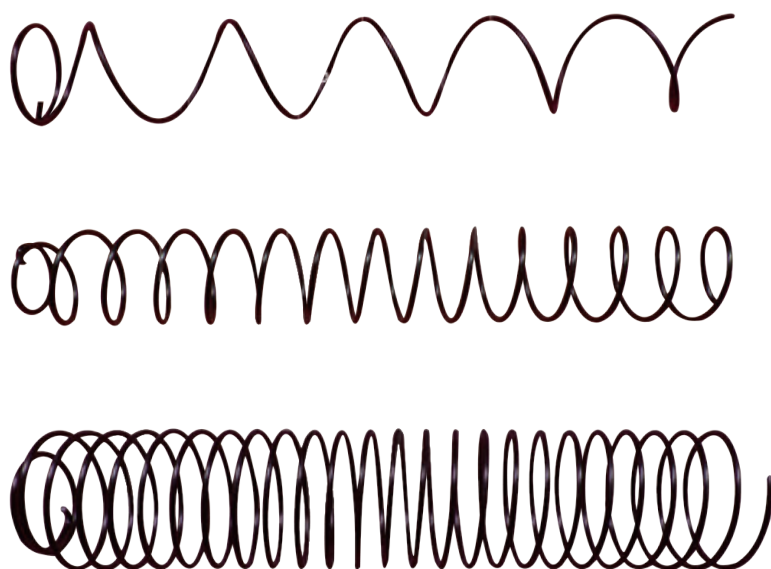




MASCOT
敏硕科技

自动售货机弹簧 VENDING MACHINE SPRING

热线:400-008-3858



上海敏硕机电科技有限公司
Shanghai Mascot Industrial Co., Ltd

公司简介 Company Profile



敏硕科技是一家中外合资具有研发、生产、销售综合实力于一体的各类精密弹簧、密封产品、制冷配件及单向阀系列等精密五金产品专业制造商。公司拥有四个分厂（江苏、上海、浙江、美国）及天津分公司，二万多平方米的标准厂房。公司创始人及研发技术骨干拥有欧美同行业丰富的管理及领先的技术经验。

公司现有员工598名，其中专业工程技术人员、管理人员268名，各种设备1000多台，形成了从产品研发、生产、销售到售后服务的完整现代化企业管理体系。公司通过IATF16949:2016质量体系等一系列技术认证，获得多项国家实用新型及发明专利。公司始终秉承“客户第一，质量至上”为宗旨，为客户提供全方位综合性弹簧、密封、制冷五金产品解决方案。我们承诺，无论您在何时何地，我们都将为您提供特殊需求的定制服务，专业、优质、安心、快捷、高效是我们十年如一日的服务宗旨。多年来，我们以诚信经营，踏实做产品，持续受到国内外客户的认可，业务遍布全球各地。

Mascot industrial group is a Sino foreign joint venture with comprehensive strength of R & D, production and sales. We are a professional manufacturer of all kinds of precision springs and seal ring, refrigeration accessories and check valve series and other precision hardware products. We have four branches (Jiangsu, Shanghai, Zhejiang, Dallas) and Tianjin Branch, more than 20000 square meters of standard workshop. As well as, We have 598 employees, including 268 professional engineering and technical personnel and management personnel, and more than 1000 sets of various equipment. The founder and R & D technical backbone of the company have rich management and technical experience in the same industry in Europe and America. It has formed a complete modern enterprise management system with product development, production, sales to after-sales service. The company has passed a series of quality technology certification such as IATF 16949:2016 quality system, and obtained a number of national utility model and invention patents. The company always adheres to the tenet of "customer first, quality first" to provide customers with comprehensive spring, seal ring, refrigeration hardware products solutions. We promise that no matter when and where you are, we will provide you with customized services with special needs. Our ten-year service tenet is professional, high-quality, reassuring, fast and efficient. Over the years, We focus on making good products for our customers. We are recognized by plenty of customers, and also our business all over the world.

弹簧事业部 Spring division

拥有各式压拉扭弹簧机160台和CNC弹簧机60台及检测设备20套；能精密制造各种标准和非标准压簧、拉簧、扭簧、高温弹簧（600°）&低温弹簧（-260°）、碟形弹簧（外径范围：3mm~900mm，厚度范围：0.08~60mm）、波形弹簧（外径范围：1mm~500mm，厚度范围：0.1~10mm）、热卷弹簧（材料直径16~80mm）、冷卷弹簧（材料直径：02mm~20mm）、发条、恒力弹簧（厚度范围：0.1mm~10mm）、密封弹簧（外径范围：2mm~500mm；厚度范围：0.1~10mm）螺旋叶片弹簧、阻尼器、气杆、悬架弹簧、涡卷弹簧、模具弹簧、卡簧、蛇形弹簧、异型弹簧、螺旋弹簧加工件、弹簧垫圈、孔用弹性挡圈、轴用弹性挡圈、止动环、缓冲器等精密五金。通过严格的疲劳测试实验，我们的弹簧最高耐疲劳1亿次以上。

常用材料：各类碳素钢、合金钢材料、琴钢线、Hastelloy哈氏合金、Elgiloy、SAE6150、SAE9254、50CrV4、60Si2CrA、62Si2MnA、SK4、SK5、CK55、CK67、CK70、CK75、65Mn、SUS301、SUS304、SUS316、SUS631、17-7、InconelX-718、InconelX-750、GH145等。

表面处理：发蓝、发黑、磷化、电镀、电泳和喷塑、喷漆、达克罗、焦美特等。

We have all kinds of press-pull torsion spring machine 160 sets and CNC spring machine 60 sets and 20 sets of testing equipment; Precision manufacturing various standard and non-standard high temperature spring (600 °) & low temperature spring (- 260 °) and compression spring, tension spring, torsion spring, disc springs (Outer diameter range:1mm~500mm,thickness range:0.1~10mm), spiral leaf spring, damper, gas pole, suspension spring, hot coil spring, constant force spring(thickness range: 0.1~10mm), Seal Spring(Outer diameter range:2mm~500mm,thickness range:0.1~10mm), vortex coil spring, die spring, snap ring, serpentine spring, shaped spring, screw, spring washer, hole, Axis with elastic retaining ring, stop ring, buffer and other precision hardware.Through rigorous fatigue testing experiments, our spring can withstand more than 100 million times of maximum fatigue.

Common materials: all kinds of carbon steel, alloy steel, piano steel wire, Hastelloy Hastelloy, Elgiloy, sae6150, sae9254, 50CrV4, 60si2cra, 62si2mna, SK4, SK5, ck55, ck67, ck70, ck75, 65Mn, SUS301, SUS304, SUS316, sus631, 17-7, inconelx-718, inconelx-750, gh145, etc.

Surface treatment: bluing, blackening, phosphating, electroplating, electrophoresis and plastic spraying, painting, Dacromet, jiaomeite, etc.

密封事业部 Seal Division

面对客户多元化需求,立足公司自有的先进弹簧的制造经验,公司于2016.6成立密封事业部,专门攻克了多家500强企业需要国产化但多年并不成功国产的泛塞封项目,帮助客户节省了大批成本。经过多年的发展,公司密封事业部现能精密制造各种弹簧储能圈,孔用泛塞封,轴用泛塞封,端面内向泛塞封,旋转泛塞封,PTFE翻唇骨架油封、翻唇式油封、格来圈、斯特封、尘封、AQ封、高压旋转油封、挡圈、导向环等各种非标定制密封产品。

本司氟塑密封件,均采用优质PTFE树脂生产,全都具备极低的摩擦阻力、无爬行现象、自润滑性能好、在缺乏润滑的情况下仍可正常工作等出色的优点。材料的化学性能和物理性能非常稳定,耐腐蚀性能优异、不粘性突出。工作温度范围达-60℃~+250℃。同时,具有极佳的动态和静态密封特点,耐磨性好、使用寿命长。产品应用范围广泛,尤其是在高压、高温、高速的工况下,以及强酸、强碱、强腐蚀的环境中,仍能保持良好的密封性能。

Facing the diversified needs of customers and based on the company's own manufacturing experience of advanced springs, We established a seal ring business department in June 2016, which has specially conquered the pan plug sealing projects that many top 500 enterprises need to be localized but have not been successfully localized for many years, we helped them save a large number of costs. After years of development, our seal division is now able to manufacture various kinds of non-standard customized sealing products, such as spring energy storage ring, hole pan plug seal, shaft pan plug seal, end face inward pan plug seal, rotary pan plug seal, PTFE lip framework oil seal, lip type oil seal, grid ring, stern seal, dust seal, AQ seal, high pressure rotary oil seal, retaining ring, guide ring, etc.

Our fluoroplastic seals are all made of high-quality PTFE resin. They all have excellent advantages such as extremely low friction resistance, no crawling phenomenon, good self-lubricating performance, and can still work normally in the absence of lubrication. The chemical and physical properties of the material are very stable, with excellent corrosion resistance and outstanding non stickiness. The working temperature ranges from - 60 °C to +250 °C. At the same time, it has excellent dynamic and static sealing characteristics, good wear resistance and long service life. Products are widely used, especially in high pressure, high temperature, high speed conditions, as well as strong acid, strong alkali, strong corrosion environment, still can maintain good sealing performance.

五金制冷事业部 Hardware Refrigeration Division

拥有各类先进的精密五金制冷加工设备,主导产品包括过滤器(干燥过滤器,吸气过滤器)单向阀,空调阀,黄铜及紫铜等制冷配件系类产品 and 精密五金系列配件。

We have all kinds of advanced precision hardware refrigeration processing equipment, leading products include filter (dry filter, suction filter) check valve, air conditioning valve, brass and copper and other refrigeration accessories series products and precision hardware series accessories.



自动售货机弹簧

VENDING MACHINE SPRING

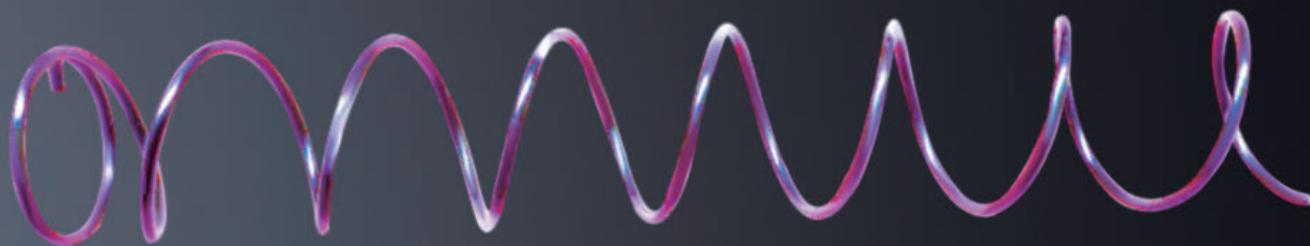
自动售货机弹簧作为自动售货机的核心部件,从外表、尺寸及垂直度都对自动售货机品质的影响至关重要;售货机弹簧不同于压簧产品,压簧产品主要使用弹簧的反弹力,而售货机弹簧的工作原理则是扭转力,弹簧转动时利用其扭转力旋转,将弹簧空隙中摆放的物品售出。

As the core component of the vending machine ,the vending machine spring is very important to the influence of the appearance,size and verticality on the quality of the vending machine;the vending machine spring is different from the compression spring product , and the compression spring product mainly uses the spring rebounding force.The working principle of the vending machine spring is the torsion force,and the spring is rotated by the torsion force to sell the items placed in the spring gap.



垂直度好
硬度高
输送货品顺畅





表面处理 SURFACE TREATMENT

高科技静电喷漆

各种颜色尺寸按需求定做,适用于放听装饮料,果蔬,礼品等大小物体。

High tech electrostatic painting

Various colors and sizes are customized according to demand. It is suitable for tinned drinks, fruits and vegetables, gifts and other objects.

材质 MATERIAL

一般选用优质的SWC、SWPB、60Si2Mn等牌号的圆钢材料;

表面环保镀铬、镀锌,各种尺寸均可定做。

Generally, high-quality SWC, SWPB, 60Si2Mn and other brand round steel materials are selected;

The surface is environmentally friendly chrome plated and galvanized, and various sizes can be customized.

垂直度好

硬度高

输送货品顺畅



自动售货机弹簧

VENDING MACHINE SPRING

定制螺旋弹簧
CUSTOM COIL SPRING



表面光洁 SMOOTH SURFACE

棒材外表均无砂眼及黑点, 圆润光滑

The surface of the bar is round and smooth without sand holes and black spots

间距均匀 UNIFORM SPACING

本品弹簧间距均匀凸显曲线受力稳定, 纹理清晰

This product has uniform spring spacing, prominent curve, stable stress and clear texture

匠心做工 CRAFTSMANSHIP

经过多道工序锻造, 表面光滑无毛刺, 尺寸精准

After forging through multiple processes, the surface is smooth without burr and the size is accurate

弹性好 GOOD RESILIENC

高塑性耐疲劳, 回弹力十足

High plasticity, fatigue resistance and full resilience

环保 ENVIRONMENT PROTECTION

选用优质的SWC、SWPB、60Si2Mn等牌号的圆钢材料, 表面环保镀铬、镀锌, 各种尺寸均可定做。

High quality SWC, SWPB, 60Si2Mn and other brand round steel materials are selected. The surface is environmentally friendly chrome plated and galvanized, and various sizes can be customized.

产品规格 PRODUCT SPECIFICATION



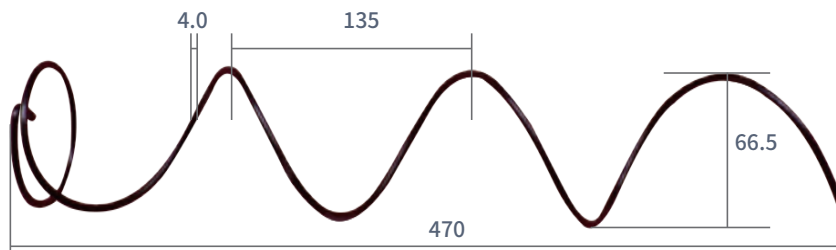
3格 (three): 4.0*66.5*135*470mm

线径Wire diameter:4.0

外径Outside diameter:66.5

节距Pitch:135

长length:470



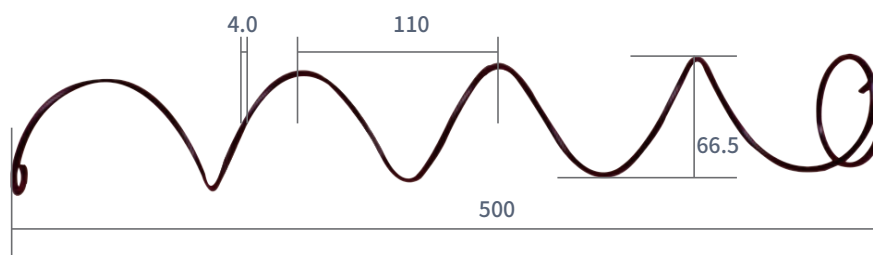
4格 (four): 4.0*66.5*110*500mm

线径Wire diameter:4.0

外径Outside diameter:66.5

节距Pitch:110

长length:500



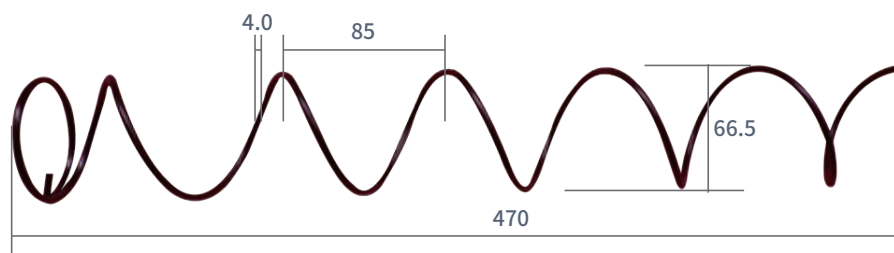
5格 (five): 4.0*66.5*85*470mm

线径Wire diameter:4.0

外径Outside diameter:66.5

节距Pitch:85

长length:470



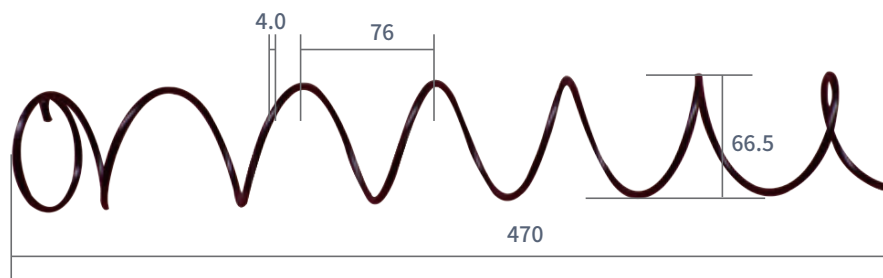
6格 (six): 4.0*66.5*76*470mm

线径Wire diameter:4.0

外径Outside diameter:66.5

节距Pitch:76

长length:470



产品规格 PRODUCT SPECIFICATION



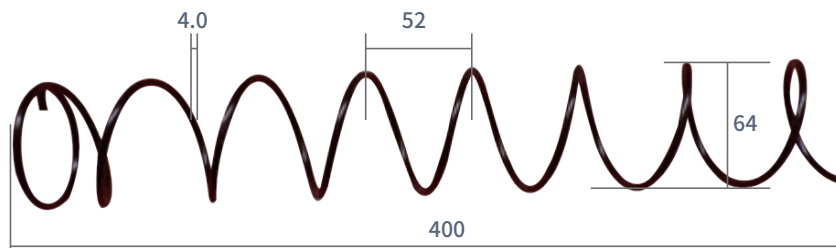
7格 (seven): 4.0*64*52*400mm

线径Wire diameter:4.0

外径Outside diameter:64

节距Pitch:52

长length:400



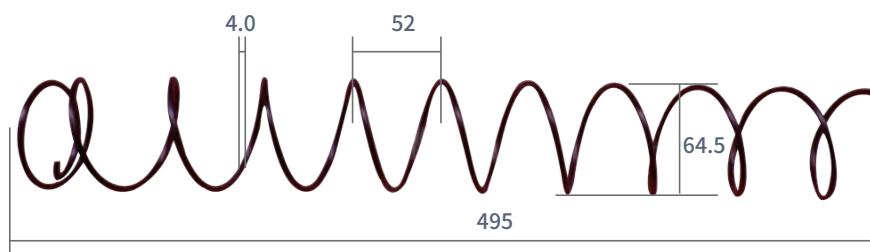
8格 (eight): 4.0*64.5*52*495mm

线径Wire diameter:4.0

外径Outside diameter:64.5

节距Pitch:52

长length:495



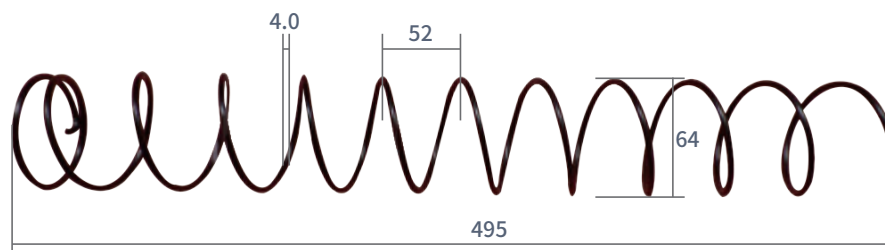
9格 (nine): 4.0*64*53*495mm

线径Wire diameter:4.0

外径Outside diameter:64

节距Pitch:53

长length:495



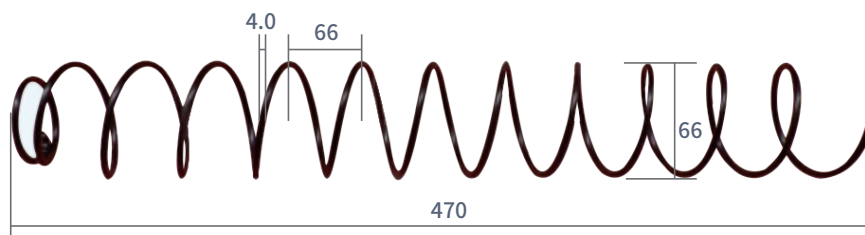
10格 (ten): 4.0*66*45*470mm

线径Wire diameter:4.0

外径Outside diameter:66

节距Pitch:45

长length:470



产品规格 PRODUCT SPECIFICATION



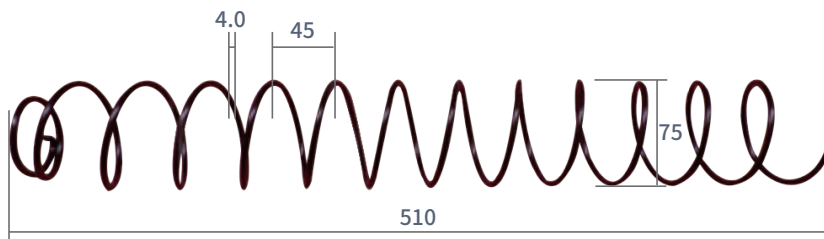
11格 (eleven): 4.0*75*45*510mm

线径Wire diameter:4.0

外径Outside diameter:75

节距Pitch:45

长length:510



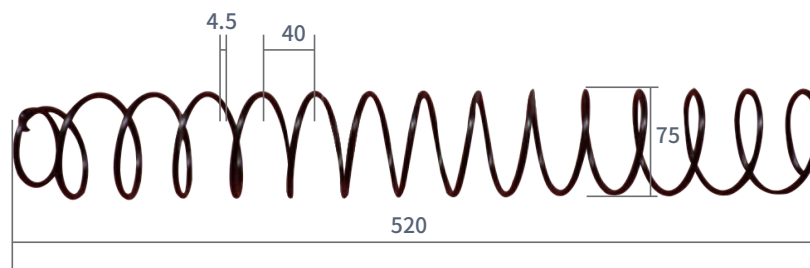
12格 (twelve): 4.5*75*40*520mm

线径Wire diameter:4.5

外径Outside diameter:75

节距Pitch:40

长length:520



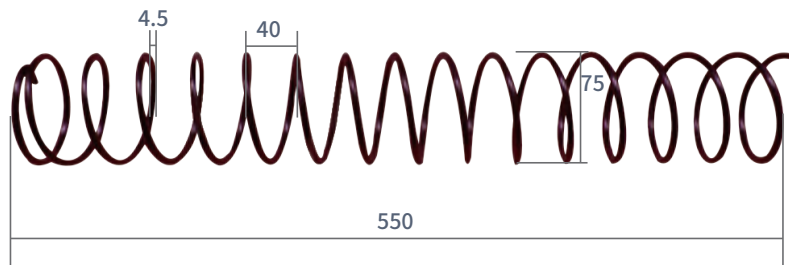
13格 (thirteen): 4.5*75*40*550mm

线径Wire diameter:4.5

外径Outside diameter:75

节距Pitch:40

长length:550



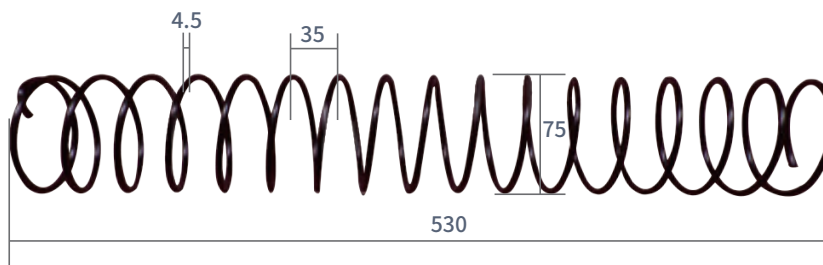
14格 (fourteen): 4.5*75*35*530mm

线径Wire diameter:4.5

外径Outside diameter:75

节距Pitch:35

长length:530

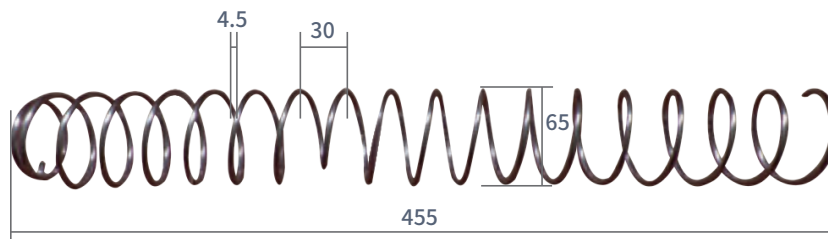


产品规格 PRODUCT SPECIFICATION



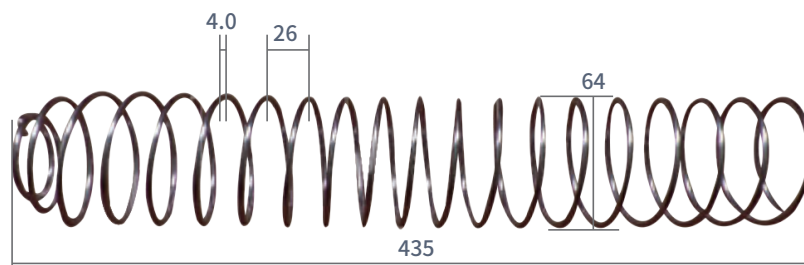
15格 (fifteen): 4.5*65*30*455mm

线径Wire diameter:4.5 外径Outside diameter:65 节距Pitch:30 长length:455



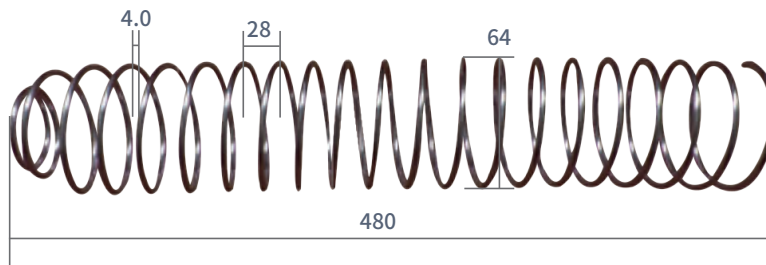
16格 (sixteen): 4.0*64*26*435mm

线径Wire diameter:4.0 外径Outside diameter:64 节距Pitch:26 长length:435



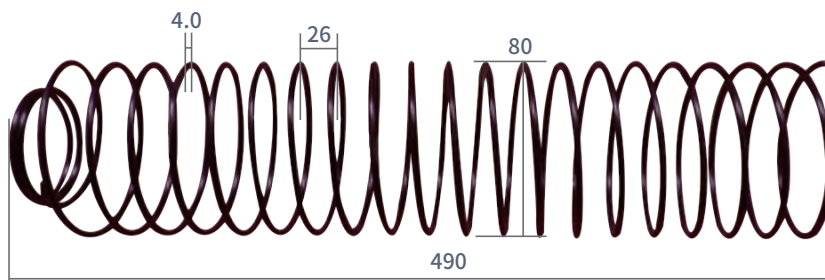
17格 (seventeen): 4.0*64*28*480mm

线径Wire diameter:4.0 外径Outside diameter:64 节距Pitch:28 长length:480



18格 (eighteen): 4.0*80*26*490mm

线径Wire diameter:4.0 外径Outside diameter:80 节距Pitch:26 长length:490

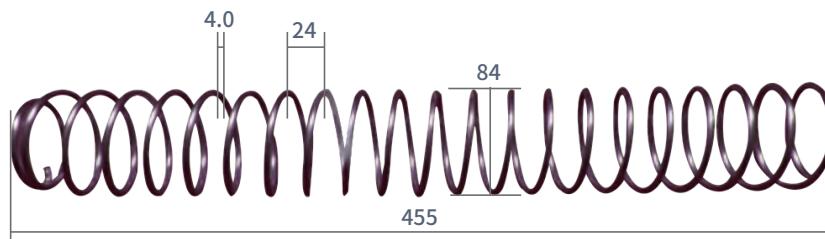


产品规格 PRODUCT SPECIFICATION



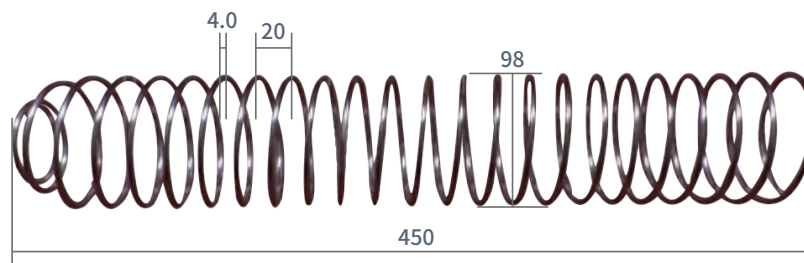
19格 (nineteen): 4.0*84*24*455mm

线径Wire diameter:4.0 外径Outside diameter:84 节距Pitch:24 长length:455



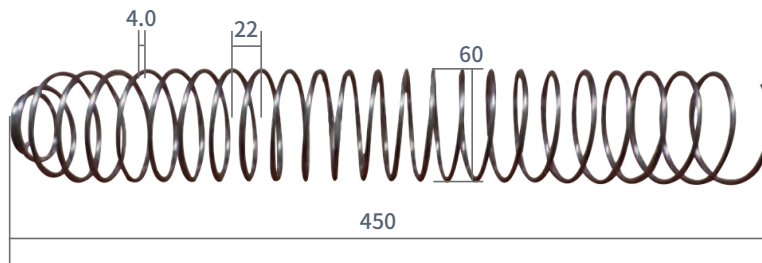
20格 (twenty): 4.0*98*20*450mm

线径Wire diameter:4.0 外径Outside diameter:98 节距Pitch:20 长length:450



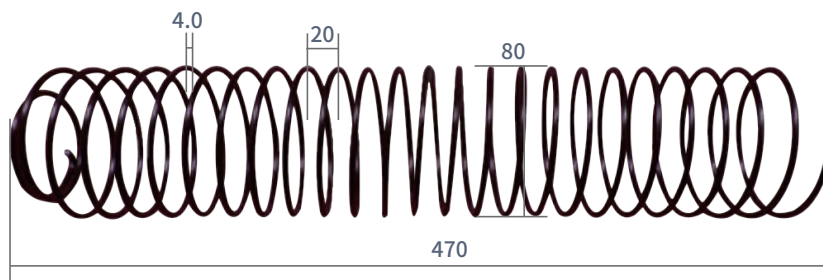
21格 (twenty-one): 4.0*60*22*450mm

线径Wire diameter:4.0 外径Outside diameter:60 节距Pitch:22 长length:450



22格 (twenty-two): 4.0*80*20*470mm

线径Wire diameter:4.0 外径Outside diameter:80 节距Pitch:20 长length:470



产品规格 PRODUCT SPECIFICATION



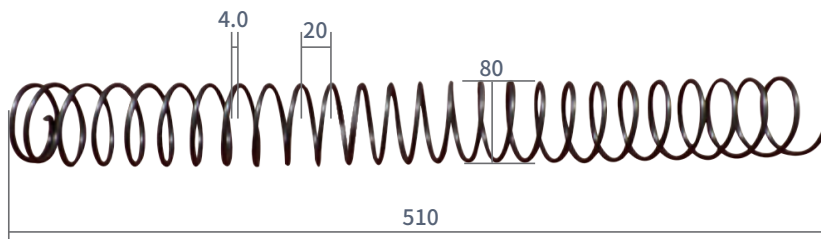
23格 (twenty-three): 4.0*80*20*510mm

线径Wire diameter:4.0

外径Outside diameter:80

节距Pitch:20

长length:510



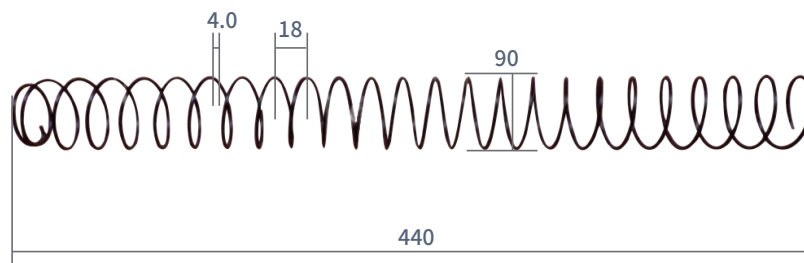
24格 (twenty-four): 4.0*90*18*440mm

线径Wire diameter:4.0

外径Outside diameter:90

节距Pitch:18

长length:440



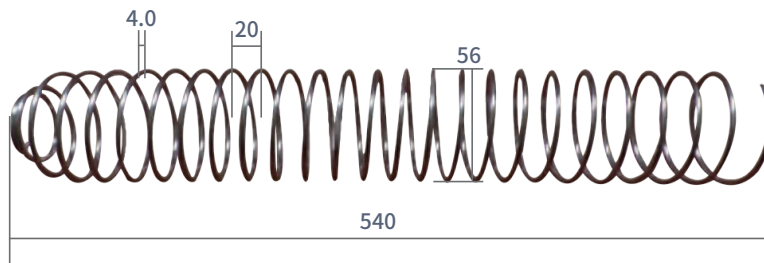
25格 (twenty-five): 4.0*56*20*540mm

线径Wire diameter:4.0

外径Outside diameter:56

节距Pitch:20

长length:540



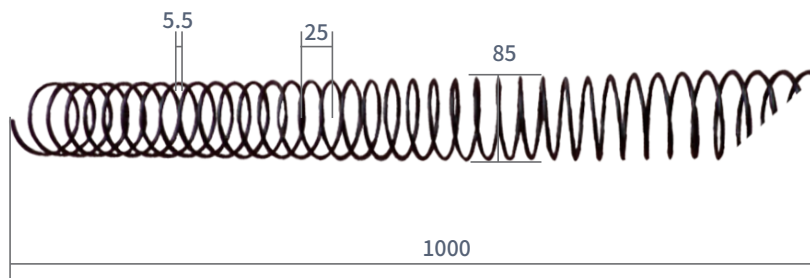
40格 (forty): 5.5*85*25*1000mm

线径Wire diameter:5.5

外径Outside diameter:85

节距Pitch:25

长length:1000

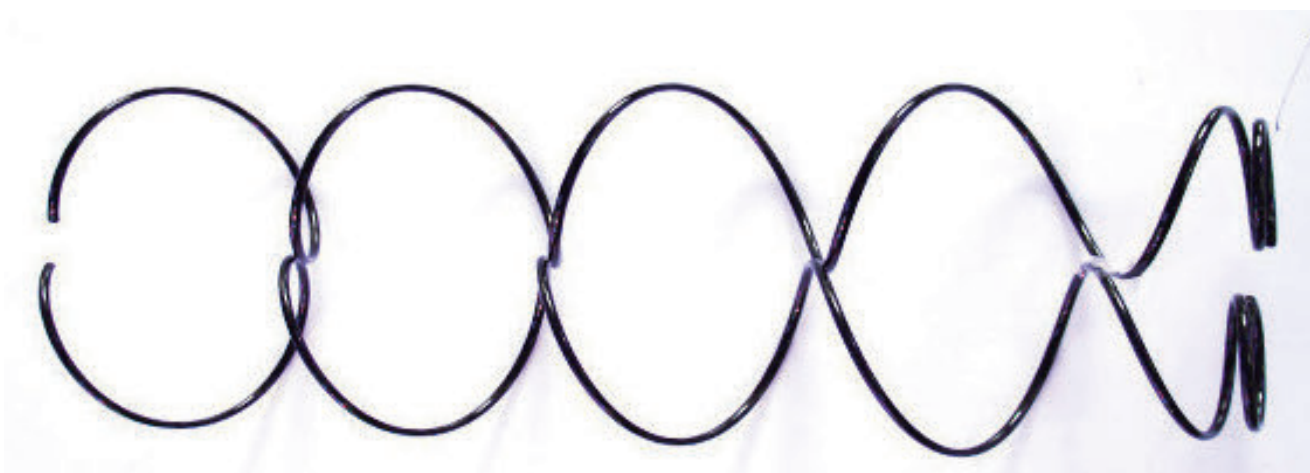
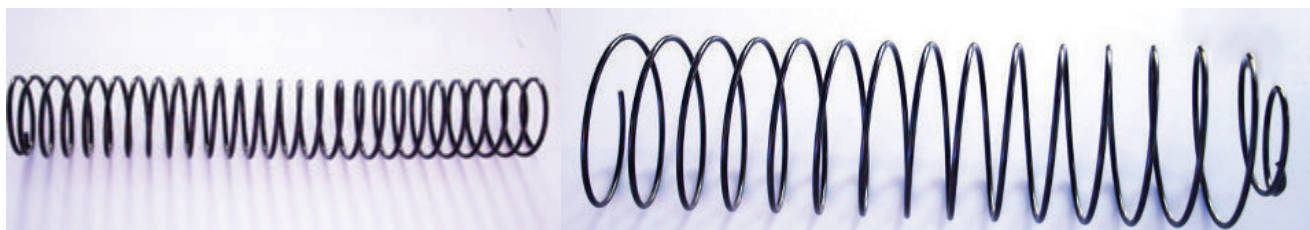
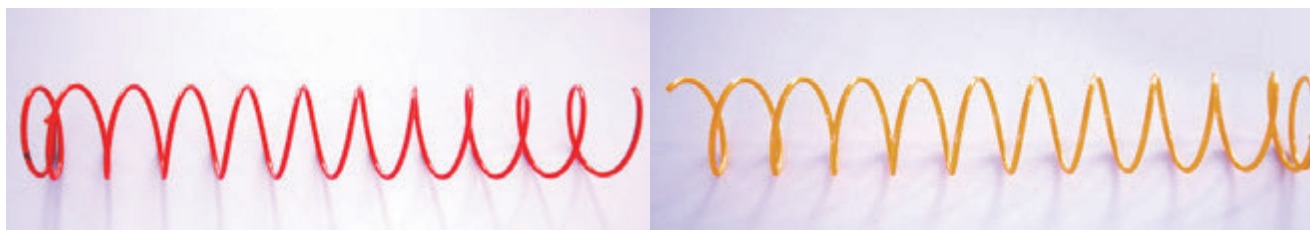


产品多样化

PRODUCT DIVERSIFICATION

可定制弹簧

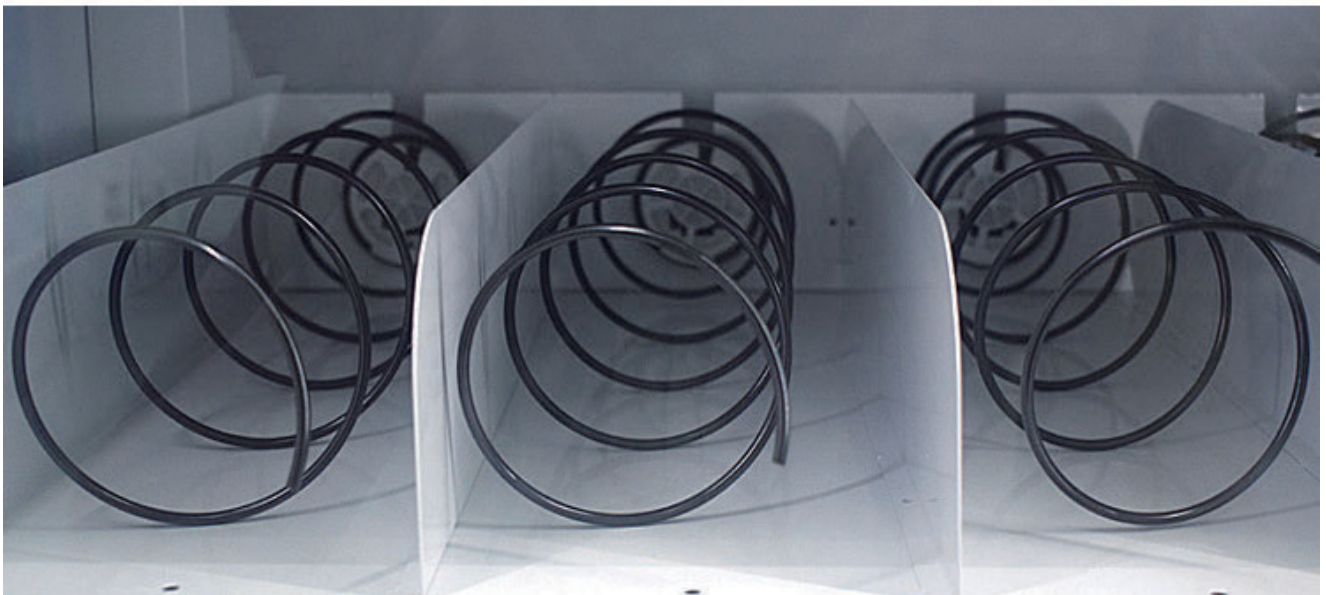
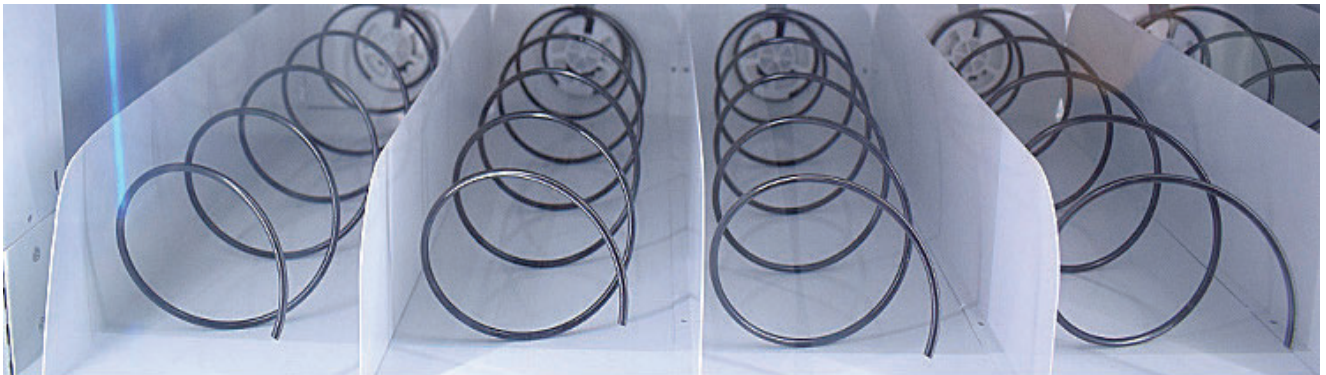
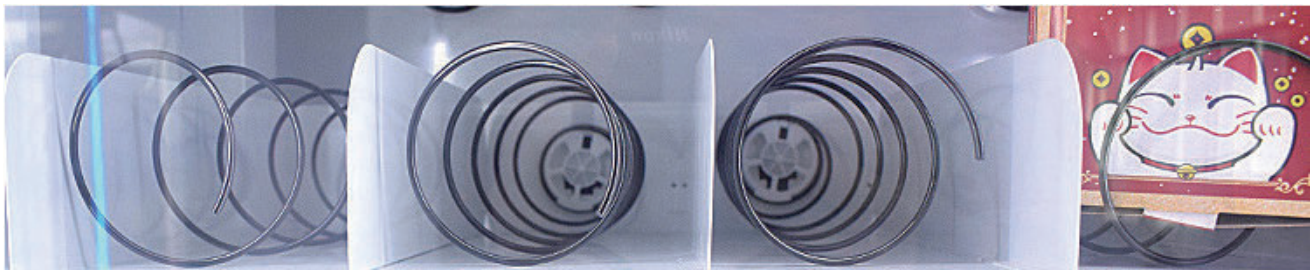
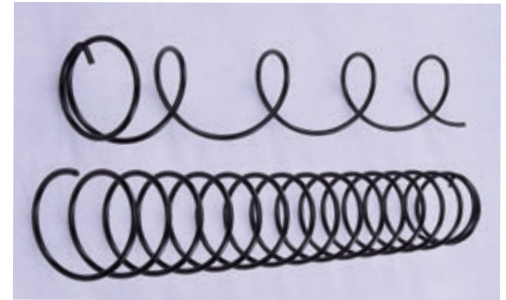
CUSTOM COIL SPRING





效果展示

PRODUCT DISPLAY



日常工作生活中自动售货机逐渐成为人们不可或缺的一部分。比如日用品小到口香糖，大到自行车等；从便宜的纸币到贵重的黄金白银。自动售货机在短短的十几年中从无到有，从小区到大市场，尤其是在互联网平台化的带动下更是发展迅猛。

自动售货机行业快速发展的同时，对自动售货机的制造也提出了更高的要求，如何智能化、互联平台化等，尤其是食品级用的自动售货机，如何保证食品安全和操作安全，更是一个重要的课题。

Vending machines in daily life work have become an indispensable part of people. For example, daily necessities are as small as chewing gum, as large as bicycles; from cheap paper money to precious gold and silver. Vending machines have grown from scratch in just over a decade, from small areas to large markets, especially driven by the Internet platform.

The rapid development of the vending machine industry has also put forward higher requirements for the manufacture of vending machines, how to be intelligent, interconnected platform, etc., especially for food-grade vending machines, how to ensure food safety and operational safety, It is an important issue.



公司在弹簧专业制造道路上拥有一支技术力量雄厚的产品研发团队，潜心研发自动售货机专业配套弹簧。作为自动售货机专业研发和制造自动售货机专用弹簧的高新技术企业，公司拥有目前国内最先进的电脑异形弹簧机、大型数控机、自动车床、及大量先进的生产检测设备与完善的产品质量体系。

Mascot has a strong technical research and development team on the spring professional manufacturing road, and has devoted itself to research and development of professional vending machine springs. As a high-tech enterprise specializing in the R&D and manufacturing of special springs for vending machines, Mascot has the most advanced computer shaped spring machine and large CNC computer. Claw machine, automatic lathe and a large number of advanced production testing equipment and perfect product quality system.





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