



JAZZ



3-4-5 轴加工中心 · 3-4-5 AXIS MACHINING CENTERS



JAZZ R 5AX是FAGIMA生产的最小型5轴机床。全封闭式钣金设计，安装摇篮式五轴旋转工作台。除了滑动式正大门，JAZZ R 5AX在机器右侧还设计了一个侧门，便于工件的装载和固定。

托盘管理系统位于右侧门位置，这种额外的组件适用于自动化情景。FAGIMA同时也提供不同操作系统的解决方案，以及将40位标准刀库增加到其它特殊要求

The JAZZ R 5AX is the smallest 5-axis machine produced by FAGIMA. Fully enclosed sheet metal design, mounted cradle type five-axis rotary table. In addition to the sliding front door, the JAZZ R 5AX has a side door on the right side of the machine for easy loading and securing of the workpiece.

The tray management system is located on the right door, and this additional component is suitable for automation scenarios. FAGIMA also offers solutions for different operating systems, as well as the addition of the 40-bit standard knife library to other special requirements

JAZZ R 5 AX is the smallest 5-axis machine produced by Fagima. This fully guarded equipped CNC machine is defined by a single swivel rotary table. In addition to a sliding front access door, the JAZZ R 5 AX is equipped with a further door on the right side of the machine which allows loading and fixing of components onto the rotary table.

This extra component loading is suitable for automation structures, using a pallet change system. Fagima also offers different solutions for specific dedicated systems with the provision of special tool magazines to be added to the 40 positions standard one.

■ 选配.清洗喷嘴
■ Opt. washing nozzles

■ 载重高达500kg
■ Loading up to 500 kg



JAZZ R 5 AX

行程/ Strokes

X轴/ X axis	mm 750 (opt. 650)
Y轴/ Y axis	mm 600 (opt. 650)
Z轴/ Z axis	mm 550
总高度/ Total light	170-720
主轴鼻端-工作台距离/ Distance spindle nose-table	mm 30(opt. 170)

进给/ Feed rates

X, Y, Z 轴进给/ axis feed	m/min 45
X, Y, Z 轴工作进给/ axis work	m/min 20

摇篮式五轴工作台/ Tilting rotary table

工作台面尺寸/ Table dimensions	mm 600x600
工作台最大载重/ Max load on table	Kg 300 (opt. 500)

旋转轴(C) / Rotary axis (C)

C轴旋转范围/ C axis rotation range	0-360°
最高转速/ Max speed rotation	rpm 25

摆动轴 (B) / Tilting axis (B)

摆动范围/ Tilting range	± 110
最高转速/ Max speed	rpm 25(opt. 16.6)

直联式机械主轴 / Coaxial mechanical spindle

海德汉系统TNC 640/ CNC Heidenhain TNC 640

主轴型式/ Spindle taper	ISO40 DIN69871
主轴功率 (S6)/ Spindle power	Kw17(opt. 25)
电机扭矩 (S6)/ Torque motor	Nm108,60
最高转速/ Max speed	rpm 12000

40刀位随机自动换刀系统/ 40 positions random tool change

最大刀具直径/ Max tool diam.	mm 75 (opt. 127)
最大刀具长度/ Max tool lenght	mm 300 (opt. 350)
最大刀具重量/ Max tool weight	Kg 8
换刀时间/ Tool / tool change time	sec 2,3 (opt. 1,5)
刀具总重量/ Total max tools weight	Kg 200

刮板式 / Scraping chip conveyor

标准数控系统CNC standard: 海德汉Heidenhain TNC 640

经济型数控系统CNC ECO.: 西门子SEIMENS 828D

机床总重/ Machine total weight	Kg 9000
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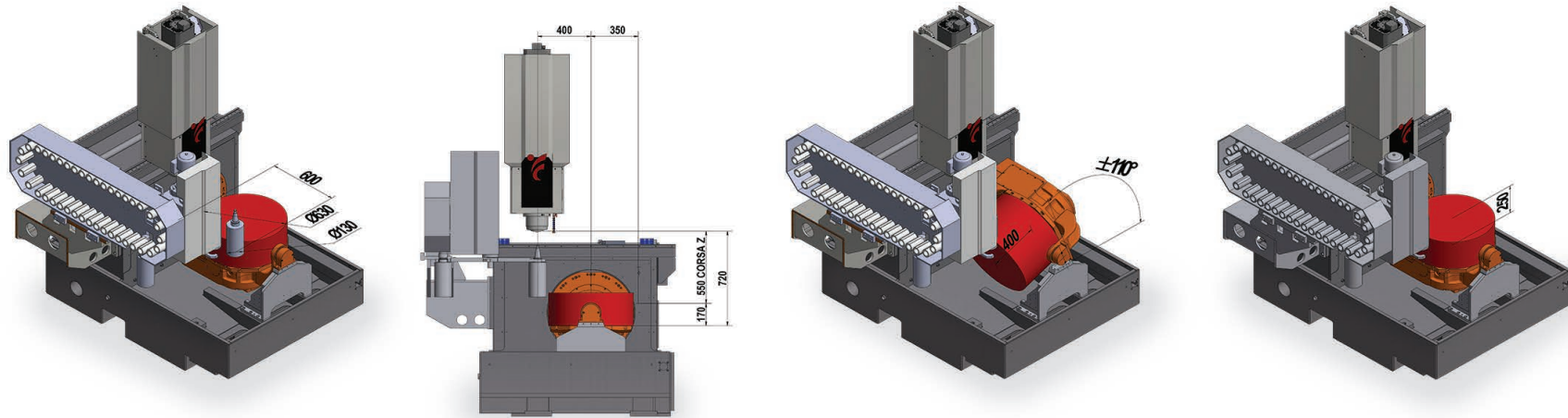
JAZZ R5AX



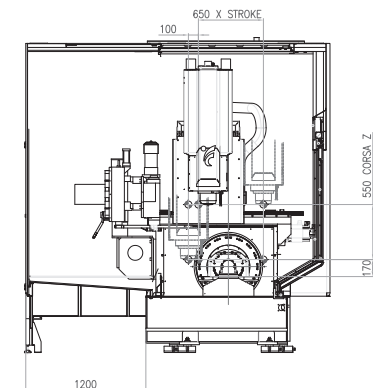
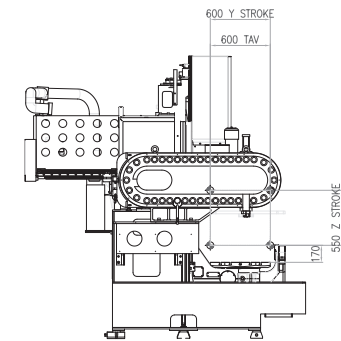
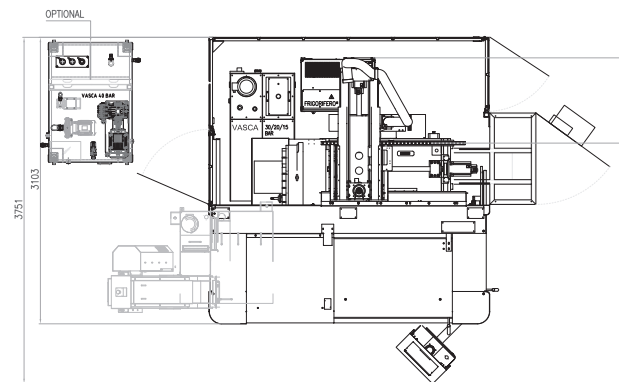
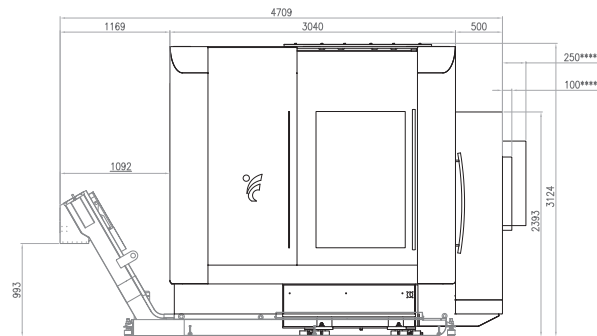
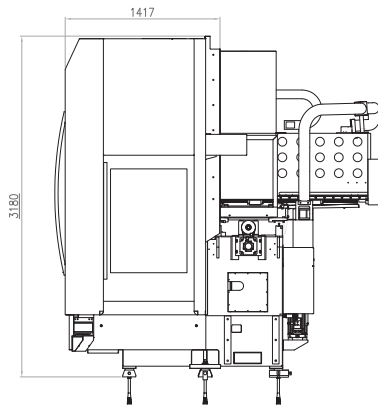
■ 右侧门设计，便于装载和观察工件，连接自动托盘管理系统。

■ *Additional door on the right side for easy loading of the table or connection to automatic pallet changer system.*

JAZZ R 5 AX 加工范围示例 - *Examples of machining*



布局图Layout





新设计的JAZZ M 5 AX 再次强调其多用途的特点。客户在制定加工解决方案时，总希望在设备行程和多样化的产品加工范围之间做出权衡。更具性价比，更广泛加工范围的JAZZ M机型由此诞生。

JAZZM结合了JAZZL和JAZZR的特点，操作区域不仅保留了JAZZL的固定工作台和旋转工作台的组合形式，布局也有类似JazzR的前门和侧开门方案，是为自动化操作（例如自动托盘切换系统）预留的空间接口

The newly designed JAZZ M 5 AX again emphasizes its versatility. When developing a processing solution, customers always want to make a trade-off between equipment travel and a diverse range of product processing. The JAZZ M model is more cost-effective and has a wider processing range.

JAZZM combines the features of JAZZL and JazzR, the operation area not only retains the JAZZL's combination of fixed and rotating tables, but also has the Jazz l-like front door and side door scheme, which is a space interface reserved for automated operations (such as automatic pallet switching system)

JAZZ M 5 AX was introduced in completing JAZZ range, emphasizing once again the versatility. In this case, too, the base frame is obtained by filling of electrowelded structures, by means of composite material (enriched mineral casting, DMP).

In looking for the right balance between dimensions and variety of working solutions, JAZZ M 5 AX represents the "summa" of the different characteristics that determined the success of JAZZ R 5 AX and JAZZ L 5 AX.

Therefore maintaining a workspace as the JAZZ L 5 AX with the combination of a fixed table and a swivel rotary table, its layout approaches to the one of JAZZ R 5 AX with a frontal door and a lateral one, especially useful for automatized operations as an automatic pallet change system.

JAZZ M 5 AX

行程 / Strokes

X轴/ X axis	mm 1550
Y轴/ Y axis	mm 600 (opt.650)
Z轴/ Z axis	mm 550
主轴鼻端-工作台距离/ Spindle nose/table distance.....	mm 30(opt.170)

进给 / Feed rates

X, Y, Z 轴进给/ axis feed	m/min45
X, Y, Z 加工进给/axis work.....	m/min20

固定工作台 / Fixed table

工作台尺寸/ Table dimensions	mm 800x800(600)
工作台最大载重 (每平方米) / Max load on table (per m2).....	Kg 1000

摇篮式五轴工作台 / Tilting rotary table

运行轴 (X) 行程/ Axis stroke.....	mm 600
工作台尺寸/ Table dimensions	mm 600x600
工作台最大载重 / Max load on table.....	Kg 300(opt.500)

旋转轴 (C) / Rotary axis (C)

C轴旋转范围/ C axis rotation range.....	0-360°
最高转速/ Max speed rotation	rpm 25

摆动轴 (B) / Tilting axis (B)

摆动范围/ Tilting range.....	± 110°
最高转速/ Max speed.....	rpm25(16.6)

直联式机械主轴 海德汉系统/ Coaxial mechanical spindle CNC Heidenhain

主轴型式 / Spindle taper.....	ISO40 DIN69871
主轴功率(S6-25%) 海德汉/ Spindle power.....	Kw 17
电机扭矩(S6-25%) 海德汉 / Torque motor	Nm 108,60
最高转速 / Max speed.....	rpm 12000

40刀位随机自动换刀系统/ 40 positions random tool change

最大刀具直径/ Max tool diam.....	mm75(127)
最大刀具长度/ Max tool lenght.....	mm 350(opt.300)
最大刀具重量/ Max tool weight.....	Kg 8
换刀时间 (刀/刀)/ Tool / tool change time	Sec 1,5(opt.2,3)
最大刀具重量/ Total max tools weight.....	Kg 200

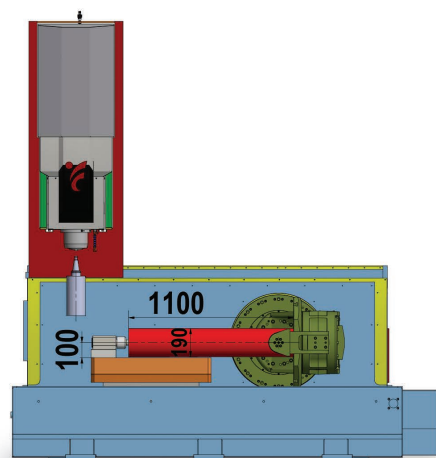
刮板式排屑器 / Scraping chip conveyor

标准数控系统CNC standard: 海德汉Heidenhain TNC 640

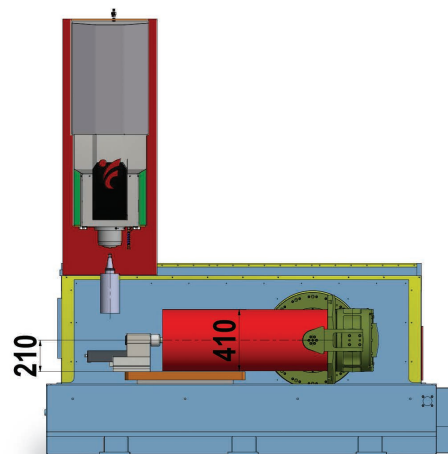
经济型数控系统CNC ECO.: 西门子SEIMENS 828D

机床总重/ Machine total weight	Kg 13000
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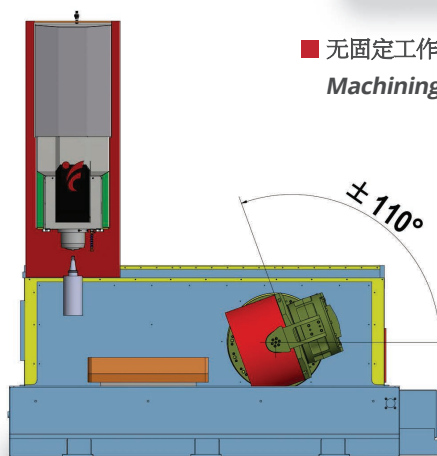
JAZZ M 5 AX 加工范围示意图 - Examples of machining



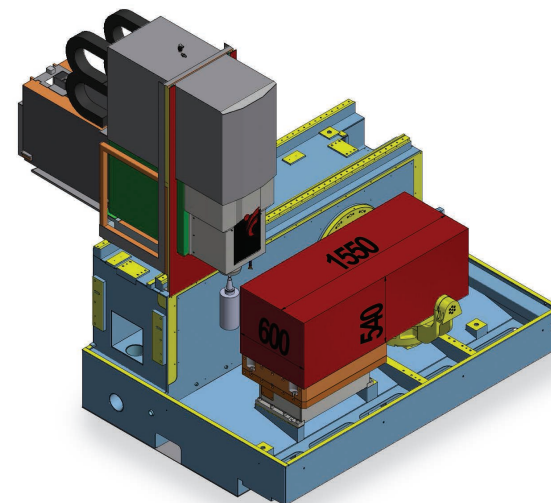
■ 第四轴卧式加工轴
Machining of a shaft with standard table



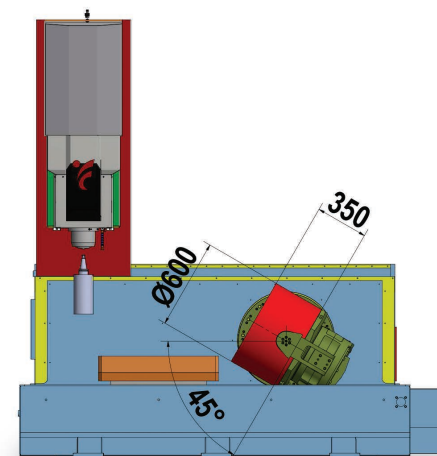
■ 无固定工作台面时，第四轴卧式加工（选配）
Machining of a shaft without subtable (opt.)



■ 对称倾斜范围±110
Symmetrical tilting range ± 110

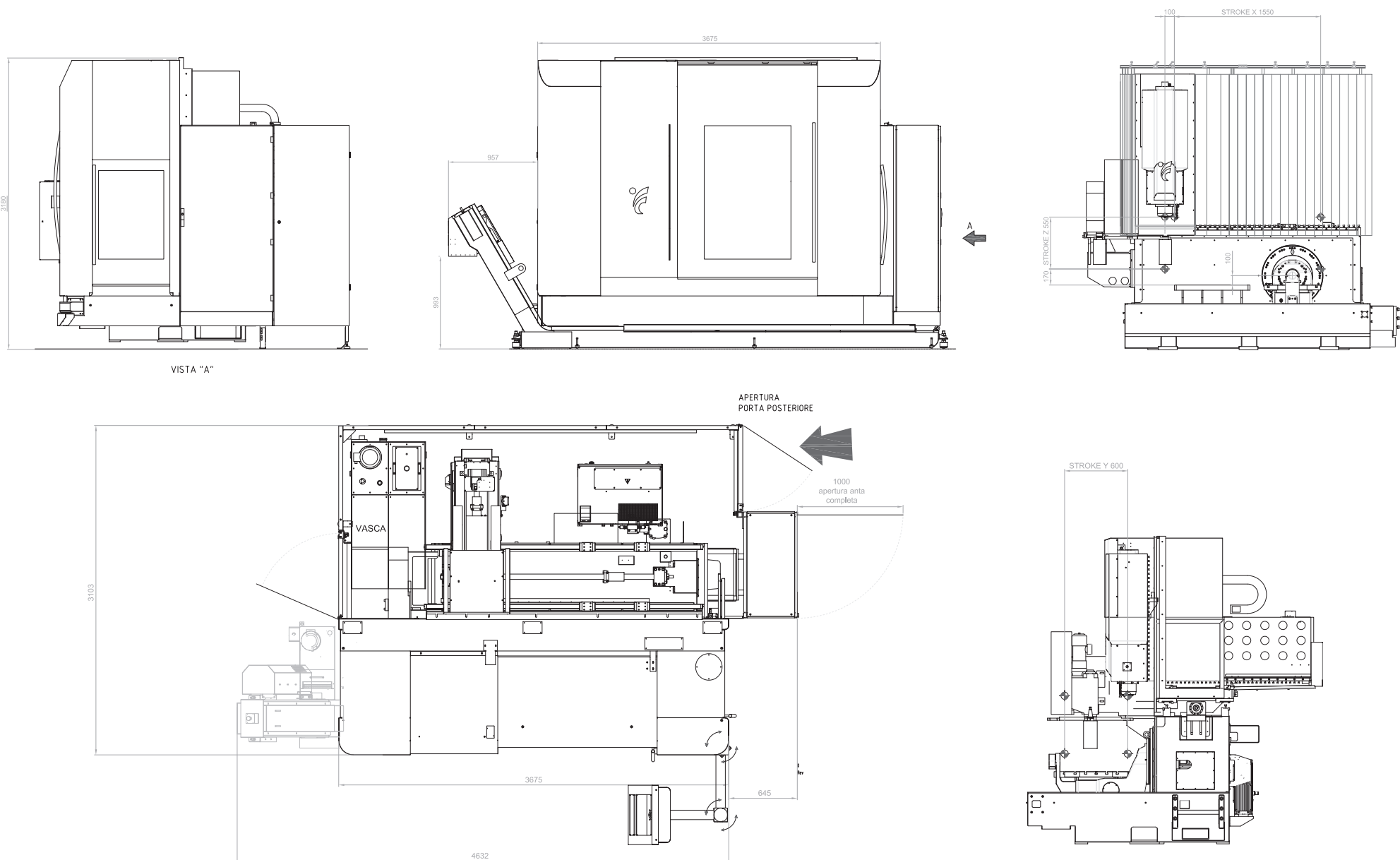


■ 全x行程的3轴加工
3 ax machining on full X stroke



■ 最大加工件尺寸
Max machining part dimensions

JAZZ M 5 AX 布局图 Layout





JAZZ L 5 AX 在继承了JAZZ系列特点的基础上，增强了功能性，让最终用户受益更多。机床防护用新型的顶部斜面和圆角设计，使机床外观更漂亮。JAZZ L 5 AX 配有一个固定工作台和一个摇篮式工作台。JAZZ L 创新设计包括两个可滑动的前门，便于操作人员进入工作区域。机床可加装一面位于中部的隔断墙，把加工区域一分为二。

***JAZZ L 5 AX** replicates the combined concept of the JAZZ with a growth in versatility that provides benefits for the end user. The machine guarding based upon a new style of beveled top and rounded corners, gives a more quality finish to the machine. JAZZ L 5 AX is equipped with a fixed table and a swivel rotary table. The innovative design of JAZZ L includes the two sliding front doors that give easy access to the wide working area: this also allows the possibility of two machining areas thanks to the inclusion of options like a central wall along with an additional tool magazine.*

请了解

JAZZ机型的主体结构采用DMP铸件技术制造，它是传统焊接钢、铸铁和花岗岩的替代品。
此技术有几个优点：

- 提升机床的高动态稳定性
- 随时间变化，结构无变形性
- 刀具接触工件时震动最小
- 刀具/工件区域发热最少区域

Things to know

Main structures of JAZZ models are made with DMP technique; it is an alternative to traditional welded steel, cast iron and granite elements.

Several advantages come from this technique:

- High dynamical stability of the machine
- Non-deformability over time
- Minor vibration in the tool contact area
- Minor thermal generation in the tool/piece area

JAZZ L 5 AX

行程/ Strokes

X轴/ X axis	mm 2000
Y轴/ Y axis	mm 600(opt.650)
Z轴/ Z axis	mm 550
主轴鼻端-工作台距离/ Spindle nose/table distance	mm 30

进给/ Feed rates

X, Y, Z 轴进给/ axis feed.....	m/min 45
X, Y, Z 加工进给/ axis work.....	m/min20

固定工作台 / Fixed table

运行轴 (X) 行程/ Axis stroke.....	mm 1250
工作台面尺寸 / Table dimensions	mm 1250x800(600)
工作台最大载重 (每平方米) / Max load on table (per m2).....	Kg 1000

摇篮式五轴工作台/ Tilting rotary table

运行轴 (X) 行程/ Axis stroke.....	mm 600
工作台面尺寸 / Table dimensions.....	mm 600x600
工作台最大载重 / Max load on table.....	Kg 300(opt.500)

旋转轴(C) / Rotary axis (C)

C轴旋转范围/ C axis rotation range.....	0-360
最高转速 / Max speed.....	rpm 25°

摆动轴 (B) / Tilting axis (B)

摆动范围 / Tilting range.....	± 110°
最高转速 / Max speed.....	rpm25(16.6)

直联式机械主轴 海德汉系统 / Coaxial mechanical spindle CNC Heidenhain

主轴型式/ Spindle taper.....	ISO40 DIN69871
主轴功率(S6-25%) Heidenhain / Spindle power.....	Kw 17
电机扭矩 (S6-25%) / Heidenhain / Torque motor.....	Nm108,60
最高转速/ Max speed.....	rpm 12000

40刀位随机自动换刀系统/ 40 positions random tool change

最大刀具直径/ Max tool diam.....	mm75(127)
最大刀具长度/ Max tool lenght.....	mm 300
最大刀具重量/ Max tool weight.....	Kg 8
换刀时间 (刀/刀) / Tool - Tool change time	sec 1,5(2,3)
最大刀具重量 / Total max tools weight.....	Kg 200

刮板式排屑器/ Scraping chip conveyor

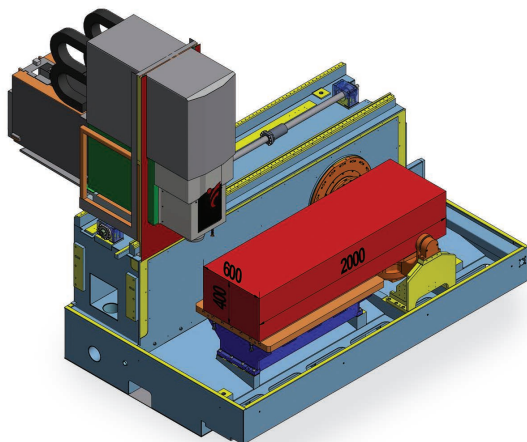
标准数控系统CNC standard: 海德汉Heidenhain TNC 640

经济型数控系统CNC ECO.: 西门子SEIMENS 828D

机床总重 / Machine total weight.....	Kg 15000
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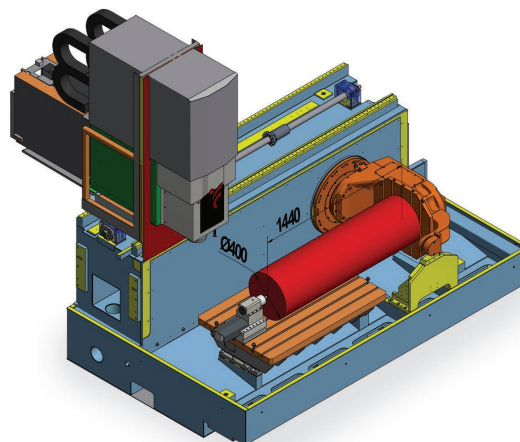
JAZZ L 5 AX - 加工范围示意图 Examples of machining

3 AX



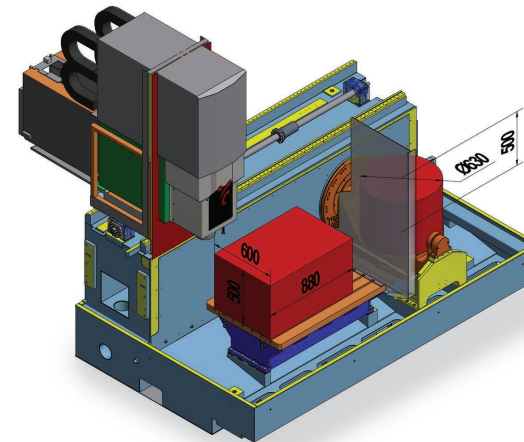
■ 全X行程的3轴加工
3 ax machining on full X stroke

4 AX

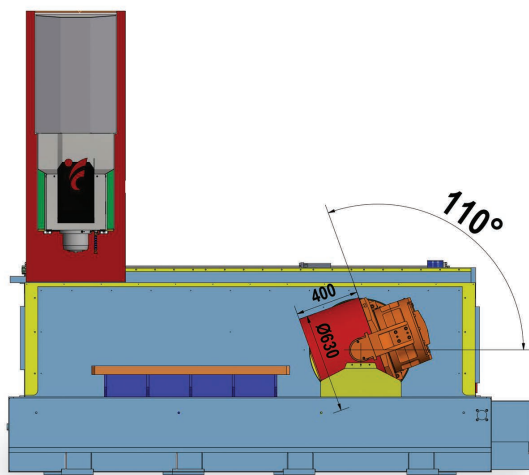


■ 第四轴卧式加工(选配)
Machining a shaft without subtable (opt.)

5 AX

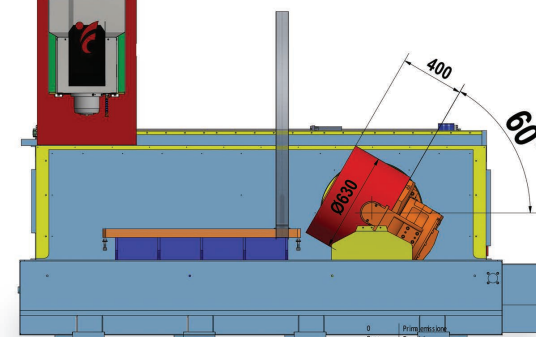


■ 双加工位(选配)
Pendular machining (opt)



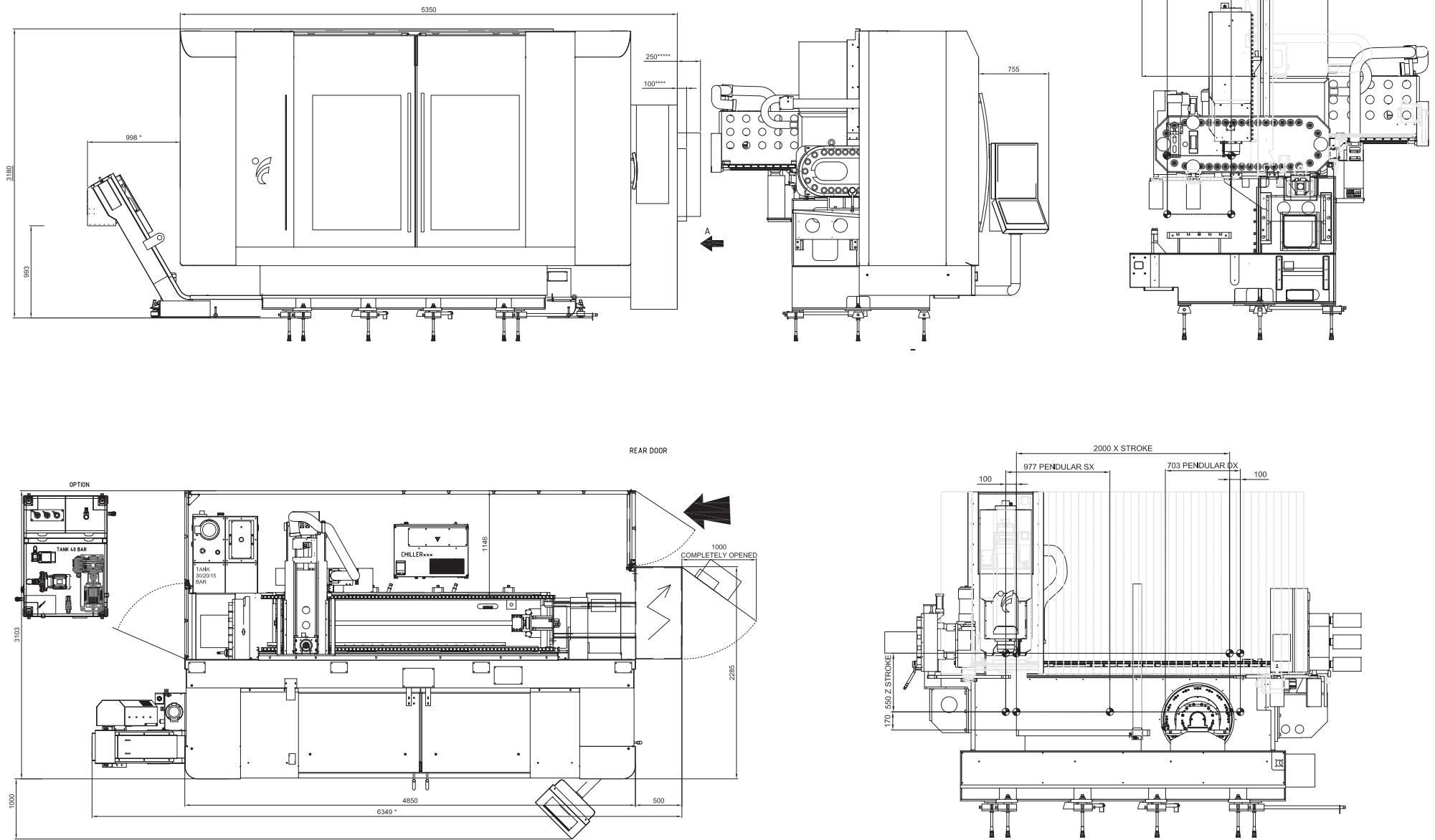
■ 对称倾斜范围±110
Symmetrical tilting range ± 110

3 + 5 AX 双加工位Penduling machining



■ 摆动操作期间摆动/旋转工作台上的最大加工件尺寸
Max machining part dimensions on tilting/rotary table during pendular operations

JAZZ L 5 AX 布局图 Layout

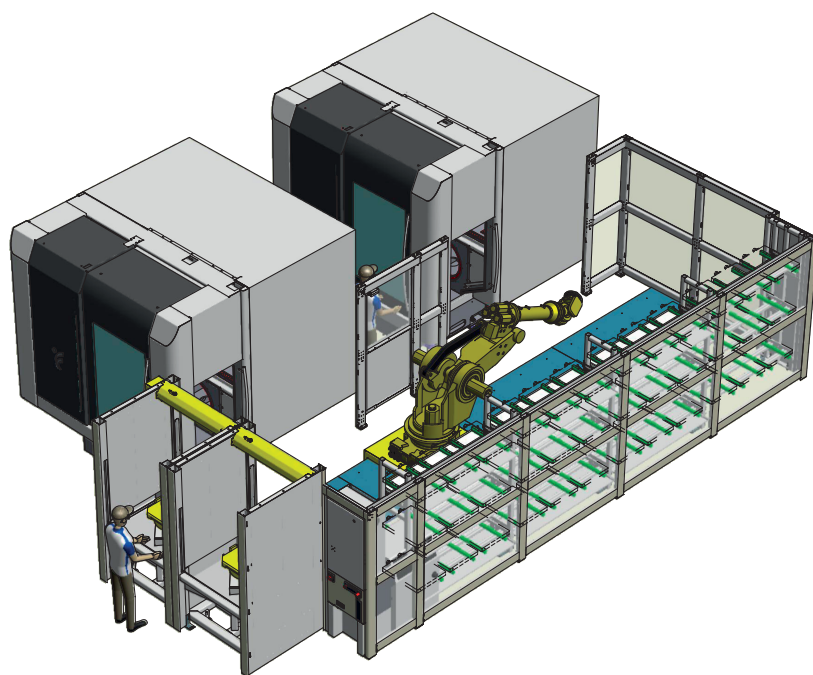


自动托盘管理系统示例

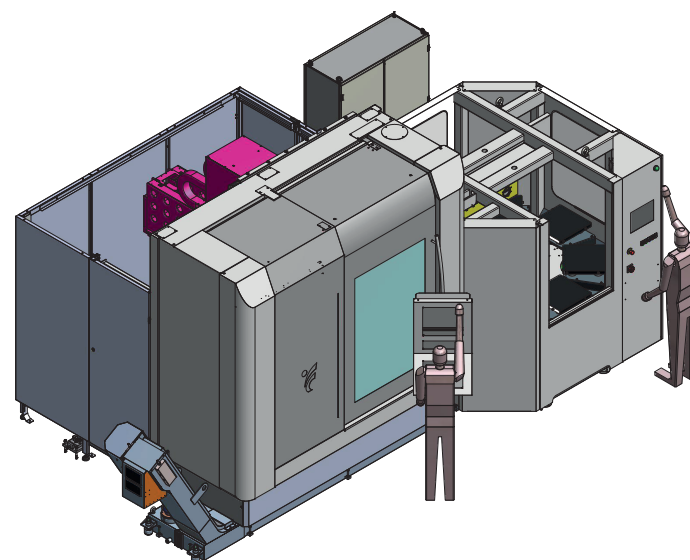
JAZZ R 5 AX e JAZZ M 5 AX

Examples of automatic pallet changer systems

with JAZZ R 5 AX and JAZZ M 5 AX



JAZZ系列拥有（R、L、M）可以自由选配的方式进行个性定制，使得机床拥有最佳的可靠性。JAZZ系列产品最大特点是给机床赋予最强大的多功能性。该系列机床可选配不同转速和功率的主轴，匹配各知名的CNC品牌、不同刀位的刀库以及各种自动化方案。



The JAZZ 5 AX range can be customized by a large number of options to allow the best fruitability of the chosen machine, R, L or M whatever model. Aim is to grant the largest versatility which is the main characteristic of such product range. Machines could be equipped with: electrospindles having different speed and power, with the most known CNC brands and models, tools magazine with different capability, accuracy kits, various systems of automatic pallet change and other.

注意Note

JAZZ系列机型的出现是对2013年推出的创新型JAZZ机床的后续发展。

底座通过专门为铣床开发的DMP铸造工艺制成。它是具有高性能矿物铸件的减振复合材料。

标准配置与多可选多变化配置的结合，使新的多功能机型适用于机床各个领域的不同用途。

JAZZ系列机型采用了创新的意大利制造和纯正意大利设计，具有新的外观，强调了对细节的重视，并增加了性能和可靠性。

JAZZ models arise as a consequent development of the innovative model JAZZ introduced in 2013.

The base frame is made through DMP process specifically developed for milling machine. It is a damping-vibration composite material with high performance mineral casting.

The standard equipment combined with targeted optional variants make the new versatile models suitable for different uses in the various sectors of machine tools.

The innovated pure made in Italy design adopted for the models JAZZ, with the new shapes, underlines the attention to detail and gives the appearance of solidity and reliability.

主要选项/ Main options

Jazz 5 AX 各系列/ All Models

- C轴和B轴上配置绝对编码器/ Absolute encoders on C and B axes
- X、Y、Z轴配置光栅尺/ Optical scales on X, Y, Z axes
- 高速选项45m/min进给速度/ High speed option 45m/min feed rates
- 主轴高压中心出水20-40-60 bar / High pressure through the spindle 20-40-60 bar
- 工作区内高压清洗系统/ High pressure washing system inside working area
- 链式排屑机/ Belt chip conveyor
- 自动开关门/ Opening-closing doors automation
- 托盘管理系统解决方案/ Pallet change system solutions
- 机械主轴 (S1): 15Kw, 95.5 Nm - (S6): 25Kw, 159.9 Nm Heidenhain
- CNC Mechanical spindle ISO40/BT40-12000 rpm
- 机械主轴 / Mechanical spindle ISO40/BT40-15000 rpm
- 电主轴 / Electrospindle ISO40/BT40-16000 rpm
- 电主轴 / Electrospindle HSK63-24000 rpm
- 电柜空调/ Air conditioner for electrical cabinet
- BT40 60-120位随机刀库/
- BT40 60- 120 Positions random tool magazine JAZZ R - JAZZ M
- 60-120位随机刀库 HSK63
- 60-120 Positions random tool magazine JAZZ R - JAZZ M
- 60位随机刀库 ISO40 / BT40 HSK63
- 60 Positions random tool magazine JAZZ L
- Sovratavola per tavola fissa / Sub table for fixed table JAZZ M - JAZZ L
- 气枪 / Air gun
- 水枪 / Flash gun
- 工件测量仪/ Tracking system for workpiece dimensions and alignment check
- 刀具测量仪 / System for measuring tool dimensions and integrity
- 用激光干涉仪式球杆仪校正机床精度
- Precision machine setup by LASER or BALLBAR
- 手动或自动尾座 / Manual or automatic tail-stock
- 校准球 / Calibration sphere
- 五轴联动加工/ (Software option 2) Simultaneous 5 axis machining Heidenhain CNC
- Kinematics优化选项 / Kinematics option Heidenhain CNC
- 动态控制监测 / Dynamic Control Monitoring DMC Heidenhain CNC
- 可选CNC available: Siemens

仅JAZZ L / For JAZZ L only

双工位系统 / Pendular system with wall

40或60位第二刀库/ 40 or 60 pos. additional tool magazine

固定工作台上的行程/ Strokes on fixed table

- X轴/ X axis mm 890
- Y轴/ Y axis mm 650
- Z轴/ Z axis mm 550

摇篮式转台上的行程 / Strokes on tilting rotary table

- X轴/ X axis mm 600
- Y轴/ axis mm 650
- Z轴/ Z axis mm 550

JAZZ系列还提供了适用于JAZZ M和L的3轴方案。

JAZZ系列三轴版本的主要配置完全保留了五轴版本中除了“五轴”的所有配置。

同样，JAZZ三轴机型也可以像五轴版本一样将加工区域分隔为两部分，实现双加工位加工。标准版本采用可靠的CNC SIEMENS 828D

The JAZZ range also offers the availability of the JAZZ M and L in the 3-axis versions.

In such 3-axis versions, equipment and options don't change with the exception of what concerns 5 axis operations, which obviously will not be available.

JAZZ L 3 AX as well the 5 axis model will grant the option of pendulum system, thanks to its design which allows the separation of 2 different working areas and installation of a second tool magazine. Standard versions are proposed with the reliable CNC SIEMENS 828D.

JAZZ M 3轴 - JAZZ L 3 AX

主要参数- Main features

■行程/ Strokes

		JAZZ M	JAZZ L
X轴/ X axis	mm	1550	2000
Y轴/ Y axis	mm	650	650
Z轴/ Z axis	mm	550	550
主轴鼻端-工作台距离 / Spindle nose - table distance	mm	170	170
Z轴总长 - Total light Z axis	mm	720	720
工作台尺寸 - Table dimensions	mm	1550x800	2000x800
工作台最大载重 (每平方米) - Max load on table (per m ²)	Kg	1000	1000

■直联式机械主轴 / Coaxial mechanical spindle

主轴型式/ Spindle taper		ISO40 DIN69871	
主轴功率(S6-30%) Fanuc / Spindle power	kW	18,5	18,5
电机扭矩 (S6-30%) Fanuc / Torque motor	Nm	125	125
最高转速 / Max speed	rpm	12000	12000

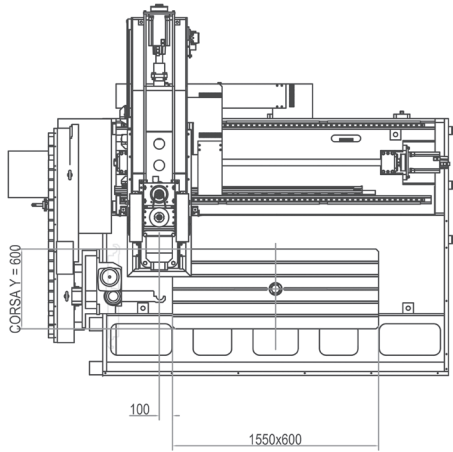
■刀位随机自动换刀系统/ 40 positions random tool change

最大刀具直径 / Max tool diam	mm	75 (130)	75 (130)
最大刀具长度 / Max tool lenght	mm	300	300
最大刀具重量/ Max tool weight	Kg	8	8
换刀时间 (刀/刀)/ Tool - tool change time	sec	2,30	2,30
最大刀具重量/ Total max tools weight	Kg	200	200

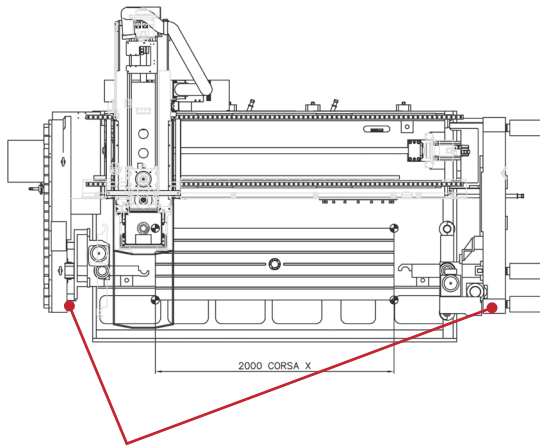
■刮板式排屑器 / Scraping chip conveyor

■机床总重 / Machine total weight	Kg	13000	15000
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JAZZ M 3 AX 外形 JAZZ M 3 AX frame



JAZZ L 3 AX 外形 JAZZ L 3 AX frame



- 双刀库 (选配)
- Double tool magazine (Opt.)

主要选项 JAZZ M 3 AX - L 3 AX Main options JAZZ M 3 AX - L 3 AX

- X、Y、Z 配备轴光栅尺 / Optical scales on X, Y, Z axes
- 高速选项 40 m/min 进给速度 / High speed option 40 m/min feed rates
- 主轴高压中心出水 20/40/60 bar / High pressure through the spindle 20/40/60 bar
- 工作区内高压清洗系统 / High pressure washing system inside working area
- 链式排屑机 / Belt chip conveyor
- 自动开关门 / Opening closing doors automation
- 托盘管理系统解决方案 / Pallet change system solutions
- 气枪-空气水枪 / Air gun - Air Water Gun
- 机械主轴 / Mechanical spindle ISO40-15000 rpm
- 电主轴 / Electro spindle ISO40-BT40-16000 rpm
- 电主轴 / Electro spindle HSK63 -24000 rpm
- 电柜空调 / Air conditioner for electrical cabinet
- 60 位随机刀库 / 60 pos. random tool magazine ISO40-BT40
- 40, 60 位随机刀库 / 40, 60 pos. random tool magazine HSK63
- 工件测量仪 / Tracking system for workpiece dimensions and alignment control
- 刀具测量仪 / Systems for measuring tools dimensions and integrity
- CNC: Heidenhain / Siemens

关于 JAZZ L / For JAZZ L

双工位系统 paratia / Pendular system with wall

左侧固定工作台行程 / Strokes on fixed table on the left

- X 轴 / X axis mm 740
- Y 轴 / Y axis mm 650
- Z 轴 / Z axis mm 550

右侧固定工作台行程 / Strokes on fixed table on the right

- X 轴 / X axis mm 740
- Y 轴 / Y axis mm 650
- Z 轴 / Z axis mm 550

40, 60 位附加刀库 / 40, 60 pos. additional tool magazine

CrossArm



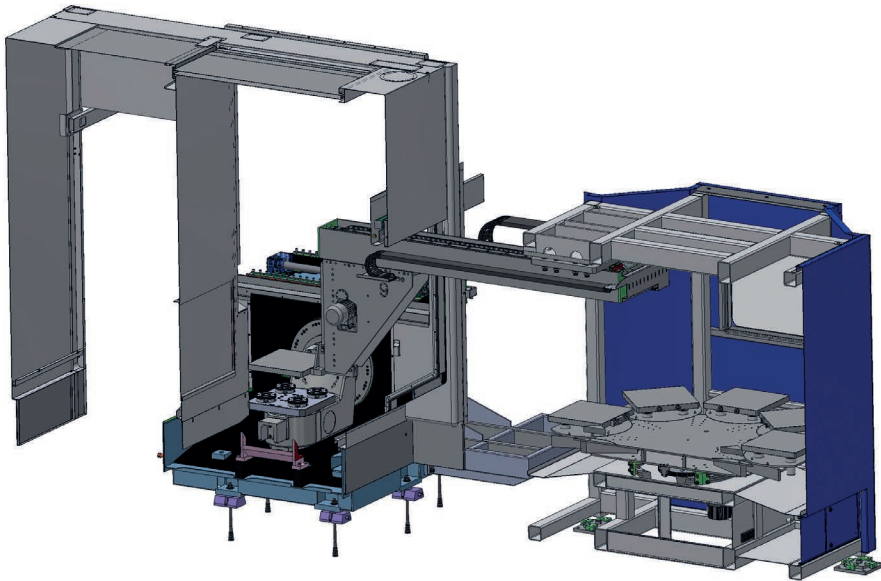
FAGIMA新设计的CrossArm托盘管理系统可与3、4、5轴铣床自动互锁。主要特点是具有非可变容积的仓库；托盘内部放置在旋转支架上，托盘的数量取决于所选托盘的大小

(CA **)。

伸缩臂（可承载的最大重量为500公斤）从仓库出来，在仓库本身和机床之间交换托盘，机床上装有四个拉钉固定的接收位置（XCA）。可以通过Solver（带有专用面板的可选软件）自动管理操作。主要管理活动包括：分配处理优先级，记忆工作时间，按对象自动执行处理类型的关联。

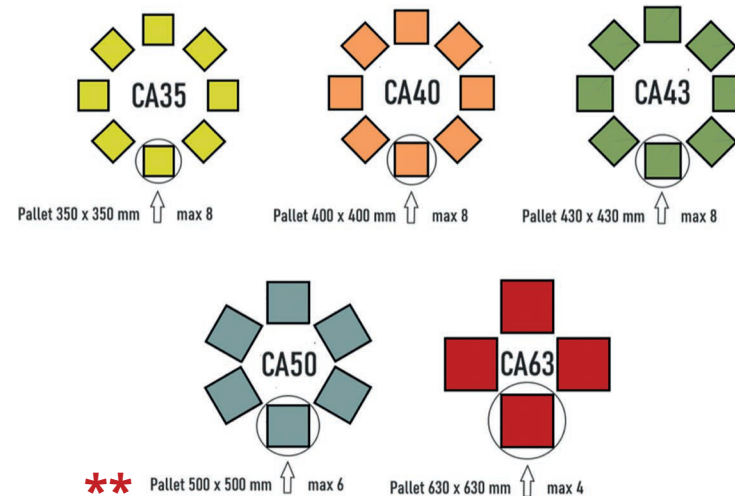
*The new CrossArm pallet change system created by Fagima is the result of the experience gained in the combination of automatic interlocking systems for our 3, 4 and 5 axis milling machines. The main element is the warehouse with a non-variable volume; inside of it the pallets are placed on rotating supports, while their quantity depends from the size of chosen pallets (CA **).*

The telescopic arm, with a handling capacity of up to 500 kg, comes out of the warehouse, exchanging the pallets between the warehouse itself and the machine tool, where the receiving table (XCA) having 4 fixing points, is positioned. The operations can be automatically managed by Solver, the optional software with a dedicated panel. The main management activities include: the assignment of processing priority, the memorization of working times, the automatic association of processing type to be performed by object.



- 托盘在旋转支架上储存，靠伸缩臂搬运
- 托盘在行架上运输
- 行架为焊接结构件，由具有良好支撑的钢板件组成
- 伸缩臂操作区域周围具由防护板
- 托盘通过绝对编码器在旋转支架上分度
- x轴通过绝对值编码器进行定位
- Z轴通过电位器定位
- 伸缩臂总水平行程3400毫米/垂直行程250 /承载能力500 kg
- 根据需要可以从正面或侧面进入机床
- 带TFT屏幕的操作员界面，用于管理基本活动
- 手动控制按钮面板
- 自动化管理功能的可选解算器软件
- 外形尺寸2300 mm x 2250 mm高约2330 mm
- CE认证

- Rotating supports with pallet storage function, with telescopic arm for pallet handling
- Preparation of slots for handling the pallets
- Structural construction having a self-supporting frame with elements of electro-welded tubular, joined by additional paneled elements
- Protection panels around operating area of the telescopic arm
- Indexing of pallets on rotary support through absolute encoder
- X axis positioning through absolute encoder
- Z axis positioning through potentiometer
- Telescopic arm with total horizontal stroke 3400 mm / vertical stroke 250 / mm capacity 500 kg
- Possible access to the machine tool from front or side entry according to needs
- Operator interface with TFT screen for managing basic activities
- Push-button panel for manual controls
- Optional Solver software for automated management functions
- Overall dimensions 2300 mm x 2250 mm h 2330 mm approx
- CE Certification





E conforme ai requisiti della Norma
UNI EN ISO 9001:2008.
Has been in compliance with the standard
UNI EN ISO 9001:2008.



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