



QUALITY OPEN DIE & ROLLED RING FORGINGS FOR CRITICAL APPLICATIONS



ACTIVE INVENTORY

LOW ALLOY	AIRCRAFT / MILITARY	CARBON	G.E. / WESTINGHOUSE GRADES
A668	MIL 24093	1018	As an approved manufacturer, Patriot maintains an extensive inventory of over 50 G.E. & Siemens Westinghouse grades. Please contact us for a complete list.
3310/12	MIL 23284	1020	
4130	MIL 23009	1022	
4140	MIL 6758	1030	
4140 VAR	MIL 5626	1035	
4145	MIL 8844	1040	
4150	MIL 860	1045	
4150 RESUL	MIL 890	1055	
4320	MIL 5000	1060	
4330	MIL 18732	1070	
4330 NV	QQ-N-281, 286	1095	
4330 V	QQS 763	1141	
4340	AMS 6512	1146	
4340 VAR	AMS 8699		
8620	AMS 6414		
8627	AMS 6415		
8630 MOD	AMS 5667		
9310	AMS 5659		
52100			ASME GRADES SA 105 SA 266 CL 1-4 SA 350, LF2 SA 182 F1, F5 F6, F6A, F9, F11 F22, F51 F55, F91 F6NM SA 564 GR. 630 SA 638 GR. 660 SA 705 XM16 SA 479 XM11, XM19
EN30B			
17 Cr Ni Mo 6			
A508 CL 2,3,4			
A470 CL 4,7,8,9			
HY80, HY100			
NITRALLOY 135			

TOOL STEELS & SPECIALTY ALLOYS	STAINLESS & HIGH PRESSURE ALLOYS		
D2, A2, H13, S-7, W1, M2	303	347	XM32 (JETHETE) 17-4PH 15-5PH VAR & ESR 13-8-MO-(XM-13) 13-4 AM 455 (CUSTOM 455) A286 (A638 TYPE 660) ALLOY 20 (CARPENTER 20) NITRONIC 50, NITRONIC 60 MONEL 400, K500 INCONEL 600, 625, 625 PLUS, 718, 750, 800 / H, 825
ELECTRICAL IRON	304	347H	
6061F ALUMINUM	304H	403	
2014 ALUMINUM	304L	405	
2025 ALUMINUM	309	410	
300M	310	410 LOW CO.	
C26	316	410 VAR	
6AL-4V TITANIUM	316H	416	
	316L	420	
	316L LOW CO.	422	
	317L	422 ESR	



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Our Facilities

Patriot operates four centrally located ISO certified facilities in the U.S. & Canada. Each facility is highly specialized in order to deliver optimum production efficiencies.

Our head office in Brantford, Ontario Canada is home to all of our customer service and administrative personnel allowing our customers easy access to all of our resources with just one call.



Our Customer Service

Patriot is committed to customer service excellence. Our inside sales team is comprised of well-experienced career professionals with a clear mandate to provide the very best service to our customers. As key contacts they will either provide the answers you need or they will coordinate the appropriate people within Patriot to assist you.

Continuous exposure to education & training programs help to ensure that our people's skills and knowledge remain at the forefront of the forging industry. Many of our inside sales account managers have also developed industry specific expertise in order to further assist our customers to succeed in their respective marketplaces.

Our Quality Assurance

Certified to ISO-9001 & AS9100B, Patriot is equipped to deliver the highest quality components on a consistent and reliable basis.

Patriot is capable of manufacturing components under quality systems CSA Z299.2, CSA Z299.3 & ASME B&PV Code, Section 3, NCA-3800. Patriot's QM system meets the requirements of annex1, par.4.3 of the Pressure Equipment Directive 97/23/EC.

Steel and product integrity are assured through the rigorous application of our quality control procedures. Ultrasonic inspection ensures freedom from internal flaws. Our unique Heat Stability Testing Units are used in the turbine industry to verify that a rotor shaft will not distort during high temperature service.

Our Products

We produce critical forgings for a wide range of demanding end-product applications, including: hubs, covers and rotor shafts for the compressor industry; gas turbine compressor discs; valves for nuclear reactors; flat bars for steam turbine blades and aircraft parts; heat-stability-tested steam turbine rotor shafts; flanges and seamless rolled rings for bearings and aerospace applications.

Patriot also provides forgings to a wide range of commercial customers in the form of: shafts for large Electric Motor manufacturers; die forged journal ends for Pulp and Paper roll shafts; drill rods for Mining exploration; parts for Steel Mill equipment, gear couplings, pumps and other large scale custom components.

In addition to custom forgings, Patriot is also a major producer of barstock for North America's steel service centers. Our complete raw material inventory of all standard service centre grades and sizes ensures quick delivery - as few as 10 days - in emergency situations. In addition, most grades can be certified to Aircraft Quality (AMS 2301) if required.

Our Strength & Capabilities

By utilizing both precision hammer and press technologies, Patriot is capable of producing open die forgings from 5 to 30 000 lbs. In addition, our ring mill can produce seamless rings up to 48" diameter and 1500 lbs.

All of our forging and heat treat processes are designed and overseen by a dedicated team of experienced on-staff metallurgists.

Patriot offers a full spectrum of machining configurations from traditional to CNC finishing.

Our extensive active raw material inventory includes all standard carbon, stainless & alloy grades as well as an impressive variety of industry-specific and proprietary grades.

Bar code scanning of all orders at every stage of production ensures accurate, up-to-the-minute tracking.

For more information regarding all of Patriot's capabilities, please contact inside sales or visit our web site.