

METALLURGY INDUSTRIES

ZHANGLI MACHINE

SPRAYING

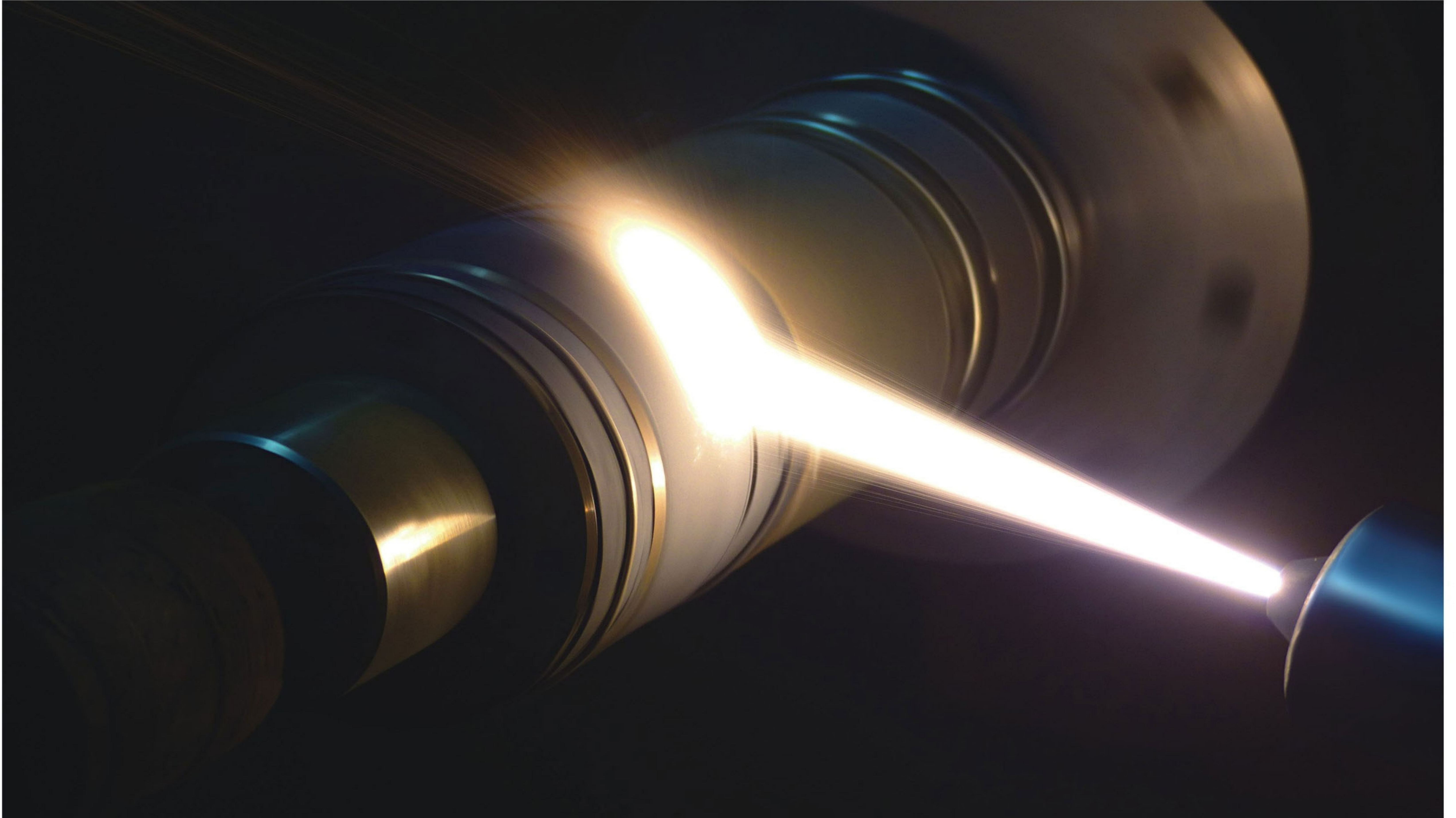


Z[®] **东莞市张力机械配件有限公司**
ZHANGLi Dongguan ZhangLi Machine Fittings Co.,Ltd.
COATING

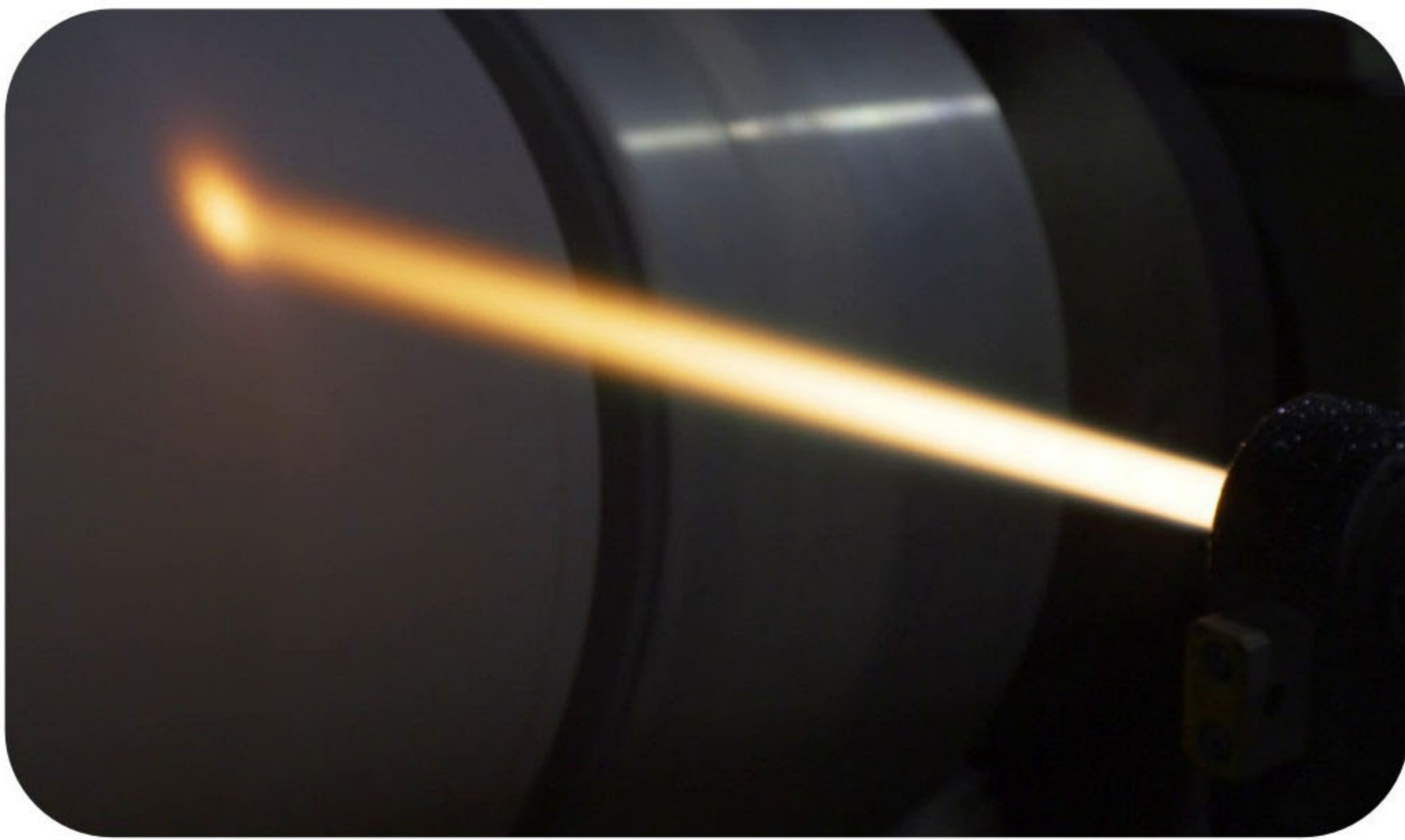
张力提供各设备行业的配套与服务:

Zhangli offers equipments and services for sorts of industries

- 1. 耐磨涂层 Wear-resistant coating
- 2. 耐腐蚀涂层 Corrosion-resistance coating
- 3. 绝缘涂层 Insulating coating
- 4. 防粘涂层 Non-stick coating
- 5. 导电涂层 Conductive coating
- 6. 耐高温涂层 High-temperature coating



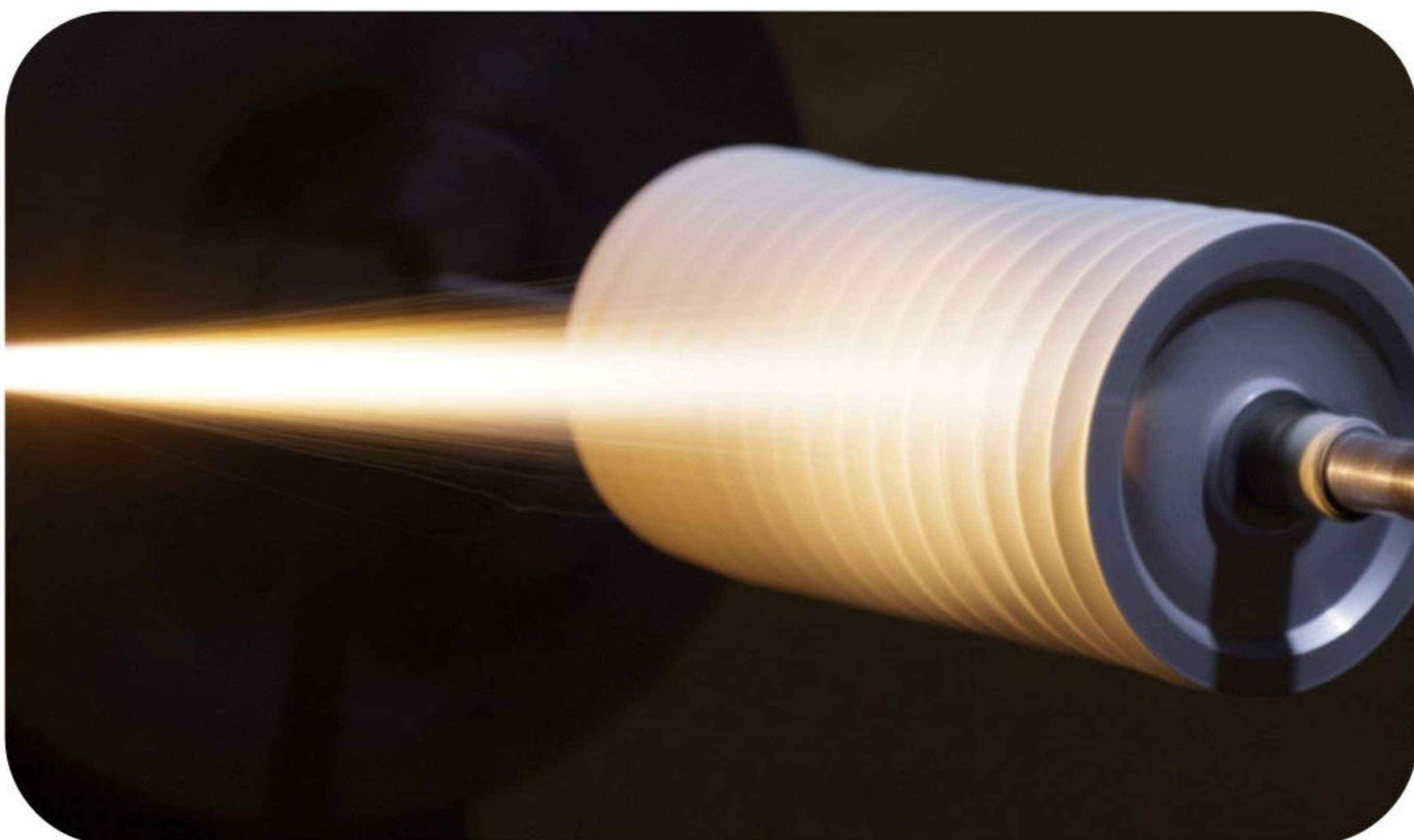
热喷涂设备 Spraying equipment



超音速喷涂 HVOF coating



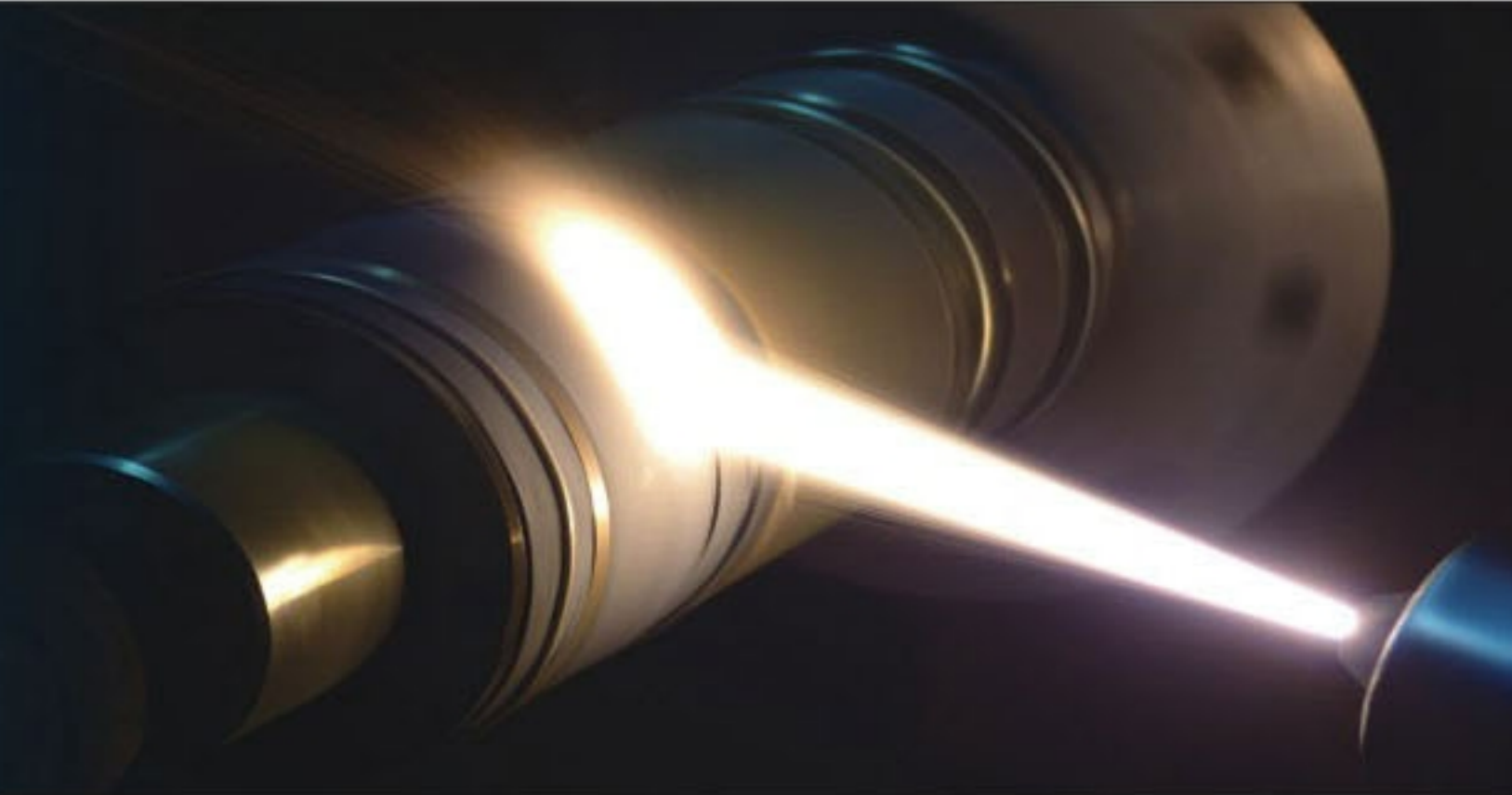
陶瓷棒材火焰喷涂 Ceramic rod gun coating



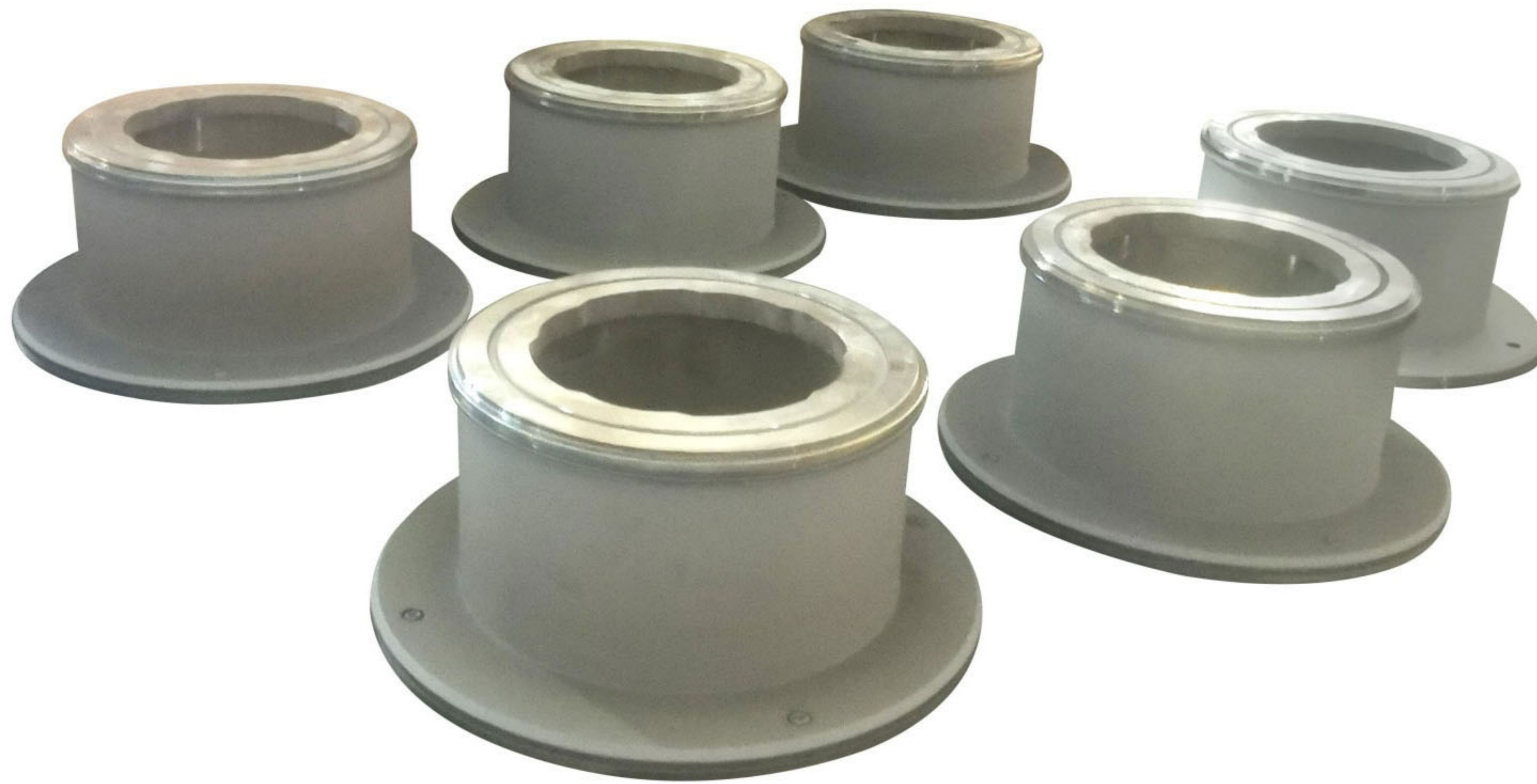
爆炸喷涂 Detonation flame coating



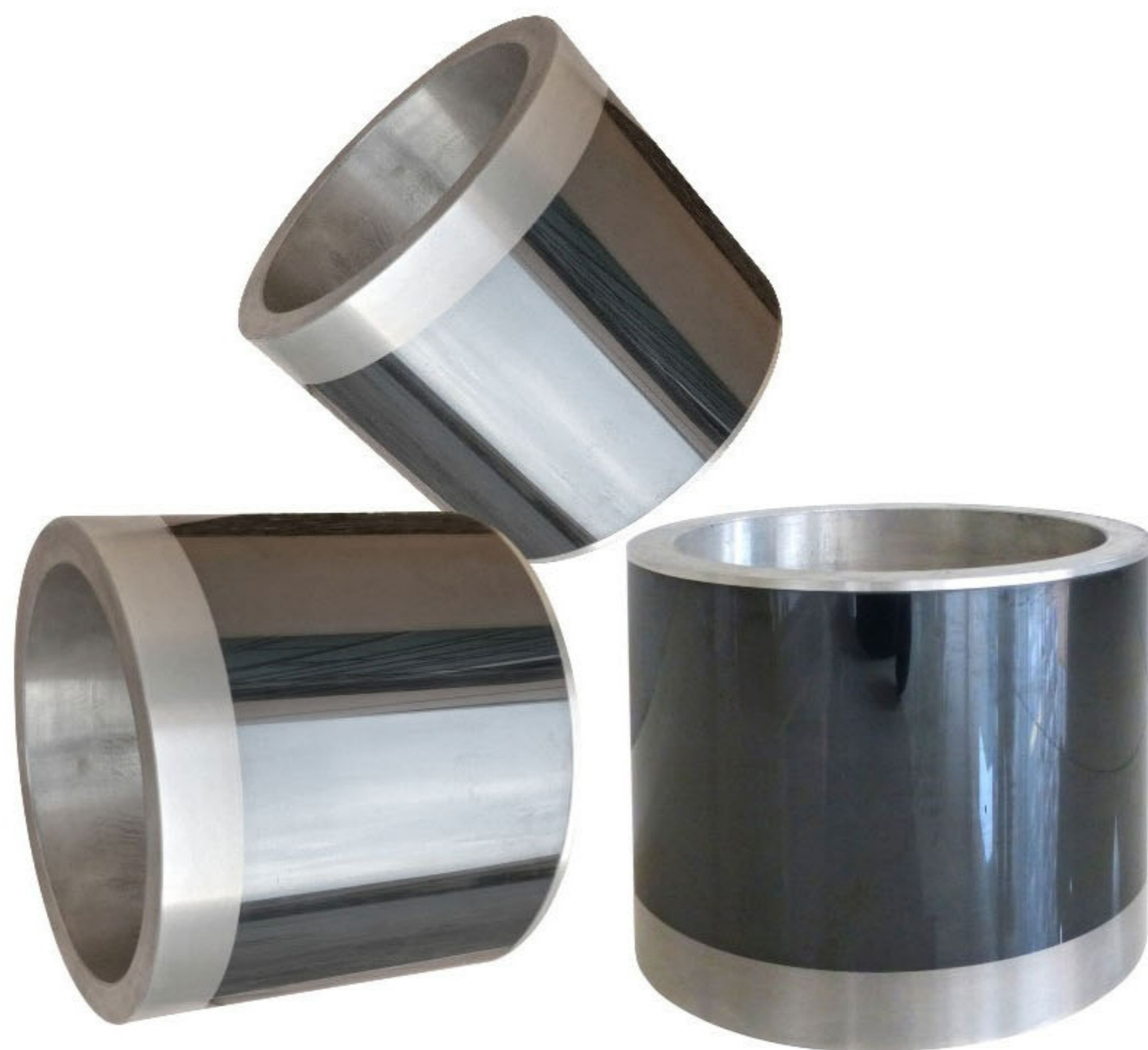
等离子喷涂 Plasma coating



304不锈钢轴套表面喷涂耐磨陶瓷及碳化钨涂层
Ceramic coated 304 stainless steel bushing for food machine



技术参数The technical parameters
喷涂材料：碳化钨粉末
Material: Tungsten carbide powder
涂层厚度：单边0.5-1.0mm
Thickness of coating: 0.5-1.0mm for single side after grinding
工艺：超音速碳化钨喷涂
Craft: TC coated for HVOF
断面涂层硬度：HRC:70-75
Hardness of coating: HRC:70-75
孔隙度：<1%
Surface porosity: <1%
结合强度：60-90Mpa
Surface bonding strength: 60-90Mpa

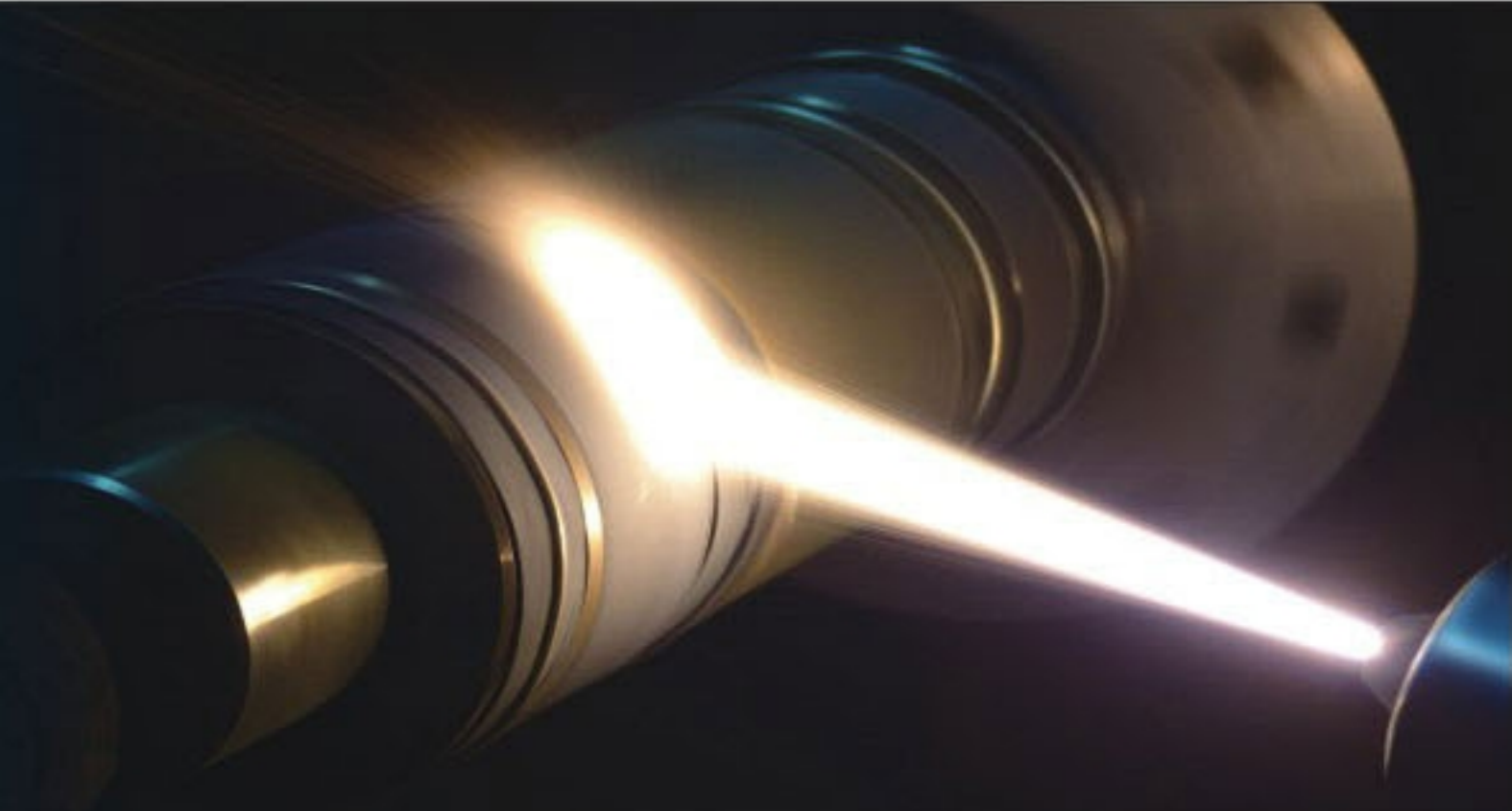


技术参数The technical parameters
喷涂材料：陶瓷
Material: Ceramic
涂层厚度：研磨后单边0.30-0.40mm
Thickness of coating: 0.30-0.40mm for single side after grinding
断面涂层硬度：HRC:65-68
Hardness of coating: HRC:65-68
孔隙度：<1%
Surface porosity: <1%
结合强度：30-40Mpa
Surface bonding strength: 30-40Mpa
表面粗糙度：Ra0.1
Surface roughness: Ra0.1

涂布机、分条机滚筒表面喷涂陶瓷
Ceramic coating rollers for Coater & slitting machine.



技术参数The technical parameters
喷涂材料：WC金属陶瓷
Material: WC Metal-ceramic
涂层厚度：研磨后单边0.2-0.3mm
Thickness of coating: 0.2-0.3mm for single side after grinding
工艺：爆炸设备喷涂
Craft: Detonation Spraying
断面涂层硬度：HRC:65-68
Hardness of coating: HRC:65-68
孔隙度：<1%
Surface porosity: <1%
结合强度：30-60Mpa
Surface bonding strength: 30-60Mpa
表面粗糙度：Ra0.1
Surface roughness: Ra0.1



分配轴密封位喷涂耐磨及防腐陶瓷

Ceramic coating dynamic seal shaft for Vacuum equipment.



技术参数The technical parameters
喷涂材料：陶瓷
Material: Ceramic
涂层厚度：研磨后单边0.30-0.40mm
Thickness of coating: 0.30-0.40mm
forsingle side after grinding
断面涂层硬度：HRC:65-68
Hardness of coating: HRC:65-68
孔隙度：<1%
Surface porosity: <1%
结合强度：30-40MPa
Surface bonding strength: 30-40MPa
表面粗糙度：Ra0.1
Surface roughness: Ra0.1

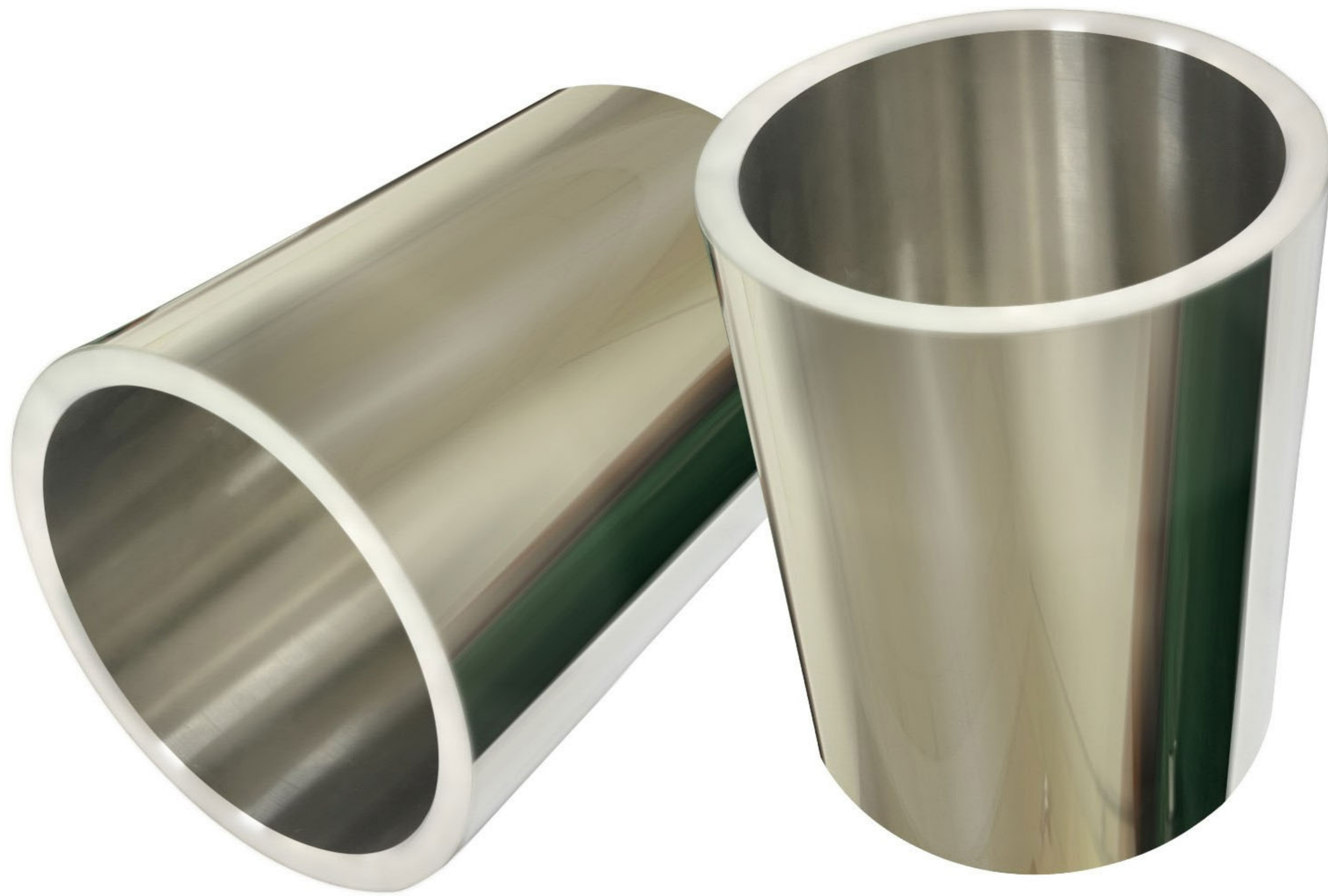
动密封轴转动部位喷涂绝缘陶瓷

Ceramic coating dynamic seal shaft for Vacuum equipment.



技术参数The technical parameters
喷涂材料：氧化锆陶瓷
Material: ZrO₂ Ceramic
涂层厚度：研磨后单边0.30-0.40mm
Thickness of coating:
0.30-0.40mm forsingl side after grinding
断面涂层硬度：HRC:65-68
Hardness of coating: HRC:65-68
孔隙度：<1%
Surface porosity: <1%
结合强度：30-60MPa
Surface bonding strength: 30-60MPa
表面粗糙度：Ra0.1
Surface roughness: Ra0.1





碳化钨涂层钢套 Tungsten carbide coating bushing

技术参数The technical parameters
喷涂材料：碳化钨粉末
Material: Tungsten carbide powder
涂层厚度：0.5-0.8mm
Thickness of coating: 0.5-0.8mm
for single side after grinding
工艺：HVOF碳化钨喷涂
Craft: TC coated for HVOF
断面涂层硬度：HRC:70-75
Hardness of coating: HRC:70-75
孔隙度：<1%
Surface porosity: <1%
结合强度：60-90Mpa
Surface bonding strength: 60-90Mpa
表面粗糙度：Ra0.1
Surface roughness: Ra0.1

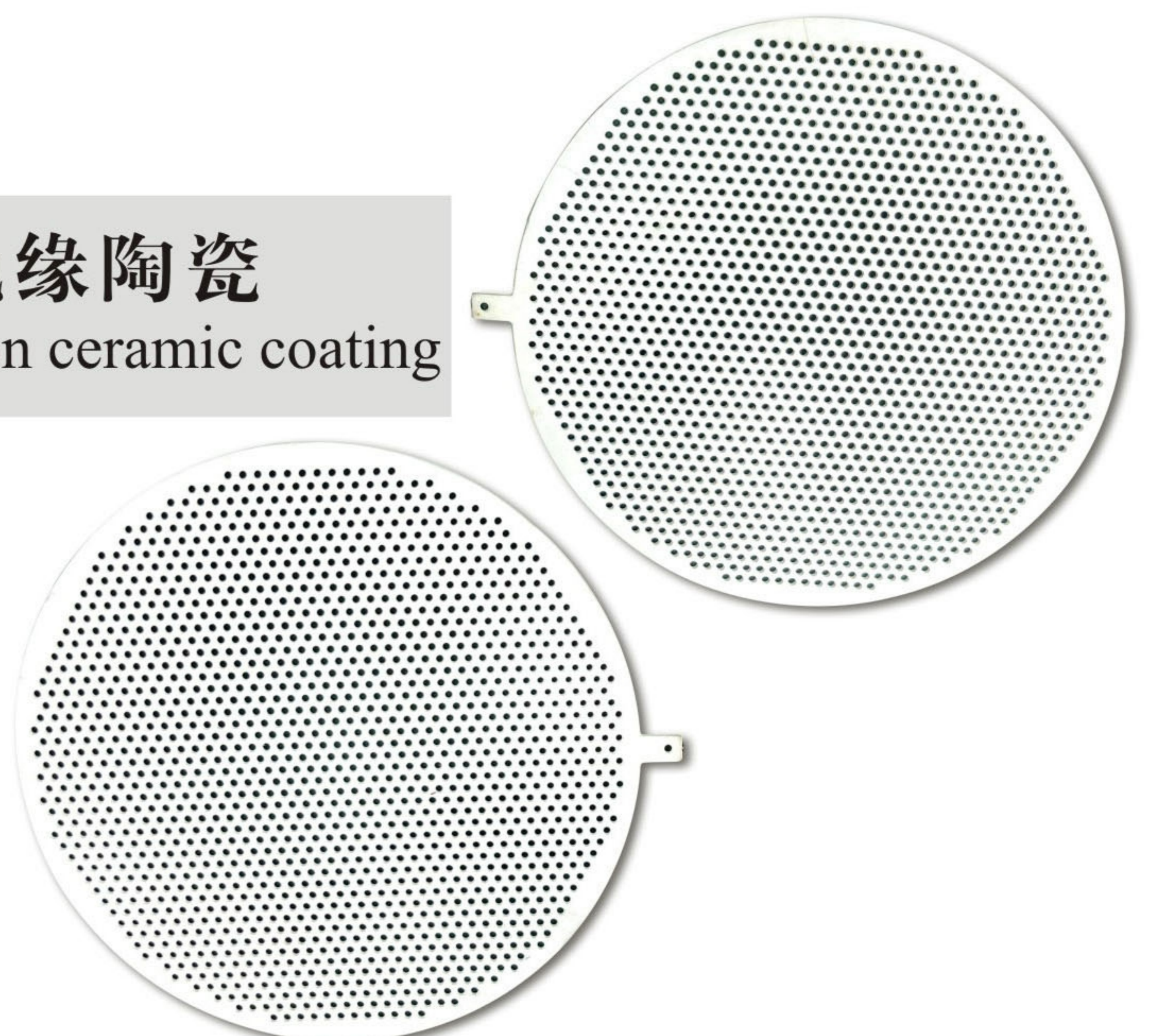
防粘涂层 Non-stick coating

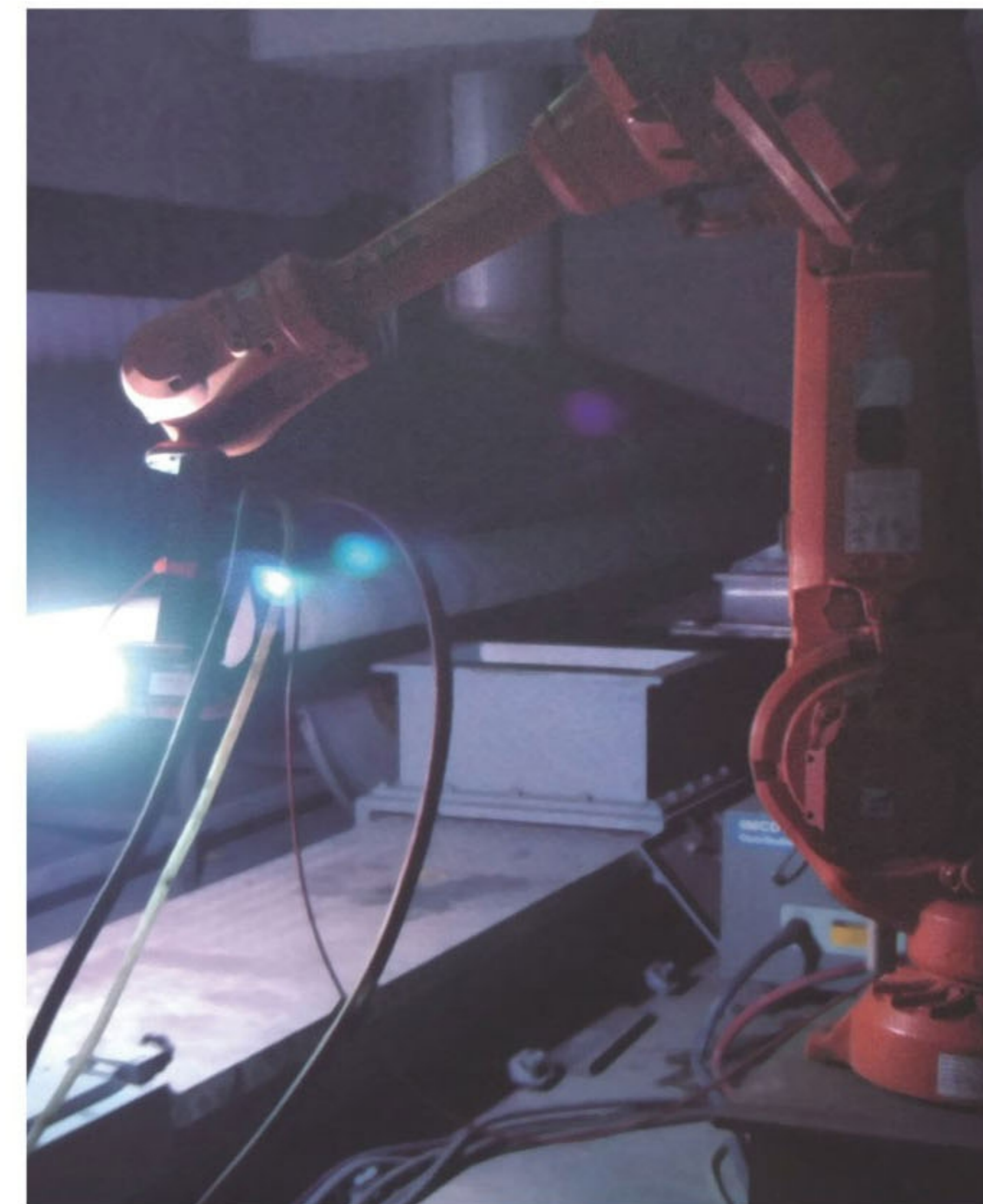
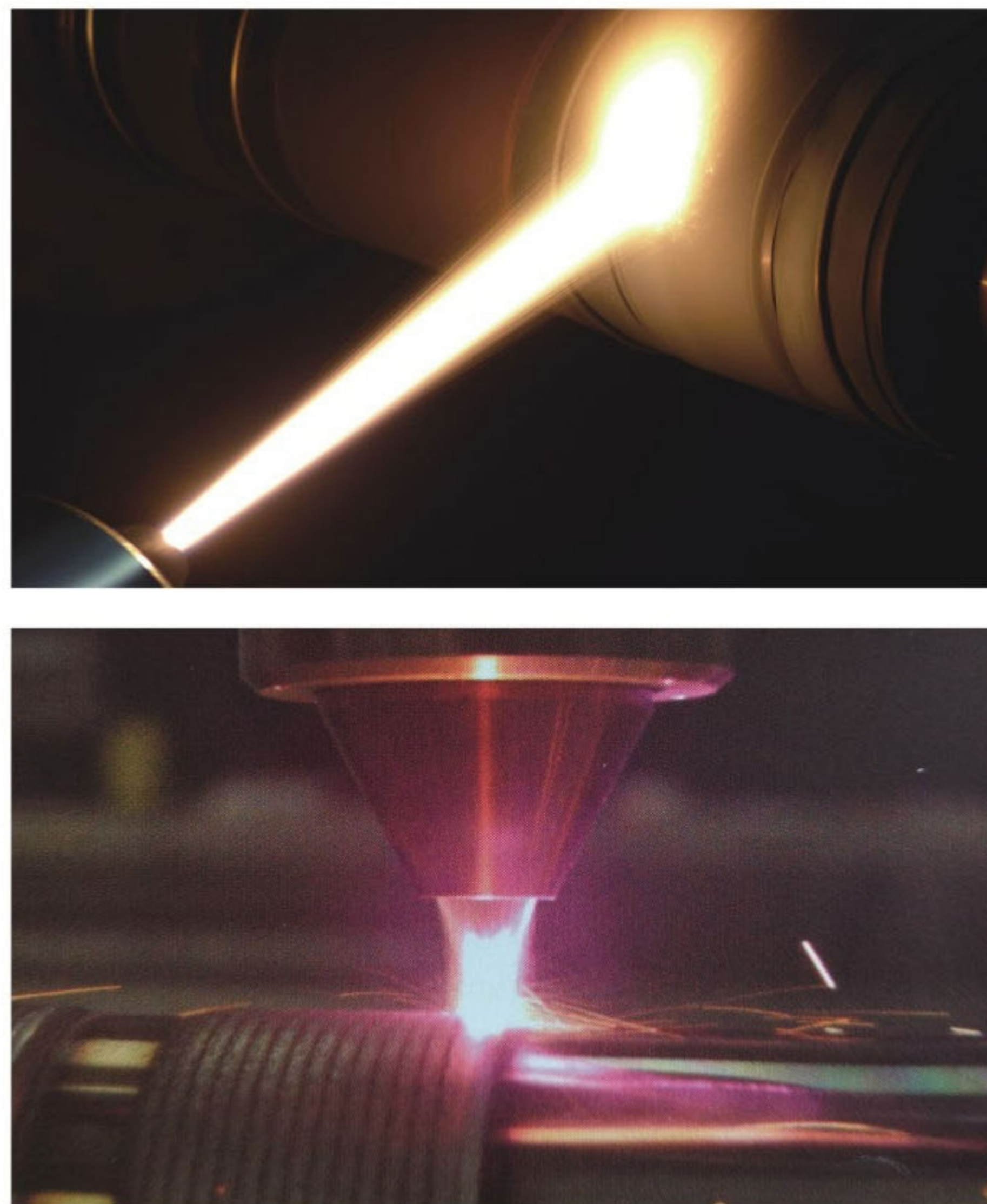
技术参数The technical parameters
喷涂材料：陶瓷+防粘材料
Material: Ceramic+Non-stick material
涂层厚度：0.3-0.4mm
Thickness of coating:0.3-0.4mm
工艺：等离子设备喷涂
Craft: Ceramic coating for Plasma
涂层硬度：HRC 60-65
Hardness of coating: HRC 60-65
孔隙度Surface porosity: <1%
涂层结合强度：30-60Mpa
Surface bonding strength:30-60Mpa



过滤板、衬板喷涂绝缘陶瓷 Filter plate, lining plate with insulation ceramic coating

技术参数The technical parameters
喷涂材料：AL2O3
Material: AL2O3
涂层厚度：0.3-0.4mm
Thickness of coating: 0.3-0.4mm
工艺：等离子设备喷涂
Craft: Ceramic coating for Plasma
涂层硬度：HRC 60-65
Hardness of coating: HRC 60-65
孔隙度：<1%
Surface porosity: <1%
涂层结合强度：30-60Mpa
Surface bonding strength: 30-60Mpa





公司宗旨 品质至上 诚信第一
COMPANY TENET Quality being supreme, good faith being the first

公司目标 我们将不断的研发和更新新的热喷涂技术，并将热喷涂产品推向各个行业的机械领域
OBJECTIVES leading the thermal spraying technician to the mechanical field in all industries

ZHANGLI 公司简介
COATING Company profile

东莞市张力机械配件有限公司是一家专业的热喷涂企业，创立于1998年，位于东莞市虎门镇，主要从事各行业设备上的传动件，密封件的制造与表面喷涂，提供各类耐磨涂层、防腐蚀涂层、防粘涂层、导电及绝缘涂层等。

公司拥有国内外先进的各项热喷涂设备、涂层烧结设备、机械加工设备、及涂层检测实验室。可全方位为客户提供各类传动件及密封件的新品制造与表面喷涂，以及维修件的修补喷涂与性能再生。喷涂的粉末主要有各类陶瓷、碳化钨、镍、钴等金属粉末。通过高温溶射到工件表面后形成均匀而坚固的涂层。从而达到耐磨、耐腐蚀、耐高温、防粘、导电绝缘等性能。

二十多年来我们一直专注于研发和更新新的热喷涂技术，积极与国内外高校院所合作研发，并将热喷涂产品推向各个行业的机械领域。

为了能更好的服务于客户，做的产品质量精准度能提高，我们还配备了完善的机加工设备：数控车床加工中心、内外圆磨床，铣床、钻床、动平衡等设备。并且通过了国家高新技术企业认证及ISO9001:2008质量管理体系认证，力致力于为广大客户提供更优质的产品与服务。

喷涂层的性能高，研磨抛光后光洁度好，与基材结合力强、对各行业工业水准的提升、能源的节省、环保的改善都有着极大的帮助。

现在张力品牌的热喷涂配件已销售服务于全球多个机械领域，所提供的各类涂层机械配件已远销于欧美与东南亚近三十多个国家。深受用户的信赖与好评。

Dongguan Zhangli Machine Fittings Co., Ltd. is a professional thermal spraying company, founded in 1998. It is located in Humen Town, Dongguan City. The company is mainly engaged in the manufacturing of transmission parts and seals as well as surface sprayings. providing various wear-resistant coatings, anti-corrosion coatings, Non-stick coatings, conductive and insulating coatings. At present, our supporting services mainly included new energy lithium battery, photovoltaic power generation, vacuum coating, pump and valve, cable and wire, food drinks, printing and packaging and other mechanical equipment industries.

The company has applied advanced thermal spraying equipment, machining equipment, and coating testing laboratories from different countries which allow us to provide our customers with the production of different transmission parts with surface coating, as well as the maintenance of repairable parts. The spraying powder mainly includes different kinds of ceramic, tungsten carbide, nickel, cobalt and other metal powder. The coating is formed after the powder being sprayed onto the surface of the work-piece through thermal spraying, allowing the coating to gain the properties of wear-resistance, corrosion resistance, heat resistance, Non-sticking, conductive insulation and so on.

For more than 20 years, we have been focusing on the development and updating of new thermal spraying technology and initiated active cooperation with colleges and universities across the globe for the purpose of research, advocating thermal spraying products to the mechanical field of different kinds of industries.

In order to serve our customers better and enhance the quality of our products, we are equipped with a complete set of machining facilities, consisting of CNC lathe, internal and external cylindrical grinder, milling machine, drilling machine, dynamic balancing machine and more and we meet the requirements of the ISO 9001:2008 Quality Management Systems, striving to provide better services and products for our customers.

The advantages of spray coating include high performance, good finish after grinding and polishing, strong binding force with the base material, which can greatly improve the industrial standards of different industries and promote energy saving, and environmental protection.

Currently, thermal spraying parts under our brand have been sold and served in many mechanical fields around the world and our coating mechanical parts have been exported to nearly 30 countries in Europe, America and Southeast Asia, which are deeply trusted and highly praised by end-users.

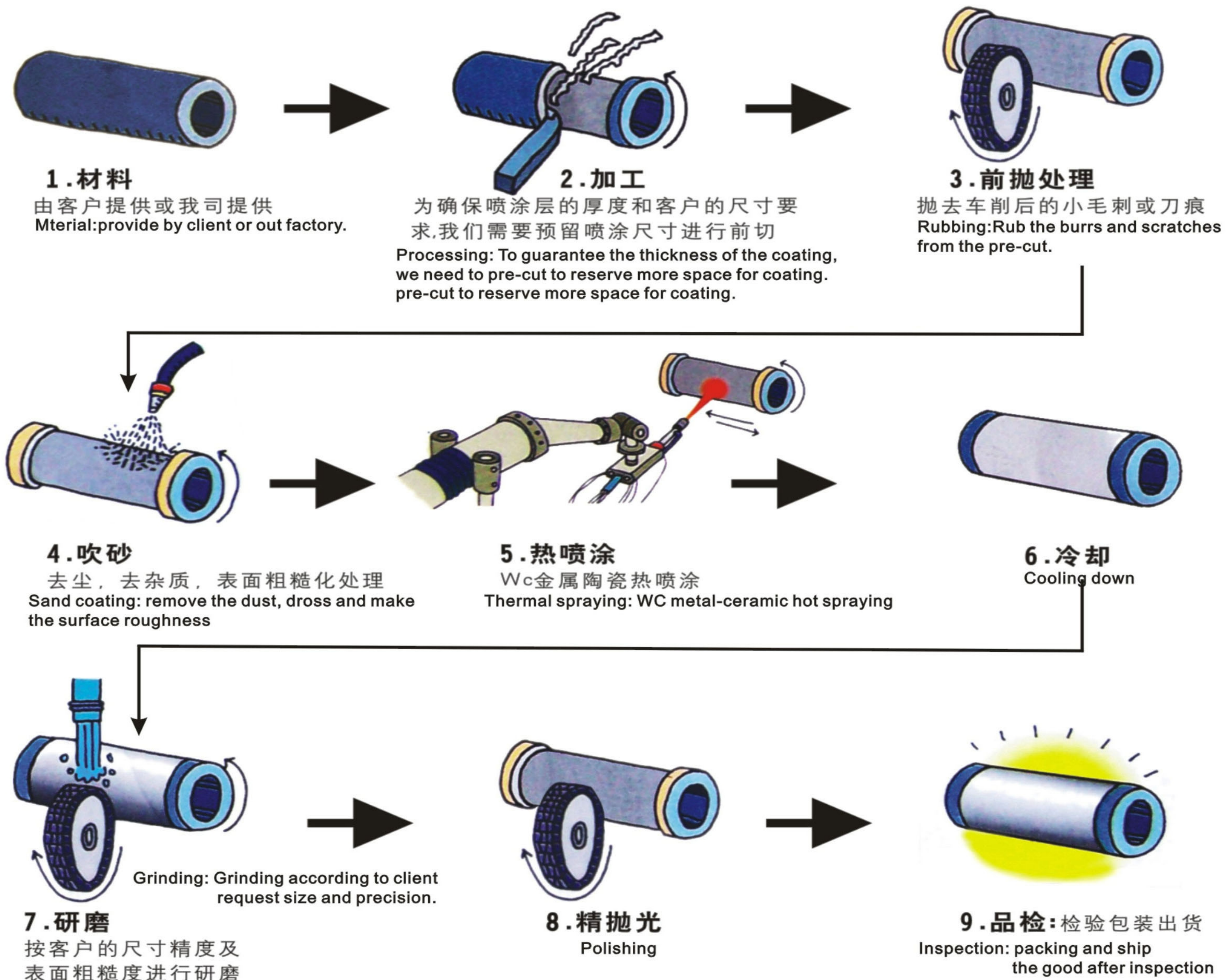
热喷涂技术实际上是将金属陶瓷粉末或其它金属粉末材质在高温下熔化并高速喷出，熔射到工件表面后形成均匀而坚固耐磨的涂层。这种保护涂层适用于新部件生产也适用于某些部件的修复。

Thermal spraying techniques are coating processes in which melted (or heated) materials are sprayed onto a surface. It is a coating technique which melts and sprays material—ceramics, metals or plastics—onto a backing. This process results in excellent resistance to wear, heat and corrosion.

现代机械设备中不少昂贵部件，即该整体的工作寿命还有很大盈余，但往往因局部磨损即行报废，形成重大经济损失。而超音速喷涂和爆炸喷涂是修复这些部件的有力手段，他们喷涂过程中受热很少，工件无相变，不变形，因而适于维修精密机械部件。此外，超音速喷涂和爆炸喷涂过程中无需真空或惰性气体保护。因而对维修部件的尺寸及形状限制较小，扩大了可修复部件的范围，修复表面磨损的涂层材料性能一般都明显高于母材，因而修复部件的寿命往往明显超过原新工件。

A Lot of Expensive modern machinery equipment parts ,the whole working life there is a great surplus , but it's often abandoned due to local wear and formation, it casue big economic losses. The HVOF and detonation flame spraying is a powerful tool to repair these parts, the heating to the piece is less during the explosion process, the workpiece is no phase change , deformation ,and therefore suitable for maintenance of precision mechanical components. In addition, the HVOF and explosion spraying process without a vacuum or inert gas, and thus the size and shape of the repair parts are less restricted , expanded the scope of repair parts . The performance of the coating material are significantly higher than the base material , so the life time for repaired parts is often significantly more than the original new parts .

热喷涂工艺流程 The thermal spraying process





东莞市张力机械配件有限公司

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