



PERRY JOHNSON
REGISTRARS, INC.

ISO 9001 SINCE 1994
AS 9100 SINCE 1998

All Metals & Forge Group

OPEN DIE FORGINGS & SEAMLESS ROLLED RINGS

Supplying Global Markets

YOUR ISO9001:2015/AS9100D SINGLE SOURCE FOR CUSTOM OPEN DIE FORGING & SEAMLESS ROLLED RINGS



U.S. 1 (973) 276-5000 • Toll Free 1 (800) 600-9290 • Canada 1 (416) 363-2244

www.steelforge.com



Our Commitment and Pledge

Global Business in these times demands excellence in client servicing. We are committed to creating and building "partnership" type relationships to better serve our customers. Towards this goal we pledge only the best possible service, quality, products and fair competitive pricing. Our commitment and pledge will help you meet your challenges of tomorrow.

Open Die Forgings & Seamless Rolled Rings

Rounds • Blocks • Cylinders • Rings to 200 in. (5080 mm) • Shafts • Hubs
Flanges • High-Temp Alloys • Corrosion Resistant Alloys • Nickel Alloys
Cobalt Alloys • Stainless Steel • Duplex Stainless • Ph Grades
Titanium • Aluminium • Alloy Steel • Copper • Tool Steel • Carbon Steel
Max Weight 80,000 lbs. (36,000 kgs.)



All Metals & Forge Group

OPEN DIE FORGINGS & SEAMLESS ROLLED RINGS

75 Lane Road, Fairfield, NJ 07004

Direct 1 (973) 276-5000 • Fax 1 (973) 276-5050 • Toll Free 1 (800) 600-9290 • www.steelforge.com

ABOUT US

Welcome to All Metals & Forge Group. Our Business Development Program emphasizes partnerships with our clients, doing away with the usual adversarial nature of the buyer/seller relationship of the 20th century. We look to create the 21st century paradigm of win-win relationships, where everyone wins! Additionally, our sales group has been renamed the “AMFG Solutions Team®.” Aside from supplying raw material to meet your production needs we can be of great service in providing AMFG Solutions® to many of your other corporate material issues, material choices, inventory management, material financial issues, and custom designed alloys for special applications.



Working as partners to SOLVE YOUR STEEL PROBLEMS AND CREATE SOLUTIONS.

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ALL METALS & FORGE GROUP

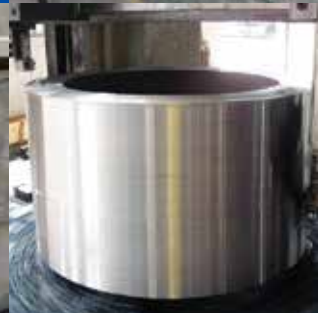
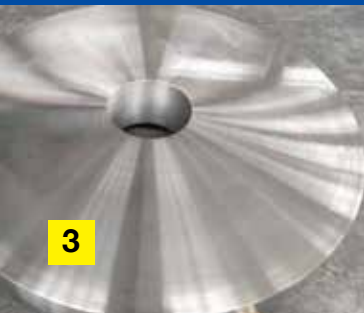
Founded in 1972, All Metals & Forge Group is an ISO9001:2015 and AS9100D, PED Approval (acc. to Directive 97/23/EC), manufacturer of open die forgings and seamless rolled rings, certifications it obtained and has held since 1994. AMFG was one of the first companies in its industry to obtain an ISO certificate of registration since the company's founding in 1972. AMFG maintains one of the most stringent quality processes and standards in the industry to ensure that our customers receive the finest forged material with the tightest tolerances in exactly the condition that best suits their finish machining needs.

All Metals & Forge Group can help you win jobs by responding to a rush quote in less than a day (no kidding), and even complex requests for price and delivery quotation are responded to within 48 hours. When your order is placed with AMFG, our goal is to deliver it on time in a shape and condition that minimizes machining time, lowers cost, and reduces material waste.*



Fairfield, New Jersey
U.S. Headquarters

All Metals & Forge Group can produce and store your frequently used forged parts for Just-in-Time delivery. You are invoiced as forgings are shipped. Ask about our long-term agreement for your supply chain solution.



INDUSTRIES SERVED

Open die forged shapes produced by All Metals & Forge Group are used in a wide variety of industries including oil and gas exploration, gear manufacturing, aircraft and aerospace, energy and power generation, defense, automotive, heavy industrial, manufacturing, general metalworking, petroleum and chemical, mining, engine and turbine, shipbuilding, construction, fabricated metal, pulp and paper, and food processing. We even produce forgings for other forge shops, both domestically and internationally.

GEAR INDUSTRY – open die forgings and seamless rolled rings for gear blanks, step shafts, flanged shafts, single and double hubs, sleeves, cylinders, trunnions and other shapes for engines, machinery, and turbines.



AEROSPACE AND AIRCRAFT INDUSTRY – forgings and seamless rolled rings to AMS specifications in nickel and cobalt alloys, stainless, carbon, alloy and tool steel, aluminum, titanium, and copper.



DEFENSE INDUSTRY – stocked billet includes DFARS-compliant materials for defense industry use by major OEM's including Lockheed Martin, Boeing, GE, United Technology, and their sub-tier suppliers throughout the United States and Canada.



OIL & GAS AND FRACKING INDUSTRIES – forgings for deep water, offshore and land-based oil and gas exploration or production in alloy steel 4130, 4140, 4330V, 4340, 8620, nickel I600, I625, I718, I825 stainless steel including PH grades, and other harsh environment or high-stress materials.



POWER AND ENERGY INDUSTRIES – forged shapes and seamless rolled rings for turbines and other power generation machinery or hydraulic applications, including gears, shafts, hubs, and flanges.



WIND AND TIDAL ENERGY INDUSTRIES – custom forged shapes, seamless rolled rings, drive shafts, step shafts, flanges, and flanged shafts for turbine parts, structural components, and new designs for land and sea energy power generation.



MINING AND TUNNEL BORING INDUSTRIES – specially hardened forgings for extreme environments and underground conditions for mineral extraction and boring through earth and rock.



MACHINERY BUILDERS – a wide variety of forged shapes are available for the production of light and heavy machinery, including blocks, hubs, step shafts, forged rounds, cylinders, and other forms.



MACHINE SHOPS & METALWORKING SHOPS – open die forgings and seamless rolled rings in a variety of metals that can be heat-treated after forging to improve machinability or durability.



SHIPBUILDING INDUSTRIES – long shafts, step shafts, forgings for propeller components, and other forged shapes for the construction of cruise liners, super tankers, LNG carriers, drill ships, and large container ships.



PAPER AND PULP INDUSTRIES – forgings for rollers, drive shafts, gears, and other components in carbon and alloy steels widely used in these manufacturing plants to produce pulp, paper, board, and other cellulose-based products.



TRANSPORTATION INDUSTRIES – forgings and gear blanks for bridges, tunnels, waterways, trucking, off-road heavy equipment, rail, ships, aircraft and military transport vehicles, and weapons.



FOOD PROCESSING INDUSTRIES – high quality sanitary stainless steel forgings for mixers, loaders, conveyors, blenders, and other food processing equipment or plant facilities.



VALVE AND PUMP INDUSTRIES – forgings for check valves, pipe unions, flanges, reducers, and other liquid or natural gas pipelines or equipment in alloy steel, carbon steel, stainless steel, titanium, nickel, cobalt, and super alloys.



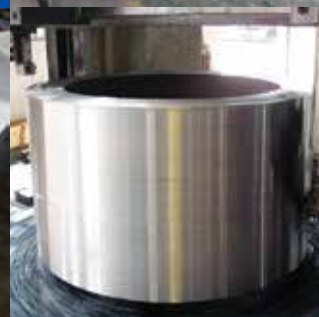
STEEL SERVICE CENTERS, STEEL WAREHOUSES, AND FORGE SHOPS – forgings for your customers produced by a ISO9001:2015 and AS9100D manufacturer of open die forgings and seamless rolled rings that allows you to serve their needs and capture an add-on revenue stream with special pricing and confidentiality.



ENGINE & TURBINE INDUSTRIES – quality forgings for high demand, high-stress components in aircraft engines and power generation turbines including nickel, cobalt and super alloys, stainless pH grades, duplex stainless steels, and titanium.



PETROLEUM & CHEMICALS – forgings for pipelines, oil refineries, oil and natural gas exploration, caustic and harsh environmental conditions, drilling, pumping, or storing petroleum or chemicals.



MATERIALS

All Metals & Forge Group works with alloy steel, carbon steel, stainless steel, titanium, aluminum, tool steel, nickel alloys, and copper alloys, to produce forgings to ASTM, AMS, AISI, Boeing, GE, DIN or other industry-recognized specifications. The customer declares their desired specification in their initial request for quotation so that price and delivery includes the proper chemical, physical, and testing requirements. All Metals & Forge Group's Forging Capabilities includes seamless rolled rings up to 200"/5080mm OD and forged product weights up to 80,000 pounds/36,287 kgs depending upon the material selected.





METAL FAMILIES

Alloy Steel

Aluminum

Carbon Steel

Stainless Steel

Nickel Alloys

Cobalt Alloys

Titanium

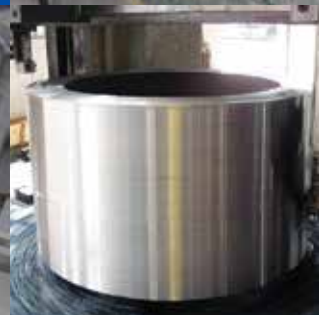
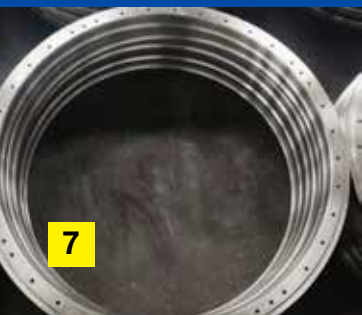
Tool Steel

Custom Melt Chemistries

Specialty Steels

Trade Named Metals

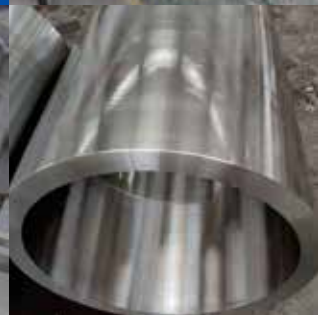
See inside back cover for complete list



FORGED SHAPES

All Metals & Forge Group forges small to large round, flat, or hex bars, forged shafts, forged step shafts, seamless rolled rings, contoured rings, conical shaped forgings, forged discs, forged blocks, forged plates, forged cylinders, blind-end cylinders, forged and bored heavy wall hollow bar, and forged flanges produced to industry standard specifications issued by ASTM, SAE, AMS, AISI, ASME, and PED, as well as many DIN, GB, JS, and customer specifications.







AMFG HEADQUARTERS

All Metals & Forge Group

AN OPEN DIE & SEAMLESS ROLLED RING FORGER

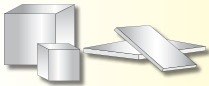

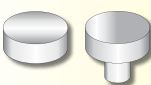

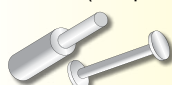


PERRY JOHNSON REGISTRARS, INC.

ISO 9001 SINCE 1994
AS 9100 SINCE 1998

FORGING CAPABILITIES CHART

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SHAPE	SIZE/ WEIGHT	FERROUS ALLOYS		NICKEL, SPECIAL ALLOYS	NON-FERROUS ALLOYS		
		Carbon, Alloy & Tool	Stainless		Aluminum	Titanium	
 FLAT BAR BLOCKS	MAX. WIDTH	120"	120"	27"	60"	65"	
	MAX. WEIGHT	80,000#	80,000#	20,000#	15,000#	15,000#	
 CYLINDERS/SLEEVES	MAX. O.D.	120"	120"	50"	72"	52"	
	MAX. LENGTH	160"	160"	65"	96"	65"	
 DISCS/HUBS	MAX. DIA.	160"	160"	50"	80"	65"	
	MAX. WEIGHT	80,000#	80,000#	20,000#	15,000#	10,000#	
 RINGS, ROLLED OR HAND FORGED	MAX. O.D.	200"	200"	120"	90"	90"	
	MAX. LENGTH	65"	65"	40"	65"	65"	
 ROUNDS/SHAFTS (with steps or flanges)	MAX. LENGTH	420"	420"	180"	264"	180"	
	MAX. WEIGHT	80,000#	80,000#	20,000#	10,000#	10,000#	
ALLOY	*4335 *2315 *2340 2515 3140 3145 3150 3310 3312 3315 4015 4017 4020 4023 4037 4085 *4110 *4112 *4115 *4120 4125 *4127 4130 4135 4140 4142 4145 4150 *4155 *4160 *4215 4320 4330	9315 9317 9430 9840 9850 CARBON 1006 1008 1010 1015 1018 1020 1022 1023 1025 1026 1029 1030 1035 1040 1045 1050 1055 1060 1070 TOOL A2 A6 A10 D2 D3 D5	D6 H11 H12 H13 H21 H26 *H43 M2 P20 S1 S5 S7 T1 W1 W2 SPECIAL GRADES D6AC HY80 *HY100 *F-5(CR-1/2MO) *F-11(1 1/4 CR-1/2 MO) *F-22(2 1/4 CR-1 MO) *F-91 *17-22 A *17-22 AS *17-22 AV Nitalloy 135N 52100 LF1, LF2, LF3	Stainless Steel 300 Series 420 302 422 303 429 304L 430F 309 431 310 440A,C 314 442 316L 446 317L 500 Series 321 501 322 502 329 Stainless 330 Steel PH 333 Grades 347 13-8MO 348 15-5PH 400 Series 15-7MO 403 405 17-7PH 409 410 414 416 418 Ascoloy	Nickel, Special Alloys A-286 • AM-355 Custom 450, 455 Ferralium 255 Hastelloy B2 Hastelloy C276, C, N, S, W, X Haynes 188, 230, 25 Incoloy 800, 825, 832, 890, 901, 925 Inconel 600, 601, 617, 625, 690, 702, 706, 713, 718, 722, 725, 738, 750, 751 800, 825, *902, 903 Invar 36, 42 Jethete M151, M152 Kovar, Rodar, L605 Nickel, Special Alloys Maraging 250, 300, 350 Monel 400, 500 (K) Nickel 200, 201 Nitronic 40, 50, 60 N155 Multimet Nimonic 75, 80, 90 Rene 41 - 125 Udimet 500, 700 *Vascojet 1000 Waspalloy Zirconium 32 20 CB	Aluminum Alloys 1100 2014 2024 2219 5083 5086 6061 6063 7049 7050 7075 7079 7175 7475	Titanium Alloys Commercially Pure 4AL-3MO-1V *4AL-4MN 5AL-2.5SN 6AL-2SN -4ZR-2MO 6AL-2SN -4ZR-6MO 6AL-4V 6A1-6V-2SN *7AL-4MO 8AL-1MO-1V 13.5V -11CR-3AL Ti17 *CP Grade 1 CP Grade 2 *CP Grade 3 CP Grade 4 * CP Grade 7 * CP Grade 11 CP Grade 12

GRADES OF BILLET MATERIAL INSTOCKSM OR AVAILABLE FROM MILL DEPOT
(If your required grade is not shown, call for assistance: 973-276-5000)

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