



站更高，看更远，做得更好！
Stand Higher And See Farther Do Better
携手共进，同创未来
Work Together To Create A Brilliant Future



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中航卓越锻造(无锡)有限公司
AVIC EXCELLENCE FORGING(WUXI) CO.,LTD.

企业简介 Company Profile

中航卓越锻造（无锡）有限公司为中国航空工业集团下属企业的控股子公司，是中国特大型环锻件的制造商之一。公司主要生产法兰、管板、齿圈、轴承圈等机械锻件。公司生产的环形锻件主要应用于风电设备、水电设备、核电设备、石油化工设备、矿山工程机械、回转支承、大型机械装备等领域。

公司地址素有“锻造之乡”美誉的吴越之地，环境优美的大湖之滨——无锡市惠山区玉祁镇，位于长三角中心地带，毗邻京杭大运河，312国道，紧靠沪宁高速玉祁道口，又有沪宁城际、京沪高铁贯穿其中，交通运输十分便利。

公司拥有4,000吨、5,000吨锻造液压机， $\phi 5,000$ 、 $\phi 9,000$ mm的径轴轧环机、操作机、装卸料机、大型数控立车、大型数控龙门钻床、热处理成套设备等80多台（套）设备。同时配有德国SPECTRO直读光谱仪、超声波探伤仪、万能拉伸试验机、低温冲击试验机、硬度计、金相分析仪及其他理化检验分析设备。公司具备生产外径 $\phi 700$ mm~ $\phi 9,000$ mm，最大高度1,500 mm、最大单重30吨的各种合金环锻件的能力。年产能60,000吨。

公司技术力量雄厚，拥有一支具有丰富锻造实践经验的技术骨干队伍，先后获得中国CCS、美国ABS、英国LR、法国BV、德国GL、挪威DNV、意大利RINA等世界知名船级社认证，同时建立了严格而科学的管理制度，为高品质产品的生产提供有力保证。

公司秉承集团公司“航空报国，强军富民”的宗旨，坚持“追求卓越、锻造辉煌”的精神，始终致力于“打造卓越品牌，为客户持续创造价值，将公司发展成为中国乃至世界中、大型特种环锻件重要供应商”，坚持以优质的产品、周到的服务，赢得市场的信赖，与客户实现双赢。

公司愿与海内外各界朋友真诚合作，建立持久、相互信赖的合作关系，共创新辉煌！

AVIC EXCELLENCE FORGING (WUXI) CO., LTD is the holding subsidiary of AVIC. It is one of the largest manufacturers of large ring forgings in China. The factory mainly produces flanges, plates, ring gears, bearing rings and other mechanical forged parts. The ring forgings produced are mainly applied to wind power equipment, hydroelectric equipment, nuclear power equipment, petrochemical equipment, mining engineering machinery, slewing bearing, large machinery equipment and so on.

The factory is located in Yuqi Town, Huisi District, Wuxi, which is known as 'the forging land' in ancient times. The factory is near the shore of Tai Lake, at the heartland of the Yangtze River Delta, adjacent to the Grand Canal and 312 National Highway. An Access Road of Huning Expressway is over Yuqi, Huning Inter-city Rail and Jinghu High-speed Rail are also nearby. The factory enjoys convenient transportation.

The factory is equipped with a 4,000 Ton and a 5,000 Ton hydraulic presses, $\phi 5,000$ mm and $\phi 9,000$ mm the radial-axial ring rolling mills, manipulators, loading machines, large CNC vertical lathes, large CNC drilling machine, and complete equipment of heat treatment, etc. It is also equipped with Germany SPECTRO direct reading spectrometers, ultrasonic flaw detector, universal tensile testing machine, low-temperature impact tester, hardness tester, metallographic analyzer and other mechanical, chemical analyze appliances. The factory produces all kinds of alloy ring forgings, with the outer diameter ranging from $\phi 700$ mm to $\phi 9,000$ mm, with the maximum height of 1,500 mm and the maximum weight up to 30 Tons. The annual capacity of the factory is 60,000 tons.

The factory has a technology backbone team with rich experience of forging practice. Based on its strength of technology, the factory obtained the world-famous classification society certificates, including CCS, ABS, LR, BV, GL, DNV, RINA, etc. Meanwhile, the company established a strict and scientific management system, which guarantees manufacturing products of high quality.

The factory adheres to the Group Company's tenet of 'serving the country based on the aviation, enhancing the military power and enriching the common people', insists on the spirit of "pursuing excellence and forging glorious" and always commits to "building the brand EXCELLENCE, creating the value for the customers, and developing into an important supplier of the medium and large special ring forgings in and out of China". The factory wins the market by providing high-quality products and considerate service, achieving the win-win situation with customers.

The factory is willing to develop sincere cooperation with all friends at home and abroad and establish a lasting and mutual-trust relationship, so as to create new glorious achievements together!

1. 原材料(material)
钢坯
billet

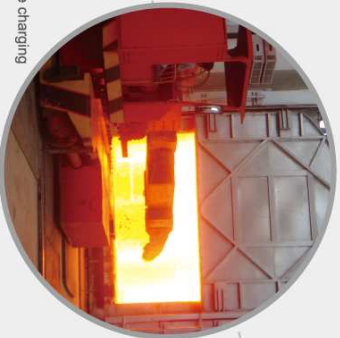


2. 切料(cutting)



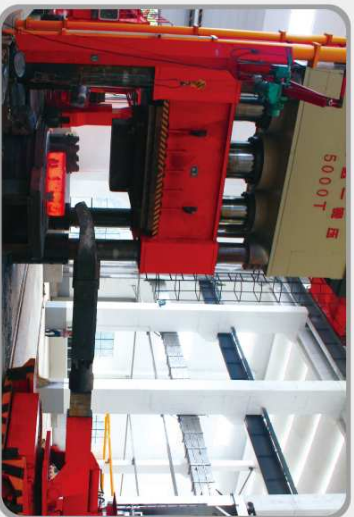
3. 加热(heating)

天然气加热炉，
单台装炉量60吨
gas heating furnace,
60 tons for single
furnace charging



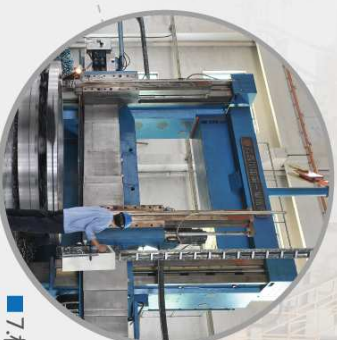
4. 制坯(forging)

4000T、5000T油压机
hydraulic presses of 4000T、5000T



生产
Production
流程
Process

8. 成品(finish products)
成品
finish products



7. 机加工(machining)
车加工、钻孔
rough machining、hole drilling

6. 热处理(heat treatment)
正火、调质、固溶
normalize、quench、solution treatment



5. 辊环(ring rolling)

Φ5000mm、Φ9000mm轧环机
radial-axial ring rolling mills of Φ5000mm、Φ9000mm



检测能力 Detection Capability

■ 光谱分析
Spectrum analysis

■ 硬度检测
Hardness testing

■ 无损检测
Nondestructive testing

■ 拉伸性能检测
Tensile properties testing

■ 冲击性能检测
Impact testing

■ 金相组织检测
Metallographic examination



■ 管板
Plates

■ 压力容器法兰
Pressure vessel flange

■ 内齿圈
Annular gear

■ 外齿圈
Gear ring

■ 航空回转件
Aviation slewing ring forgings

■ 航空结构件
Aviation structure forgings

石化化工
Petrochemical equipment

特种行业
Special industrial

产品应用
Product Application

大型机械设备
large machinery
equipment

工程机械
Engineering machinery

风电
Wind power

海洋工程
Oceanengineering

■ 回转支承锻件
Slewing ring forgings

■ 结构件锻件
Structure forgings

■ 轮胎模具锻件
Mold forgings

■ 轮毂锻件
Hub forgings

■ 风电法兰
Wind power flange

■ 风电轴承锻件
Wind power bearing forgings

企业资质 Company Qualification



质量方针 Quality Policy

以管理保质量，以质量保生存，
以客户需求为根本，以产品创新发展。
To manage the quality, To the quality of survival,
Take the customer demand as the fundamental,
To product innovation and development.



年生产能力	Annual Production Ability
年生产能力：60,000吨	Annual Production Ability:60,000tons
锻造能力	Forging Ability
最大单重：30吨	Unit Max Weight:30tons
最大高度：1500mm	Max.height:1500mm
最大直径：Φ9000mm	Max. Φ:9000mm
热处理能力	Heat Treatment
正火	Normalize
调质	Quench+Temper
固溶	Solution treatment
机械加工能力	Machining Ability
大型立车	Large vertical lathes
大型数控立车	Large CNC vertical lathes
大型龙门数控钻床	Large CNC drilling machine
齿坯加工：最大外径5米，模数36	Gear cutting: max. Φ5,000mm, modulus 36

我们可以为客户定制加工多种材料的产品，常见材料如下：
WE CAN PROVIDE customized service to customers with all kinds of materials.
These are the materials can be processed by us:

材料类型 (Material Type)	典型牌号 (Typical Material Trademark)
碳钢 合金钢 (Carbon Steel, Alloy Steel)	16Mn, 45#, 42CrMo, 40CrNiMoA...
有色金属 (Nonferrous Metals)	LD7, LD10, LC9, LY11, LF2, 钛合金(Titanium alloy), TA1, TA2, TB1, TC1, TC4, TC6...
不锈钢 (Stainless Steels)	1Cr12, 1Cr13, 1Cr18Ni9Ti, 0Cr18Ni11Ti, 0Cr25Ni20, 00Cr18Ni10, 0Cr15Ni9, 00Cr17Ni17Mo2, 0Cr17Ni12Mo2...
轴承钢 (Bearing Steels)	GCr15SiMn, GCr15SiMo, GCr18Mo
高温合金钢 (High-Temperature Steels)	GH3036, GH3030, GH3044, GH2132, GH4146, GH536, GH761



追求卓越

The pursuit of excellence

锻造辉煌

Forging brilliant

努力打造卓越品牌，为客户持续创造价值，成为中国乃至全世界中、大型特种环锻件的主要供应商。
Building the brand EXCELLENCE, creating the value for the customers, and developing into an important supplier of the medium and large special ring forgings in and out of China