



重庆大东气门

— CHONGQING DA DONG VALVE —

重庆大东隆腾汽车摩托车  
气门制造有限公司

CHONGQING DADONG LONGTENG AUTOMOBILE & MOTORCYCLE  
AIRVALVE MANUFACTURING CO., LTD

**重庆大东隆腾汽车摩托车气门制造有限公司，发动机气门专业制造商！**

*Concentration made profession, strength made brand. Chongqing Dadong Longteng Automobile & Motorcycle Airvalve Manufacturing Co., Ltd. the professional and specific engine valve manufacturer!*

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**专注造就专业  
实力成就品牌**

CONCENTRATION CREATES PROFESSION, STRENGTH CREATES BRAND

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各位同仁：  
你们好！

气门是发动机心脏的功能配件，生产优质、可靠、具有世界一流水准的产品是大东气门的宗旨和行动准则，打造具有国际品质的发动机，您需要这样的品质。为确保发动机零部件之间的配合，我们公司还专门为气门配套生产了锁夹、承盘，为用户提供更完美的配套及品质服务。

面向世界，做一流品质的世界气门加工厂是大东公司的目标，让我们一起携手共进，共创更美好的明天！

Dear customers,

Valves are the key components of engine. Dadong follow the purposes and activating principles for providing excellent, reliable, world first class products in the world. Our products can help you to make the engine of high quality in the world. In order to ensure the adaptability of each component, our company also provides valve spring retainers and valve split collets for better support and service.

Face to world, becoming world-wide first class quality valve factory is the target of Dadong. Let's joint together and go ahead to create a better future!

总经理  
General Manager

Zhao Maoxing



**CONCENTRATED  
ON AIRVALVE  
MANUFACTURING  
FOR 80 YEARS**

专注气门生产八十年

CONCENTRATED ON AIRVALVE  
MANUFACTURING FOR 80 YEARS

## 重庆大东，专业的气门生产世家

重庆大东隆腾汽车摩托车气门制造有限公司成立于1993年，25年的发展历程已成为重庆最大的汽车、摩托车发动机心脏关键部件——气门的专业制造生产厂家。公司创始人赵毛兴先生，出身于气门生产世家，历经三代，有八十多年的专业生产历史，对气门加工使用技术拥有独到的知识和经验。已获得多项专利，其中两项气门制造发明专利，多项专利正在申报中。

大东隆腾汽车摩托车气门制造有限公司以生产汽车气门、摩托车气门、通用机气门为主，产品覆盖摩托车、汽车、飞机活塞式引擎全系列。为了确保发动机品质，满足客户需求，工厂还配套生产气门锁夹、承盘。年产气门5000余万只。产品服务于全球，成为铃木、比亚乔等世界著名企业定点供应商，被宗申、隆鑫、力帆、大长江、嘉陵、大运等企业授予优秀供应商称号！

Founded in 1993, with 25 years history, Chongqing Dadong Longteng Automobile & Motorcycle Airvalve Manufacturing Co., Ltd has become the largest specific manufacturer for air valve, the critical part of automobile & motorcycle engine. The company founder, Mr. Zhao Mao Xing, from a family engaged in air valve manufacturing for 3 generations, with over 80 years history of specific production, has the unique knowledge and experiences for the technology of air valve processing and use, acquired a number of patents. One of them is invention patent for air valve manufacturing, and the other ones are under declaration.

The main products of Chongqing Dadong are air valves of automobile, motorcycle and general purpose machines, covering the complete series of piston engines for motorcycle, automobile and air plane. For ensuring the quality of engine and satisfying customers, Dadong also produce the spring retainer and split collet. The annual production capacity of Chongqing Dadong exceeds 50 million pieces of air valves. In domestic, Dadong was granted the title of Excellent Supplier by Zongshen, Loncin, Lifan, Haojue, Jialing, and Dayun etc. In abroad, exporting the products and services globally, Dadong was honored to be the specified supplier of the world well-known companies, such as SUZUKI, BIAGGIO etc.



生产车间

WORKSHOP



重庆大东气门



## LARGE-SCALE WORKSHOP GUARANTEED PRODUCTION

### 规模化的生产车间，远销国内外

公司具有32条智能化生产线，从毛坯成型到热处理，精加工到成品，产品加工过程实行在线自动检测，全流程实行封闭智能化作业。

重庆大东隆腾汽车摩托车气门制造有限公司是中国内燃机工业协会会员单位，拥有自主进出口经营权。产品远销亚洲、欧洲、南美洲。

Dadong possesses 32 intelligent automatic manufacturing lines, preform fully enclosed operating start from blank forming to heat treatment, from fine finishing to finished products, export



品质保证

QUALITY GUARANTEE



重庆大东气门



▲ 检测工作间  
Inspection Room

# TESTING EQUIPMENT QUALITY ASSURANCE

## 专业检测仪器，品质保证

专业生产，品质保障，公司设有技术、质量中心，下辖技术部、品保部、品检部，建有国际一流的实验中心、检测室，理化试验，拥有材料光谱分析仪、拉力实验机、圆度仪、金相显微镜、超声波探伤仪等实验检测设备40余台套，具有全套的质量保证及技术开发体系；2006年公司率先通过ISO/TS16949国际质量体系认证。

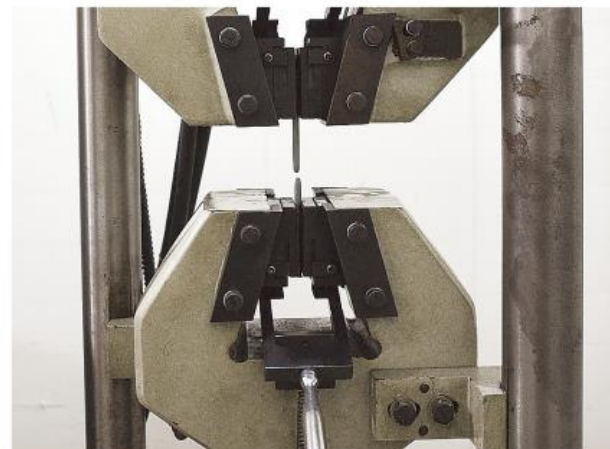
Specialized production, quality guaranteed. Dadong set up technique and quality center, which consist of engineering department, quality guarantee department, quality inspection department. Dadong established physical and chemical laboratory in the high-class experimental center and inspection center. Possesses more than 40 sets of inspection equipment such as raw material spectrum analyzer, tension tester, roundness measuring equipment, metallographic microscope, supersonic inspection. All of these make sure our capability of quality guarantee and technical R&D; In the year of 2006, Dadong obtained the ISO/TS16949 certificate.



▲ 现场成品加工自动检测线  
Machining and Auto Inspection Line

**TESTING  
EQUIPMENT  
QUALITY  
GUARANTEE**

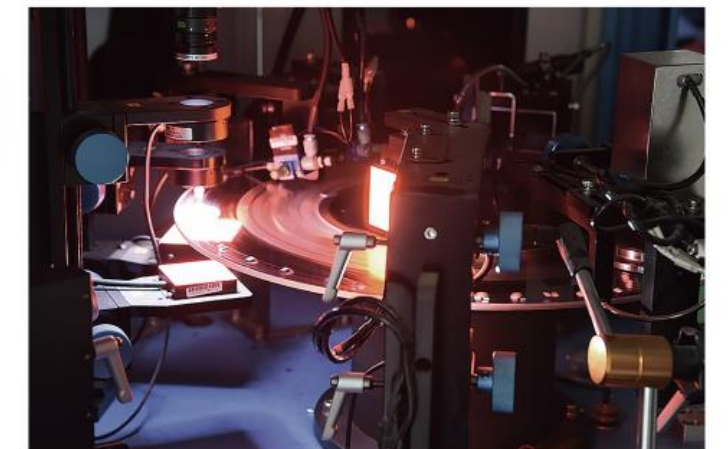
专业检测仪器  
品质保证



▲ 原材料拉力实验  
Raw Material Tension Test



▲ 光谱仪  
Spectrometer



▲ 锁夹全自动光学检测仪  
Collets Auto Optic Inspection



**飞机气门系列** Aircraft valve Series  
**汽车气门系列** Automobile Valve Series  
**摩托车气门系列** Motorcycles Valve Series  
**通用气门系列** General Machine Valve Series



**弹簧座、锁夹系列**  
Spring Retainers and Split Collets Series



**司太立1号合金**  
Stellite No.01 alloy

本公司专利技术，由手工焊接转化为全自动加工。美国品质，提高小端抗冲击磨损。

Our company patent, changed from manual welding into full-automatic processing. America quality, increase the valve tip-end impact resistance and abrasion resistance.

**母材**

Base Metal

选用优质5CR21MN9NI4N做排气门，优质4CR10SI2MO做进气门（详见世界各国气门钢牌号对照表），均采用精炼电渣重熔，提高钢材纯净度，增加高温持久强度及高温蠕变强度。

High quality 5Cr21Mn9Ni4N is used to produce exhaust valve and high quality 4Cr10Si2Mo is used for intake valves. (related technical comparison chart is found below). We use refined electroslag remelting process to enhance the purity of steel, to elevate its strength and capacity under high temperature.

**锻造**

Forging

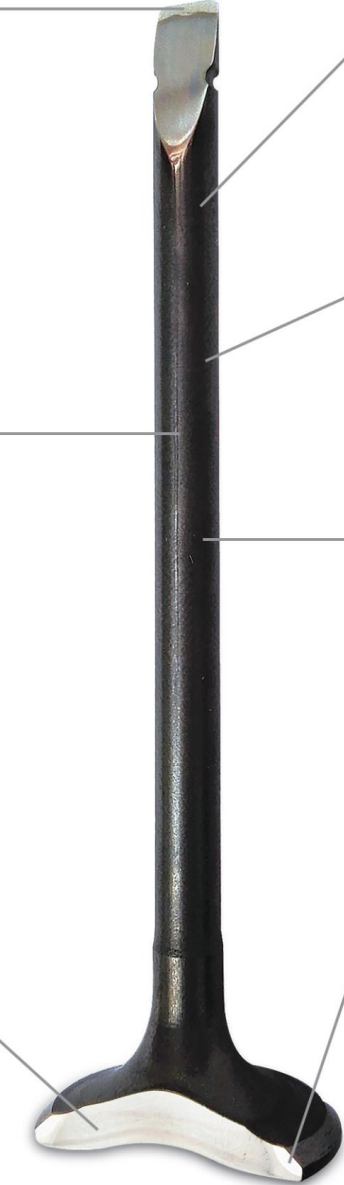
全自动机械手精锻，确保盘部金属线不被破坏，强度高。

Fine forging by full automatic robot arm to protect the metal matrix of the seat not to be destroyed and with high strength.

**世界各国气阀钢牌号对照表**

VARIOUS COUNTRIES AIR VALVE STEEL TRADEMARK COMPARATIVE TABLE

钢号 STEEL GRADE	NATIONALITY 国籍	中国 China	德国 Germany	美国 America	英国 England	俄罗斯 Russia	日本 Japan
进气门气 阀钢钢号 Intake Valve Steel Grade		45Cr9Si3	X45CrSi93	HNV3	401S45(EN521)	4X9	SUH1
		40Cr10Si2Mo	X40CrSiMo102			4X10C2M	SUH3
		51Cr8Si2	X50CrSi82				SUH11
排气门气 阀钢钢号 Exhaust Valve Steel Grade		40Cr14Ni4W2Mo		EV9	331S42(En54A)	4X14H14B2M	SUH31
		53Cr21Mn9Ni4N	X53CrMnNiN219	EV8	349S52	4X14H14B2M	SUH35
		2Cr21Ni2MnSiN		EV4	381S34		SUH37
		GH4751	NiCr15Fe7TiAl	HEV3			NCF751



**热处理**

Heat Treatment

整体进行OPO处理，杆部强化抗耐磨。OPO treatment is utilized to strengthen the stem against wear and tear.

**精加工**

Fine Machining

从毛坯到成品全自动线加工。

Full-automatic production line from blanks to finished products.

**检测**

Testing

现场100%自动检测。盘锥面气密性检测，确保强劲有力。

100% automatic inspection on-site. Seat conical surface air tightness inspection to ensure powerful.

**司太立6号合金**

Stellite No.06 Alloy

等离子堆焊，合金组织致密，绝无气孔。

Plasma resurfacing welding skill, to make the alloy structure more compacted and without air bubbles.



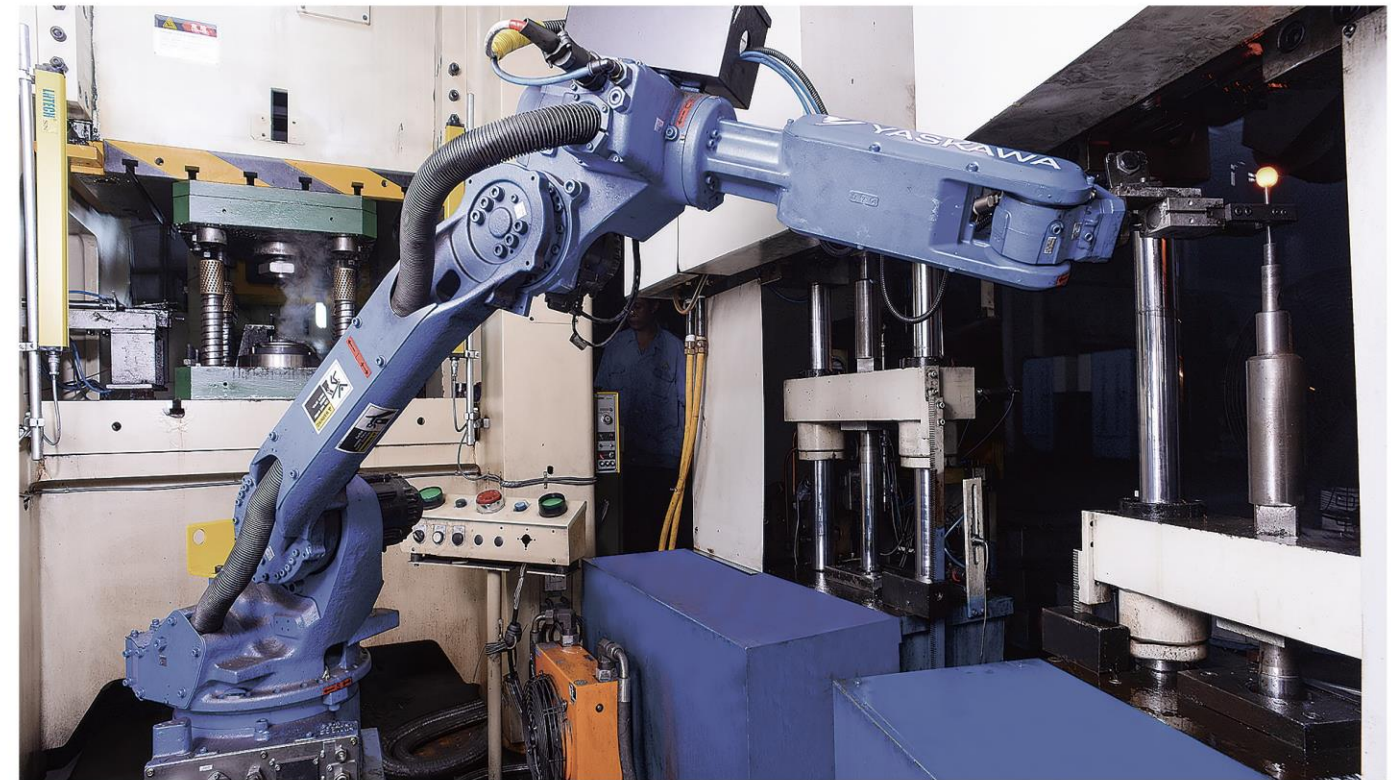
特色自动生产线

Special Auto Production Line



热处理生产线

Heat Treatment Line



全自动成型机

Automatic Forging Machine



技术实力

TECHNICAL STRENGTH



### 气门杆小端等离子堆焊自动生产线 (本公司专利技术实力)

Auto Tip End Alloy Plasma Welding Production Line(Company Patent Technical Strength)



### 带隔热套气门 (本公司专利技术实力)

Valve With Cover Protected From Heat (Company Patent Technical Strength)

### 专为高热负荷发动机设计

Especially Develop For High Thermal Load Engine



社会责任

SOCIAL RESPONSIBILITY



### 社会责任感

Social Responsibility

重庆大东隆腾汽车摩托车气门制造有限公司深知肩上的责任，在创造满足客户需求的高品质产品的同时，认识到社会责任，关心慈善事业，积极回馈社会，被多家慈善组织授牌表彰!

Chongqing Dadong Longteng Automobile & Motorcycle Airvalve Manufacturing Co., Ltd. deeply understand the assumed responsibility, while producing the high quality products to satisfy customers, Dadong is always aware of social responsibility, concerns philanthropy, feedback society positively, and was rewarded by many philanthropic organization!

