

STUDI800 5ax

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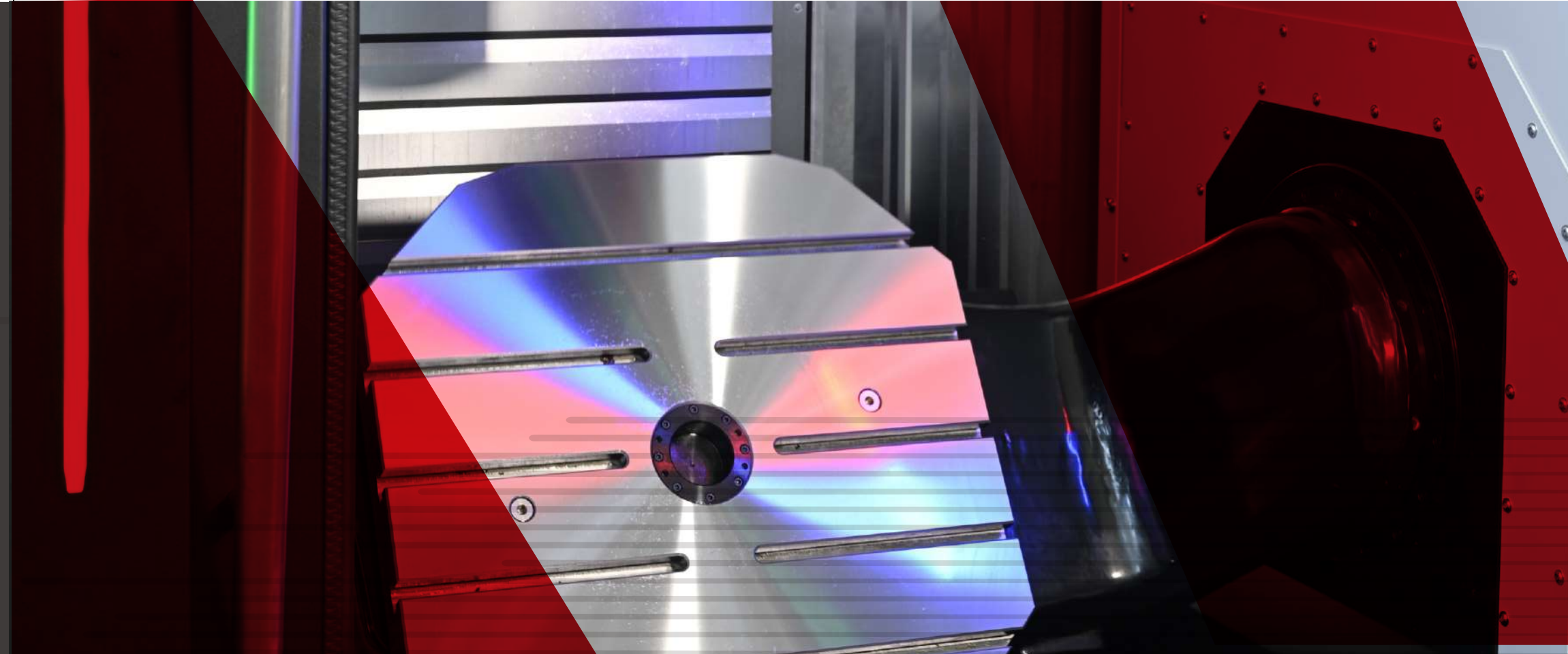
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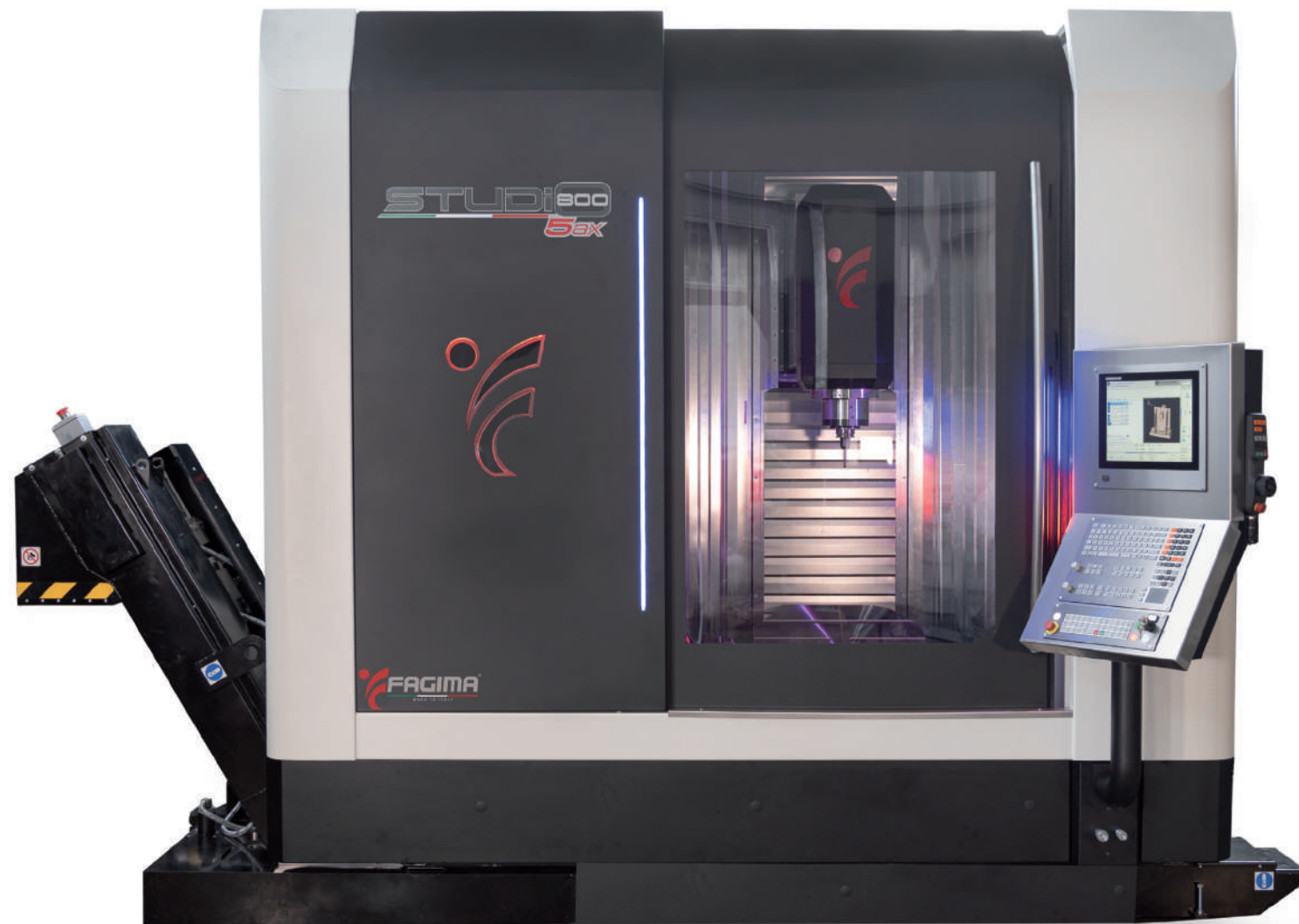
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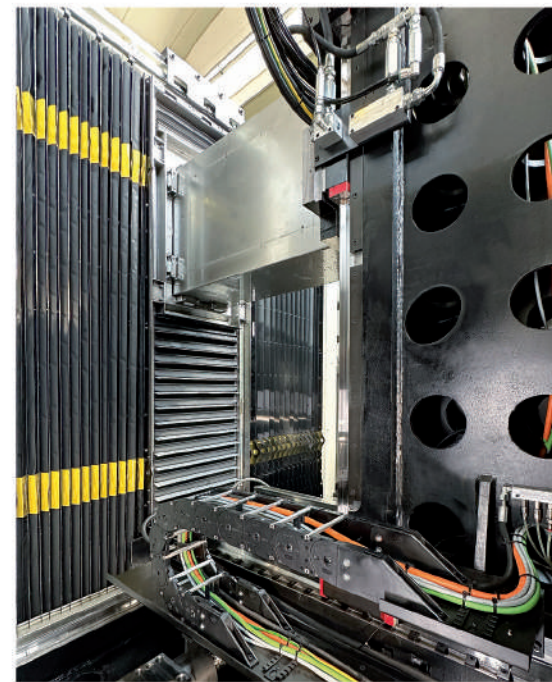


5 轴加工中心 ■ 5 AXIS MACHINING CENTERS



NEW STUDIO 800 诞生于FAGIMA在移动立柱加工中心方面积累的丰富经验。它使用最先进的设计和计算系统对每个细节进行了研究，其主要特点是：占地空间最小化，刚性强、精度高

NEW STUDIO 800 was born from the great experience gained by Fagima in moving column machining centers. It was studied in each detail using the most modern design and calculation systems and its main features are: a space reduction in minimal terms and strong rigidity and precision.



■ 其特征是结构刚性强，且Y轴不会变形下垂，快速进给和高加速度可减少工作循环时间。
行程X=900 mm、Y=835 mm和Z=700 mm，其特点是具有直径为800 mm工作台面的摇篮转台，由力矩电机驱动

It is characterized by the high rigidity of the structure and the absence of any flexion on the Y axis.

Rapids and high accelerations allow reductions of the working cycle times.

Available with strokes X=900 mm, Y=835 mm and Z=700, it is characterized by a tilting rotary table with 800 mm diameter plateau, and driven by torque motors

STUDIO 800 5AX

■ 行程/Strokes

X轴/X axis.....	mm	900
Y轴/Y axis.....	mm	835
Z轴/Z axis.....	mm	650 (opt, 700)
主轴鼻端到工作台面的距离/ Distance spindle nose – table.....	mm	315 (opt, 153)

■ 进给速度/Feed speed

X, Y, Z轴/X,Y,Z axis.....	m/min	50/50/40
进给速度/Working feed speed.....	m/min	20/20/20

■ 摇篮式五轴工作台/Tilting rotary table

工作台面直径/Table plate dimensions.....	mm	Ø 800
最大工作台承重/Max load on table (horizontal position).....	kg	1200 (opt, 850)

■ 旋转轴 (C)/Rotary axis(C)

C轴旋转范围/C axis rotation.....	°	0–360°
最大旋转速度/Max speed.....	rpm	100

■ 摆动轴 (B)/Tilting axis(B)

B轴倾斜范围/B axis rotation.....	°	0 ± 120°
最大速度/Max speed.....	rpm	100 (opt, 50)

■ 标准电主轴/Standard electro spindle

主轴锥孔/ Cone dimensions.....	HSK	63
主轴电机最大功率S6/Motor spindle power S6 max.....	Kw	31 (opt, 50)
主轴电机最大扭矩/Max spindle motor torque S6 max.....	Nm	159 (opt, 217)
主轴最大旋转速度/Spindle rotation speed.....	rpm	16000 (opt, 15000)

■ 60位刀库随机自动换刀系统/Random tool magazine 60 position

最大刀具长度/ Max tool length.....	mm	300
最大刀具直径满（邻空）刀时.....	mm	75/130
Tool max diameter with full (Adjacent empty) adjacent position		
最大刀具重量/ Max tool weight.....	kg	8
平均刀具重量/Average tool weight.....	kg	5
最大刀具总重量/Max weight total tools stored.....	kg	300
换刀时间(刀对刀)/Tool change time (tool to tool).....	sec.	1, 5
换刀速度/Magazine speed.....	sec.	0, 5

■ 数控系统/CNC system

海德汉TNC640-西门子840D-发那科31iB Heidenhain TNC 640 - Siemens 840D - Fanuc 31iB

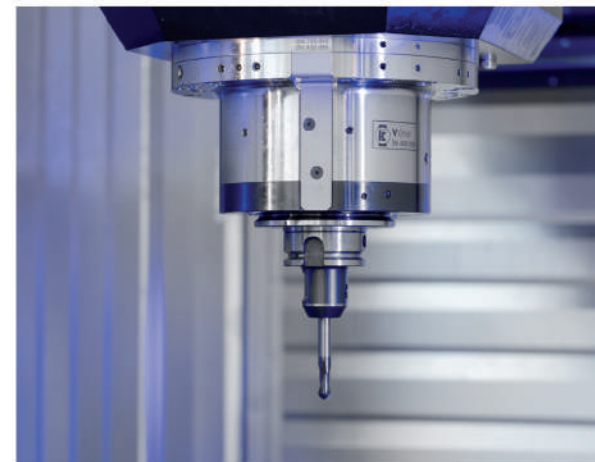
■ 机床总重/Machine total weight.....Kg 18.000



New STUDIO 800 的整体式底座可提供高承载能力，无需非常复杂的地基。
对该立柱进行了研究设计，使主轴支架头具有最高的刚性。
所有轴在高精度滚柱导轨上运动，具有4个滑块接触点。

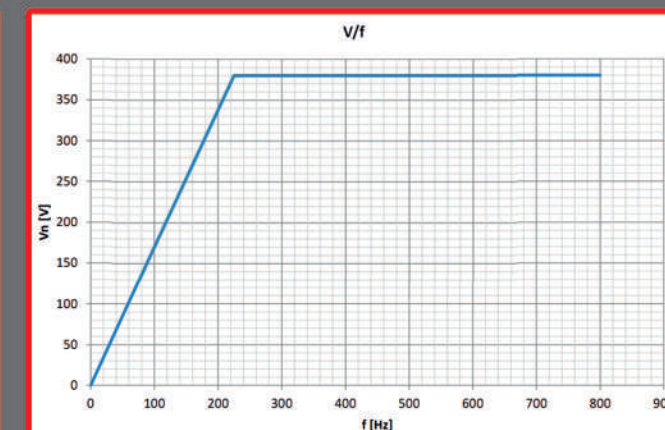
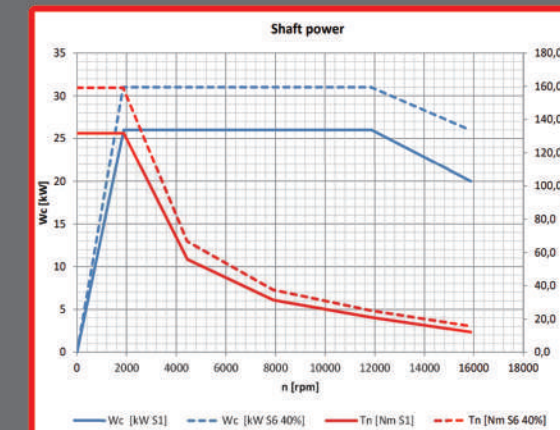
New STUDIO 800 The monolithic base grants high loading capacity without the needs of very complex foundations.
The column has been studied to grant the highest rigidity of the spindle-holder head.
All axes slide on high precision roller guides, with 4 oblique contacts.

■ LCM电主轴 LCM ELECTROSPINDLE



■ LCM电主轴，全数控 ELETTROMANDRINO KESSLER con tutti i controlli numerici LCM ELECTROSPINDLE, with all cnc

锥孔形式	HSK 63
Cone dimensions.....	rpm 16000
旋转速度（标配）	STD
Standard spindle rotation speed.....	KW 31
集成主轴电机	Nm 159
Integrated spindle motor (electrospindle).....	
最大主轴电机功率（S6）	
Max motor spindle power (S6).....	
最大主轴电机扭矩	
Max spindle motor torque (S6).....	

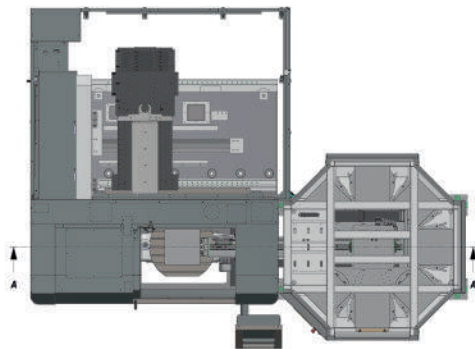
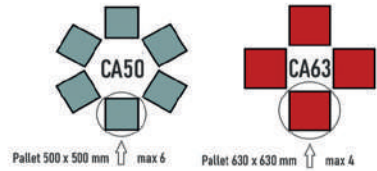
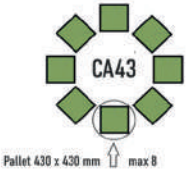
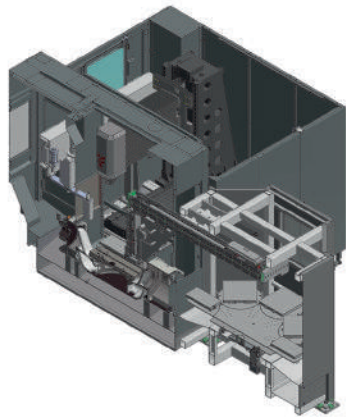


标准配置 —— STANDARD EQUIPMENT

- 全防护，带有大窗口的滑动门
- 安装在悬臂上的操作员控制台
- 线性轴配置光栅尺
- 旋转轴配置编码器
- 刀具外部的自动冷却系统
- 主轴中心出水，20bar
- 刮板式排屑器
- 自动润滑系统
- 主轴内外吹气
- 电主轴冷却系统
- 电柜空调
- 水枪
- 气枪
- 冲洗系统
- 工作照明灯
- 刀库的附加按钮面板
- 刀具装卸的旋转与定位
- 说明书
- 合格声明
- Full enclosure equipped with sliding doors with large transparent windows
- Operator console mounted on a new articulated arm
- Optical scales on linear axis
- Direct encoders on rotative axis
- Automatic cooling system outside the tool
- Automatic high-pressure cooling system through the spindle line with 20 bar pump
- Scraping chip conveyor
- Automatic lubrication system
- Internal and external spindle air for dry operations
- Cooling system for electrospindle
- On-board electric cabinet with conditioner
- Coolant gun
- Air gun
- Washing system
- Lights in working area
- Additional pushbutton panel for tool magazine
- Rotation and positioning for tools loading and unloading
- Manual of instructions
- CE declaration

国内运输说明:1辆超低地板平板车+吊梁的车辆
Internal Transport instructions
1 vehicle with low floor flat truck+ lifting beam

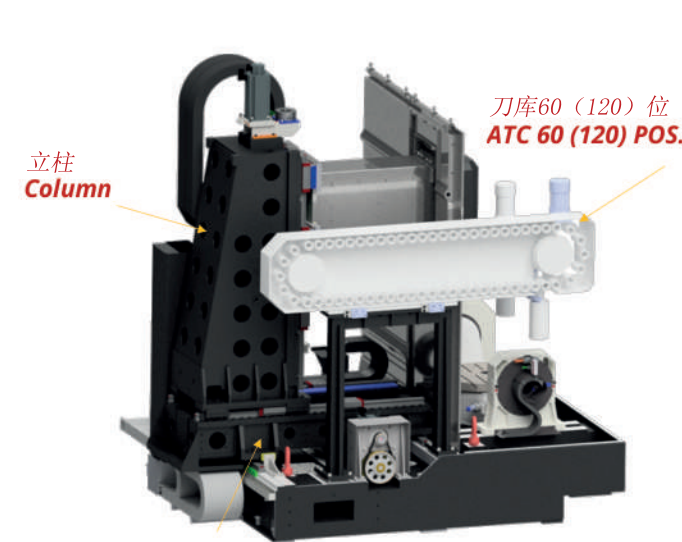
■ 合理的托盘更换系统 Possible pallet charger system



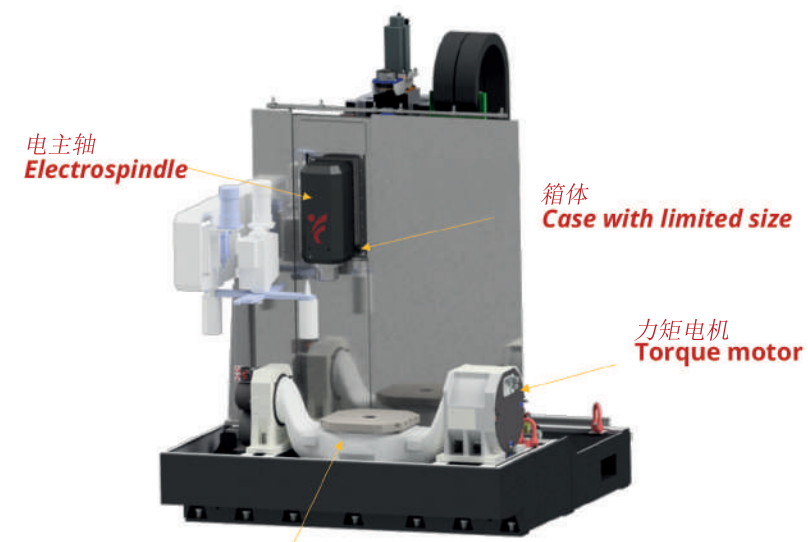
主要选项/ Main options

- 皮带式排屑器/Belt chip evacuator
- 中心出水带纸带过滤 40/60 bar/Automatic high-pressure cooling system through the spindle line with 40/60 bar and and paperbelt filter
- 纸带过滤系统 带20bar高压泵/Paperbelt filter system with 20 bar high-pressure pump
- 工件测量仪/Tracking system for workpiece dimensions and alignment check
- 对刀仪/Tool setting instrument
- 激光对刀仪/Laser tool setting instrument
- 工作台尺寸/Worktable size. mm 600
- 托盘自动更换系统/Automatic pallet changer system
- 摇篮转台自动定位夹紧系统/Predisposition for automatic clamping system on tilting rotary table A-A (1:30)
- 电主轴形式/Electro spindle tape. ISO40-BT40
- 凯斯勒电主轴/Kessler electro spindle HSK63. 2000 rpm(S6 max Nm 203 - Kw 60)
- 刀库 120把/Tool magazine 120 pos. HSK63 - ISO40 - BT40
- 数控系统: 海德汉、发那科、西门子/CNC: Heidenhain, Fanuc, Siemens
- 标准球/Calibration Sphere
- 五轴联动/Simultaneous 5 axis machining. 海德汉数控/Heidenhain CNC
- 运动数控系统/Kinematic numerical control system. 海德汉数控/Heidenhain CNC
- 动态控制监控DMC/Dynamic Control Monitoring DMC. 海德汉数控/Heidenhain CNC

主要特点—Main features



Carriage 滑座



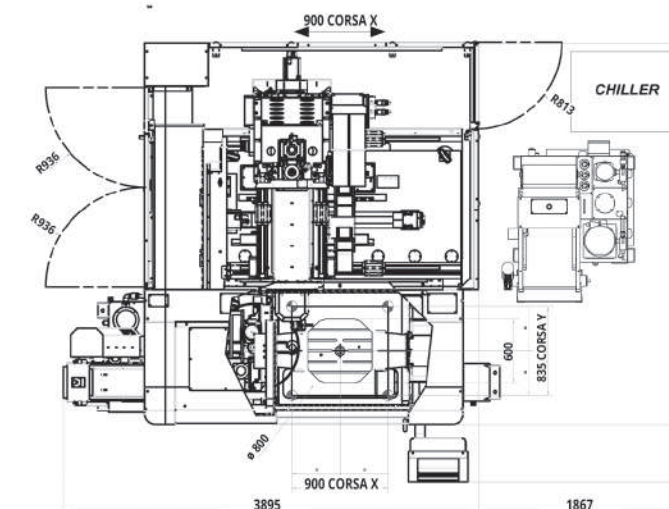
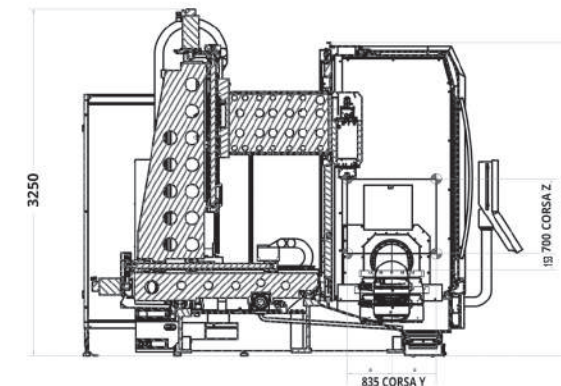
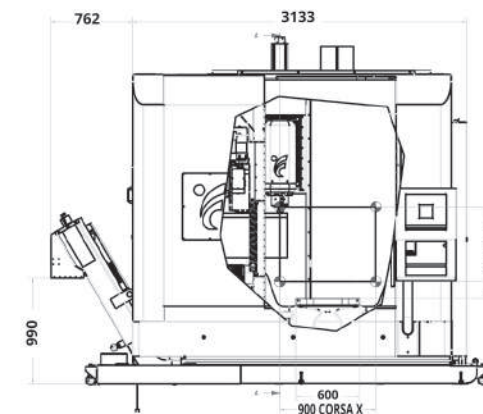
摇篮转台直径 Ø800mm最大承重1200kg (opt. 850kg)
Tilting rotary table Ø 800 mm and
max load 1200kg(opt.580kg)

占地面积小 Small footprint



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工作台尺寸/Worktable size Ø 600



STUDIO 800 5ax

工作台尺寸/Worktable size Ø 800

