



合作成功

莞深地区: 报修后, 6小时内到达现场维修
省内: 12小时内给出维修方案, 24小时内上门维修
省外: 12小时内给出维修方案, 24小时内上门维修

Sowin 硕方



深圳市硕方精密机械有限公司
Shenzhen Sowin Precision Machine Tool Co., Ltd.

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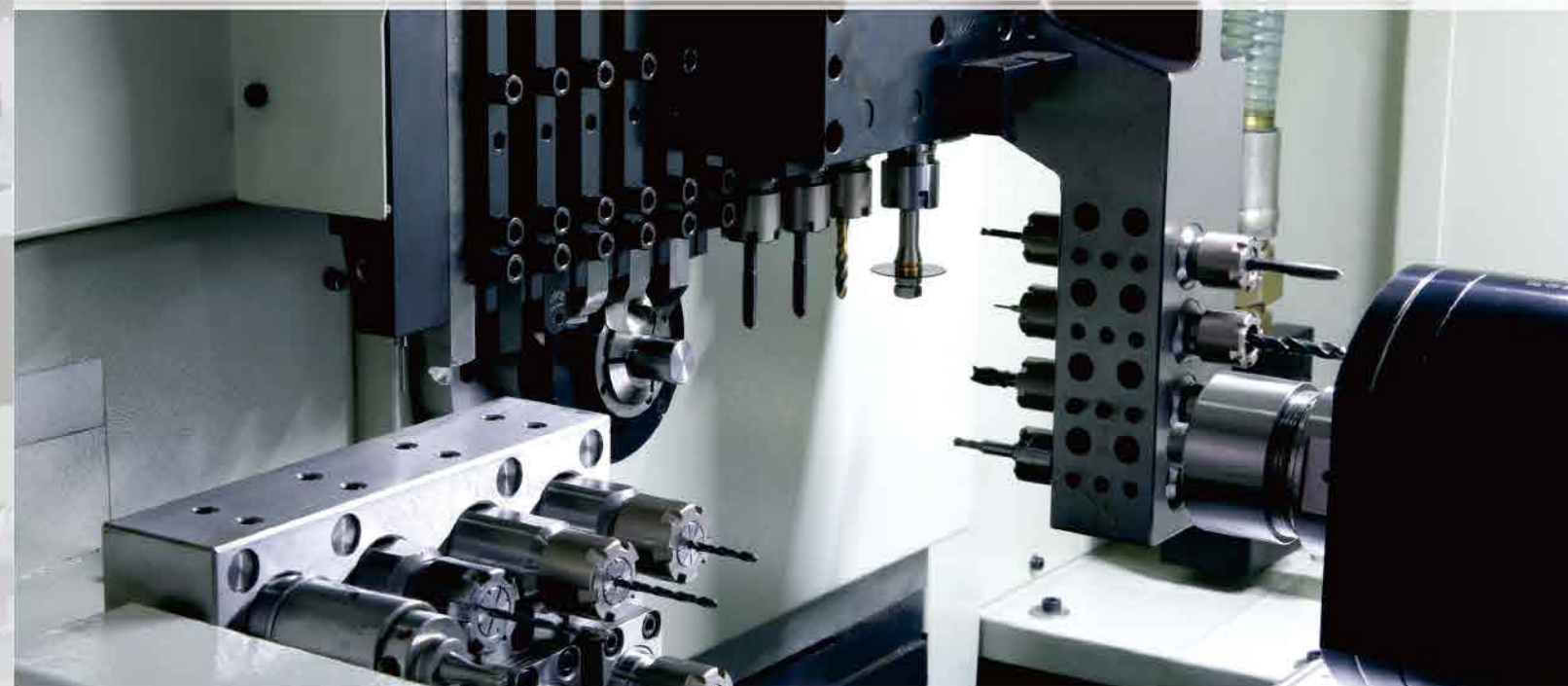
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Sowin 硕方

专业 数控走心机制造商
Professional CNC Swiss type automatic lathe manufacturer

Torni Automatici CNC a Fantina Mobile
Tours Automatiques à Poupée Mobile
Автоматы продольного точения



2022 版 走心机综合目录

瑞士型精密数控纵切自动车床
CNC Swiss Type Automatic Lathe

双主轴 F 系列 Dual spindles F series
双主轴 EN 系列 Dual spindles EN series
单主轴 EN 系列 Single spindle EN series
单主轴 C 系列 Single spindle C series

装备中国·服务世界
EQUIP CHINA SERVICE THE WORLD

深圳市硕方精密机械有限公司
Shenzhen Sowin Precision Machine Tool Co., Ltd.

公司介绍 Company Profile

深圳市硕方精密机械有限公司创立于 2010 年，总部位于广东省深圳市，是一家致力于数控走心机和数控车铣复合机床研发制造的国家级高新技术企业，深圳市机械行业协会理事单位。公司致力于成为“国际一流的中高端小型精密数控机床制造与服务提供商”，以高精密、高稳定性、高可靠性数控走心机及车铣复合机床为核心产品。通过多年的努力和技术创新，产品始终处于国内领先地位，为国内外航空、汽车、医疗器械、3C、家电、新能源汽车、五金、电动工具等行业提供了大量的高效加工解决方案。

Shenzhen Sowin Precision Machine Tool Co., Ltd was founded in 2010, locating in Shenzhen city, Guangdong Province, which is a national high-tech enterprise specializing in research and development of CNC Swiss type automatic lathe and slant bed CNC turn mill lathe, and a member of Shenzhen Machinery Alliance. SOWIN always focus on becoming a world-class equipment manufacturer and service provider, and the core products of SOWIN are high precision, high stability, high reliability CNC Swiss type automatic lathe and slant bed CNC turn mill lathe. In the past years efforts and technological innovation, SOWIN products always take the leading position in China, providing a large number of efficient processing solutions for aviation, automobile, medical equipment, 3C, household appliances, new energy vehicles, hardware, electric tools and other industries at home and abroad.

公司拥有先进的智能化加工设备，包括日本三菱五面体龙门加工中心，大隈卧、立式加工中心，哈斯立式加工中心，台湾建德平面磨床等，确保公司产品的高品质和高精度。

现已开发出 C 系列走心机、EN 系列走心机、F 系列走心机和车铣复合机床系列，产品远销美国、俄罗斯、意大利、西班牙、墨西哥、葡萄牙、捷克、乌克兰、马来西亚和泰国等国家，国内销售网络覆盖全国大部分省、市和地区，获得客户广泛应用，赢得客户一致好评。

SOWIN owns advanced intelligent processing equipment as the manufacturing machine tool, includes Japan Mitsubishi Heavy Industries Vertical planomiller, Japan OKUMA-BYJC large horizontal and vertical machining centers, HAAS vertical processing center, Taiwan KENT Surface Grinding Machine, ect which ensure SOWIN' s each product with high quality and high precision components and parts.

Now, SOWIN has developed C series, EN series and F series CNC Swiss type automatic lathe, and slant bed CNC turn mill lathe. SOWIN products are exported to U.S.A, Russia, Italy, Spain, Mexico, Portugal, Czech Republic, Ukraine , Malaysia, Thailand and other overseas countries. The domestic sales network covers most provinces, cities and regions in China. Products have been widely used by customers and won unanimous praise from customers.



硕方文化 Sowin Culture



硕方荣誉 Sowin Honour



高效自主研发团队 Efficient and Independent R&D Team

硕方拥有一支高水平的研发团队，历经多年潜心专研，突破多项走心机技术难关，在国内率先研发出走心机用电主轴系列，并取得了多项发明及实用新型技术专利，从而打破了国外同类产品的垄断，并逐步取代进口的同类产品。

SOWIN has a high level research and development team, after years of dedicated research, breakthrough many technical difficulties, which is the first in China to develop the CNC Swiss type automatic lathe using electric spindle, and has obtained a number of inventions and new utility technology patents, thus breaking the monopoly of the same kind of lathes abroad and gradually replacing the imported lathes.



先进的加工设备 Advanced Processing Equipment

“工欲善其事，必先利其器”。硕方拥有精密的智能化加工母机，确保产品的零部件具备高精度。

"A workman must sharpen his tools if he is to do his work well". SOWIN has advanced intelligent processing equipment as the manufacturing machine tools to ensure each product with high quality and high precision components and parts.

日本三菱五面体龙门加工中心 Japan Mitsubishi Vertical Planomiller



日本大隈卧式和立式加工中心 Japan OKUMA-BYJC Horizontal and vertical Machining Centers



严谨的制造过程 Rigorous Manufacturing Process

为保证产品装配过程的质量，硕方公司实行标准化的制造，将产品过程检验纳入工序过程。

To guarantee the quality of product assembly process, SOWIN executes standardized manufacturing and integrates product process inspection into the whole production process.

关键安装面铲刮修配 The scraper of main mounting surface



移动部件装配精度的再确认 Reconfirm the assembly accuracy of moving parts.



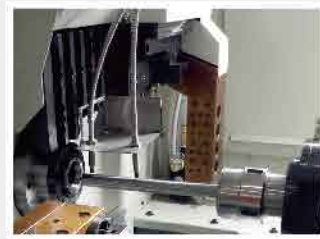
高精度检测仪器 High Precision Testing Instrument

严苛的检测流程

硕方制定并执行严苛的质量管理内控标准，以实现整个机床设计制造过程的严密检测。45个检验测试项目，632个品质管控要点，48小时高速全程载荷加工测试。采用三坐标测量仪、英国RENISHAW 激光干涉仪、日本SIGMA 现场动平衡仪、涡流传感器-主轴设计温升测试ISO230-3等全球顶级精密检测设备，保证机床所有细节的精准控制。

Strict Testing Procedure

SOWIN establishes and implements the most strict internal quality control standard to realize the strict monitoring on the whole process of machine tool design and production, e.g. 45 inspection and testing items, 632 quality control key points, 48-hours running in load processing test, three-coordinate measuring instrument, laser interferometer (RENISHAW brand, UK), field dynamic balancing instrument (SIGMA brand, Japan), eddy-current transducer—spindle designed-temperature rising test ISO230-3 ect., all of these to guarantee the accuracy control of lathes' each installation processes .



全面的服务体系 Comprehensive Service System

售前服务部 旨在给客户提供全面解决方案，帮助客户研究和分析产品的最优加工工艺，同时承担客户样品的加工。

该部也作为客户的现场操作体验中心，多年来为各领域客户培养了一大批技术的专门人才。

秉承“一切为了客户”的经营理念，售后服务部始终贯彻快速响应、及时处理、彻底解决的服务宗旨。

The Pre-sales Service Department aims to provide comprehensive machining solution for customers, and help customers to study and analyze the optimal products processing technology, and undertake the processing of customers' samples. It also serves as customer's on-site operation experience center, and has cultivated a large number of technical professionals for customers in various fields for many years.

Adhering to the business philosophy -- "All for Customers", the After-sales Service Department always carries out the service tenet-quick response, timely dispose and thorough settlement.



售前服务的客户体验中心 Pre-sales service customer experience center



快速反应的售后服务团队 Quick response after-sale service team



产品概览

Product Overview

C 系列

C series

12 系列

12 series

SZ-12C1
SZ-12C2

20 系列

20 series

SZ-20C1
SZ-20C2
SZ-20C3

EN 系列

EN series

12 系列

12 series

SZ-125EN1
SZ-125EN2

20 系列

20 series

SZ-20EN2
SZ-20EN3
SZ-205EN1
SZ-205EN2
SZ-206EN

25 系列

25 series

SZ-25EN2
SZ-25EN3
SZ-255EN2
SZ-255EN1
SZ-256EN

F 系列

F series

12 系列

12 series

SZ-126F

20 系列

20 series

SZ-206F

25 系列

25 series

SZ-256F

32 系列

32 series

SZ-325F1
SZ-325F2
SZ-326F
SZ-327F

38 系列

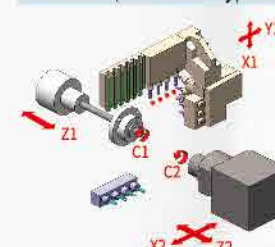
38 series

SZ-385F1
SZ-385F2
SZ-386F
SZ-387F

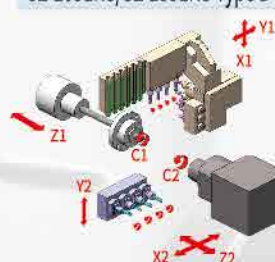
非标机示例

Non-standard

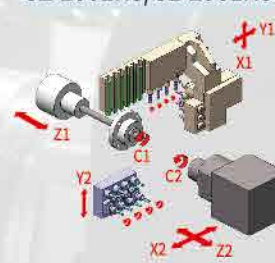
SZ-205EN3/SZ-255EN3 Type A



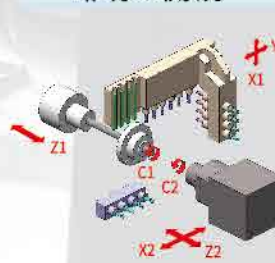
SZ-205EN3/SZ-255EN3 Type B



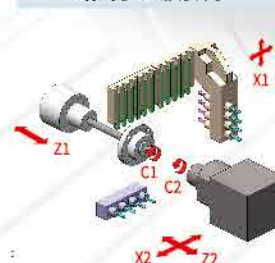
SZ-206EN3/SZ-256EN3



非标 6侧铣



非标 0侧铣



SZ-12C1

SZ-20C1

SZ-125EN1

SZ-20EN2/SZ-25EN2

SZ-205EN1/SZ-255EN1

SZ-126F/SZ-206F/SZ-256F

SZ-325F1/SZ-385F1

SZ-12C2/SZ-20C2

SZ-20C3

SZ-125EN2

SZ-20EN3/SZ-25EN3

SZ-205EN2/SZ-255EN2

SZ-206EN/SZ-256EN

SZ-325F2/SZ-385F2

SZ-326F/SZ-386F

SZ-327F/SZ-387F

双主轴SZ-126F/SZ-206F/SZ-256F

F Series Dual Spindles SZ-126F/SZ-206F/SZ-256F

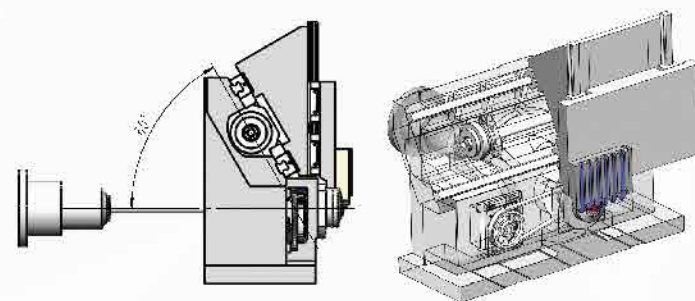


产品特点 Product Features

- 全新设计的床身, 借助有限元分析 (FEA) 进行优化设计, 在满足高刚性、高精度加工的同时, 在吸收振动、减少共振方面效果明显。
- 最多可装30把刀, 刀具丰富, 模块化布局, 适合复杂零件的加工。
- 背轴14把刀: 4把车刀, 7支端面刀具, 3支侧铣刀具, 正真的实现多重同时加工, 高效生产。
- 采用同步导套结构, 实现高速、高精度加工。
- 有导套与无导套, 灵活切换, 满足不同加工工艺的需求。
- 内藏式油冷电主轴, 惯性小、噪声低、响应快、易于实现定位。
- The newly designed lathe body is optimized with the help of finite element analysis (FEA), which is effective in absorbing vibration and reducing resonance while satisfying high rigidity and high precision machining.
- Max tool installation 30 pcs, rich cutting tools, suitable for the processing of complex parts.
- Sub spindle side max install 14 pcs tools: 4pcs turning tool, 7pcs end face tools and 3pcs cross live tools, really realize mutiple simultaneous processing, efficient production.
- Use synchronous guide bush structure, realize high speed and high precision machining.
- With guide bush and non guide bush mode, flexible switching, to meet the needs of different processing technology.
- Built-in oil-cooled spindle has the advantages of small inertia, low noise, fast response and easy positioning.

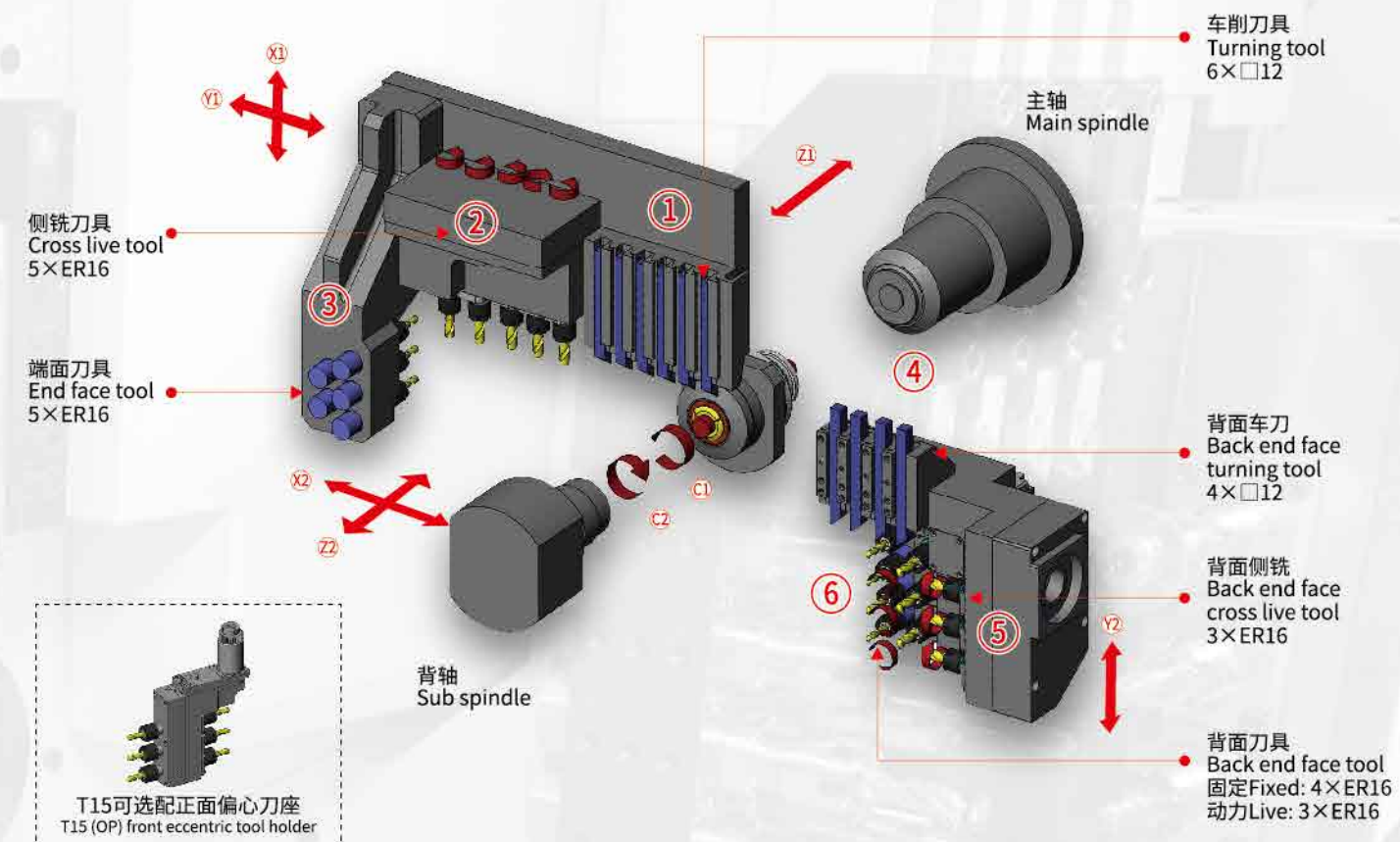
高刚性刀架台 High Rigidity Tool Rest

- 采用倾斜型刀架台结构设计, 具备高刚性、高稳定性等优势
- Slant tool rest structure design, with high rigidity and high stability
- 刀架台采用倾斜型线导轨结构。切削点近接处X、Y轴构成放射状, 机械刚性提高。
- 由于滚珠丝杆中心所通过的Y轴导轨是平行直线与切削点构成接近, 减小切削抵抗力矩的负重, 使Y轴、Z轴方向的刀架台刚性提升, 延长了刀具寿命, 提高了连续加工的稳定性和精度。



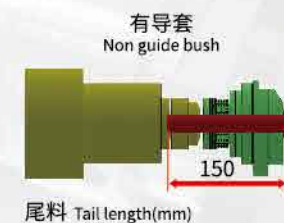
- The tool rest adopts the structure of slant line type rail. The X and Y axes near the cutting point are radially shaped, and the mechanical rigidity is improved.
- Because the Y-axis guide rail through the center of the ball screw is parallel to the cutting point, reducing the load of cutting resistance distance, so the Y axis direction and Z axis direction of the tool rest rigid increase, prolong the life of the tool, improve the stability and accuracy of continuous processing.

双主轴 SZ-126F/SZ-206F/SZ-256F 刀具排布 Dual Spindles SZ-126F/SZ-206F/SZ-256F Tool Layout

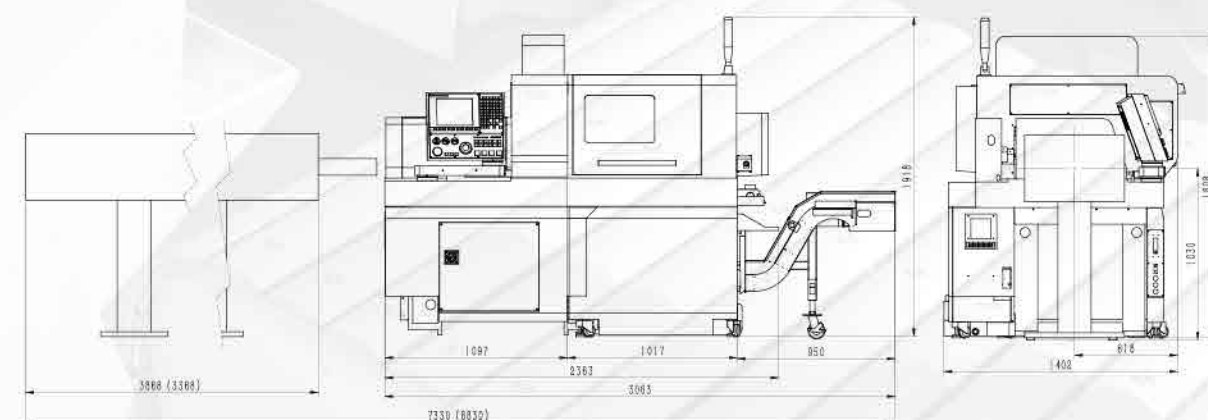


标准配置 Standard Configuration

- 三菱M80系统
- 有导套&无导套切换
- 主轴、动力头油冷机
- Mitsubishi M80 System
- With guide bush & non guide bush switchable
- Main/sub spindle, live head oil cooling



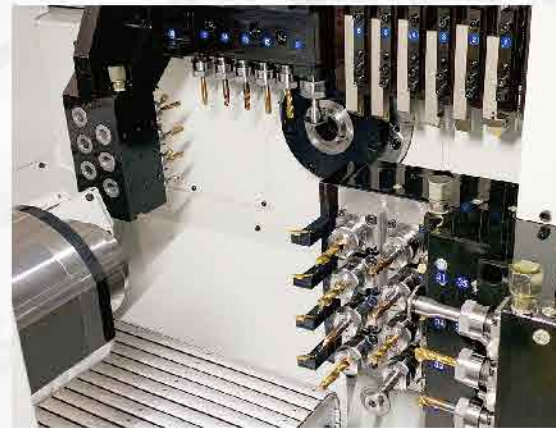
安装尺寸图 Installation Size (mm)



全新一代32/38机 大直径、高刚性、重切削

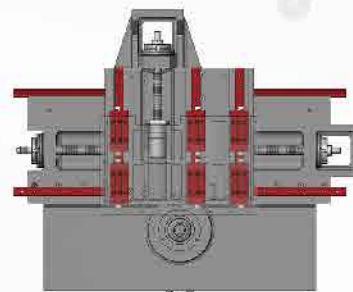
F Series a New Generation of 32/38 mm Large Diameter, High Rigidity and Heavy Cutting

双主轴 SZ-326F/SZ-386F Dual spindles SZ-326F/SZ-386F

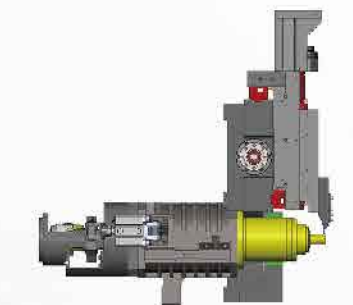


产品特点 Product Features

- 最大装刀数量40把。
- 采用同步导套结构,实现高速、高精度加工。
- 动力刀具采用油冷模式,提高动力头寿命。
- Y2轴具备车削,侧面铣削,正面偏心加工及镗孔加工。
- 采用30型滚柱型导轨和32型双螺母丝杆,支撑刚性强。
- 有导套与无导套灵活切换,满足不同加工工艺的需求。
- 内藏式油冷电主轴,惯性小、噪声低、响应快、易于实现定位。
- 无导套专用主轴支撑结构,短工件也可实现高精度加工。



X1轴采用3条导轨支撑
X1 axis adopts 3 pcs guide rail to support

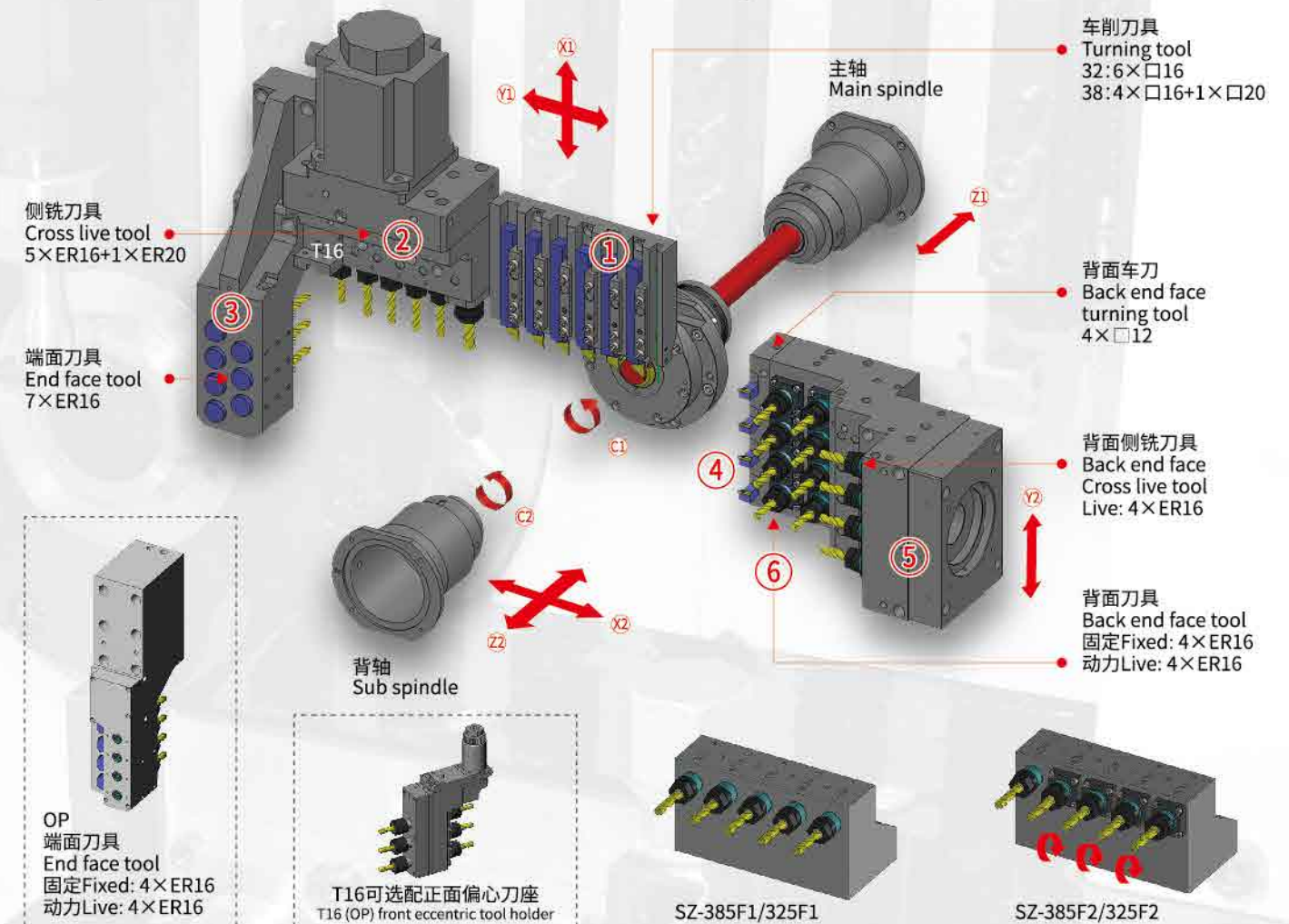


Y1轴刀架采用龙门式L型排布
Y1 axis tool rest adopts gantry type L-type layout

- Max tool installation 40 pcs.
- Use synchronous guide bush structure, realize high speed and high precision machining.
- The live tool adopts oil cooling mode to improve the life of power head.
- Y2 axis has turning, side milling, front eccentricity machining and boring.
- Adopt 30 type roller guide rail and 32 type double nut screw, support rigidity more strong.
- With guide bush and non guide bush mode, flexible switching, to meet the needs of different processing technology.
- Built-in oil-cooled spindle has the advantages of small inertia, low noise, fast response and easy positioning.
- Special spindle support structure for non guide bush mode, short parts can also achieve high precision machining.

双主轴SZ-325F1/385F1/325F2/385F2/326F/386F刀具排布

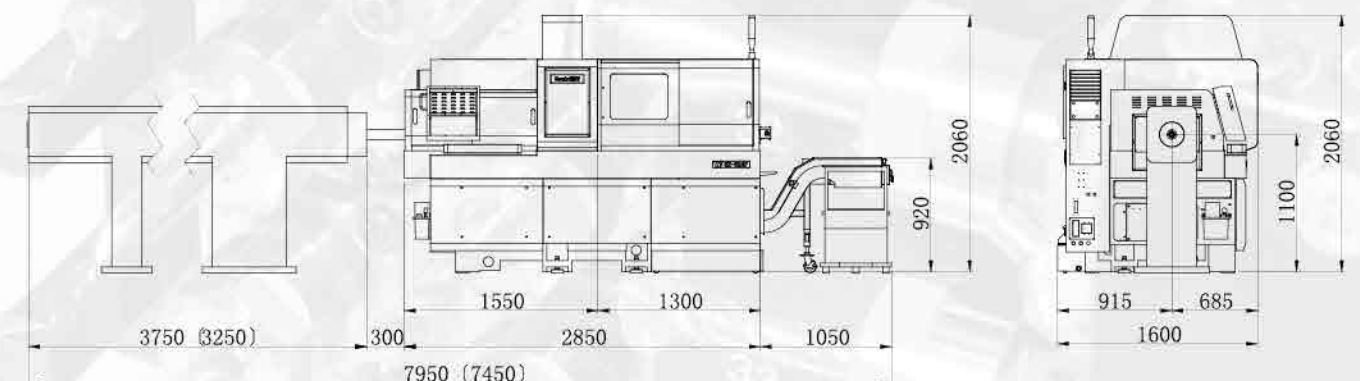
Dual Spindles SZ-325F1/385F1/325F2/385F2/326F/386F tool layout



标准配置 Standard Configuration

- 三菱M80系统
- 有导套&无导套切换
- 主轴、动力头油冷机
- Mitsubishi M80 System
- With guide bush & non guide bush switchable
- Main/sub spindle, live head oil cooling

安装尺寸图 Installation Size (mm)



双主轴SZ-327F/387F带B轴控制单元

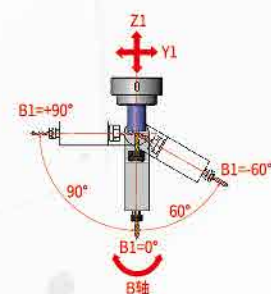
Dual spindles SZ-327F/387F lathe with B axis control unit



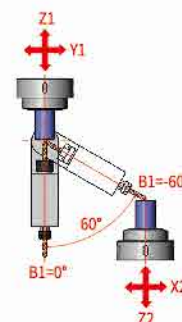
产品特点 Product Features

- 继承了F系列32/38走心机的机械结构优点, 加装了连续B轴转台
- B轴控制动力刀具单元
 - 采用进口减速机, 刚性高, 性能稳定
 - 旋转角度: $0^{\circ}\sim 150^{\circ}$, 可进行任意角度调节和加工
 - 最高转速: Max 5000rpm
 - 动力刀具: 前 $4\times ER16$ +后 $4\times ER11$
- 通过CAD/CAM模拟软件可进行复杂的B轴加工
- 刀具丰富, 最多可装40把刀
- B轴控制, 实现了主背轴刀具的共有化

- Inherit the mechanical structure advantages of F series 32/38 lathe, add continuous B axis turntable
- End face live tool unit with B axis:
 - Use Imported reducer, high rigidity, stable performance
 - Rotation Angle: $0^{\circ}\sim 150^{\circ}$, these tools can be adjusted and processed at any angle
 - Max speed: 5000rpm
 - Live tool: Front $4\times ER16$ +Back $4\times ER11$
 - B axis control realizes the main spindle and sub spindle tools common use
- Complex B-axis machining can be carried out by CAD/CAM simulation software
- Ample cutting tools, max install 40pcs



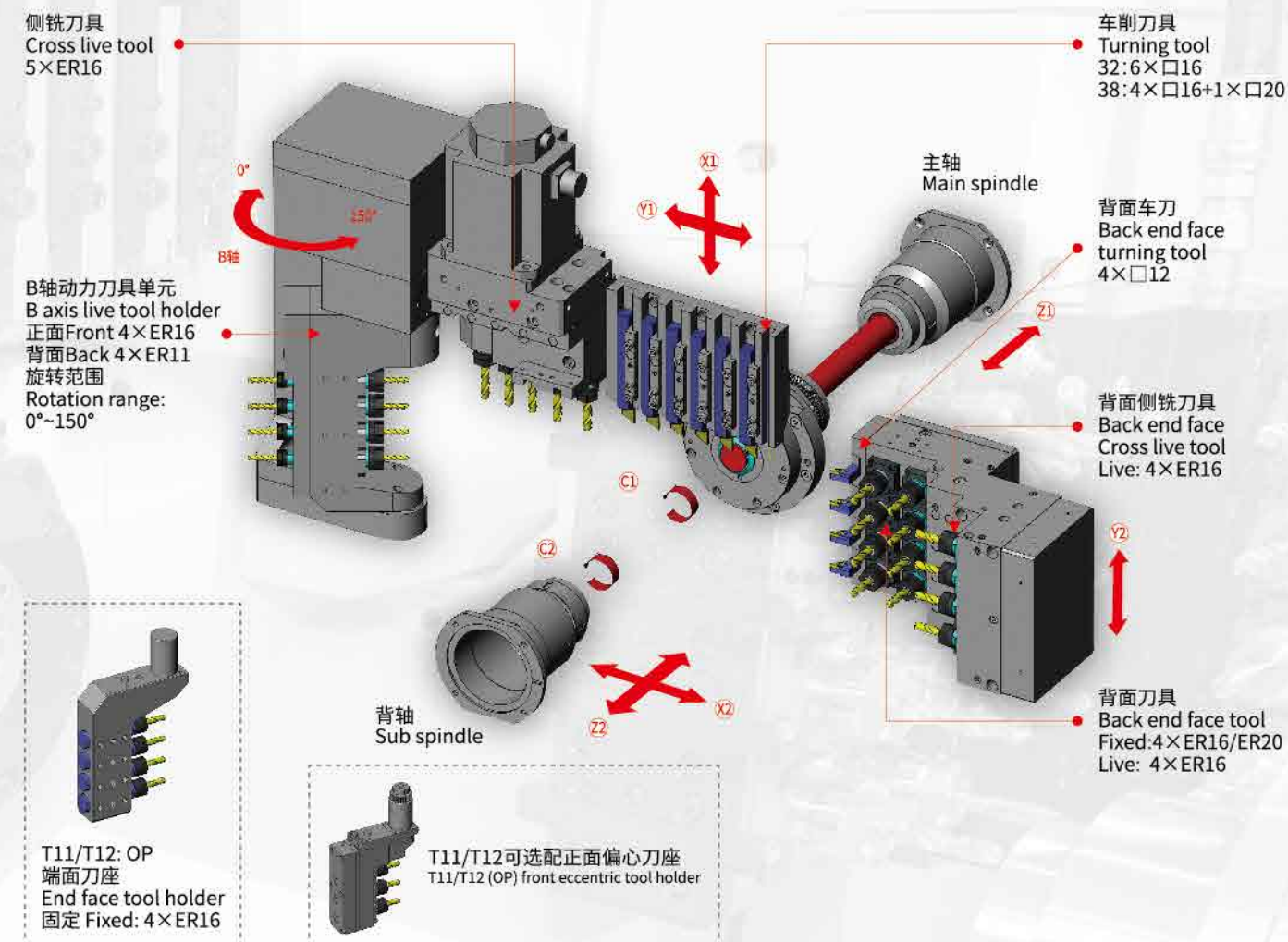
B轴动力刀具, 可进行任意角度调节和加工
B axis live tool can be adjusted and processed at any angle



实现了B轴刀具的共有化
Realizes the b axis tool common use

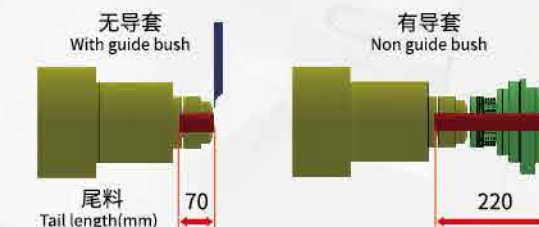
双主轴 SZ-327F/387F刀具排布

Dual Spindles SZ-327F/387F tool layout

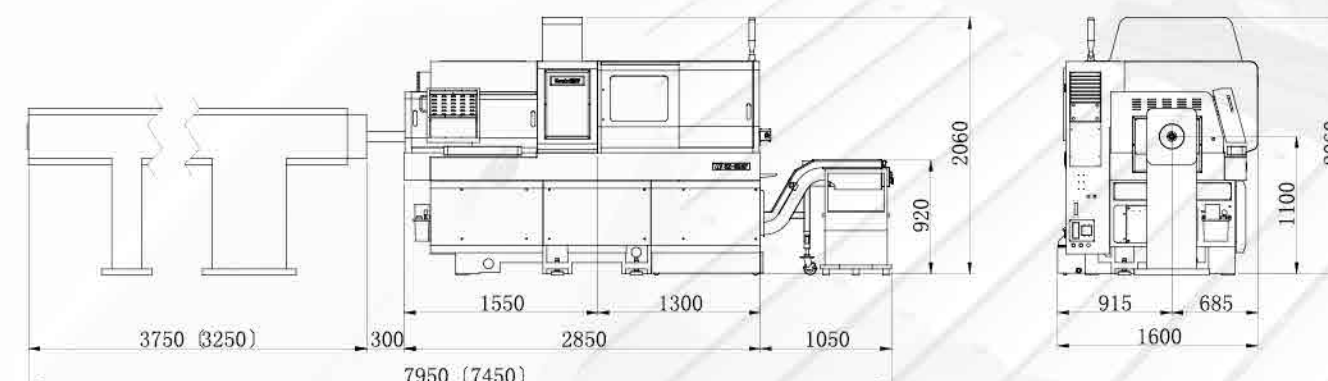


标准配置 Standard Configuration

- 发那科 Oi-TF plus 系统
- 有导套&无导套切换
- 主轴、动力头油冷机
- FANUC Oi-TF plus system
- With guide bush & non guide bush switchable
- Main/sub spindle, live head oil cooling



安装尺寸图 Installation Size (mm)

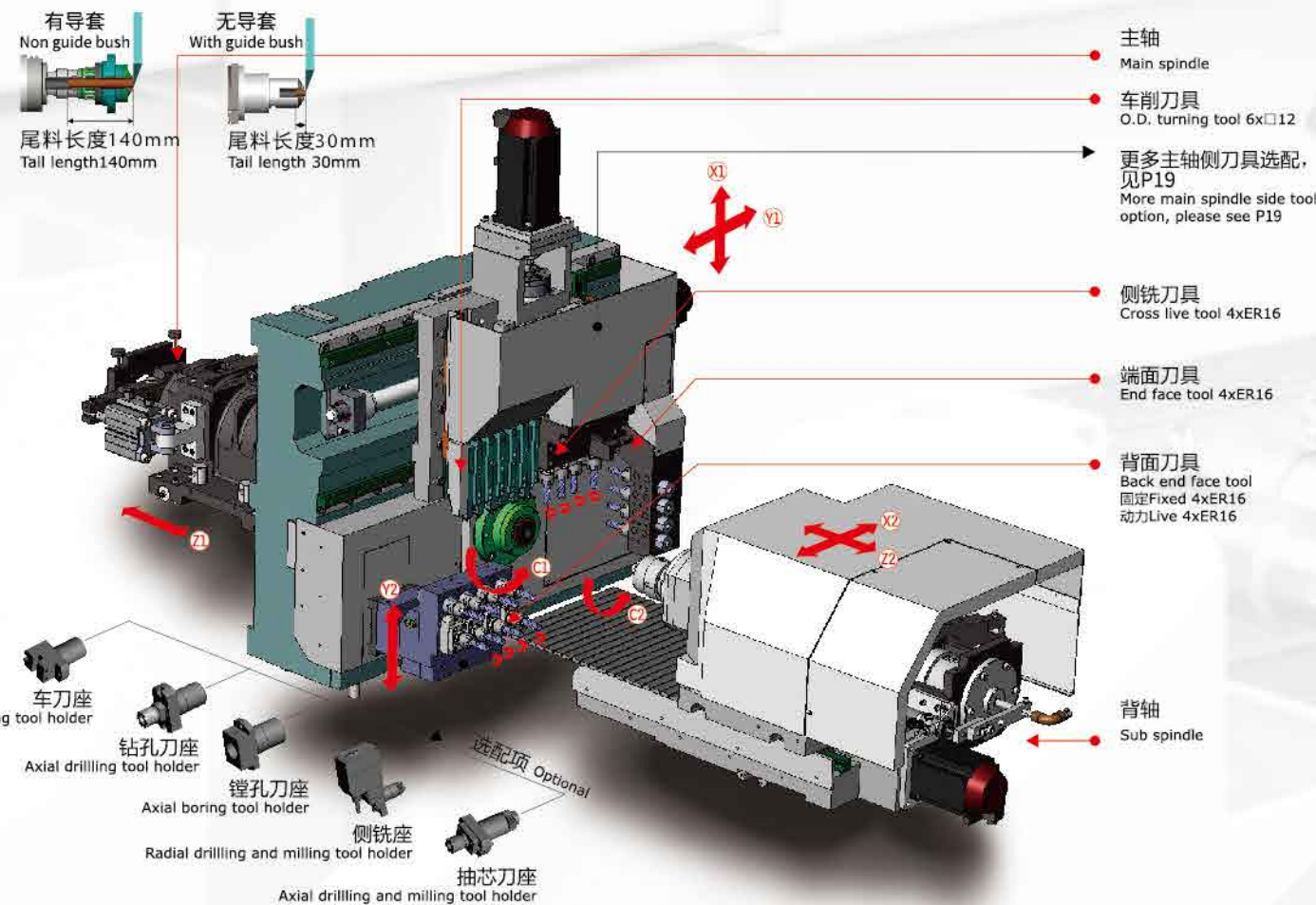


SZ-206EN/ SZ-256EN (6 axis轴, dual spindles双主轴)



SZ-206EN/ 256EN

- 背轴侧刀具座可安装两排刀具，具备Y2轴，功能强大。
- The tool holder in the sub spindle side with Y2 axis, it can install two row cutters.
- 主轴侧动力头、背轴侧动力头可实现多种扩展。
- The live head in the main spindle and sub spindle can expand many tool holders.



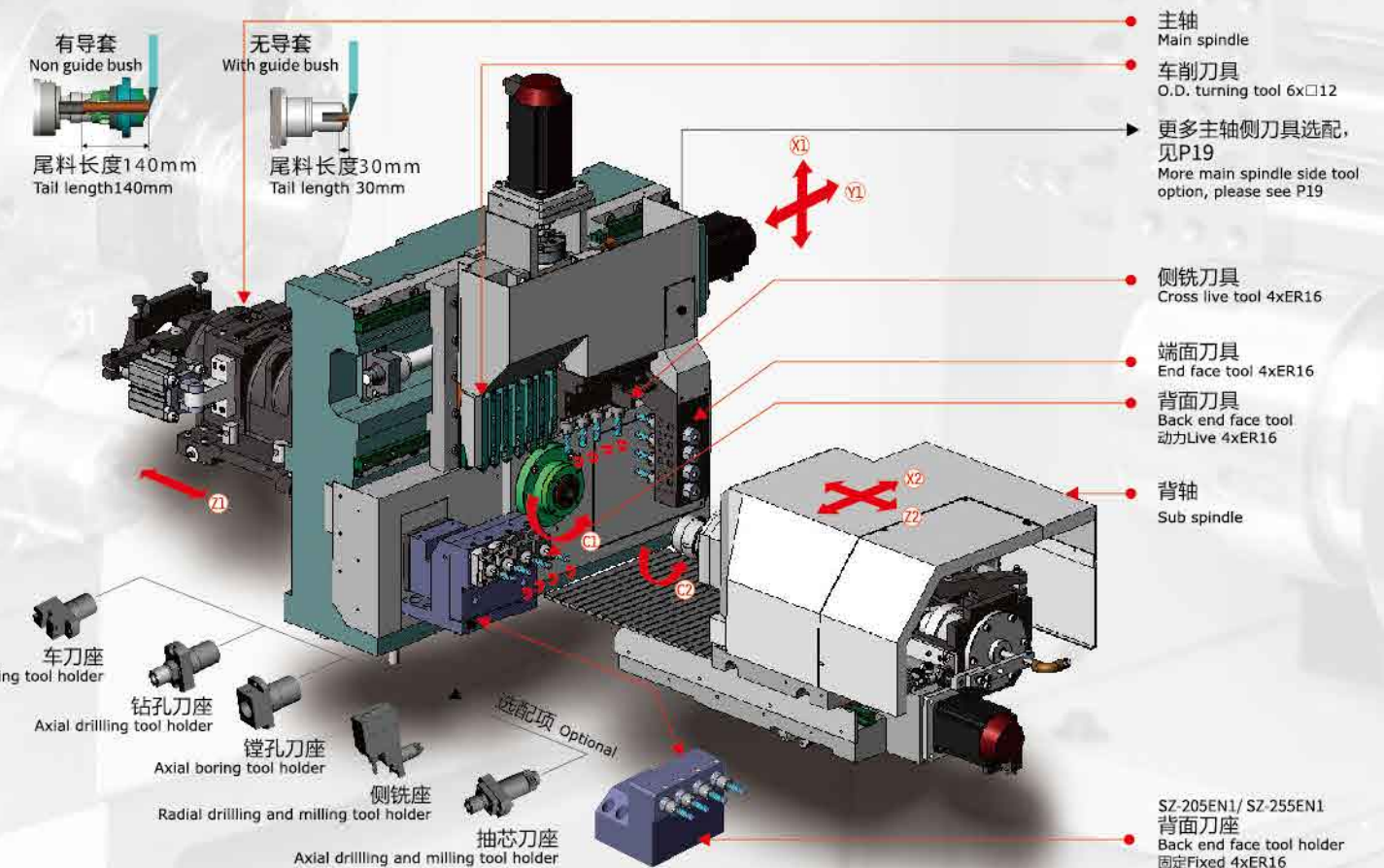
SZ-205EN1/ 255EN1, SZ-205EN2/ SZ-255EN2 (5 axis轴, dual spindles双主轴)



SZ-205EN1/ 255EN1

SZ-205EN2/ 255EN2

- 主轴侧刀具与6轴机相同
- The tool structure in main spindle side is same with 6 axis lathe.
- 背部有一排刀座，EN1为安装固定刀具方案，EN2型背部刀具带动力，固定与旋转刀具可自由组合。
- In the back side has a row tool holder, EN1 tool holder for fixed tool, EN2 tool holder for fixed and live tool that can be free combined.
- 背部刀具加工刚性更强。
- Back end face tool with high processing rigity.

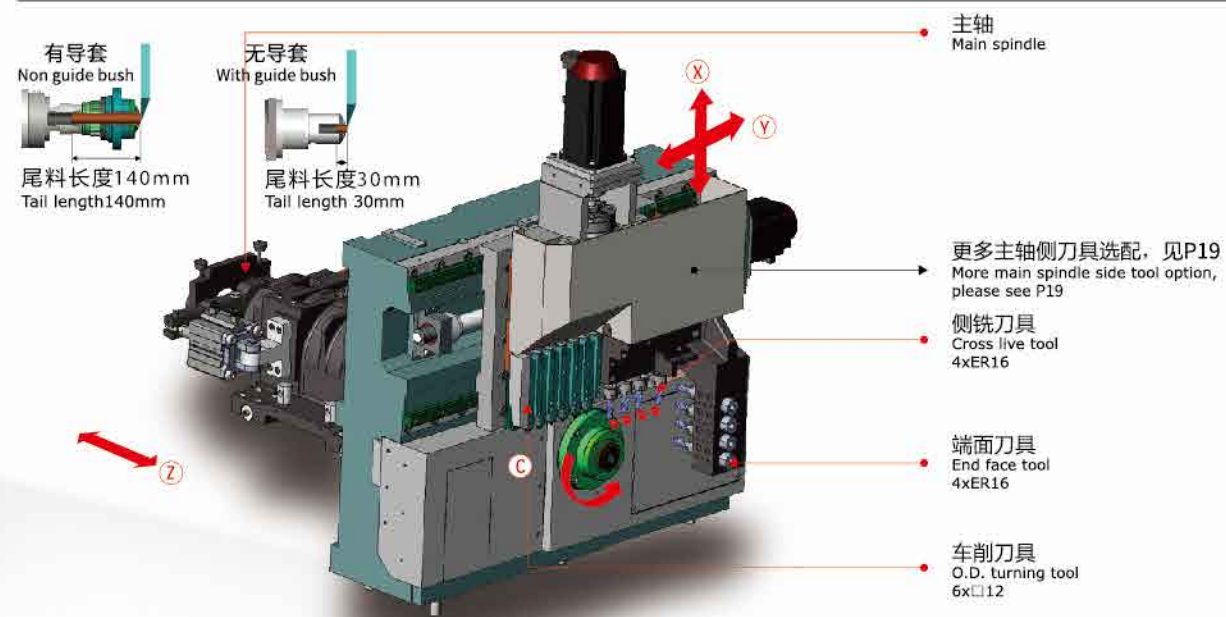


SZ-20EN2/ SZ-25EN2, SZ-20EN3/ SZ-25EN3 (3 axis轴, single spindles单主轴)

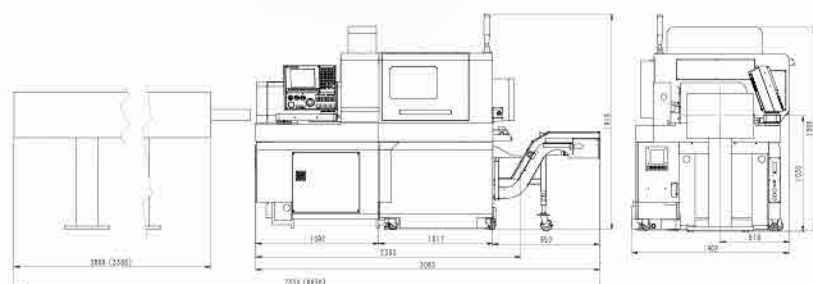


EN

- 走心机中的高端三轴机。
- 实现有导套、无导套的自由切换。



安裝尺寸圖 Installation Size (mm)



EN系列

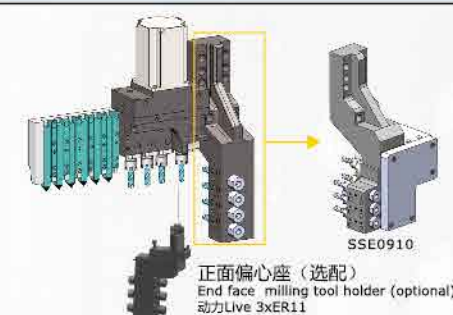
20EN/ 25EN正面刀具 非标选配

20EN/ 25EN Series Main Spindle Side Non-standard Tool Holder Option

车刀 O.D.Turning tool		侧铣 Cross live tool	端面 End face tool	
No.1	6X□12	3XER16+1XER16抽芯/4XER16	4XER16固定(Fixed)	标配 standard
			3XER16固定(Fixed)+3XER16动力(live)	选配 optional
No.2	5X□12	4XER16+1XER16抽芯	4XER16固定(Fixed)	选配 optional
			3XER16固定(Fixed)+3XER16动力(live)	选配 optional
No.3	4X□12	6XER16	4XER16固定(Fixed)	选配 optional
			3XER16固定(Fixed)+3XER16动力(live)	选配 optional
No.4	6X□12	2XER11+3XER16抽芯		选配 optional

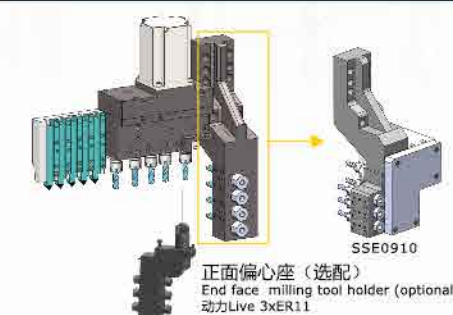
抽芯 : axial drilling and milling tool holder

No.1	型号 Tool holder model
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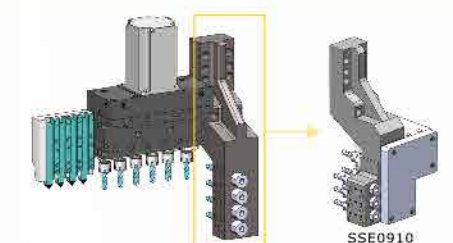
车刀 O.D. turning tool	6X□12	
侧铣 Cross live tool	3XR16+1XR16抽芯	SSC1010B
	4XR16	SSC3110
端面 End face tool	4XR16固定(Fixed)	
	3XR16固定(Fixed)+3XR16动力(live)	SSE0910

No.2	型号 Tool holder model
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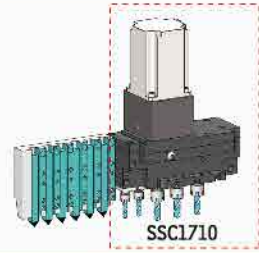
车刀 O.D. turning tool	5X□12	
侧铣 Cross live tool	4XER16+1XER16抽芯	SSC2010
端面 End face tool	4XER16固定(Fixed)	
	3XER16固定(Fixed)+3XER16动力(live)	SSE0910

No.3	型号 Tool holder model



车刀 O.D. turning tool	4X□12	
侧铣 Cross live tool	6XER16	SSC2610
端面 End face tool	4XER16固定(Fixed)	
	3XER16固定(Fixed) + 3XER16动力(live)	SSE0910

No.4

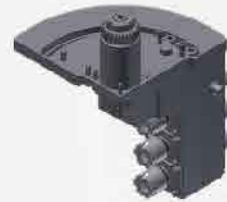
型号
Tool holder model

车刀 O.D. turning tool	6X□12	
侧铣 Cross live tool	2XER11+3XER16抽芯 (视情况而定 Depends on specific situation)	SSC1710
端面 End face tool	详细见下表 More detail, please see following chart	

EN系列 (20EN/25EN) 搭配SSC1710动力头的拓展刀座 EN series (20EN/25EN) Extend Tool Holder with SSC1710 Live Head

角度调整正面偏心座 SDS212300

Angular drilling head



- 转速比 Speed ratio 1/1
- 最高转速 Max rotary speed 6000RPM
- 可旋转 Rotatable degree 0-90度
- 主轴 Main spindle side collet ER16
副轴 sub spindle side collet ER11
- 适用机 Applicable lathe model
20EN/25EN/205EN/255EN/206EN/256EN

旋风铣/铣牙座 SDS410100

whirling threading unit



- 转速比 Speed ratio 1/1
- 最高转速 Max rotary speed 6000RPM
- 铣牙最大尺寸 Max threading M10
- 角度调整范围 Angle adjustment range $\pm 15^\circ$
- 适用机 Applicable lathe model
20EN/25EN/205EN/255EN/206EN/256EN

多边铣角刀座 SDS420100

Polygon maker



- 转速比 Speed ratio 1/1
- 最高转速 Max rotary speed 3000RPM
- 刀片最大外径 Max outside dia. of blade $\phi 95$
- 适用机 Applicable lathe model
20EN/25EN/205EN/255EN/206EN/256EN

滚齿刀座 SDS430100

Gear hobbing tool holder



- 转速比 Speed ratio 1/1
- 最高转速 Max rotary speed 6000RPM
- 角度调整范围 Angle adjustment range $\pm 20^\circ$
- 适用机 Applicable lathe model
20EN/25EN/205EN/255EN/206EN/256EN

端面钻孔座 SDS140300

End face drilling tool holder



- 柄径 Shank dia. $\phi 34$
- 孔径 Hole dia. $\phi 22$
- 刀片最大外径 Max outside dia. of blade $\phi 95$
- 适用机 Applicable lathe model
20EN/25EN/205EN/255EN/206EN/256EN

正面偏心座 SDS201300

Front eccentric tool holder



- 转速比 Speed ratio 1/1
- 最高转速 Max rotary speed 6000RPM
- 筒夹 Collet ER16
- 适用机 Applicable lathe model
20EN/25EN/205EN/255EN/206EN/256EN

360度正面回转刀座 SDS231300

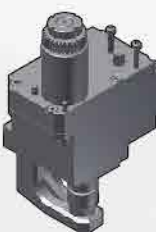
360 degree front rotation tool holder



- 转速比 Speed ratio 1/1
- 最高转速 Max rotary speed 6000RPM
- 角度调整范围 Angle adjustment range $\pm 180^\circ$
- 适用机 Applicable lathe model
20EN/25EN/205EN/255EN/206EN/256EN

锯片座 SDS440100

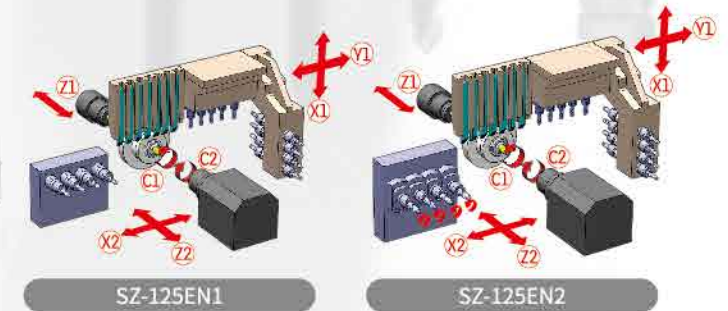
Saw blade holder



- 转速比 Speed ratio 1/ 0.374
- 最高转速 Max rotary speed 4000RPM
- 锯片孔径 Sawblade bore dia. $\phi 12.7$
- 锯片最大外径 Sawblade max outside dia. $\phi 70$
- 适用机 Applicable lathe model
20EN/25EN/205EN/255EN/206EN/256EN

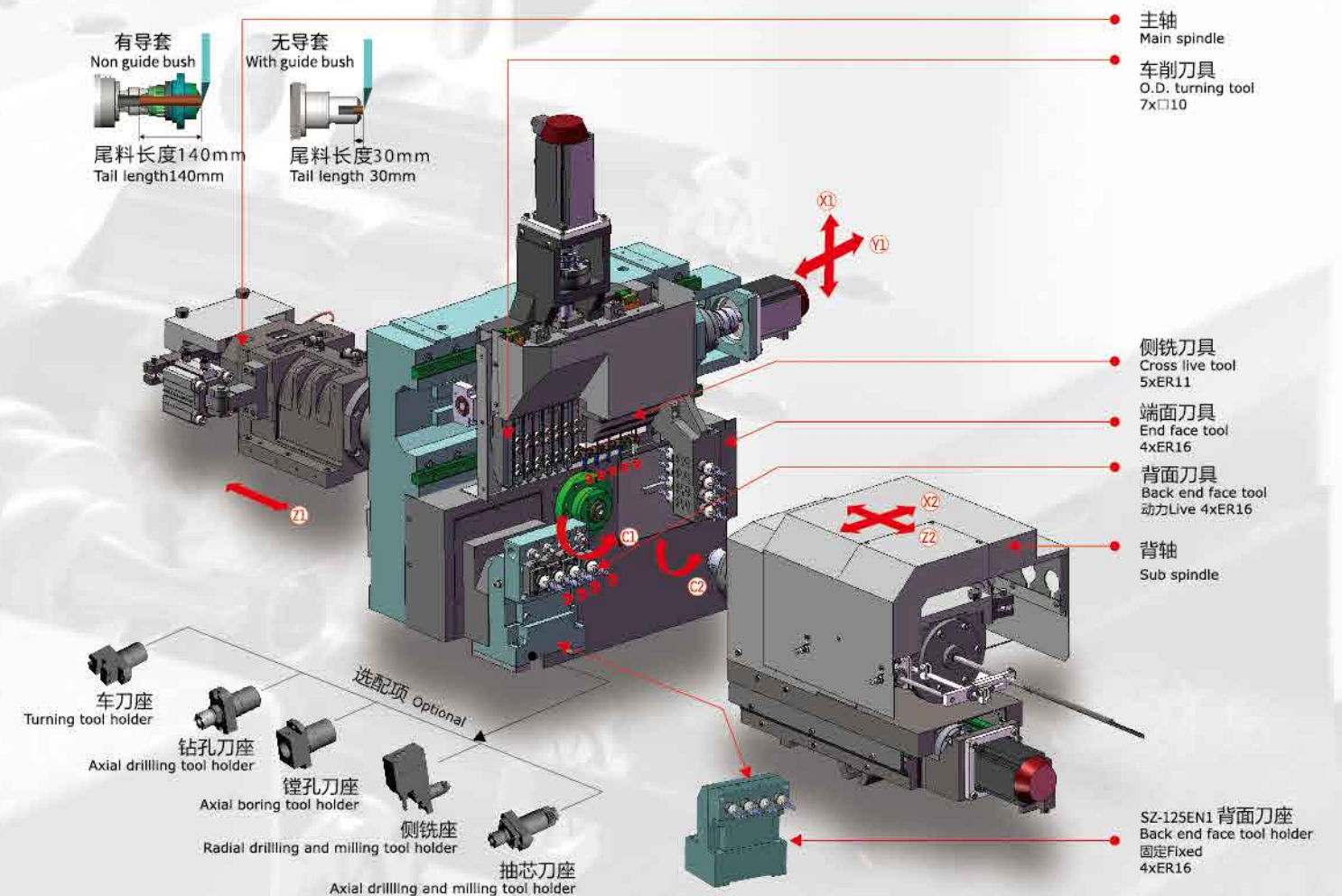
EN系列

SZ-125EN1/ SZ-125EN2 (5 axis轴, dual spindles双主轴)



- 主轴转速高，振动小。
- 特别适合细小零件，接插件的加工。

- Main spindle with high rotation speed, small vibration.
- Especially suitable for processing small parts and connectors.



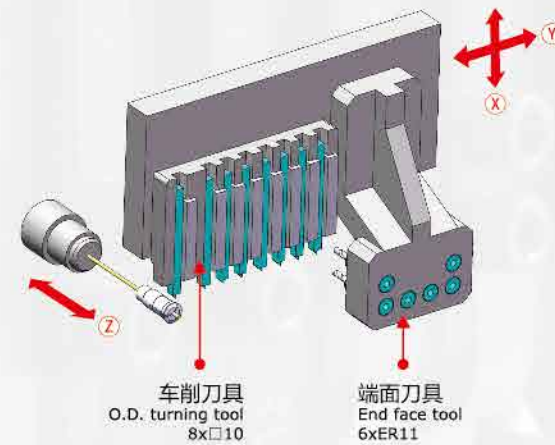
单主轴3轴 走心机性能稳定、市场保有量大、性价比超高 (仅支持有导套模式)

C Series Single Spindle 3 Axis CNC Swiss Type Lathe: High Reliability, More Cost-saving

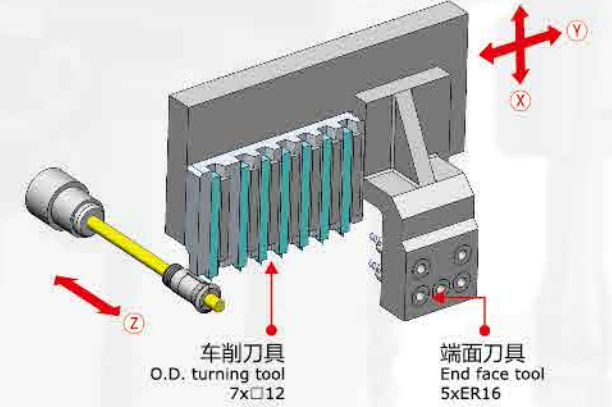
- 高可靠性，良好的经济性能，高性价比。
- 支持铣扁位/钻孔/攻牙/雕刻/车削等，可一次完成复杂零件加工。
- 横排刀，具备高刚性。
- 采用树脂砂密烘铸造工艺，HT300铸铁，高温退火。
- 配置自主研发的风冷电主轴。
- 采用台湾HIWIN/PMI C3级研磨丝杆，P级精度导轨，高刚性整体铸件床身。
- 采用有导套模式，一次送料行程最大可达240mm，可保证长轴类零件的长度精度。
- 标配日本三菱E80系统 (选配台湾新代22TB系统、日本发那科0i-TF Plus系统)
- High reliability, more cost-saving, high cost performance.
- Support milling flat/drilling/tapping/engraving/turning, etc, can complete the complex parts processing at one time.
- Horizontal row tool with high rigidity.
- Use resin sand casting craft, HT300 cast iron, high temperature annealing.
- Use self-developed air-cooling electric spindle.
- Use Taiwan HIWIN/PMI C3 grade grinding ball screw, P precision grade guide rail, high rigid integral casting lathe body.
- Adapt with guide bush model, max feed length 240mm, can guarantee the long shaft workpiece length accuracy.
- Standard Mitsubishi E80 system, (OP Taiwan SYNTEC 22TB system, FANUC 0i-TF Plus SYSTEM)



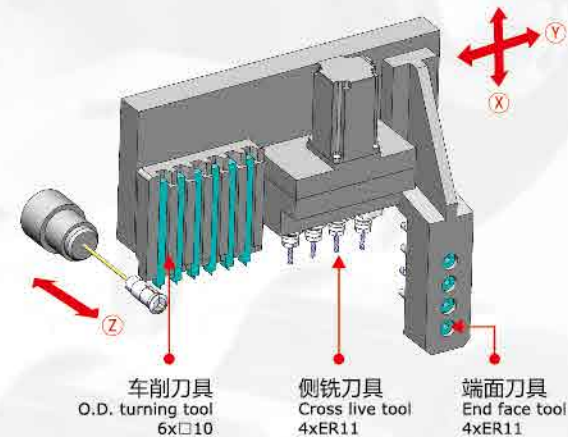
SZ-12C1



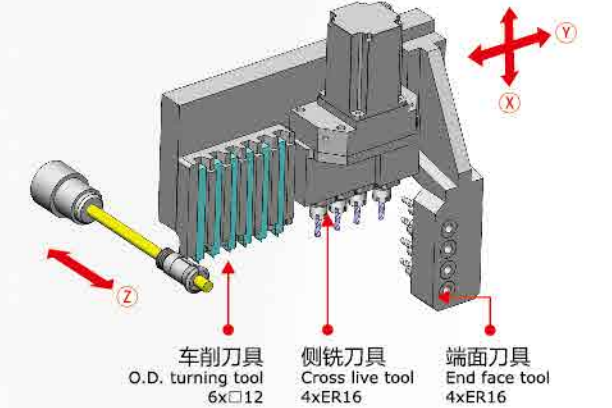
SZ-20C1



SZ-12C2

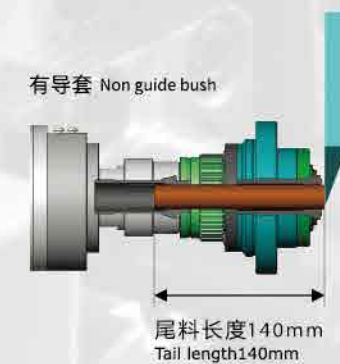


SZ-20C2

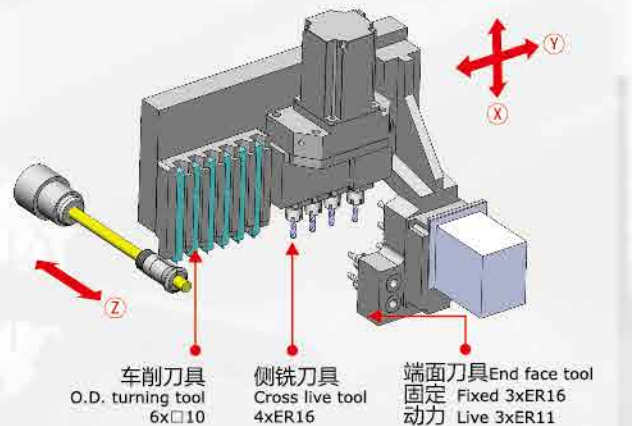


C系列标准配置 C series standard configuration

- 三菱E80系统 Mitsubishi E80 control system
- 仅支持有导套模式 Only with guide bush mode



SZ-20C3



选配设备 Optional Accessories



自动送料机 Automatic bar feeder

可自动送料，当一根材料用完时，可自动更换下一根。
Automatically feed, when a bar material is used up, the new bar can be automatically replaced.



排屑机 Chip conveyor

加工过程的废屑可随时排出。
The processing chip can be discharged at any time.



油雾收集器 Oil mist collector

将加工区域产生的油烟及时抽走，通常配合高压泵使用。
To collect the oil mist that produced in the processing area, usually accompany with a high-pressure pump.



高压泵 High pressure pump

针对特别难加工材料使用，可以改善冷却效果，改变切屑形态。根据需求可以选择不同压力的高压泵，通常有30帕、60帕、100帕。
It's used to extremely difficult workpiece processing, such as aluminum, red copper, stainless steel, ect. To improve the cooling effect and change processing chip shape. High pressure pump can be selected according to the actual requirement; usually it has 30, 60 and 100 bar.



工件传送带 Workpiece belt conveyor

加工完零件可以从此传送带端口传出。
The finished workpiece can be transmitted from this belt conveyor.



材料切断检测装置 Cut-off tool breakage detector

当切断刀发生意外折断时，此装置可以检测到。
The the cut-off tool breakage can be detected when it breaks accidentally.

C系列

走心机技术参数表 C series CNC Swiss Type Automatic Lathe Technical Parameter

型号 Model	SZ-12C1	SZ-12C2	SZ-20C1	SZ-20C2	SZ-20C3
	3轴, 单主轴 3axis, single spindle	3轴, 单主轴 3axis, single spindle	3轴, 单主轴 3axis, single spindle	3轴, 单主轴 3axis, single spindle	3轴, 单主轴 3axis, single spindle
刀具排布简图 Cutting-tool layout sketch					
NC装置 NC device	三菱E80 Mitsubishi E80	三菱E80 Mitsubishi E80	三菱E80 Mitsubishi E80	三菱E80 Mitsubishi E80	三菱E80 Mitsubishi E80
电源 Power source	200VAC	200VAC	200VAC	200VAC	200VAC
机床额定功率 Lathe rated power	7	7	7	7	7
加工范围 Machining range					
最大加工直径 Max machining dia.	Φ12	Φ12	Φ20	Φ20	Φ20
主轴最大夹持直径 Main spindle max clamping dia.	Φ12	Φ12	Φ20	Φ20	Φ20
最大一次送料长度 Max feed length (once)	120	120	240	240	240
主轴 Main spindle					
主轴功率 Main spindle power	1.5	1.5	2.2	2.2	2.2
主轴最大通孔直径 Main spindle max through hole dia.	Φ12	Φ12	Φ21	Φ21	Φ21
C轴分度 C axis resolution	0.001°	0.001°	0.001°	0.001°	0.001°
主轴转速 Main spindle rev speed	100-10000	100-10000	100-7000	100-7000	100-7000
主轴行程 Main spindle max travel	120	120	240	240	240
最大刀具安装数量 Max tool installed qty.	14	14	11	14	16
车削刀具 OD Turning tool					
数量×型号 Qty.xModel	8x□10	6x□10	7x□12	6x□12	6x□12
侧铣刀具 Cross live tool					
数量×型号 Qty.xModel	-	4xER11	-	4xER16	4xER16
钻孔直径 Drilling dia.	-	Max Φ7	-	Max Φ10	Max Φ10
螺纹加工(攻丝/板牙) Tapping/Threading die dia.	-	Max M6	-	Max M8	Max M8
动力头转速 Live tool rev speed	-	Max5000	-	Max5000	Max5000
动力头功率 Live tool power	-	1	-	1	1
端面刀具 End-face tool(主轴Main spindle)					
数量×型号 Qty.xModel	6xER11	4xER11	5xER16	4xER16	3xER16
固定 Fixed					
钻孔直径 Drilling dia.	Max Φ7	Max Φ7	Max Φ10	Max Φ10	Max Φ10
螺纹加工(攻丝/板牙) Tapping/Threading die dia.	Max M6	Max M6	Max M8	Max M8	Max M8
数量×型号 Qty.xModel	-	-	-	-	3xER11
动力 Live					
钻孔直径 Drilling dia.	-	-	-	-	Max Φ7
螺纹加工(攻丝/板牙) Tapping/Threading die dia.	-	-	-	-	Max M6
动力头转速 Live tool rev speed	-	-	-	-	Max5000
动力头功率 Live tool power	-	-	-	-	0.4
快速进给速度 Rapid feed speed	X:15m/min, Z/Y:30m/min	X:15m/min, Z/Y:30m/min	X:15m/min, Z/Y:30m/min	X:15m/min, Z/Y:30m/min	X:15m/min, Z/Y:30m/min
进给电机功率 Feed motor power	1(X/Y/Z)	1(X/Y/Z)	1(X/Y/Z)	1(X/Y/Z)	1(X/Y/Z)
切削油泵功率 Cutting oil pump power	0.35	0.35	0.35	0.35	0.35
主轴冷却风扇功率 Main spindle cooling fan power	0.04	0.04	0.04	0.04	0.04
润滑油泵功率 Lubricating oil pump power	0.035	0.035	0.035	0.035	0.035
接料盒最大接料长度 Max collecting length of workpieces collect box	50	50	50	50	50
主轴高度(主轴中心距离床身最底部) Main spindle center to the bottom of lathe body	955	955	955	955	955
切削油箱体积 Cutting oil tank volume	120	120	120	120	120
净重 Net weight	1600	1600	1700	1700	1700
外形尺寸 (长×宽×高) Dimensions(LxWxH)	1716x1410x1560	1716x1410x1560	1716x1410x1560	1716x1410x1560	1716x1410x1560

选配系统 OP system	SYNTEC 22TB	FANUC Oi-TF Plus
电源 Power source	380VAC	200VAC
动力头伺服电机功率/转速 Live head servo motor power/rev speed	1Kw/5000rpm	0.75Kw/4000rpm
进给电机功率 Feed motor power(Kw)	1(Z/X/Y)	0.75(Z/X/Y)
快速进给速度 Rapid feed speed(m/min)	15(X)30(Y/Z)	15(X)30(Y/Z)

标准配置

Standard configuration
日本三菱 控制系统
Japan Mitsubishi system
彩色液晶显示屏
Color LCD display
润滑系统
Lubricating system
LED工作照明灯
LED working light
漏电保护装置
Electric leakage protection
变压器
Transformer
外置照明灯接口
External light connector
3色警示灯
3-colour tower light
上银/银泰丝杆/导轨, C3级
HIWIN/PMI screw/guide rail,C3s3
油箱
Cutting oil tank
主轴夹头/导套各1个
Main/sub spindle collet 1pcs/guide bush 1 pcs
工具箱
Tool cabinet

选配配置

Optional configuration
自动送料机
Automatic bar feeder
油雾收集器
Oil mist collector
长工件回收装置
Long workpiece collector
工件传送带
Workpiece belt conveyor
外置照明灯
External working light
断丝锥检测装置
Tap breakage detector
异形材料夹紧装置
Special shaped material clamping device
自动灭火装置
Automatic fire extinguisher

SZ-327F/387F走心机技术参数表
SZ-327F/387F CNC Swiss Type Automatic Lathe Technical Parameter

型号 Model		SZ-327F	SZ-387F
		6轴+B轴, 双主轴 6 axis+B axis, dual spindles	
NC装置 NC device		FANUC Oi-TF Plus	
电源 Power source		200AVC	
机床额定功率 Lathe rated power		Kw 20	
加工范围 Machining range			
最大加工直径 Machining range dia.		mm Φ32	Φ38
主轴最大夹持直径 Main spindle max clamping dia.		mm Φ32	Φ38
最大一次送料长度 Max feed length (once)		mm 320	
主/背轴 Main/sub spindle			
主轴功率 Main spindle power		Kw 5.5/7.5	
背轴功率 Sub spindle power		Kw 3.7/5.5	
主轴最大通孔直径 Main spindle max through hole dia.		mm Φ39	
C轴分度 C axis resolution		° 0.001	
主/背轴转速 Main/sub spindle rev speed		rpm 6000	
背轴最大夹持直径 Sub spindle max clamping dia.		mm Φ32	Φ38
背轴最大通孔直径 Sub spindle max through hole dia.		mm Φ39	
主轴最大钻孔深度 Main spindle max drilling depth		mm 65	
主轴最大行程 Main spindle max travel			
有导套 With guide bush		mm 320	
无导套 Non guide bush		mm 80	
最大刀具安装数量 Max tool installed qty.		pcs 35pcs	
主轴侧刀具 Main spindle side tools			
侧铣刀具 Cross live tool	车削刀具 OD Turning tool	数量×型号 Qty. X Model	6×□16
		数量×型号 Qty. X Model	5×ER16
	钻孔直径 Drilling dia.	mm Φ 10	
	螺纹加工(攻丝/板牙) Tapping/Threading die dia.	M8	
端面刀具 End face tool	固定刀具 Fixed tool	数量×型号 Qty. X Model	4×ER16
	钻孔直径 Drilling dia.	mm Max Φ10	
	螺纹加工(攻丝/板牙) Tapping/Threading die dia.	Max M8	
	数量×型号 Qty. X Model	正面Front:4×ER16 背面Back:4×ER11	
端面B轴刀具 End face B axis tool	动力刀具 Live tool	钻孔直径 Drilling dia.	mm Φ8
		螺纹加工(攻丝/板牙) Tapping/Threading die dia.	M6
		动力头转速 Live tool rev speed	rpm Max 5000
		动力头功率 Live tool power	Kw 1.0
		旋转角度 Rotation angle	° 0°~150°
		旋转精度(弧秒) Rotation accuracy (Arcsecond)	" 0.1
背轴刀具 Sub spindle tool			
端面刀具 End face tool	固定刀具 Fixed tool	数量×型号 Qty. X Model	4×ER16
		钻孔直径 Drilling dia.	mm Max Φ10
		螺纹加工(攻丝/板牙) Tapping/Threading die dia.	Max M8
		动力刀具 数量×型号 Qty. X Model	4×ER16
	动力刀具 Live tool	钻孔直径 Drilling dia.	mm Max Φ10
		螺纹加工(攻丝/板牙) Tapping/Threading die dia.	Max M8
侧面刀具 Cross tool	动力刀具 Live tool	动力头转速 Live tool rev speed	rpm Max 4500
		动力头功率 Live tool power	Kw 1.2
		数量×型号 Qty. X Model	4×ER16
		钻孔直径 Drilling dia.	mm Max Φ10
		螺纹加工(攻丝/板牙) Tapping/Threading die dia.	Max M8
		动力头转速 Live tool rev speed	rpm Max 4500
车刀 OD Turning tool	数量×型号 Qty. X Model	1.2	
	数量×型号 Qty. X Model	4×□12	
	快速进给速度 Rapid feed speed	m/min 24(Z1/Z2/X1/X2/Y1/Y2)	
	进给电机功率 Feed motor power	Kw 1.2(Z1/Z2/X1/X2/Y1/Y2)	
	切削油泵功率 Cutting oil pump power	Kw 0.4	
	主/背轴冷却油泵功率 Main/sub spindle cooling oil pump power	Kw 1.2	
润滑油泵功率 Lubricating oil pump power		Kw 0.25	
接料盒最大接料长度 Max collecting length of workpieces collect box		mm 100	
主轴高度(主/背轴距离床身最底部) Main/sub spindle center to the bottom of lathe body		mm 1100	
切削油箱体积 Cutting oil tank volume		L 190	
气源压力 Air pressure		Mpa ≥0.5	
净重 Net weight		Kg 5000	
外形尺寸(长×宽×高) Dimensions(L×W×H)		mm 2850×1600×2060	

注 Notes: 技术参数 如有变更,恕不另行通知。
Technical parameters are subject to change without prior notice.

走心机技术参数表
F series CNC Swiss Type Automatic Lathe Technical Parameter

型号 Model		SZ-126F	SZ-206F	SZ-256F	SZ-325F1/ SZ-385F1	SZ-325F2/ SZ-385F2	SZ-326F/ SZ-386F	
		6轴, 双主轴 6 axis, dual spindles	6轴, 双主轴 6 axis, dual spindles	6轴, 双主轴 6 axis, dual spindles	5轴, 双主轴 5 axis, dual spindle	5轴, 双主轴 5 axis, dual spindle	6轴, 双主轴 6 axis, dual spindle	
刀具排布简图 Cutting-tool layout sketch								
NC装置 NC device		日本三菱M80 Japan Mitsubishi M80			日本三菱M80 Japan Mitsubishi M80			
电源 Power source		200AVC			200AVC			
机床额定功率 Lathe rated power		Kw	11		20	20	20	
加工范围 Machining range								
最大加工直径 Max machining dia.		mm	Φ12	Φ20	Φ25	Φ32/38	Φ32/38	
主轴最大夹持直径 Main spindle max clamping dia.		mm	Φ12	Φ20	Φ25	Φ32/38	Φ32/38	
最大一次送料长度 Max feed length (once)		mm	240			320		
主/背轴 Main/sub spindle								
主轴功率 Main spindle power		Kw	2.2/3.7			5.5/7.5		
背轴功率 Sub spindle power		Kw	1.5/2.2			3.7/5.5		
主轴最大通孔直径 Main spindle max through hole dia.		mm	Φ13	Φ27		Φ39		
C轴分度 C axis resolution		°	0.001			0.001		
主/背轴转速 Main/sub spindle rev speed		rpm	主轴:2900/9790 背轴:3870/11800			6000		
背轴最大夹持直径 Sub spindle max clamping dia.		mm	Φ13	Φ20	Φ25	Φ32/38	Φ32/38	
背轴最大通孔直径 Sub spindle max through hole dia.		mm	Φ13	Φ27		Φ39		
主轴最大钻孔深度 Main spindle max drilling depth		mm	50	50		60		
主轴最大行程 Main spindle max travel								
有导套 With guide bush		mm	240			320		
无导套 Non guide bush		mm	2.50			80		
最大刀具安装数量 Max tool installation qty. (standard lathe)		pcs	26			24	35	
主轴刀具 Main spindle tool								
①车削刀具 OD Turning tool	数量×型号 Qty. X Model	6×□12			32:6×□16 / 38:4×□16+1×□20			
	数量×型号 Qty. X Model	5×ER16			5×ER16+1×ER20			
	钻孔直径 Drilling dia.	mm	Φ10			Φ10		
	螺纹加工(攻丝/板牙) Tapping/Threading die dia.		M6			M8		
②铣削刀具 Cross live tool	动力头转速 Live tool rev speed	rpm	Max 5000			Max 4500		
	动力头功率 Live tool power	Kw	1			1.5		
	数量×型号 Qty. X Model		5×ER16			7×ER16		
	钻孔直径 Drilling dia.	mm	Φ10			Φ10		
③端面固定刀具 End face fixed tool	螺纹加工(攻丝/板牙) Tapping/Threading die dia.		M8			M8		
	数量×型号 Qty. X Model		4×ER16			5×ER16	2×ER16	4×ER16
⑥端面固定 End face fixed	钻孔直径 Drilling dia.	mm	MaxΦ10			Max Φ10	Max Φ10	Max Φ10
	螺纹加工(攻丝/板牙) Tapping/Threading die dia.		MaxM8			Max M8	Max M8	Max M8
	数量×型号 Qty. X Model		3×ER16			-	3×ER16	4×ER16
	钻孔直径 Drilling dia.	mm	MaxΦ10			-	Max Φ8	Max Φ10
⑥端面 End face	螺纹加工(攻丝/板牙) Tapping/Threading die dia.		MaxM6			-	Max M6	Max M8
	动力头转速 Live tool rev speed	rpm	5000			-	Max 4500	Max 4500
	动力头功率 Live tool power	Kw	1			-	1	1.5
	数量×型号 Qty. X Model		3×ER16			-	-	4×ER16
动力刀具 Live tool	钻孔直径 Drilling dia.	mm	MaxΦ10			-	-	Max Φ10
	螺纹加工(攻丝/板牙) Tapping/Threading die dia.		MaxM6			-	-	Max M8
	数量×型号 Qty. X Model		4X□12			-	-	4×□12
④车刀 OD Turning tool	快速进给速度 Rapid feed speed	m/min	30(Z1/Z2/Y1/X2)24(X1/Y2)			24(Z1/Z2/X1/X2/Y1)		24(Z1/Z2/X1/X2/Y1/Y2)
	进给电机功率 Feed motor power	Kw	1(Z1/Z2/X1/X2/Y1/Y2)			1.5(Z1/Z2/X1/X2/Y1)		1.5(Z1/Z2/X1/X2/Y1/Y2)
	切削油泵功率 Cutting oil pump power	Kw	0.4			0.4		
	主/背轴冷却油泵功率 Main/sub spindle cooling oil pump power	Kw	1.2			1.2		
	润滑油泵功率 Lubricating oil pump power	Kw	0.25			0.25		
	接料盒最大接料长度 Max collecting length of workpieces collect box	mm	80			100		
	主轴高度(主/背轴距离床身最底部) Main/sub spindle center to the bottom of lathe body	mm	1018			1100		
	切削油箱体积 Cutting oil tank volume	L	160			190		
	气源压力 Air pressure	Mpa	≥0.5			≥0.5		
	净重 Net weight	kg	2800			5000		
	外形尺寸(长×宽×高) Dimensions(L×W×H)	mm	2363×1402×1918			2850×1600×2060		

SZ-126F/SZ-206F/SZ-256F

选配系统 OP system	SYNTEC 220TB	FANUC Oi-TF Plus
电源 Power source	380VAC	200VAC
动力头伺服电机功率/转速 Live head servo motor power/rev speed	1Kw/5000rpm	0.75Kw/4000rpm
进给电机功率 Feed motor power(Kw)	1Kw(Z1/Z2/X1/X2/Y1/Y2)	0.75Kw(Z1/Z2/X1/X2/Y1/Y2)
快速进给速度 Rapid feed speed(m/min)	30(Z1/Z2/Y1/X2)24(X1/Y2)	30(Z1/Z2/Y1/X2)24(X1/Y2)

注 Notes: 技术参数 如有变更,恕不另行通知。
Technical parameters are subject to change without prior notice.

SZ-325F1/385F1/325F2/385F2/326F/386F

选配系统 OP system	SYNTEC 220TB	FANUC Oi-TF Plus
电源 Power source	380VAC	200VAC
侧铣 Cross	动力头伺服电机功率/转速 Live head servo motor power/rev speed	1.7Kw/4500rpm
背面 Back	动力头伺服电机功率 live head servo motor power/rev speed	1/5000(325F2)/1.7/4500(326F)
进给电机功率 Feed motor power(Kw)	1.7Kw(Z1/Z2/X1/X2/Y1/Y2)	1.2Kw(Z1/Z2/X1/X2/Y1/Y2)
快速进给速度 Rapid feed speed(m/min)	24(Z1/Z2/X1/X2/Y1/Y2)	24(Z1/Z2/X1/X2/Y1/Y2)














标准配置

Standard configuration
日本三菱 控制系统 Japan Mitsubishi system
彩色液晶显示屏 Color LCD display
主/背轴/动力头冷却系统 Main/sub spindle/live head cooling system
润滑系统 Lricating system
旋转套装置 Rotatory guide bush
主/背轴吹气装置 Main/sub spindle air blowing device
LED工作照明灯 LED working light
漏电保护装置 Electric leakage protection
变压器 Transformer
3色警示灯 3-colour tower light
上银/银泰丝杆/导轨, C3级 HIWIN/PMI screw/guide rail, Class 3
油箱 Cutting oil tank
主轴夹头/背轴夹头/导套各1个 Main/sub spindle collet 1pcs; guide bush 1 pcs
工具箱 Tool cabinet
传送带 Workpiece belt conveyor
操作说明书 Manual book
工件传送带 Workpiece belt conveyor

选配装置

Optional configuration
日本发那科/台湾新代控制系统 Japan FANUC/Taiwan SYNTEC control system
自动送料机 Automatic bar feeder
排屑机 Chip conveyor
油雾收集器 Oil mist collector
高压泵 High pressure pump
长工件回收装置 Long workpiece collector
外置照明灯 External working light
断丝锥检测装置 Tap breakage detector
材料切断检测装置 cut-off tool breakage detector
异形材料夹紧装置 Special shaped material clamping device

走心机技术参数表
EN series CNC Swiss Type Automatic Lathe Technical Parameter

型号 Model	SZ-12EN2	SZ-125EN1	SZ-125EN2	SZ-20EN2	SZ-20EN3	SZ-205EN1	SZ-205EN2	SZ-206EN	SZ-25EN2	SZ-25EN3	SZ-255EN1	SZ-255EN2	SZ-256EN
	3轴, 单主轴 3axis, single spindle	5轴, 双主轴 5axis, dual spindle	5轴, 双主轴 5axis, dual spindle	3轴, 单主轴 3axis, single spindle	3轴, 单主轴 3axis, single spindle	5轴, 双主轴 5axis, dual spindle	5轴, 双主轴 5axis, dual spindle	6轴, 双主轴 6axis, dual spindle	3轴, 单主轴 3axis, single spindle	3轴, 单主轴 3axis, single spindle	5轴, 双主轴 5axis, dual spindle	5轴, 双主轴 5axis, dual spindle	6轴, 双主轴 6axis, dual spindle
刀具排布简图 Cutting-tool layout sketch													
NC装置 NC device	三菱E80 Mitsubishi E80	三菱M80 Mitsubishi M80	三菱M80 Mitsubishi M80	三菱E80 Mitsubishi E80	三菱E80 Mitsubishi E80	三菱M80 Mitsubishi M80	三菱M80 Mitsubishi M80	三菱M80 Mitsubishi M80	三菱E80 Mitsubishi E80	三菱E80 Mitsubishi E80	三菱M80 Mitsubishi M80	三菱M80 Mitsubishi M80	三菱M80 Mitsubishi M80
电源 Power source	200VAC	200VAC	200VAC	200VAC	200VAC	200VAC	200VAC	200VAC	200VAC	200VAC	200VAC	200VAC	200VAC
机床额定功率 Lathe rated power	Kw	8	11	11	8	8	11	11	8	8	11	11	11
加工范围 Machining range													
最大加工直径 Max machining dia.	mm	Φ12	Φ12	Φ12	Φ20	Φ20	Φ20	Φ20	Φ26	Φ26	Φ26	Φ26	Φ26
主轴最大夹持直径 Main spindle max clamping dia.	mm	Φ12	Φ12	Φ12	Φ20	Φ20	Φ20	Φ20	Φ26	Φ26	Φ26	Φ26	Φ26
最大一次送料长度 Max feed length (once)	mm	205	205	205	Max 240	Max 240	Max 240	Max 240	Max 240	Max 240	Max 240	Max 240	Max 240
主/背轴 Main/sub spindle													
主轴功率 Main spindle power	Kw	1.5/2.2	1.5/2.2	1.5/2.2	2.2/3.7	2.2/3.7	2.2/3.7	2.2/3.7	2.2/3.7	2.2/3.7	2.2/3.7	2.2/3.7	2.2/3.7
背轴功率 Sub spindle power	Kw	-	1.5/2.2	1.5/2.2	-	-	1.5/2.2	1.5/2.2	-	-	1.5/2.2	1.5/2.2	1.5/2.2
主轴最大通孔直径 Main spindle max through hole dia.	mm	Φ13	Φ13	Φ13	Max Φ27	Max Φ27	Max Φ27	Max Φ27	Max Φ27	Max Φ27	Max Φ27	Max Φ27	Max Φ27
C轴分度 C axis resolution	°	C1 0.001°	C1/C2 0.001°	C1/C2 0.001°	C1 0.001°	C1 0.001°	C1/C2 0.001°	C1/C2 0.001°	C1 0.001°	C1 0.001°	C1/C2 0.001°	C1/C2 0.001°	C1/C2 0.001°
主/背轴转速 Main/sub spindle rev speed	rpm	Max12000	Max12000	Max12000	Max10000/12000	Max10000/12000	Max10000/12000	Max10000/12000	Max10000/12000	Max10000/12000	Max10000/12000	Max10000/12000	Max10000/12000
背轴最大夹持直径 Sub spindle max clamping dia.	mm	-	Φ12	Φ12	-	-	Max Φ20	Max Φ20	-	-	Max Φ26	Max Φ26	Max Φ26
背轴最大通孔直径 Sub spindle max through hole dia.	mm	-	Φ13	Φ13	-	-	Max Φ27	Max Φ27	-	-	Max Φ27	Max Φ27	Max Φ27
主轴最大行程 Main spindle max travel													
有导套 With guide bush	mm	205	205	205	240	240	240	240	240	240	240	240	240
无导套 Non guide bush	mm	2.5D	2.5D	2.5D	2.5D	2.5D	2.5D	2.5D	2.5D	2.5D	2.5D	2.5D	2.5D
最大刀具安装数量 Max tool installed qty.	pcs	16	20	20	14	16	22	22	14	16	22	22	26
车削刀具 OD Turning tool													
数量×型号 Qty.xModel		7x□10	7x□10	7x□10	6x□12	6x□12	6x□12	6x□12	6x□12	6x□12	6x□12	6x□12	6x□12
侧铣刀具 Cross live tool													
数量×型号 Qty.xModel		5xER11	5xER11	5xER11	4xER16	4xER16	4xER16	4xER16	4xER16	4xER16	4xER16	4xER16	4xER16
钻孔直径 Drilling dia.	mm	Max Φ7	Max Φ7	Max Φ7	Max Φ10	Max Φ10	Max Φ10	Max Φ10	Max Φ10	Max Φ10	Max Φ10	Max Φ10	Max Φ10
螺纹加工(攻丝/板牙) Tapping/Threading die dia.		Max M6	Max M6	Max M6	Max M8	Max M8	Max M8	Max M8	Max M8	Max M8	Max M8	Max M8	Max M8
动力头转速 Live tool rev speed	rpm	Max5000	Max5000	Max5000	Max5000	Max5000	Max5000	Max5000	Max5000	Max5000	Max5000	Max5000	Max5000
动力头功率 Live tool power	Kw	1	1	1	1	1	1	1	1	1	1	1	1
端面刀具 End-face tool(主轴Main spindle)													
固定 Fixed													
数量×型号 Qty.xModel		4xER16	4xER16	4xER16	4xER16	3xER16	4xER16	4xER16	4xER16	3xER16	4xER16	4xER16	4xER16
钻孔直径 Drilling dia.	mm	Max Φ10	Max Φ10	Max Φ10	Max Φ10	Max Φ10	Max Φ10	Max Φ10	Max Φ10	Max Φ10	Max Φ10	Max Φ10	Max Φ10
螺纹加工(攻丝/板牙) Tapping/Threading die dia.		Max M8	Max M8	Max M8	Max M8	Max M8	Max M8	Max M8	Max M8	Max M8	Max M8	Max M8	Max M8
动力 Live													
数量×型号 Qty.xModel		-	-	-	-	3xER16	-	-	-	3xER16	-	-	-
钻孔直径 Drilling dia.	mm	-	-	-	-	Max Φ8	-	-	-	Max Φ8	-	-	-
螺纹加工(攻丝/板牙) Tapping/Threading die dia.		-	-	-	-	Max M6	-	-	-	Max M6	-	-	-
动力头转速 Live tool rev speed	rpm	-	-	-	-	Max5000	-	-	-	Max5000	-	-	-
动力头功率 Live tool power	Kw	-	-	-	-	0.4	-	-	-	0.4	-	-	-
背面刀具 Back end-face tool(背轴Sub spindle)													
固定 Fixed													
数量×型号 Qty.xModel		-	4xER16	-	-	-	4xER16	-	4xER16	-	-	-	4xER16
钻孔直径 Drilling dia.	mm	-	Max Φ10	-	-	-	Max Φ10	-	Max Φ10	-	Max Φ10	-	Max Φ10
螺纹加工(攻丝/板牙) Tapping/Threading die dia.		-	Max M8	-	-	-	Max M8	-	Max M8	-	Max M8	-	Max M8
动力 Live													
数量×型号 Qty.xModel		-	-	*4xER16	-	-	-	*4xER16	4xER16	-	-	*4xER16	4xER16
钻孔直径 Drilling dia.	mm	-	-	Max Φ10	-	-	-	Max Φ10	Max Φ10	-	-	Max Φ10	Max Φ10
螺纹加工(攻丝/板牙) Tapping/Threading die dia.		-	-	Max M6	-	-	-	Max M6	Max M6	-	-	Max M6	Max M6
动力头转速 Live tool rev speed	rpm	-	-	Max5000	-	-	-	Max5000	Max5000	-	-	Max5000	Max5000
动力头功率 Live tool power	Kw	-	-	1	-	-	-	1	1	-	-	1	1
快速进给速度 Rapid feed speed	m/min	30(Z/Y)15(X)	30(Z1/Z2/X2/Y)15(X1)	30(Z1/Z2/X2/Y)15(X1)	30(Z/Y)24(X)	30(Z/Y)24(X)	30(Z1/Z2/X2/Y)24(X1)	30(Z1/Z2/X2/Y)24(X1)	30(Z/Y)24(X)	30(Z/Y)24(X)	30(Z1/Z2/X2/Y)24(X1)	30(Z1/Z2/X2/Y)24(X1)	30(Z1/Z2/X2/Y)24(X1)
进给电机功率 Feed motor power	Kw	1(Z/X/Y)	1(Z1/Z2/X1/X2/Y)	1(Z1/Z2/X1/X2/Y)	1(Z/X/Y)	1(Z/X/Y)	1(Z1/Z2/X1/X2/Y)	1(Z1/Z2/X1/X2/Y)	1(Z/X/Y)	1(Z/X/Y)	1(Z1/Z2/X1/X2/Y)	1(Z1/Z2/X1/X2/Y)	1(Z1/Z2/X1/X2/Y)
切削油泵功率 Cutting oil pump power	Kw	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
主/背轴冷却油泵功率 Main/sub spindle cooling oil pump power	Kw	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
润滑油泵功率 Lubricating oil pump power	Kw	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035
接料盒最大接料长度 Max collecting length of workpieces collect box	mm	50	80	80	50	50	90	90	50	50	90	90	80
主轴高度(主/背轴距离床身最底部) Main/sub spindle center to the bottom of lathe body	mm	990	990	990	1050	1050	1050	1050	1050	1050	1050	1050	1050
切削油箱体积 Cutting oil tank volume	L	100	160	160	150	150	180	180	150	150	180	180	180
净重 Net weight	Kg	1910	2500	2500	1950	1950	2600	2600	1950	1950	2600	2600	2700
外形尺寸 (长×宽×高) Dimensions(LxWxH)	mm	1914x1313x1708	2068x1210x1698	2068x1210x1698	1868x1302x1738	1868x1302x1738	2178x1278x1780	2178x1278x1780	1868x1302x1738	1868x1302x1738	2178x1278x1780	2178x1278x1780	2178x1278x1780

注Notes:
1. 车削刀具长度 OD Turning tool length: 125mm
2. *4xER16: 标配2支动力、2支固定刀座(可选4支抽芯动力刀座) *4xER16: Standard 2 live and 2 fixed tool holder (Option: 4 live tool holder)
技术参数 如有变更, 恕不另行通知。 Technical parameters are subject to change without prior notice.

12 系列 12 series		
选配系统 OP system	SYNTEC 22TB/220TB	FANUC Oi-TF Plus
电源 Power source	380VAC	200VAC
动力头伺服电机功率/转速 Live head servo motor power/rev speed	1Kw/5000rpm	0.75Kw/4000rpm
进给电机功率 Feed motor power(Kw)	1Kw(Z1/Z2/X1/X2/Y1)	0.75Kw(Z1/Z2/X1/X2/Y1)
快速进给速度 Rapid feed speed(m/min)	30(Z1/Z2/X2/Y1)24(X1)	30(Z1/Z2/X2/Y1)24(X1)

20/25 系列 20/25 series		
选配系统 OP system	SYNTEC 22TB/220TB	FANUC Oi-TF Plus
电源 Power source	380VAC	200VAC
动力头伺服电机功率/转速 Live head servo motor power/rev speed	1Kw/5000rpm	0.75Kw/4000rpm
进给电机功率 Feed motor power(Kw)	1(Z1/Z2/X1/X2/Y1)0.4(Y2)	0.75(Z1/Z2/X1/X2/Y1)0.5(Y2)
快速进给速度 Rapid feed speed(m/min)	30(Z1/Z2/X2/Y1)24(X1),15(Y2)	30(Z1/Z2/X2/Y1)24(X1),15(Y2)

标准配置
Standard configuration
日本三菱控制系统 Japan Mitsubishi Control System
彩色液晶显示屏 Color LCD display
主/背轴冷却系统 Main/sub spindle cooling system
润滑系统 Lricating system
旋转导套装置 Rotatory guide bush
主/背轴吹气装置 Main/sub spindle air blowing device
LED工作照明灯 LED working light
漏电保护装置 Electric leakage protection
变压器 Transformer
3色警示灯 3-colour tower light
上银/银泰丝杆/导轨 HIWIN/PMI screw/guide rail
油箱 Cutting oil tank
主轴夹头/背轴夹头/导套各1个 Main/sub spindle collet 1pcs; guide bush 1 pcs
工具箱 Tool cabinet
操作说明书 Manual book

选配装置
Optional configuration
自动送料机 Automatic bar feeder
排屑机 Chip conveyor
油雾收集器 Oil mist collector
高压泵 High pressure pump
长工件回收装置 Long workpiece collector
工件传送带 Workpiece belt conveyor
外置照明灯 External working light
断丝锥检测装置 Tap breakage detector
材料切断检测装置 cut-off tool breakage detector
异形材料夹紧装置 Special shape material clamping device

走心机加工案例

CNC Swiss Type Lathe Machining Cases Display

展会照片+工程案例

Exhibition Photos and Engineering Cases



电脑和消费性电子行业
Computer and Consumer Electronic Industry



汽车行业
Auto Industry



首饰行业
Jewelry Industry



制锁行业
Locking-making Industry



通讯行业
Communication Industry



医疗行业
Medical Industry



渔具行业
Fishing Tools Industry



其它行业
Other Industries

