBON STEEL
ALLOY/LOW ALLOY
DUPLEX/SUPER DUPLEX
ASTM, ASME
ALUMINUM
NITRONICS, HIGH NICKEL etc.

TYPICAL PRODUCTS/ DIMENSIONS
<b>BARS &amp; SHAFTS</b> 60" diameter maximum 480" long maximum 90,000 lbs maximum
<b>SLEEVES</b> 60" O.D maximum 40" I.D maximum 240" max length 50,000 lbs maximum
<b>OPEN DIE RINGS &amp; DISCS</b> 100" O.D maximum 90,000 lbs maximum
<b>DIE TOOLED FORGINGS</b> 90" O.D maximum
<b>SQUARES &amp; RECTANGLES</b> 1800 square inches max cross section 90,000 lbs maximum
<b>ROLLED RINGS</b> 140" O.D maximum 39" face length maximum 20,000 lbs maximum

FOR A FULL LIST OF OUR MATERIALS VISIT OUR WEBSITE [WWW.PATRIOTFORGE.COM](http://WWW.PATRIOTFORGE.COM)

## VALUE ADDED SERVICES

### HEAT TREATMENT

- ▶ Anneal
- ▶ Normalize
- ▶ Quench
- ▶ Temper
- ▶ Stress Relieve

## INDUSTRIES SERVED

- ▶ **DEFENSE:** US direct and through Canadian Controlled Goods Program
- ▶ **POWER GENERATION:** Fossil and nuclear; large scale generation
- ▶ **OIL & GAS:** Components associated with drilling, exploration and compression

### ADDITIONAL SERVICES

Patriot Forge is also able to offer the following additional services:

- ▶ Rough & Finish Machining. Rough machining services for open die forged parts up to 80,000 lbs
- ▶ Destructive & Non-Destructive Testing
- ▶ Thermal Stability Testing

- ▶ **INDUSTRIAL:** Materials in a variety of heavy industries including steel mills, pulp & paper, mining
- ▶ **AEROSPACE:** Materials supplied to vendors for commercial aircraft
- ▶ **INFRASTRUCTURE:** Components used in bridges, locks & dams



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