

质量控制 Quality Control



我们采用AutoCAD, Pro/E, SolidWorks等软件, 自行设计油封产品和模具结构, 所有图纸设计并经过多次审核。针对客户对油封具体使用环境的调查, 我们设计推荐方案。

We design the seal product and mold by ourself using the software including AutoCAD, Pro/E, SolidWorks. All the drawings are checked carefully according to customer request or we send the sealing design and solution to the customer as per the seal working condition.



公司所有油封模具全部采用Cr12MoV材质, 并使用数控车床和CNC加工中心加工制成, 型腔表面镀铬处理。

All the molds are made by CNC lathe and core surface are chrome-plated. Material is Cr12MoV.



使用精密预成型机制作橡胶块, 严格控制橡胶块的重量和尺寸。

Precision preformer helps to control the weight of rubber perform.



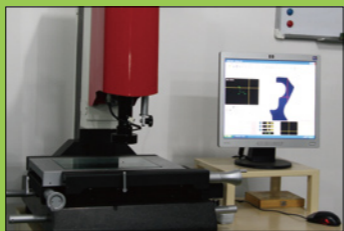
使用台湾东毓抽真空油封专用机进行加硫。

Rubber is shaped, cured and bonded to metal case by Tongyu molding machine.



使用油封专用抽真空式修边机实现唇口切边。

We use the trimming machine to cut the lip.



所有油封产品要求通过唇形检查, 使用先进的影像测试仪对比设计尺寸和形状。

All the seals shall pass the lip shape examination by video measuring machine.



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慈溪市观海卫麦格橡胶制品厂
MAG OIL SEALS FACTORY

什么是油封

What is Oil Seal

油封，即旋转轴唇形密封圈。机械的摩擦部分由于在机械运转时有油进入，为防止这些油从机械的间隙中泄露而采用油封。目前油封是在旋转轴部分使用的最多的密封。油封与其他唇形密封不同之处在于具有回弹能力更大的唇部，密封接触面宽度很窄（约为0.5mm）且接触应力的分布图形呈尖角形。油封的截面形状及箍紧弹簧，使唇口对轴具有较好的追随补偿性。因此，油封能以较小的唇口径向力获得较好的密封效果。

Oil Seals, usually called as Radial Shaft lip Seal. In order to prevent the oil leaking from the distance of mechanical operation between friction parts during the high speed rotation, oil seal will be introduced. Now oil seals is the most use parts for rotary shaft sealing.

The differences between oil seals and other lip shape seals is the lip having better elasticity. The contact surface is very narrow (about 0.5 mm) and the force distribution is triangular, the lip and spring create and increase the force onto shaft and have good adhesive reinforce. So that oil seal can get better sealing performance with smaller lip radial force.

Common elastomers are: FKM, ACM, NBR, HNBR. In order to resist wear the compounds' durometer (hardness) is typically 70 to 85 Shore A.

Early radial shaft seals utilized rawhide as the sealing element, and many elastomeric seal companies today once were tanneries. The advent of modern elastomers replaced rawhide, industry also added a garter spring which helps the sealing lip compensate for lip wear and elastomer material changes.

In recent years, PTFE are started using for sealing lip material and got widely applications.

>油封橡胶材料的选择 Rubber material selection

油封的橡胶材料，主要是丁腈胶(NBR)，氢化丁腈橡胶(HNBR)，丙烯酸酯橡胶(ACM)，氟橡胶(FKM)，近年来聚四氟乙烯(PTFE)等材料也广泛应用于油封。

The rubber material used for oil seals mainly are NBR, HNBR, ACM, FKM, VMQ, SBR, EPDM etc. In recent years, PTFE also has widely used for oil seals.

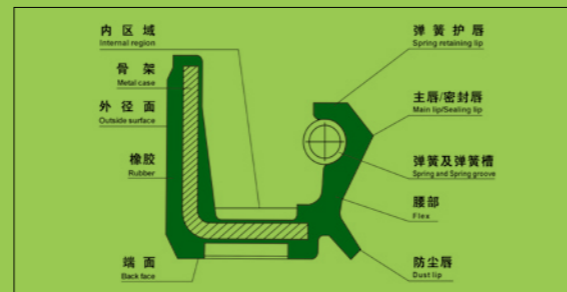
企业使命

Mission

MAG作为中国油封工业的新生企业，致力于为中国和世界工业制造高品质油封产品，并不断朝自己的目标迈进。

MAG, as a new company of oil seals industry, will be committed to China and world industry development, and manufacture high quality oil seals and continuously achieve its goal.

>油封结构图 Oil Seals Section View



>油封的类型 Oil Seals types

为了达到良好的密封目的，必须根据油封使用的具体工况选择适用的油封类型。任何类型的油封都必须在符合其允许范围内使用。下面所表示的截面图是比较常用的油封的类型。

Oil seals (shaft seals) are classified according to their outer configuration and geometry of their sealing lip. More types are available for different applications.



关于麦格

MAG Oil Seal



麦格油封成立于2006年，专业生产各类中高档骨架油封，以工业制造标准为客户提供优质产品。

生产的产品有：用于汽车的曲轴油封，变速箱油封，前后轮油封，气门油封等以及普通机械，运动器材等油封。

Founded in 2006, We supply a vast range of competitively priced metal cased lip seals in combinations of design and size in standard materials.

The products MAG had made are crankshaft oil seals, half-axle oil seals and also valve stem seals.

汽车油封

Automotive Oil Seals



我们生产的汽车油封，主要有汽车发动机的曲轴油封，凸轮轴油封，气门油封，变速箱油封，底盘油封等。

Automotive oil seals we made are including crankshaft oil seals, camshaft oil seals, half axle oil seals, seals for suspension and also valve stem seals etc.

We can make the oil seals for NISSAN TOYOTA MAZDA MITSUBISHI SUZUKI FORD CHEVROLET HYUNDAI MERCEDES BENZ etc. You are welcome to cooperate.

客户定制油封

Custom Molding Seals

目前客户定制油封业务，由两部分组成。

一是生产根据客户的样品或图纸进行。二是客户只提供油封的使用环境和条件，由我们公司自行设计，并达到客户要求的密封要求。

我们熟悉世界各国的油封生产标准，橡胶标准和骨架标准，如日本，德国，意大利以及美国等，我们有专业的设计人员参与设计。

我们也真诚希望通过与您的合作，进一步加深我们对油封使用条件的了解，不断提高我们的专业制造水平。

Custom molding includes 2 sections.

One is custom molding as per customer's samples or drawings, the other is customer only tell us the working condition and requirement of sealing purpose, we design the seals by ourself and offer the solutions.

We are familiar with the industrial standards of China, Japan, Germany, Italy and U.S., our engineers can participate in the whole process of new seals development.

It is our hope to cooperate with you and continuously improve our understanding of oil seals and their working environments, in order to enhance our ability to serve you and your company.

气门油封

Valve Stem Seals

气门油封是发动机的零件之一，在高温下与汽油和机油接触，为了达到耐热性，耐油性，通常采用氟橡胶材料。

气门油封的作用：

- 防止汽油与空气的混合气体以及排放废气泄漏。
- 防止发动机机油进入燃烧室。

- 允许一定量的油通过并对气门阀杆起到润滑作用

常用的气门油封类型有VA3, VA9, 另外还有VA0, VA1, VA2, VA4, VA5, VA6, VA7等类型。

以日本公司为代表的企业则将气门油封的类型定义为VSB, VSB2, VSB5等。



The role of valve stem seal is to limit the amount of oil which enters the cylinders by way of the valve guides. At the same time, the seal must let a certain amount of oil into lubricate valve stem and valve guide in order to avoid excessive wear and/or sticking.

The first seals were made of polyacrylic elastomer. As valve stem seal technology progressed, fluoro-elastomers (FPM) became the material of choice.

The valve stem seal also helps limit the pollution resulting from the combustion of the lubricant and the possible contamination and destruction of the catalytic converter by certain components present in the oil.

Valve stem seals type has VA3, VA9, also VA0, VA1, VA2, VA4, VA5, VA6, VA7 etc.

The Japanese manufacturer has different designation of valve stem seals, for example, VSB, VSB2, VSB5 etc.

