

STANDY®商鼎®

拥有火花机自主核心技术
专注于电加工研发和制造

Possess independent and core technologies of EDM
Be dedicated to the R&D manufacturing of Electrical Processing



拥有高性能火花机**智能算法系统著作权**
Possesses smart algorithm system software copyright of high performance EDM



技术研发实力

Technology Research and Development Strength

技术储备实力傲视群雄

Superior Technical Reserve Strength

自主核心技术软件著作权

Independent and Core Technologies Software Copyright

【国家高新技术企业】

【国家技能大赛优秀合作企业】

【火花机智能操控系统工程技术研究中心】

National High-Tech Enterprises

Excellent Cooperative Enterprise of National Skills Competition

Research Center of Smart Control System Engineering Technology of EDM

3合1智能算法高性能加工系统

3 integrate 1 intelligent algorithm high performance machining system

【镜面加工】

Mirror Series

【石墨加工】

Graphite Series

【硬质合金加工】

Hard Alloy Series

部分客户

OUR PRATNER





公司简介 COMPANY PROFILE

广东商鼎智能设备有限公司，拥有20000多平方米自有产权的生产基地，是国家高新技术企业，通过了ISO9000质量管理体系认证、CE认证，并在马德里、美国、欧盟、俄罗斯、澳大利亚、加拿大、中国和台湾省注册了商标。具有专业的研发设计团队，拥有火花机的自主核心技术及高性能火花机智能算法系统的著作权。20多年来，一直致力于专业制造电火花加工机床的技术开发和人工智能研究。

商鼎秉承“以客户为中心，以创新为己任”的企业发展观。特别在高精度、高效率的镜面火花机、石墨火花机、硬质合金火花机的控制技术上达到国际先进水平；在高难度、高精度加工方面，打破了国外产品在中国市场长期垄断的局面，摆脱了火花机市场对国外技术的依赖。商鼎还凭借自身软硬件的优势，结合烧结金刚石材料的特性，针对性地研发了适用于航空航天、半导体、光学、蓝宝石、陶瓷及玻璃外壳等方面加工的高精密度烧结金刚石加工设备。

商鼎火花机放电技术的创新突破及其专业、完善的售前售后服务，为海内外用户提供长期质量稳定、技术可靠、高性价比的智能设备和解决方案，使国内外用户体验到先进科技带来的高效率、高品质、低成本的技术成果。

STANDY SMART CO.,LTD has more than 20,000 square meters of its own property rights of the production base, is a national high-tech enterprise, STANDY pass the ISO9000 quality management system certification and CE certification, and already registered trademarks in Madrid, the United States, the European Union, Russia, Australia, Canada and China Taiwan . With a professional R & D design team, STANDY possesses independent and core technologies and smart algorithm system software copyright of high performance EDM. STANDY has been working on technology development and artificial intelligence research for more than 20 years.

STANDY adhering to the “customer-centric,innovation-oriented” business development concept,especially in high precision, high efficiency mirror of EDM ,graphite EDM and hard alloy EDM has reached the international level .In terms of high difficulty and high-precision machining, STANDY breaks the long-term monopoly situation of foreign EDM machine tools in China market and get rid of the dependence on foreign technology of EDM .

By virtue of its own hardware and software advantages, combined with the characteristics of sintered diamond materials, STANDY has developed high precision sintered diamond processing equipment suitable for aerospace, semiconductor, optics, sapphire, ceramic and glass shell processing.

Users may share our technical results,professional pre-sale and after-sale services of high efficiency and low cost due to our advanced technology. STANDY is dedicated to providing a variety of equipment with highest cost performance as well as soft solutions for users, and is striving for achieving long-term,stable and reliable guarantee.

专业专注的放电加工技术满足客户需求

STANDY商鼎强大的研发团队，整合电火花设备放电技术，满足您的需求并增强您的企业竞争力。

Professional and dedicated electric discharge processing technology are commitment to meeting the demands of clients.

STANDY, with the strong R&D team, has integrated the discharge technology of electrical discharge equipment and is capable of meeting your demands and strengthening your competitive force.

办公区

Office Area



生产车间

Production Workshop



注册商标 : STANDY 商鼎 Registered Trademark:STANDY

拥有火花机自主核心技术，专注于火花机的研发和制造

Possess independent and core technologies of EDM; Be dedicated to the R&D and manufacturing of EDM.



STANDY商鼎拥有高性能火花机智能算法系统著作权，整合高性能电火花加工技术，致力于人工智能研究方向，为客户创造更高效益。

STANDY possesses smart algorithm system software copyright of high performance EDM, Integrate the high performance electrical EDM and devote to the development direction of artificial intelligence to create more benefits for clients.

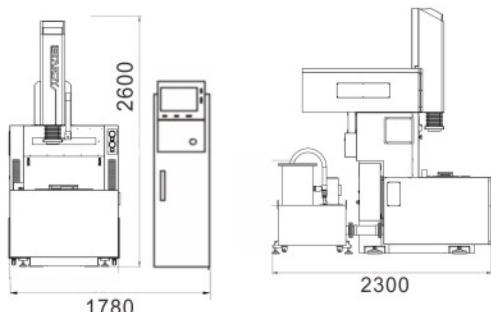
实用新型专利证书及外观设计专利证书

Patent Certificate for Utility Model and Design Patent



CNC 系列

CNC400



机型占地面积
Occupation Area of Equipment

特性 Characteristic

自动升降门结构减少设备占地面积,使操作员更方便快捷地接近加工区域;高刚性机床结构,放电过程精密跟踪监控;
拥有自动编程功能,并支持机外编程(网络传输),具备自动化网络通讯接口。

Reducing the occupation area of the equipment with elevating door, operators may conveniently and quickly approach the machining area. High rigidity machine structure, precise tracking and monitoring of discharge process; With automatic programming function, and support for off-machine programming (network transmission), with automatic network communication interface.

独特的火花控制技术 Distinctive discharge control technology

STANDY商鼎智能算法,对筋骨加工、镜面加工尤为显著。

STANDY intelligent algorithm features obvious effect for rib machining and mirror machining.

稳定的铸件系统 Stable casting system

机身采用国内稳定的铸件系统设计,配合STANDY商鼎自主研发的系统,确保精准的重复定位精度。

The machine body adopts the currently domestic most stable casting system. Combining the STANDY system, it ensures outstanding repeat position accuracy.

独到的应用技术 Original application technology

独到的脉冲电源配合STANDY商鼎系统,确保放电导致极少的电极损耗。

The original pulse power supply combining STANDY system, it ensures extremely less electrode loss during discharge.

策略生产向导,操作方便快捷 Strategy creation wizard, quick and convenient operation.

具有先进的自动化程序,减少操作员的培训时间,有经验的操作员随时将自身的经验加到NC中;STANDY商鼎系列机床允许创建自己的加工参数表,并可用在制定的新程序中保存使用。

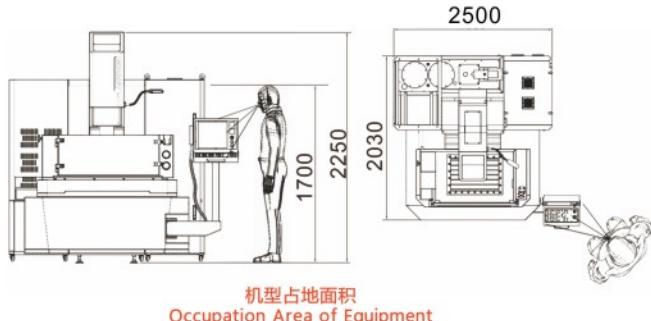
With advanced automation program, reducing the times of training operators, the operator may add own experience into NC, STANDY series machining tool allows creating own machining parameter list which can be saved and adopted in the new program.

项目	单位	CNC400
工作槽 (长*宽*高) Working slot (L*W*H)	mm	930*710*300
工作台面规格 Work table size	mm	600*500
XYZ轴工作行程 (single head)	mm	400*300*300
主轴至台面最低、高点 Lowest and highest points from main axis to the work surface	mm	250-550
最大电极重量 Max weight of electrode	kg	50
最大工作物载量 Max load for working object	kg	600
机床规格 (长*宽*高) Dimension of machine tool(L*W*H)	mm	1780*2300*2600
机床总重量 Total weight of machine tool	kg	3500
油箱容量 Tank volume	L	320
重复定位精度 Repeat positioning precision		±0.005mm 检测标准 test standard GB/T5291.1-2001



CNC 系列

CNC430



机型占地面积
Occupation Area of Equipment



特性 Characteristic

手动升降门结构减少设备占地面积,使操作员更方便快捷地接近加工区域;高刚性机床结构,放电过程精密跟踪监控;拥有自动编程功能,并支持机外编程(网络传输),具备自动化网络通讯接口。

Reducing the occupation area of the equipment with elevating door, operators may conveniently and quickly approach the machining area. High rigidity machine structure, precise tracking and monitoring of discharge process; With automatic programming function, and support for off-machine programming (network transmission), with automatic network communication interface.

独特的火花控制技术 Distinctive discharge control technology

STANDY商鼎智能算法,对筋骨加工、镜面加工尤为显著。

STANDY intelligent algorithm features obvious effect for rib machining and mirror machining.

稳定的铸件系统 Stable casting system

机身采用国内稳定的铸件系统设计,配合STANDY商鼎自主研发的系统,确保精准的重复定位精度。

The machine body adopts the currently domestic most stable casting system. Combining the STANDY system, it ensures outstanding repeat position accuracy.

独到的应用技术 Original application technology

独到的脉冲电源配合STANDY商鼎系统,确保放电导致极少的电极损耗。

The original pulse power supply combining STANDY system, it ensures extremely less electrode loss during discharge.

策略生产向导,操作方便快捷 Strategy creation wizard, quick and convenient operation.

具有先进的自动化程序,减少操作员的培训时间,有经验的操作员随时将自身的经验加到NC中;STANDY商鼎系列机床允许创建自己的加工参数表,并可用在制定的新程序中保存使用。

With advanced automation program, reducing the times of training operators, the operator may add own experience into NC, STANDY series machining tool allows creating own machining parameter list which can be saved and adopted in the new program.

项目	单位	CNC430
工作槽 (长*宽*高) Working slot (L*W*H)	mm	1000*600*390
工作台面规格 Work table size	mm	700*400
XYZ轴工作行程 (single head)	mm	450*350*300
主轴至台面最低、高点 Lowest and highest points from main axis to the work surface	mm	400-700
最大电极重量 Max weight of electrode	kg	50
最大工作物载量 Max load for working object	kg	500
机床规格 (长*宽*高) Dimension of machine tool(L*W*H)	mm	2500*2030*2250
机床总重量 Total weight of machine tool	kg	3000
油箱容量 Tank volume	L	440
重复定位精度 Repeat positioning precision		±0.005mm 检测标准 test standard GB/T5291.1-2001

CNC 系列

CNC450



特性 Characteristic

手动升降门结构减少设备占地面积,使操作员更方便快捷地接近加工区域;高刚性机床结构,放电过程精密跟踪监控;拥有自动编程功能,并支持机外编程(网络传输),具备自动化网络通讯接口。

Reducing the occupation area of the equipment with elevating door, operators may conveniently and quickly approach the machining area. High rigidity machine structure, precise tracking and monitoring of discharge process; With automatic programming function, and support for off-machine programming (network transmission), with automatic network communication interface.

独特的火花控制技术 Distinctive discharge control technology

STANDY商鼎智能算法,对筋骨加工、镜面加工尤为显著。

STANDY intelligent algorithm features obvious effect for rib machining and mirror machining.

稳定的铸件系统 Stable casting system

机身采用国内稳定的铸件系统设计,配合STANDY商鼎自主研发的系统,确保精准的重复定位精度。

The machine body adopts the currently domestic most stable casting system. Combining the STANDY system, it ensures outstanding repeat position accuracy.

独到的应用技术 Original application technology

独到的脉冲电源配合STANDY商鼎系统,确保放电导致极少的电极损耗。

The original pulse power supply combining STANDY system, it ensures extremely less electrode loss during discharge.

策略生产向导,操作方便快捷 Strategy creation wizard, quick and convenient operation.

具有先进的自动化程序,减少操作员的培训时间,有经验的操作员随时将自身的经验加到NC中;STANDY商鼎系列机床允许创建自己的加工参数表,并可用在制定的新程序中保存使用。

With advanced automation program, reducing the times of training operators, the operator may add own experience into NC, STANDY series machining tool allows creating own machining parameter list which can be saved and adopted in the new program.

项目	单位	CNC450
工作槽 (长*宽*高) Working slot (L*W*H)	mm	1000*600*380
工作台面规格 Work table size	mm	700*400
XYZ轴工作行程 XYZ axis working travel (single head)	mm	450*350*300
主轴至台面最低、高点 Lowest and highest points from main axis to the work surface	mm	400-700
最大电极重量 Max weight of electrode	kg	50
最大工作物载量 Max load for working object	kg	500
机床规格 (长*宽*高) Dimension of machine tool(L*W*H)	mm	2050*2030*2250
机床总重量 Total weight of machine tool	kg	2500
油箱容量 Tank volume	L	440
重复定位精度 Repeat positioning precision		±0.005mm 检测标准 test standard GB/T5291.1-2001

CNC 系列

CNC540



特性 Characteristic

高刚性机床结构,放电过程精密跟踪监控; 拥有自动编程功能,并支持机外编程(网络传输),具备自动化网络通讯接口。
High rigidity machine structure, precise tracking and monitoring of discharge process; With automatic programming function, and support for off-machine programming (network transmission), with automatic network communication interface.

独特的火花控制技术 Distinctive discharge control technology

STANDY商鼎智能算法,对筋骨加工、镜面加工尤为显著。
STANDY intelligent algorithm features obvious effect for rib machining and mirror machining.

稳定的铸件系统 Stable casting system

牛头式机身结构,机身采用国内稳定的铸件系统设计,配合STANDY商鼎自主研发的系统,确保精准的重复定位精度。
The Ox head machine body adopts the currently domestic most stable casting system. Combining the STANDY system, it ensures outstanding repeat position accuracy.

独到的应用技术 Original application technology

独到的脉冲电源配合STANDY商鼎系统,确保放电导致极少的电极损耗。
The original pulse power supply combining STANDY system, it ensures extremely less electrode loss during discharge.

策略生产向导,操作方便快捷 Strategy creation wizard, quick and convenient operation.

具有先进的自动化程序,减少操作员的培训时间,有经验的操作员随时将自身的经验加到NC中;STANDY商鼎系列机床允许创建自己的加工参数表,并可用在制定的新程序中保存使用。
With advanced automation program, reducing the times of training operators, the operator may add own experience into NC, STANDY series machining tool allows creating own machining parameter list which can be saved and adopted in the new program.

项目	单位	CNC540
工作槽 (长*宽*高) Working slot (L*W*H)	mm	1370*800*450
工作台面规格 Work table size	mm	850*500
XYZ轴工作行程 (single head)	mm	500*400*300
主轴至台面最低、高点 Lowest and highest points from main axis to the work surface	mm	450-750
最大电极重量 Max weight of electrode	kg	150
最大工作物载量 Max load for working object	kg	1800
机床规格 (长*宽*高) Dimension of machine tool(L*W*H)	mm	2500*2400*2800
机床总重量 Total weight of machine tool	kg	3500
油箱容量 Tank volume	L	600
重复定位精度 Repeat positioning precision		±0.005mm检测标准 test standard GB/T5291.1-2001

CNC 系列

CNC850



特性 Characteristic

高刚性机床结构,放电过程精密跟踪监控; 拥有自动编程功能,并支持机外编程(网络传输),具备自动化网络通讯接口。
High rigidity machine structure, precise tracking and monitoring of discharge process; With automatic programming function, and support for off-machine programming (network transmission), with automatic network communication interface.

独特的火花控制技术 Distinctive discharge control technology

STANDY商鼎智能算法,对筋骨加工、镜面加工尤为显著。
STANDY intelligent algorithm features obvious effect for rib machining and mirror machining.

稳定的铸件系统 Stable casting system

牛头式机身结构,机身采用国内稳定的铸件系统设计,配合STANDY商鼎自主研发的系统,确保精准的重复定位精度。
The Ox head machine body adopts the currently domestic most stable casting system. Combining the STANDY system, it ensures outstanding repeat position accuracy.

独到的应用技术 Original application technology

独到的脉冲电源配合STANDY商鼎系统,确保放电导致极少的电极损耗。
The original pulse power supply combining STANDY system, it ensures extremely less electrode loss during discharge.

策略生产向导,操作方便快捷 Strategy creation wizard, quick and convenient operation.

具有先进的自动化程序,减少操作员的培训时间,有经验的操作员随时将自身的经验加到NC中;STANDY商鼎系列机床允许创建自己的加工参数表,并可用在制定的新程序中保存使用。
With advanced automation program, reducing the times of training operators, the operator may add own experience into NC, STANDY series machining tool allows creating own machining parameter list which can be saved and adopted in the new program.

项目	单位	CNC850
工作槽 (长*宽*高) Working slot (L*W*H)	mm	1800*1100*600
工作台面规格 Work table size	mm	1050*600
XYZ轴工作行程 (single head)	mm	800*500*400
主轴至台面最低、高点 Lowest and highest points from main axis to the work surface	mm	500-900
最大电极重量 Max weight of electrode	kg	200
最大工作物载量 Max load for working object	kg	3000
机床规格 (长*宽*高) Dimension of machine tool(L*W*H)	mm	2900*2900*3000
机床总重量 Total weight of machine tool	kg	5000
油箱容量 Tank volume	L	1200
重复定位精度 Repeat positioning precision	±0.005mm检测标准 test standard GB/T5291.1-2001	

CNC 系列

CNC1260



机型占地面积
Occupation Area of Equipment



特性 Characteristic

高刚性机床结构,放电过程精密跟踪监控; 拥有自动编程功能,并支持机外编程(网络传输),具备自动化网络通讯接口。
High rigidity machine structure, precise tracking and monitoring of discharge process; With automatic programming function, and support for off-machine programming (network transmission), with automatic network communication interface.

独特的火花控制技术 Distinctive discharge control technology

STANDY商鼎智能算法,对筋骨加工、镜面加工尤为显著。
STANDY intelligent algorithm features obvious effect for rib machining and mirror machining.

稳定的铸件系统 Stable casting system

牛头式机身结构,机身采用国内稳定的铸件系统设计,配合STANDY商鼎自主研发的系统,确保精准的重复定位精度。
The Ox head machine body adopts the currently domestic most stable casting system. Combining the STANDY system, it ensures outstanding repeat position accuracy.

独到的应用技术 Original application technology

独到的脉冲电源配合STANDY商鼎系统,确保放电导致极少的电极损耗。
The original pulse power supply combining STANDY system, it ensures extremely less electrode loss during discharge.

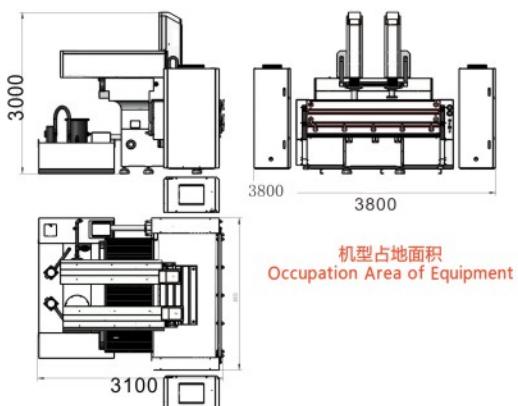
策略生产向导,操作方便快捷 Strategy creation wizard, quick and convenient operation.

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With advanced automation program, reducing the times of training operators, the operator may add own experience into NC, STANDY series machining tool allows creating own machining parameter list which can be saved and adopted in the new program.

项目	单位	CNC1260
工作槽 (长*宽*高) Working slot (L*W*H)	mm	2000*1300*700
工作台面规格 Work table size	mm	1250*800
XYZ轴工作行程 (single head)	mm	1200*600*450
主轴至台面最低、高点 Lowest and highest points from main axis to the work surface	mm	550-1000
最大电极重量 Max weight of electrode	kg	300
最大工作物载量 Max load for working object	kg	3500
机床规格 (长*宽*高) Dimension of machine tool(L*W*H)	mm	3530*3400*3370
机床总重量 Total weight of machine tool	kg	6000
油箱容量 Tank volume	L	1200
重复定位精度 Repeat positioning precision		±0.005mm检测标准 test standard GB/T5291.1-2001

CNC 系列

CNC1250



特性 Characteristic

放电过程精密跟踪监控;拥有自动编程功能,并支持机外编程(网络传输),具备自动化网络通讯接口。

Precise tracking and monitoring of discharge process; With automatic programming function, and support for off-machine programming (network transmission), with automatic network communication interface.

独特的火花控制技术 Distinctive discharge control technology

STANDY商鼎智能算法,对筋骨加工、镜面加工尤为显著。

STANDY intelligent algorithm features obvious effect for rib machining and mirror machining.

稳定的铸件系统 Stable casting system

牛头式机身结构,机身采用国内稳定的铸件系统设计,配合STANDY商鼎自主研发的系统,确保精准的重复定位精度。

The Ox head machine body adopts the currently domestic most stable casting system. Combining the STANDY system, it ensures outstanding repeat position accuracy.

独到的应用技术 Original application technology

独到的脉冲电源配合STANDY商鼎系统,确保放电导致极少的电极损耗。

The original pulse power supply combining STANDY system, it ensures extremely less electrode loss during discharge.



双牛头式三轴数控移动方式

Ox head type 3-axis numerical controlled movement

采用固定工作台设计,并采用完全箱型设计,高密度多层肋骨补强确保重负荷时机台不变形;三轴采用进口线性导轨和高精密丝杆确保高精度。

With fixed work table and complete box shape combining the high density and multi-layer rib reinforcement, it prevents deformation of machine under heavy load. Three axes adopt imported linear guide rail and high precision screw to ensure high precision.

策略生产向导,操作方便快捷

Strategy creation wizard, quick and convenient operation.

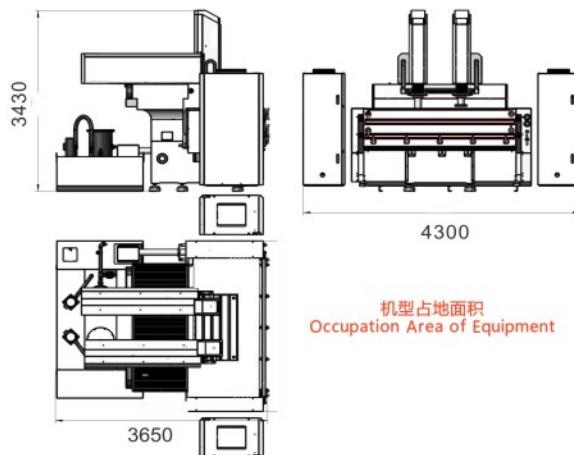
具有先进的自动化程序,减少操作员的培训时间,有经验的操作员随时将自身的经验加到NC中;STANDY商鼎系列机床允许创建自己的加工参数表,并可用在制定的新程序中保存使用。

With advanced automation program, reducing the times of training operators, the operator may add own experience into NC, STANDY series machining tool allows creating own machining parameter list which can be saved and adopted in the new program.

项目	单位	CNC1250
工作槽 (长*宽*高) Working slot (L*W*H)	mm	2200*1200*590
工作台面规格 Work table size	mm	1200*700
XYZ轴工作行程 (单头) XYZ axis working travel (single head)	mm	1200*500*400
XYZ轴工作行程 (双头) XYZ axis working travel (double head)	mm	600*500*400
主轴至台面最低、高点 Lowest and highest points from main axis to the work surface	mm	500-900
最大电极重量 Max weight of electrode	kg	150
最大工作物载量 Max load for working object	kg	3500
机床规格 (长*宽*高) Dimension of machine tool(L*W*H)	mm	3800*3100*3000
机床总重量 Total weight of machine tool	kg	单 (Single) 6000/双 (Double) 7000
油箱容量 Tank volume	L	1350
重复定位精度 Repeat positioning precision		±0.005mm 检测标准 test standard GB/T5291.1-2001

CNC 系列

CNC1470



特性 Characteristic

放电过程精密跟踪监控;拥有自动编程功能,并支持机外编程(网络传输),具备自动化网络通讯接口。

Precise tracking and monitoring of discharge process; With automatic programming function, and support for off-machine programming (network transmission), with automatic network communication interface.

独特的火花控制技术 Distinctive discharge control technology

STANDY商鼎智能算法,对筋骨加工、镜面加工尤为显著。

STANDY intelligent algorithm features obvious effect for rib machining and mirror machining.

稳定的铸件系统 Stable casting system

牛头式机身结构,机身采用国内稳定的铸件系统设计,配合STANDY商鼎自主研发的系统,确保精准的重复定位精度。

The Ox head machine body adopts the currently domestic most stable casting system. Combining the STANDY system, it ensures outstanding repeat position accuracy.

独到的应用技术 Original application technology

独到的脉冲电源配合STANDY商鼎系统,确保放电导致极少的电极损耗。

The original pulse power supply combining STANDY system, it ensures extremely less electrode loss during discharge.



双牛头式三轴数控移动方式

Ox head type 3-axis numerical controlled movement

采用固定工作台设计,并采用完全箱型设计,高密度多层肋骨补强确保重负荷时机台不变形;三轴采用进口线性导轨和高精密丝杆确保高精度。

With fixed work table and complete box shape combining the high density and multi-layer rib reinforcement, it prevents deformation of machine under heavy load. Three axes adopt imported linear guide rail and high precision screw to ensure high precision.

策略生产向导,操作方便快捷

Strategy creation wizard, quick and convenient operation.

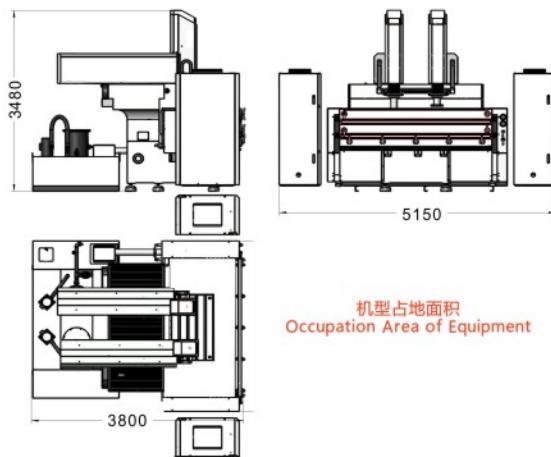
具有先进的自动化程序,减少操作员的培训时间,有经验的操作员随时将自身的经验加到NC中;STANDY商鼎系列机床允许创建自己的加工参数表,并可用在制定的新程序中保存使用。

With advanced automation program, reducing the times of training operators, the operator may add own experience into NC, STANDY series machining tool allows creating own machining parameter list which can be saved and adopted in the new program.

项目	单位	CNC1470
工作槽 (长*宽*高) Working slot (L*W*H)	mm	2500*1300*700
工作台面规格 Work table size	mm	1500*900
XYZ轴工作行程 (单头) XYZ axis working travel (single head)	mm	1400*700*500
XYZ轴工作行程 (双头) XYZ axis working travel (double head)	mm	850*700*500
主轴至台面最低、高点 Lowest and highest points from main axis to the work surface	mm	600-1100
最大电极重量 Max weight of electrode	kg	400
最大工作物载量 Max load for working object	kg	6000
机床规格 (长*宽*高) Dimension of machine tool(L*W*H)	mm	4300*3650*3430
机床总重量 Total weight of machine tool	kg	单 (Single) 8800/双 (Double) 9500
油箱容量 Tank volume	L	1200
重复定位精度 Repeat positioning precision		±0.005mm 检测标准 test standard GB/T5291.1-2001

CNC 系列

CNC1880



特性 Characteristic

放电过程精密跟踪监控;拥有自动编程功能,并支持机外编程(网络传输),具备自动化网络通讯接口。

Precise tracking and monitoring of discharge process; With automatic programming function, and support for off-machine programming (network transmission), with automatic network communication interface.

独特的火花控制技术 Distinctive discharge control technology

STANDY商鼎智能算法,对筋骨加工、镜面加工尤为显著。STANDY intelligent algorithm features obvious effect for rib machining and mirror machining.

稳定的铸件系统 Stable casting system

牛头式机身结构,机身采用国内稳定的铸件系统设计,配合STANDY商鼎自主研发的系统,确保精准的重复定位精度。

The Ox head machine body adopts the currently domestic most stable casting system. Combining the STANDY system, it ensures outstanding repeat position accuracy.

独到的应用技术 Original application technology

独到的脉冲电源配合STANDY商鼎系统,确保放电导致极少的电极损耗。

The original pulse power supply combining STANDY system, it ensures extremely less electrode loss during discharge.



双牛头式三轴数控移动方式

Ox head type 3-axis numerical controlled movement

采用固定工作台设计,并采用完全箱型设计,高密度多层肋骨补强确保重负荷时机台不变形;三轴采用进口线性导轨和高精密丝杆确保高精度。

With fixed work table and complete box shape combining the high density and multi-layer rib reinforcement, it prevents deformation of machine under heavy load. Three axes adopt imported linear guide rail and high precision screw to ensure high precision.

策略生产向导,操作方便快捷

Strategy creation wizard, quick and convenient operation.

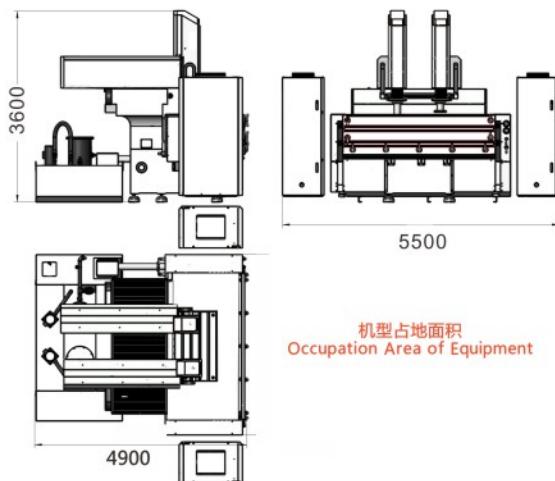
具有先进的自动化程序,减少操作员的培训时间,有经验的操作员随时将自身的经验加到NC中;STANDY商鼎系列机床允许创建自己的加工参数表,并可用在制定的新程序中保存使用。

With advanced automation program, reducing the times of training operators, the operator may add own experience into NC, STANDY series machining tool allows creating own machining parameter list which can be saved and adopted in the new program.

项目	单位	CNC1880
工作槽 (长*宽*高) Working slot (L*W*H)	mm	3500*1600*700
工作台面规格 Work table size	mm	2000*1000
XYZ轴工作行程 (单头) XYZ axis working travel (single head)	mm	1800*700*600
XYZ轴工作行程 (双头) XYZ axis working travel (double head)	mm	1050*700*600
主轴至台面最低、高点 Lowest and highest points from main axis to the work surface	mm	500-1100
最大电极重量 Max weight of electrode	kg	400
最大工作物载量 Max load for working object	kg	8000
机床规格 (长*宽*高) Dimension of machine tool(L*W*H)	mm	5150*3800*3480
机床总重量 Total weight of machine tool	kg	单 (Single) 15000/双 (Double) 17000
油箱容量 Tank volume	L	2160
重复定位精度 Repeat positioning precision		±0.005mm 检测标准 test standard GB/T5291.1-2001

CNC 系列

CNC2110



机型占地面积
Occupation Area of Equipment



特性 Characteristic

放电过程精密跟踪监控;拥有自动编程功能,并支持机外编程(网络传输),具备自动化网络通讯接口。

Precise tracking and monitoring of discharge process; With automatic programming function, and support for off-machine programming (network transmission), with automatic network communication interface.

独特的火花控制技术 Distinctive discharge control technology

STANDY商鼎智能算法,对筋骨加工、镜面加工尤为显著。STANDY intelligent algorithm features obvious effect for rib machining and mirror machining.

稳定的铸件系统 Stable casting system

牛头式机身结构,机身采用国内稳定的铸件系统设计,配合STANDY商鼎自主研发的系统,确保精准的重复定位精度。

The Ox head machine body adopts the currently domestic most stable casting system. Combining the STANDY system, it ensures outstanding repeat position accuracy.

独到的应用技术 Original application technology

独到的脉冲电源配合STANDY商鼎系统,确保放电导致极少的电极损耗。

The original pulse power supply combining STANDY system, it ensures extremely less electrode loss during discharge.

双牛头式三轴数控移动方式

Ox head type 3-axis numerical controlled movement

采用固定工作台设计,并采用完全箱型设计,高密度多层肋骨补强确保重负荷时机台不变形;三轴采用进口线性导轨和高精密丝杆确保高精度。

With fixed work table and complete box shape combining the high density and multi-layer rib reinforcement, it prevents deformation of machine under heavy load. Three axes adopt imported linear guide rail and high precision screw to ensure high precision.

策略生产向导,操作方便快捷

Strategy creation wizard, quick and convenient operation.

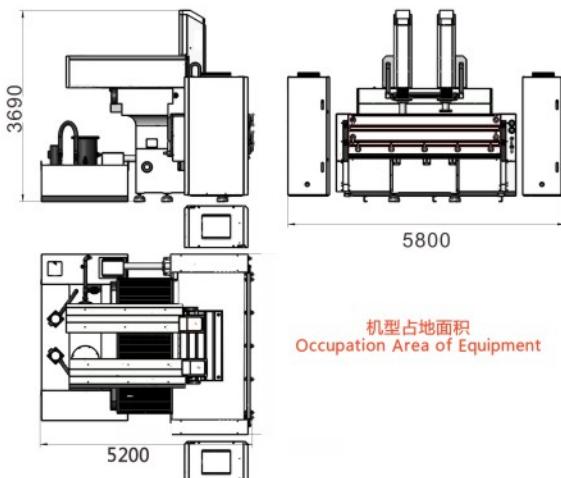
具有先进的自动化程序,减少操作员的培训时间,有经验的操作员随时将自身的经验加到NC中;STANDY商鼎系列机床允许创建自己的加工参数表,并可用在制定的新程序中保存使用。

With advanced automation program, reducing the times of training operators, the operator may add own experience into NC, STANDY series machining tool allows creating own machining parameter list which can be saved and adopted in the new program.

项目	单位	CNC2110
工作槽 (长*宽*高) Working slot (L*W*H)	mm	3500*1800*850
工作台面规格 Work table size	mm	2500*1200
XYZ轴工作行程 (单头) XYZ axis working travel (single head)	mm	2300*900*600
XYZ轴工作行程 (双头) XYZ axis working travel (double head)	mm	1450*900*600
主轴至台面最低、高点 Lowest and highest points from main axis to the work surface	mm	650-1250
最大电极重量 Max weight of electrode	kg	450
最大工作物载量 Max load for working object	kg	8000
机床规格 (长*宽*高) Dimension of machine tool(L*W*H)	mm	5500*4900*3600
机床总重量 Total weight of machine tool	kg	单 (Single) 15500/双 (Double) 17500
油箱容量 Tank volume	L	2000
重复定位精度 Repeat positioning precision		±0.005mm 检测标准 test standard GB/T5291.1-2001

CNC 系列

CNC2510



机型占地面积
Occupation Area of Equipment



特性 Characteristic

放电过程精密跟踪监控;拥有自动编程功能,并支持机外编程(网络传输),具备自动化网络通讯接口。

Precise tracking and monitoring of discharge process; With automatic programming function, and support for off-machine programming (network transmission), with automatic network communication interface.

独特的火花控制技术 Distinctive discharge control technology

STANDY商鼎智能算法,对筋骨加工、镜面加工尤为显著。
STANDY intelligent algorithm features obvious effect for rib machining and mirror machining.

稳定的铸件系统 Stable casting system

牛头式机身结构,机身采用国内稳定的铸件系统设计,配合STANDY商鼎自主研发的系统,确保精准的重复定位精度。

The Ox head machine body adopts the currently domestic most stable casting system. Combining the STANDY system, it ensures outstanding repeat position accuracy.

独到的应用技术 Original application technology

独到的脉冲电源配合STANDY商鼎系统,确保放电导致极少的电极损耗。

The original pulse power supply combining STANDY system, it ensures extremely less electrode loss during discharge.

双牛头式三轴数控移动方式

Ox head type 3-axis numerical controlled movement

采用固定工作台设计,并采用完全箱型设计,高密度多层肋骨补强确保重负荷时机台不变形;三轴采用进口线性导轨和高精密丝杆确保高精度。

With fixed work table and complete box shape combining the high density and multi-layer rib reinforcement, it prevents deformation of machine under heavy load. Three axes adopt imported linear guide rail and high precision screw to ensure high precision.

策略生产向导,操作方便快捷

Strategy creation wizard, quick and convenient operation.

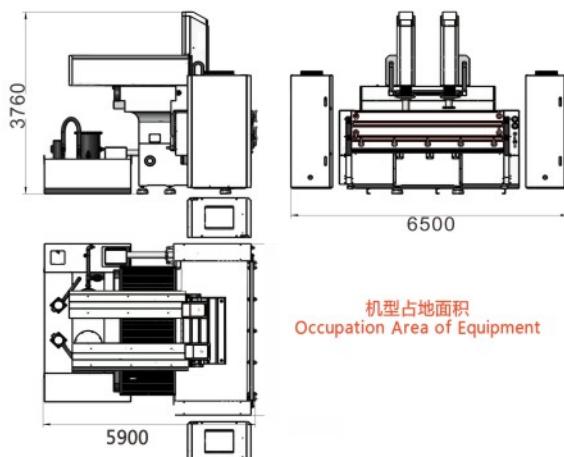
具有先进的自动化程序,减少操作员的培训时间,有经验的操作员随时将自身的经验加到NC中;STANDY商鼎系列机床允许创建自己的加工参数表,并可用在制定的新程序中保存使用。

With advanced automation program, reducing the times of training operators, the operator may add own experience into NC, STANDY series machining tool allows creating own machining parameter list which can be saved and adopted in the new program.

项目	单位	CNC2510
工作槽 (长*宽*高) Working slot (L*W*H)	mm	3800*1800*850
工作台面规格 Work table size	mm	2700*1200
XYZ轴工作行程 (单头) XYZ axis working travel (single head)	mm	2500*900*600
XYZ轴工作行程 (双头) XYZ axis working travel (double head)	mm	1750*900*600
主轴至台面最低、高点 Lowest and highest points from main axis to the work surface	mm	650-1250
最大电极重量 Max weight of electrode	kg	450
最大工作物载量 Max load for working object	kg	10000
机床规格 (长*宽*高) Dimension of machine tool(L*W*H)	mm	5800*5200*3690
机床总重量 Total weight of machine tool	kg	单 (Single) 17000/双 (Double) 19500
油箱容量 Tank volume	L	2000
重复定位精度 Repeat positioning precision		±0.005mm 检测标准 test standard GB/T5291.1-2001

CNC 系列

CNC3010



特性 Characteristic

放电过程精密跟踪监控;拥有自动编程功能,并支持机外编程(网络传输),具备自动化网络通讯接口。

Precise tracking and monitoring of discharge process; With automatic programming function, and support for off-machine programming (network transmission), with automatic network communication interface.

独特的火花控制技术 Distinctive discharge control technology

STANDY商鼎智能算法,对筋骨加工、镜面加工尤为显著。STANDY intelligent algorithm features obvious effect for rib machining and mirror machining.

稳定的铸件系统 Stable casting system

牛头式机身结构,机身采用国内稳定的铸件系统设计,配合STANDY商鼎自主研发的系统,确保精准的重复定位精度。The Ox head machine body adopts the currently domestic most stable casting system. Combining the STANDY system, it ensures outstanding repeat position accuracy.

独到的应用技术 Original application technology

独到的脉冲电源配合STANDY商鼎系统,确保放电导致极少的电极损耗。

The original pulse power supply combining STANDY system, it ensures extremely less electrode loss during discharge.



双牛头式三轴数控移动方式

Ox head type 3-axis numerical controlled movement

采用固定工作台设计,并采用完全箱型设计,高密度多层肋骨补强确保重负荷时机台不变形;三轴采用进口线性导轨和高精密丝杆确保高精度。

With fixed work table and complete box shape combining the high density and multi-layer rib reinforcement, it prevents deformation of machine under heavy load. Three axes adopt imported linear guide rail and high precision screw to ensure high precision.

策略生产向导,操作方便快捷

Strategy creation wizard, quick and convenient operation.

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项目	单位	CNC3010
工作槽 (长*宽*高) Working slot (L*W*H)	mm	4500*1800*800
工作台面规格 Work table size	mm	3200*1200
XYZ轴工作行程 (单头) XYZ axis working travel (single head)	mm	3000*900*600
XYZ轴工作行程 (双头) XYZ axis working travel (double head)	mm	2400*900*600
主轴至台面最低、高点 Lowest and highest points from main axis to the work surface	mm	700-1300
最大电极重量 Max weight of electrode	kg	450
最大工作物载量 Max load for working object	kg	15000
机床规格 (长*宽*高) Dimension of machine tool(L*W*H)	mm	6500*5900*3760
机床总重量 Total weight of machine tool	kg	单 (Single) 23000/双 (Double) 25000
油箱容量 Tank volume	L	2000
重复定位精度 Repeat positioning precision		±0.005mm 检测标准 test standard GB/T5291.1-2001

ZNC 系列

ZNC430



机型占地面积
Occupation Area of Equipment



特性 Characteristic

单轴无粉镜面加工，高效率石墨电极加工。

Single axis powderless mirror processing, high efficiency graphite electrode processing

持续的稳定性 Constant stability

机床Z轴采用三菱AC伺服马达，进口C3级滚珠丝杆。

The Z axis of the machine tool adopts Mitsubishi AC servo motor with imported grade C3 ball screw.

完善的放电系统 Complete discharge system

高品质电火花专家控制器，保证机台在放电过程中发挥高效稳定作用。

High quality EDM expert controller ensures that the machine plays an efficient and stable role in discharge process.

效率高 High efficiency

精加工时比普通火花机速度快2-3倍。

Speed for finish machining is 2-3 times faster than common electric discharge machine.

操作简洁的系统界面，操作简单方便、快捷！

With concise system interface, the product features excellent operation.

项目	单位	ZNC430
工作槽 (长*宽*高) Working slot (L*W*H)	mm	1200*650*450
工作台面规格 Work table size	mm	700*400
XYZ轴工作行程 XYZ axis working travel	mm	400*300*200
二次行程 Twice working travel	mm	200
主轴至台面最低、高点 Lowest and highest points from main axis to the work surface	mm	400-600
最大电极重量 Max weight of electrode	kg	150
最大工作物载量 Max load for working object	kg	1000
机床规格 (长*宽*高) Dimension of machine tool(L*W*H)	mm	2750*1730*2400
机床总重量 Total weight of machine tool	kg	1800
油箱容量 Tank volume	L	480
重复定位精度 Repeat positioning precision		±0.005mm 检测标准 test standard GB/T5291.1-2001

ZNC 系列

ZNC540



特性 Characteristic

单轴无粉镜面加工，高效率石墨电极加工。

Single axis powderless mirror processing, high efficiency graphite electrode processing

持续的稳定性 Constant stability

机床Z轴采用三菱AC伺服马达，进口C3级滚珠丝杆。

The Z axis of the machine tool adopts Mitsubishi AC servo motor with imported grade C3 ball screw.

完善的放电系统 Complete discharge system

高品质电火花专家控制器，保证机台在放电过程中发挥高效稳定作用。

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Speed for finish machining is 2-3 times faster than common electric discharge machine.

操作简洁的系统界面，操作简单方便、快捷！

With concise system interface, the product features excellent operation.

项目	单位	ZNC540
工作槽 (长*宽*高) Working slot (L*W*H)	mm	1250*750*480
工作台面规格 Work table size	mm	800*500
XYZ轴工作行程 XYZ axis working travel	mm	500*400*200
二次行程 Twice working travel	mm	300
主轴至台面最低、高点 Lowest and highest points from main axis to the work surface	mm	400-700
最大电极重量 Max weight of electrode	kg	150
最大工作物载量 Max load for working object	kg	1300
机床规格 (长*宽*高) Dimension of machine tool(L*W*H)	mm	3080*1910*2450
机床总重量 Total weight of machine tool	kg	2200
油箱容量 Tank volume	L	480
重复定位精度 Repeat positioning precision		±0.005mm 检测标准 test standard GB/T5291.1-2001

STANDY商鼎系统

STANDY商鼎智能控制系统

全机操控采用智能算法系统，使操作更方便。

拥有火花机自主核心技术
专注火花机的研发和制造

STANDY Intelligent Control System

The operation and control of the whole machine adopts intelligent algorithm software, and features more convenient operation.

Posses Independent and Core Technologies of EDM
Be dedicated to the R&D and manufacturing of EDM



标准参数修改功能 Standard parameter modifying function

方便手动编程，
可直接读取里面的参数。
Convenient for manual programming,
directly reading the parameters .

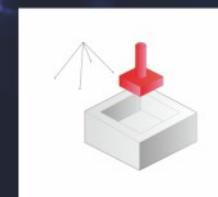
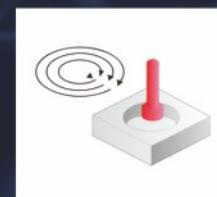
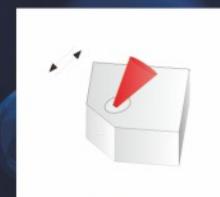
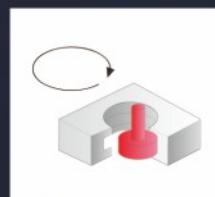
手动分中功能 Manual centred function

方便电极分波珠使用，
操作简单，记忆超准。
Convenient for separating bead by
electrode with simple operation and
accurate memory.

自动分中功能 Automatic centred function

节约时间，人工。
Save times and reduce labor
costs.

加工模式 Machining mode



镜面加工 Mirror Series

模具有工作室高端机型，采用专用的镜面加工回路，无粉镜面加工。超镜面、高镜面、超精边、超清角；高效加工，主轴抬刀速度最大可达10m/min，高速抬刀能有效排除杂质，实现高效的稳定放电和表面的高质量。

As the high-end model for mould workshops, it adopts special mirror machining circuit with powderless mirror machining, and features ultra-precise surface, high mirror, ultra-precise edge, super clear angle and effective machining. The cutting lifting speed of the main axis reaches 10m/min, and the high speed cutter lifting is capable of effectively removing impurity, achieving effective and stable discharge as well as high quality surface.

石墨加工 Graphite Series

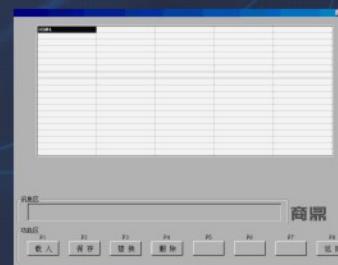
模具有工作室高效机型，采用专用的石墨加工回路，高速粗加工较铜快3倍，高速精加工较铜快5倍，可加工性好，能实现复杂的几何造型，重量轻，密度不足铜的1/4，电极容易夹持，可减少单个电极的数量，可捆绑做成组合电极。

As the effective model for mould workshops, it adopts special graphite machining circuit with the high speed coarse machining 3 times faster than copper, and high speed finish machining 5 times faster than copper. The product features machinability, and is capable of achieving complicated geometric shape with light weight, its density is less than 1/4 of copper, which is easy for clamping with electrode, and can reduce the amount of single electrodes since they can be bundled as the combined electrode.

硬质合金加工 Hard Alloy Series

模具有工作室高端机型，采用专用的硬质合金加工回路，无裂痕超硬加工，超精加工低电极消耗；单一结构的底部采用高级铸铁，无变形，适合高密度的模具加工。

As the high-end model for mould workshops, it adopts special hard alloy machining circuit with crackless and ultra-high machining, and features ultra-precise machining and low electrode consumption, the bottom of single structure is made of high grade casting iron without deformation, and is suitable for machining moulds of high precision.



放电分中功能 Discharge centered function

方便电极直接分工件，不会产生有毛刺的情况。

Convenient for electrode to separate the workpiece without causing burr.

步距功能 Pitch function

提高编程速度和准确率，让操作员更准确编辑，方便加工移位数据一样的多位置模具。

Improving the speed and accuracy of programming, it is clear when observing by the operator, which is convenient for machining the multi-position mould as displacement data.

文件保存功能 Filed saving function

方便复式模加工，修模加工。

Convenient for machining multiple moulds and trimming mould.

自动编程功能 Automatic programming function

方便编程快、准，不容易出错。
Quick and accurate programming, avoiding mistake.

终身免费系统升级，我们提供最新的技术，以帮您应对变化的世界！

Lifecycle system upgrade without charge, we provide you with latest technology for coping with the changing word!

全系机型标准配置

Standard configuration for all models of the series

基于成功的创新设计、创新功能

我们的解决方案可以提高加工性能和生产效率，使加工稳定可靠。

Basing on successful innovative design and innovative function,our solution is capable of improving the machining performance and productivity ,and ensuring stable and reliable machining.





HIWIN
PMI

Rexroth
Bosch Group

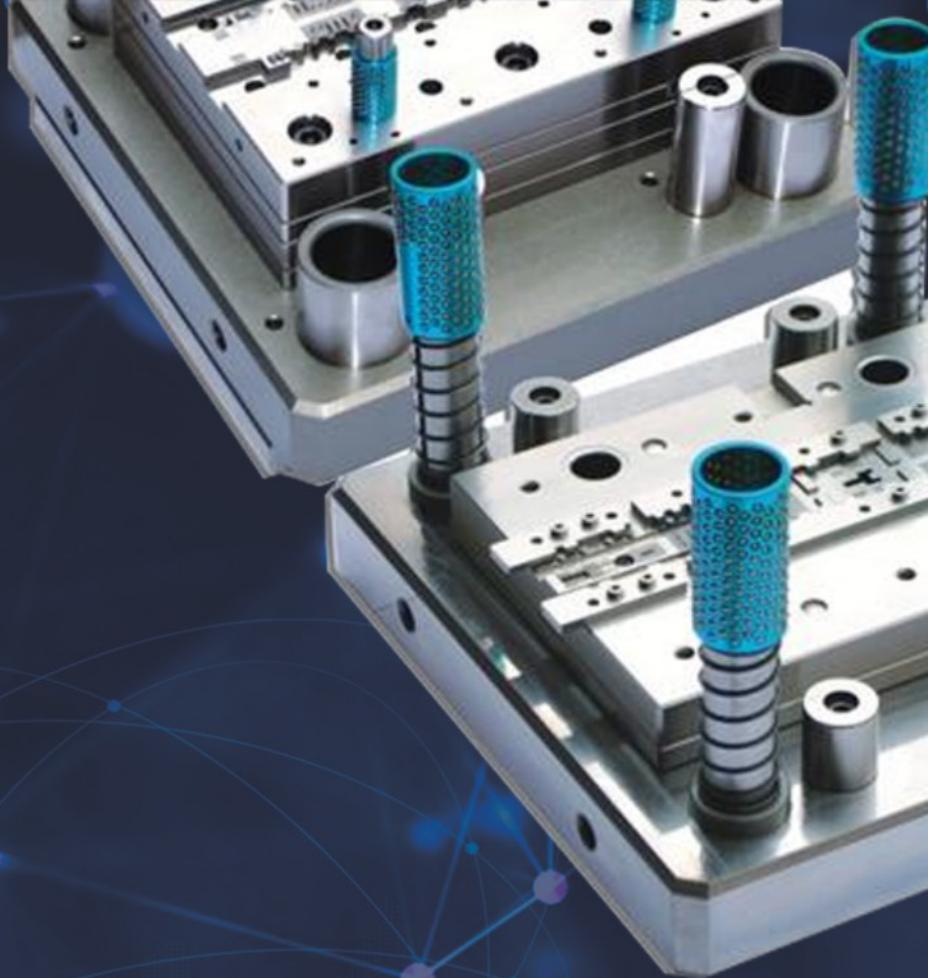


大理石工作台结构
提供长时间使用的
精度稳定性。

Marble table structure
provides precision stability
for long time use.

全系机型采用进口激光干涉仪调试，
确保每一台机器出厂前的最佳精度。

All models are commissioned with imported laser
interferometer to ensure the best precision for
each machine tool before delivery.



选配配置

Optional configuration



稳压器
Voltage stabilizer



高品质镜面火花油
High quality mirror spark oil



高性能油温控制设备
High performance oil temperature control device



刀库 (4T/8T/12T)
Tool storage

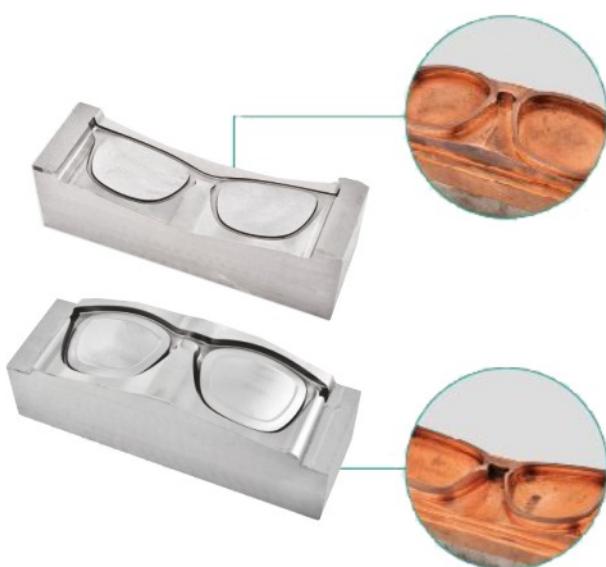


C轴
C-axis

加工实例



工艺 Technology	圆形深腔镜面加工 Round Deep Cavity Mirror Machining	方形深腔镜面加工 Square Deep Cavity Mirror Machining	深腔镜面加工 Deep Cavity Mirror Machining
电极 Electrode	铜 copper	铜 copper	铜 copper
工件 Workpiece	S136H	S136H	S136H
尺寸 Size	Ø40 S=1256MM	40*40*8	80*10*6
加工时间 Machining Time	4h45min	6h	4h
表面粗糙度 Surface Roughness	VDI=RA0.1	VDI=RA0.1	VDI=RA0.1



眼镜前后框镜面加工 Spectacle Frame Front and Rear Film Mirror Machining	
使用机型 Applicable Model	CNC 430
电极 Electrode	铜 copper
工件 Workpiece	S136H
尺寸 Size	130*40mm
加工时间 Machining Time	10h/12h
表面粗糙度 Surface Roughness	Ra0.1

加工实例



石墨电极
Graphite Electrode

直径 Diameter	290*195mm
加工时间 Machining Time	24h
表面粗糙度 Surface Roughness	VDI22号纹 VDI#22 texture

石墨电极
Graphite Electrode

直径 Diameter	398mm
加工时间 Machining Time	39h
表面粗糙度 Surface Roughness	VDI25号纹 VDI#25 texture



石墨电极加工
Graphite Electrode Machining

机型 Model	CNC400 (圆骨/Round Rib)	CNC400 (深骨/Deep Rib)
电极 Electrode	石墨 Graphite	石墨 Graphite
加工深度 Machining Depth	11.84	43.84
尺寸 Size	75*66*35	68*43*70
加工时间 Machining Time	3h8min(粗/Rough) 2h15min(精/Fine)	7h15min(粗/Rough) 4h(精/Fine)
表面粗糙度 Surface Roughness	Ra4.5(粗/Rough) Ra1.0(精/Fine)	Ra4.5(粗/Rough) Ra1.0(精/Fine)

石墨深腔骨位加工
Graphite Deep Cavity Rib Machining

机型 Model	CNC540 (长骨/Long Rib)	CNC540 (短骨/Short Rib)
电极 Electrode	石墨 Graphite	石墨 Graphite
加工深度 Machining Depth	40	20
尺寸 Size	29*2*45	20*1*25
加工时间 Machining Time	5h10min	1h10min
表面粗糙度 Surface Roughness	VDI=21号纹 VDI#21 texture	

EDM 表面粗糙度标准

EDM surface roughness standard

EDM 加工不同的加工部位的粗糙度标准

Roughness standard for different machining parts with EDM

1、封胶位：加工表面粗糙度Ra2.20μm（即国家标准E4级与E5级之间或CH27）

2、插穿、碰穿面：加工到表面粗糙度Ra3.2μm（即国家标准E5级或CH30）

3、配合位：加工到表面粗糙度Ra1.6μm（即国家标准E4级或CH24）

4、胶位面：表面粗糙度，按下表加工

1.Sealant position: surface roughness Ra2.20 μ m(national standard Grade E4 to Grade E5 or CH27)

2.Shutoff/kissoff surface: to surface roughness Ra3.2 μ m(national standard Grade E5 or CH30)

3.Fit position: to surface roughness Ra1.6 μ m(national standard Grade E4 or CH24)

4.Material level: surface roughness is subject to form below

产品表面要求 Product surface requirements	砂纸抛光 Sandpaper polishing	钻石膏抛光 Diamond Paste polishing	火花纹 Spark pattern
EDM加工要求 Requirement on EDM machining	Ra2.2 (E4-E5之间或CH27)	RD (E4或CH4)	按产品要求大两级CH加工 Two grade higher according to the product requirement with CH machining.

注：加工面积200cm²以上时可加大一级E等级粗糙度加工

5、骨位：表面粗糙度Ra1.6μm左右（即国家标准E4级或CH24）

6、避空位：表面粗糙度Ra6.4-Ra12.5μm（即国家标准E9级与E10级之间或CH36-CH41）

Note: when the processing area is over 200cm²,the roughness is one grade higher to grade E.

Rib:surface roughness is about Ra1.6 μ m (national standard Grade E4 or CH24)

Clearance position:surface roughness ranges Ra6.4-Ra12.5 μ m (national standard Grade E9 to Grade E10 or CH36-CH41)

商鼎火花机参考的放电加工参数

Reference electrodischarge machining parameters for STANDY electrical discharge machine

Ra值 Ra value	电极材料 Material of electrode	电流序号 Current sequence	脉宽 Pulse width	休止 Stop	高压 High voltage	工时 Working hours	升高 Rising	间隙 Clearance	速度 Speed
Ra0.10 CH0	铜 copper	401	1	1	3	15	5	1	5
Ra0.8 CH18	铜 copper	1	20	20	3	6	10	6	50
	石墨 graphite	201	20	25	3	6	10	2	50
Ra1.25 CH22	铜 copper	2	30	20	3	6	10	6	50
	石墨 graphite	202	25	30	3	6	10	2	50
Ra2.2 CH27	铜 copper	3	60	20	0	6	10	7	50
	石墨 graphite	203	30	30	0	6	10	6	50
Ra3.2 CH30	铜 copper	4	70	20	0	7	10	8	50
	石墨 graphite	204	40	30	0	7	10	6	50
Ra4.0 CH32	铜 copper	5	80	20	0	8	10	8	50
	石墨 graphite	205	50	30	0	8	10	6	50

STANDY® 商鼎

深腔骨位电加工找商鼎火花机

Deep Cavity Rib Machining Choose STANDY



Indian Exclusive Partner

WE ARE YOUR RELIABLE MACHINE TOOL PARTNER

Krish Mechatronics
Be Inspired

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