

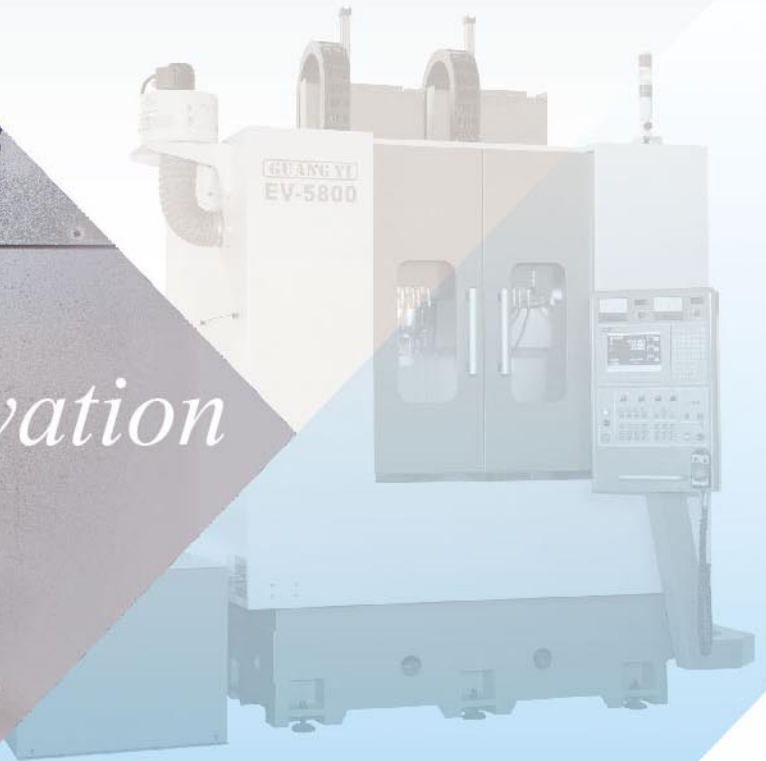
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目錄Index

CNC自動送料車床 EV-3210/3220/3230/3250 CNC LATHE WITH AUTOMATIC FEEDER 1



1

立式內外徑磨床 EV-5800 VERTICAL GRINDER FOR INNER AND OUTER DIAMETERS 3



3

等速萬向節鐘型殼(外輪)加工系列 C.V. JOINING OUTER RACE PROCESSING SERIES 3



3

EV-1500 等速萬向節鐘型殼溝道磨床
Equal speed, verified directions, bell shaped, abll path milling specialized machine



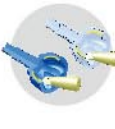
4

EV-1520 等速萬向節鐘型殼溝道(R+直線)磨床
Grinder for (R+straight) ball path on bell-shape casing of universal joint



4

EV-1600 等速萬向節鐘型殼內球面磨床
Grinder for inner surface of bell-shape casing of universal joint



5

EV-1220 等速萬向節鐘型殼溝道銑床
Miller for ball path of bell-shape casing on constant speed universal joint



5

EV-360 等速萬向節鐘型殼鑽孔機(油壓/伺服)
Drill for bell-shape casing of universal joint (Hydraulic/Servo)



6

EV-380A 等速萬向節鐘型殼銑槽機(油壓)
Groove miller for bell-shape casing of universal joint (Hydraulic)

EV-382 等速萬向節鐘型殼銑槽機(伺服)
Groove miller for bell-shape casing of universal joint (Servo)

等速萬向節星形套(內輪)加工系列 C.V. JOINING INNER RACE PROCESSING SERIES 6



6

EV-2100 等速萬向節星形套溝道磨床
Grinder for ball path on planetary bushing of universal joint



7

EV-2300 等速萬向節星形套(R+直線)溝道磨床
Grinder for (R+straight) ball path on planetary bushing of universal joint



7

EV-2200 等速萬向節星形套外球面磨床
Grinder for exterior surface on planetary bushing of universal joint



8

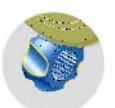
EV-2800 等速萬向節星形套溝道磨床
Grinder for ball path on planetary bushing of universal joint

等速萬向節斜(直)溝道(鐵餅)加工系列 C.V. JOINING VL PROCESSING SERIES 8



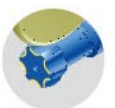
8

EV-1100 等速萬向節斜(直)溝道銑床
Miller for slant (straight) path on universal joint



9

EV-2310 等速萬向節星形套斜(直)溝道磨床
Constant speed universal joint star bushing angular (straight) slot grinder



9

EV-2350 等速萬向節軸頭直溝道磨床
Constant speed universal shaft straight slot grinder



10

EV-1180 等速萬向節斜(直)溝道銑床
Miller for slant (straight) path on universal joint



10

EV-1120 等速萬向節斜(直)溝道銑床
Miller for slant (straight) path on universal joint



11

EV-1800 等速萬向節斜(直)溝道磨床
Grinder for slant (straight) path on universal joint



11

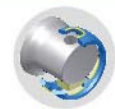
EV-1810 等速萬向節直溝道磨床
Grinder for straight path on universal joint



12

EV-1850 等速萬向節直溝道磨床
Grinder for straight path on universal joint

等速萬向節保持架(定位環)加工系列 C.V. JOINING CAGE PROCESSING SERIES (POSITIONING RING) 12



12

EV-1300 等速萬向節保持架沖模
Punch press for universal bracket



13

EV-3200 等速萬向節保持架窗口銑床
Miller for window on universal bracket



13

EV-3600 等速萬向節保持架窗口磨床
Grinder for window on universal bracket

等速萬向節心軸加工系列 CONSTANT SPEED UNIVERSAL SHAFT MACHINING SERIES 14



14

EV-820 等速萬向節心軸卡簧槽切槽機
Constant speed universal shaft slot cutting machine

油壓卡盤零件加工系列 HYDRAULIC CHUCK PARTS MACHINING SERIES 14



14

EV-5600 三爪夾頭T溝研磨專用機
Grinder specially for T-groove on 3-jaw chuck



15

EV-5600C 雙主軸中仁T溝研磨機
Twin spindle T slot grinder



15

EV-5600M 雙主軸 主爪研磨專用機
Twin spindle main jaw grinder

汽車輪轂軸承加工系列 WHEEL HUB BEARINGS PROCESSING SERIES 16



16

EV-5100 汽車輪轂軸承外圈磨床
Grinder for outer ring of car hub bearing



16

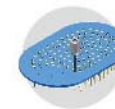
EV-5200 汽車輪轂軸承內圈磨床
Grinder for inner ring of car hub bearing

其他專用機系列 OTHER SERIES OF SPECIAL MACHINES 17



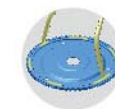
17

EV-520 曲軸CNC鑽孔機
CNC drill for crankshaft



17

EV-320 寵物毛梳插針機
Needle inserting machine for pet comb



18

EV-250 汽車飛輪自動焊接機
Automatic welder for car flywheel

專用治具、量具、刀具 PURPOSE FIXTURE, MEASURING TOOLS AND CUTTING TOOLS 18



特點

- 空壓裝置集中管理。
- 使用砲筒式A₂4車床標準主軸，易於維修、更換。
- 搭配自動送料系統，人工成本低。
- 可選用X、Z軸為硬軌設計，穩定性高。
- 可選用X、Z軸配置精密線軌，進給快速。
- 機台體積小，節省佔地空間。

FEATURES

- Centralized pneumatic device.
- Equipped with a cartridge type A₂4 standard lathe spindle for easy maintenance and replacement.
- With automatic feed system to reduce labor cost.
- Box ways on X, Z-axis are available for increased stability.
- Available to equip with linear guide way on x, z-axis for fast feed.
- Compact construction for saving installation space.



- 使用砲筒式A₂4車床標準主軸，易於維修、更換。
- Equipped with a cartridge type A₂4 standard lathe spindle for easy maintenance and replacement.



EV-3210 / EV-3220



EV-3230



- 可選用X、Z軸配置精密線軌，進給快速。
- Available to equip with linear guide way on x,z-axis for fast feed.



- 搭配自動送料系統，人工成本低。
- With automatic feed system to reduce labor cost.



- 空壓裝置集中管理
- Centralized pneumatic device.

項目ITEM	EV-3210	EV-3220	EV-3230	EV-3250
自動送料系統	曲柄撥爪送料	曲柄撥爪送料	夾持推料	無
Automatic feed system	Crank shaft jaw feed	Crank shaft jaw feed	Clamp push feed	-
硬軌/線軌	硬軌	線軌	線軌	線軌
Box ways/Linear guide way	Box ways	Linear guide way	Linear guide way	Linear guide way
控制器	新代21TA 10.4彩色螢幕 Syntec 21TA 10.4 colorful screen			
Controller				
最大旋轉徑	φ 100 mm			
Maximum Swivel Diameter				
過十字座旋轉	φ 55 mm			
Swing Over Cross Base				
X軸最大行程/位移	260 mm			
X-Axis Maximum Travel				
Z軸最大行程	160 mm			
Z-Axis Maximum Travel				
夾頭	C32 內牙 Collet 32			
Chuck				
最大搪孔刀徑	φ 32 mm			
Maximum Boring Diameter				
刀柄	□20 mm			
Shank				
主軸通孔直徑	φ 32 mm			
Hole Through Spindle				
主軸馬達	5HP 變頻馬達			
Main Motor	5HP Conversion Frequency Motor			
主軸迴轉速	4500(std.) 可變/3600(opt)			
Spindle Speed	4500(std.) variable/3600(opt)			
滾珠螺桿徑	φ 25mm x 5P			
Ball Screw Diameter1				
X/Z軸向動力	安川 0.85KW x 2 伺服馬達			
Axial Power	0.85KW x 2 pcs Servo Motor			
占地體積(長x寬x高)	2563x1420x1867 mm ³		1782x2356x1720 mm ³	1800x1450x1616 mm ³
Required Area (LxWxH)				
機械總重	1200 kgs			
Machine Overall Weight				
總電源/氣壓源	AC 3PH 220V 8KW / 30L / min			
Power Supply / Air Pressure				

標準附件

- 1.三位置吹氣裝置
- 2.切削液冷卻裝置
- 3.內/外徑刀座各兩組
- 4.工件集料裝置
- 5.工具箱一組

選擇附件

- 1.鐵屑輸送機
- 2.機械手自動裝置
- 3.油水分離裝置
- 4.工件輸送機

Standard accessories

- 1.Three-position air blast device
- 2.Auto. coolant system
- 3.I.D./O.D. tool holder (each 2 sets)
- 4.Parts collector
- 5.Tool box 1 set

Optional accessories

- 1.Chip conveyor
- 2.Robot
- 3.Oil skimmer
- 4.Workpiece conveyor

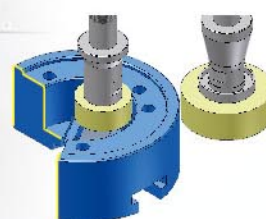
EV-5800

立式內外徑磨床

VERTICAL GRINDER FOR INNER AND OUTER DIAMETERS



▼加工部位
Scope of fabrication



項目ITEM	EV-5800/6	EV-5800/4
外徑研磨範圍 Range of O.D. grinding	600 mm	420 mm
外徑研磨最大長度 Max. length O.D. grinding	400 mm	300 mm
內徑研磨範圍 Range of I.D. grinding	600 mm	420 mm
內徑研磨最大長度 Max. length of I.D. grinding	400 mm	300 mm
工件轉盤直徑 Diameter of workpiece turntable	600 mm	400 mm
最大工件高度(含夾具) Max. workpiece height (incl. gripper)	550 mm	450 mm
最大工件旋徑 Max. radius of workpiece rotation	800 mm	550 mm
最大載重 Max. load	800 kg	300 kg
工件轉盤轉速 Speed of workpiece turntable	20~400 rpm	20~500 rpm
砂輪主軸轉速 Spindle speed-grinding wheel	20000 rpm	24000 rpm
砂輪主軸功率 Power-grinding wheel spindle	23(S6) kw	17(S6) kw
最大砂輪徑 Max. diameter of grinding wheel	φ 180 mm	
ATC形式 ATC type	選配 Optional	
雙主軸形式 Double-spindle type	選配 Optional	
修砂 Type of grindle wheel dressing	單點鑽石筆 Single-point diamond pen	
修砂主軸+鑽石輥輪 Spindle+diamond roller	選配 Optional	
機械重量 Machine weight	8000 kg	7000 kg
佔地面積 Space required	3×3.2×3.3 m	2.6×3×3.3 m

EV-1520

等速萬向節鐘型殼溝道(R+直線)磨床

Grinder for (R+straight) ball path on bell-shape casing of universal joint



▼加工部位
Scope of fabrication



項目ITEM	EV-1520
工件外徑 O.D.-workpiece	φ 60~ φ 115 mm
球道內徑(PCD) Path inner diameter	φ 45~ φ 90 mm
鋼球徑 Ball diameter	φ 1/2~ φ 15/16 inch
工件長度 L-workpiece	60~250 mm
機械重量 Machine weight	6500 kg
砂輪主軸轉速 Spindle speed-grinding wheel	42000 rpm
佔地面積(面寬×長×高) Space required (WxLxH)	3×3.7×2.5 m
伺服軸數 Number of servos	5軸 5 axes
修砂方式 Type of grinding wheel dressing	鑽石輥輪兩軸同動修整 Diamond wheel with two wheels dressing simultaneously
夾具 Gripper	油壓筒夾 Hydraulic collet

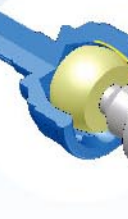
EV-1600

等速萬向節鐘型殼內球面磨床

Grinder for inner surface of bell-shape casing of universal joint



▼加工部位
Scope of fabrication



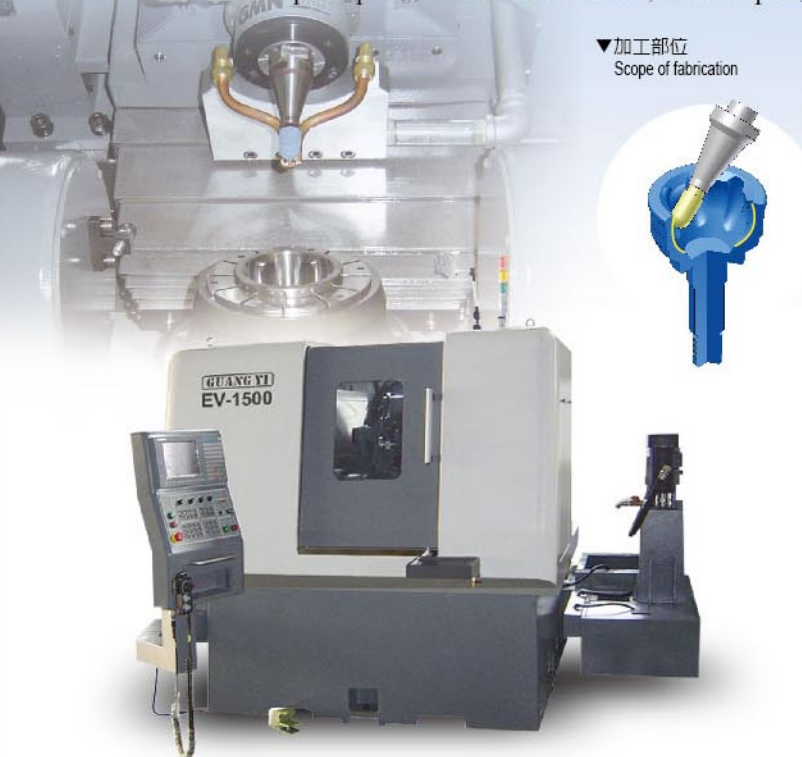
項目ITEM	EV-1600
工件外徑 O.D.-workpiece	φ 60~ φ 115 mm
工件內球徑 Ball diameter-workpiece	φ 40~ φ 75 mm
工件長度 L-workpiece	60~250 mm
機械重量 Machine weight	5000 kg
砂輪主軸轉速 Spindle speed-grinding wheel	10000 rpm
佔地面積(面寬×長×高) Space required (WxLxH)	2.5×2.8×2.1 m
伺服軸數 Number of servos	2軸 2 axes
修砂方式 Type of grinding wheel dressing	鑽石輥輪COPY成形 COPY forming by diamond roller
夾具 Gripper	油壓筒夾 Hydraulic collet

等速萬向節鐘型殼(外輪)加工系列 C.V. JOINING OUTER RACE PROCESSING SERIES

EV-1500

等速萬向節鐘型殼溝道磨床

Equal speed, verified directions, bell shaped, abll path milling specialized machine



▼加工部位
Scope of fabrication



項目ITEM	EV-1500
工件外徑 O.D.-workpiece	φ 60~ φ 115 mm
球道內徑(PCD) Path inner diameter	φ 45~ φ 90 mm
鋼球徑 Ball diameter	φ 1/2~ φ 7/8 inch
工件長度 L-workpiece	60~250 mm
機械重量 Machine weight	6500 kg
砂輪主軸轉速 Spindle speed-grinding wheel	42000 rpm
佔地面積(面寬×長×高) Space required (WxLxH)	3×3.7×2.5 m
伺服軸數 Number of servos	5軸 5 axes
修砂方式 Type of grinding wheel dressing	鑽石輥輪兩軸同動修整 Diamond wheel with two wheels dressing simultaneously
夾具 Gripper	油壓筒夾 Hydraulic collet

等速萬向節鐘型殼(外輪)加工系列 C.V. JOING OUTER RACE PROCESSING SERIES

EV-1220 等速萬向節鐘型殼溝道銑床
Miller for ball path of bell-shape casing on constant speed universal joint



項目ITEM	EV-1220
工件外徑 O.D.-workpiece	φ 60~φ 115 mm
球道內徑(PCD) Path inner diameter	φ 45~φ 90 mm
鋼球徑 Ball diameter	φ 1/2~φ 7/8 inch
工件長度 L-workpiece	60~250 mm
機械重量 Machine weight	5500 kg
主軸轉速 Space speed	4500 rpm
佔地面積(面寬×長×高) Space required (WxLxH)	2.6×2.8×2.1m
伺服軸數 Number of servos	2軸 2 axes
主軸數 Number of spindles	2軸(粗+精銑) 2-axis (rough+finish milling)
夾具 Gripper	油壓筒夾 Hydraulic collet

EV-360 等速萬向節鐘型殼鑽孔機(油壓/伺服)
Drill for bell-shape casing of universal joint (Hydraulic/Servo)



項目ITEM	EV-360
工件外徑 O.D.-workpiece	φ 60~φ 150 mm
工件長度 L-workpiece	60~250 mm
最大孔徑 Length-workpiece	8 mm
機械重量 Machine weight	800 kg
主軸轉速 Speed speed	4000 rpm
佔地面積(面寬×長×高) Space required (WxLxH)	1.9×1.9×1.7
主軸數 Number of spindles	3軸(中心鑽×2+鑽孔軸×1) 3 axes (center drill x 2+boring axes x1)
伺服軸數 Number of servo	3軸 3 axes
夾具 Gripper	兩頂心油壓夾持 2-lathe-center hydraulic grip

EV-380A 等速萬向節鐘型殼銑槽機(油壓)
Groove miller for bell-shape casing of universal joint (Hydraulic)

EV-382 等速萬向節鐘型殼銑槽機(伺服)
Groove miller for bell-shape casing of universal joint (Servo)



項目ITEM	EV-380A / EV-382
工件大端外徑 Outside diameter of workpiece big end	φ 70~φ 120 mm
工件小端外徑 Outside diameter of workpiece small end	φ 35~φ 85 mm
工件長度 L-workpiece	80~250 mm
機械重量 Machine weight	1500 kg
主軸轉速 Spindle speed	1200 rpm
伺服軸數 Number of servos	2軸 2 axes
佔地面積(面寬×長×高) Space required (WxLxH)	2.2×2.0×1.6 m
夾具 Gripper	油壓三爪+頂針 Hydraulic chuck

等速萬向節星形套(內輪)加工系列 C.V. JOING INNER RACE PROCESSING SERIES

EV-2100 等速萬向節星形套溝道磨床
Grinder for ball path on planetary bushing of universal joint



項目ITEM	EV-2100
工件外徑 O.D.-workpiece	φ 40~φ 75 mm
球道外徑(PCD) Path outside diameter	φ 30~φ 56 mm
工件鋼珠直徑 Ball diameter-workpiece	φ 1/2~φ 15/16 inch
工件厚度 L-workpiece	18~38 mm
機械重量 Machine weight	6500 kg
砂輪主軸轉速 Spindle speed-grinding wheel	8000 rpm
佔地面積(面寬×長×高) Space required (WxLxH)	3×3.7×2.1 m
伺服軸數 Number of servos	3軸 3 axes
修砂方式 Type of grinding wheel dressing	鑽石輥輪COPY成形 COPY forming by diamond roller
夾具 Gripper	油壓筒夾 Hydraulic collet

等速萬向節星形套(內輪)加工系列 C.V. JOING INNER RACE PROCESSING SERIES

EV-2300 等速萬向節星形套(R+直線)溝道磨床
Grinder for (R+straight) ball path on planetary bushing of universal joint



項目ITEM	EV-2300
工件外徑 O.D.-workpiece	φ 40~φ 75 mm
球道外徑(PCD) Path outside diameter	φ 30~φ 56 mm
工件鋼珠直徑 Ball diameter-workpiece	φ 1/2~φ 15/16 inch
工件厚度 Thickness-workpiece	18~38 mm
機械重量 Machine weight	6500 kg
砂輪主軸轉速 Spindle speed-grinding wheel	8000 rpm
佔地面積(面寬×長×高) Space required (WxLxH)	3.1×3.0×2.5 m
伺服軸數 Number of servos	2軸 2 axes
修砂方式 Type of grinding wheel dressing	鑽石輥輪COPY成形 COPY forming by diamond roller
夾具 Gripper	油壓筒夾 Hydraulic collet

EV-2800 等速萬向節星形套溝道磨床
Grinder for ball path on planetary bushing of universal joint



項目ITEM	EV-2800
工件外徑 O.D.-workpiece	φ 40~φ 78 mm
球道外徑(PCD) Path outside diameter	φ 30~φ 56 mm
鋼珠直徑 Ball diameter	φ 1/2~φ 15/16 inch
工件厚度 Thickness-workpiece	18~38 mm
機械重量 Machine weight	2500 kg
砂輪主軸轉速 Spindle speed-grinding wheel	6000 rpm
佔地面積(面寬×長×高) Space required (WxLxH)	3.0×3.0×2.0 m
伺服軸數 Number of servos	2軸 2 axes
修砂方式 Type of grinding wheel dressing	鑽石輥輪COPY成形 COPY forming by diamond roller
夾具 Gripper	油壓筒夾 Hydraulic collet

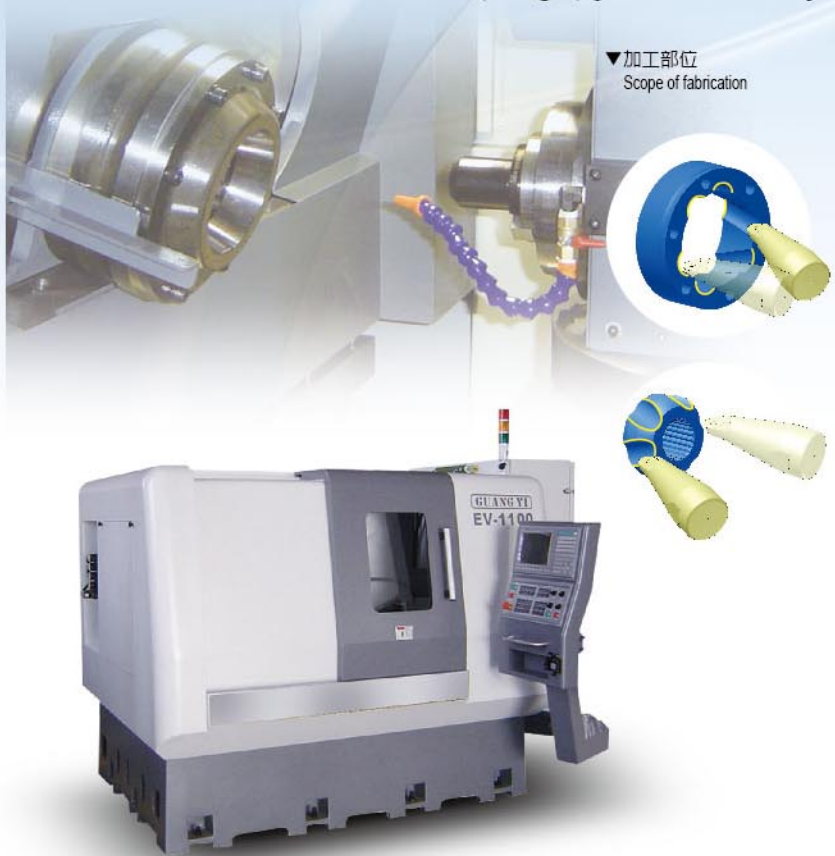
EV-2200 等速萬向節星形套外球面磨床
Grinder for exterior surface on planetary bushing of universal joint



項目ITEM	EV-2200
工件外徑 O.D.-workpiece	φ 40~φ 75 mm
工件內徑(夾持部位) Inner diameter of workpiece (gripped part)	φ 18~φ 40 mm
工件厚度 Thickness-workpiece	18~38 mm
機械重量 Machine weight	3000 kg
砂輪主軸轉速 Spindle speed-grinding wheel	2000 rpm
佔地面積(面寬×長×高) Space required (WxLxH)	3x2.3x1.7 m
伺服軸數 Number of servos	2軸 2 axes
修砂方式 Type of grinding wheel dressing	鑽石輥輪COPY成形 COPY forming by diamond roller
夾具 Gripper	油壓筒夾 Hydraulic collet

等速萬向節斜(直)溝道(鐵餅)加工系列 C.V. JOING VL PROCESSING SERIES

EV-1100 等速萬向節斜(直)溝道銑床
Miller for slant (straight) path on universal joint



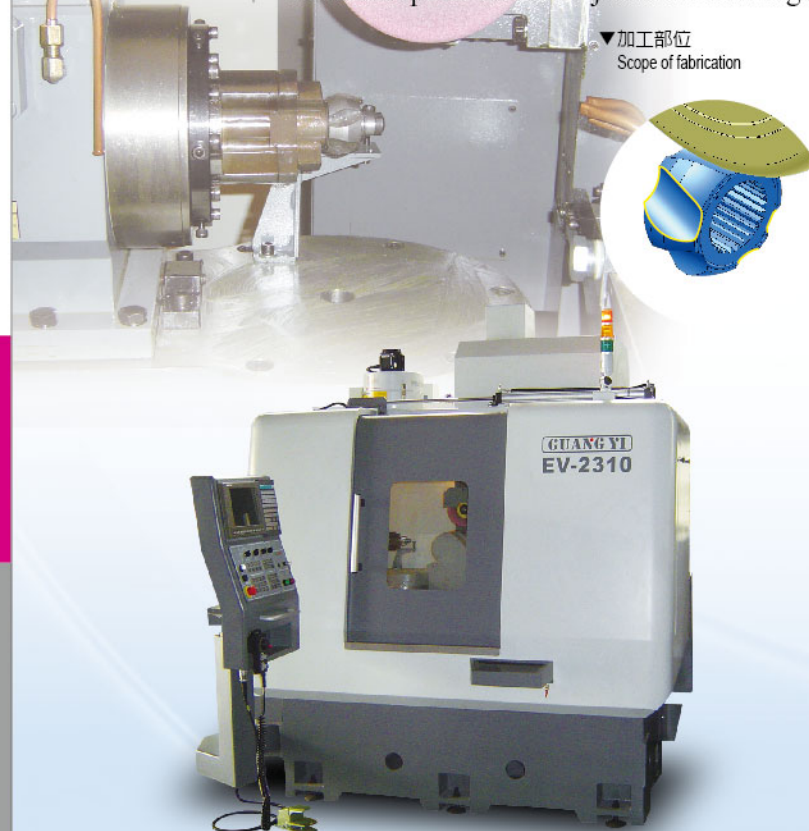
項目ITEM	EV-1100
工件外徑 O.D.-workpiece	φ 60~φ 128 mm
球道內徑(PCD) Path inner diameter	φ 45~φ 105 mm
鋼球徑 Ball diameter	φ 1/2~φ 1 inch
溝道角度 Angle of path	0~18 deg
工件長度 L-workpiece	200max mm
機械重量 Machine weight	5500 kg
砂輪主軸轉速 Spindle speed-grinding wheel	4500 rpm
佔地面積(面寬×長×高) Space required (WxLxH)	2.6x2.8x2.1 m
伺服軸數 Number of servos	2軸 2 axes
主軸數 Number of spindles	單主軸+左右偏擺 Single spindle+side-to-side runoff
夾具 Gripper	油壓筒夾 Hydraulic collet

等速萬向節斜(直)溝道(鐵餅)加工系列 C.V. JOING VL PROCESSING SERIES

EV-2310

等速萬向節星形套斜(直)溝道磨床

Constant speed universal joint star bushing angular (straight) slot grinder



項目ITEM	EV-2310
工件外徑 O.D.-workpiece	φ 40~ φ 75 mm
工件內徑(夾持部位) Inner diameter of workpiece (gripped part)	φ 30~ φ 56 mm
工件厚度 Thickness-workpiece	18~38 mm
鋼球直徑 Ball diameter	φ 12.7~ φ 23.813 mm
機械重量 Machine weight	6000 kg
砂輪主軸轉速 Spindle speed-grinding wheel	6000 rpm
佔地面積(面寬×長×高) Space required (WxLxH)	3.2x3.2x2.5 m
伺服軸數 Number of servos	2軸 2 axes
修砂方式 Type of grinding wheel dressing	鑽石輥輪COPY成形 COPY forming by diamond roller
夾具 Gripper	彈性筒夾 Collet chuck

EV-1180

等速萬向節斜(直)溝道銑床

Miller for slant (straight) path on universal joint



項目ITEM	EV-1180
工件外徑 O.D.-workpiece	φ 128max mm
球道內徑(PCD) Path inner diameter	φ 105max mm
鋼球徑 Ball diameter	φ 25.4max mm
溝道角度 Angle of path	16 deg
工件長度 L-workpiece	250max mm
機械重量 Machine weight	5500 kg
砂輪主軸轉速 Spindle speed-grinding wheel	4500 rpm
佔地面積(面寬×長×高) Space required (WxLxH)	2.9x2.5x2.2 m
伺服軸數 Number of servos	2軸 2 axes
主軸數 Number of spindles	2軸(粗銑+精銑) 2 axes (rough milling+finish milling)
夾具 Gripper	油壓筒夾 Hydraulic collet

EV-2350

等速萬向節軸頭直溝道磨床

Constant speed universal shaft straight slot grinder



項目ITEM	EV-2350
工件外徑 O.D.-workpiece	φ 30~ φ 300 mm
工件內徑(夾持部位) Inner diameter of workpiece (gripped part)	φ 10~ φ 60 mm
工件長度 L-workpiece	25~500 mm
機械重量 Machine weight	6000 kg
砂輪主軸轉速 Spindle speed-grinding wheel	6000 rpm
佔地面積(面寬×長×高) Space required (WxLxH)	3.2x3.2x2.5 m
伺服軸數 Number of servos	3軸 3 axes
修砂方式 Type of grinding wheel dressing	鑽石輥輪程式成形 Diamond roller program forming
夾具 Gripper	油壓三爪卡盤+尾座頂針 Hydraulic 3-jaw chuck+tailstock center

EV-1120

等速萬向節斜(直)溝道銑床

Miller for slant (straight) path on universal joint



項目ITEM	EV-1120
工件外徑 O.D.-workpiece	φ 60~ φ 128 mm
球道內徑(PCD) Path inner diameter	φ 45~ φ 105 mm
鋼球徑 Ball diameter	φ 1/2~ φ 1 inch
溝道角度 Angle of path	0~18 deg
工件長度 L-workpiece	200max mm
機械重量 Machine weight	5500 kg
砂輪主軸轉速 Spindle speed-grinding wheel	4500 rpm
佔地面積(面寬×長×高) Space required (WxLxH)	2.6x2.8x2.1 m
伺服軸數 Number of servos	2軸 2 axes
主軸數 Number of spindles	2軸(粗銑+精銑) 2 axes (rough milling+finish milling)
夾具 Gripper	油壓筒夾 Hydraulic collet

等速萬向節斜(直)溝道(鐵餅)加工系列 C.V. JOING VL PROCESSING SERIES

EV-1800

等速萬向節斜(直)溝道磨床
Grinder for slant (straight) path on universal joint



項目ITEM	EV-1800
工件外徑 O.D.-workpiece	φ 60~ φ 128 mm
球道內徑(PCD) Path inner diameter	φ 45~ φ 105 mm
鋼球徑 Ball diameter	φ 1/2~ φ 1 inch
溝道角度 Angle of path	0~18 deg
工件長度 L-workpiece	200max mm
機械重量 Machine weight	5000 kg
砂輪主軸轉速 Spindle speed-grinding wheel	42000 rpm
佔地面積(面寬×長×高) Space required (WxLxH)	3x3.2x2 m
伺服軸數 Number of servos	3軸 3 axes
修砂方式 Type of grinding wheel dressing	鑽石輥輪兩軸同動修整 Diamond wheel with two wheels dressing simultaneously
夾具 Gripper	油壓筒夾 Hydraulic collet

EV-1850

等速萬向節直溝道磨床
Grinder for straight path on universal joint



項目ITEM	EV-1850
工件外徑 O.D.-workpiece	φ 700max mm
球道內徑(PCD) Path inner diameter	φ 650max mm
鋼球徑 Ball diameter	φ 6.35~ φ 70 inch
溝道角度 Angle of path	0 deg
工件長度 L-workpiece	300max mm
機械重量 Machine weight	7000 kg
砂輪主軸轉速 Spindle speed-grinding wheel	42000 rpm
佔地面積(面寬×長×高) Space required (WxLxH)	3.4x3.3x2.3 m
伺服軸數 Number of servos	3軸 3 axes
修砂方式 Type of grinding wheel dressing	鑽石筆程式成形 Diamond dressing kit program forming
夾具 Gripper	油壓筒夾 Hydraulic collet

EV-1810

等速萬向節直溝道磨床
Grinder for straight path on universal joint

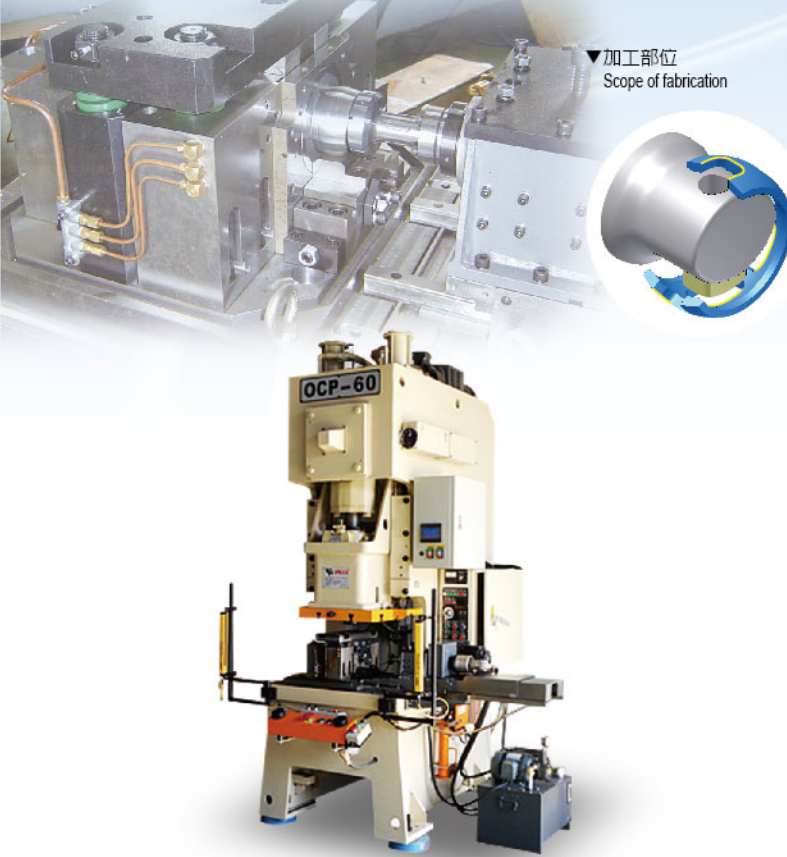


項目ITEM	EV-1810
工件外徑 O.D.-workpiece	φ 120max mm
球道內徑(PCD) Path inner diameter	φ 100max mm
鋼球直徑 Ball diameter	φ 22.225max inch
溝道角度 Angle of path	0 deg
工件長度 L-workpiece	200max mm
機械重量 Machine weight	4500 kg
砂輪主軸轉速 Spindle speed-grinding wheel	40000 rpm
佔地面積(面寬×長×高) Space required (WxLxH)	3.0x2.39x2.0 m
伺服軸數 Number of servos	3軸 3 axes
修砂方式 Type of grinding wheel dressing	鑽石輥輪擺動成形 Swing formation by diamond roller
夾具 Gripper	油壓筒夾 Hydraulic collet

等速萬向節保持架(定位環)加工系列 C.V. JOING CAGE PROCESSING SERIES (POSITIONING RING)

EV-1300

等速萬向節保持架沖模
Punch press for universal bracket



項目ITEM	EV-1300
工件外徑 O.D.-workpiece	φ 45~ φ 90 mm
工件肉厚 Part thickness-workpiece	7max mm
工件厚度 Thickness-workpiece	24~45 mm
沖孔徑 Bore diameter	12.7~22.22 mm
機械重量 Machine weight	500 kg
模具(寬×長×高) Die (WxLxH)	1520x468x300 mm
伺服軸數 Number of servos	1軸 1 axes
夾具 Gripper	油壓筒夾+空壓定位 Hydraulic collet+pneumatic positioning

等速萬向節保持架(定位環)加工系列 C.V. JOING CAGE PROCESSING SERIES (POSITIONING RING)

EV-3200 等速萬向節保持架窗口銑床
Miller for window on universal bracket



項目ITEM	EV-3200
工件外徑 O.D.-workpiece	φ 45~φ 90 mm
工件厚度 Thickness-workpiece	24~45 mm
窗口徑 Diameter-window	12.7~22.22 mm
機械重量 Machine weight	2300 kg
主軸轉速 Spindle speed	6000 rpm
佔地面積(面寬×長×高) Space required (WxLxH)	2.7x2.7x2 m
伺服軸數 Number of servos	3軸 3 axes
夾具 Gripper	油壓夾持+自動送料 Hydraulic grip+automatic feed
主軸數 Number of spindles	2軸 2 axes

EV-3600 等速萬向節保持架窗口磨床
Grinder for window on universal bracket



項目ITEM	EV-3600
工件外徑 O.D.-workpiece	φ 45~φ 90 mm
工件厚度 Thickness-workpiece	24~45 mm
窗口徑 Diameter-window	12.7~22.22 mm
機械重量 Machine weight	2200 kg
主軸轉速 Spindle speed	60000 rpm
佔地面積(面寬×長×高) Space required (WxLxH)	2.7x2.7x2 m
伺服軸數 Number of servos	3 / 5軸 3 / 5 axes
修砂方式 Type of grinding wheel dressing	無/鑽石輪旋轉 -/Rotation of diamond roller
夾具 Gripper	氣壓夾持+自動送料 Pneumatic clamp+automatic feed
主軸數 Number of spindles	2軸 2 axes

等速萬向節心軸加工系列 CONSTANT SPEED UNIVERSAL SHAFT MACHINING SERIES

EV-820 等速萬向節心軸卡簧槽切槽機
Constant speed universal shaft slot cutting machine



項目ITEM	EV-820
工件外徑 O.D.-workpiece	φ 18~φ 50 mm
工件長度 L-workpiece	200~900 mm
刀塔數 Turret number	2
可搭載刀具數 Tool number loading capacity	8
機械重量 Machine weight	4000 kg
主軸轉速 Spindle speed	2000 rpm
佔地面積(面寬×長×高) Space required (WxLxH)	2.4x2.5x1.7 m
伺服軸數 Number of servos	4軸 4 axes
夾具 Gripper	MT4活動頂針+插刺頂針 MT4 rotating center+spur center

油壓卡盤零件加工系列 HYDRAULIC CHUCK PARTS MACHINING SERIES

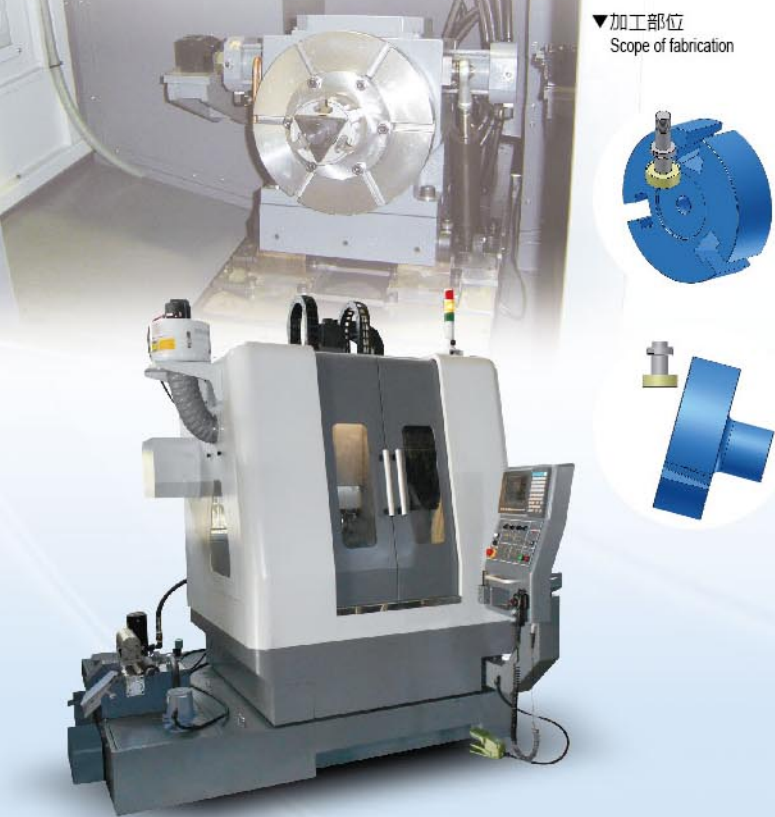
EV-5600 三爪夾頭T溝研磨專用機
Grinder specially for T-groove on 3-jaw chuck



項目ITEM	EV-5600
工件外徑 O.D.-flange	15max inch
研磨溝數 Number of grooves ground	2/3/4/6溝 dich
工件長度 Length-workpiece	160max mm
機械重量 Machine weight	4500 kg
兩側研磨(徑向)主軸轉速 Spindles speed-side grinding (radius)	18000 rpm
底面研磨(軸向)主軸轉速 Spindles speed-bottom grinding (axial)	12000 rpm
佔地面積(面寬×長×高) Die (WxLxH)	2.5x2.8x2.8 m
伺服軸數 Number of servos	4軸 4 axes
修砂方式(外徑) Type of grinding wheel dressing (O.D.)	單點金剛筆修整器 Single-point diamond trimming pen
修砂方式(端面) Type of grinding wheel dressing (end face)	單點金剛筆修整器 Single-point diamond trimming pen
夾具 Gripper	氣壓定位+扭力扳手 Pneumatic positioning+torque wrench

油壓卡盤零件加工系列 HYDRAULIC CHUCK PARTS MACHINING SERIES

EV-5600C 雙主軸中仁T溝研磨機
Twin spindle T slot grinder

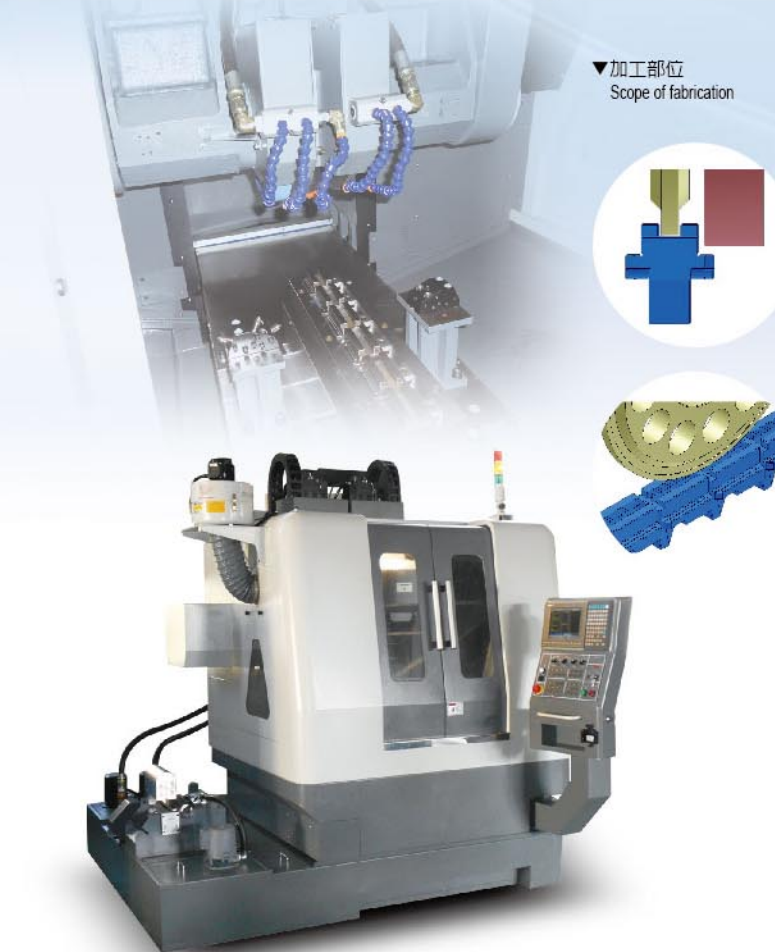


加工部位
Scope of fabrication

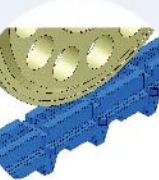


項目ITEM	EV-5600C
工件外徑 O.D.-flange	φ 40~φ 520 mm
研磨溝數 Number of grooves ground	2/3/4溝 dich
工件厚度 Thickness-workpiece	170max mm
機械重量 Machine weight	6000 kg
主軸1轉速 Spindle 1 speed	42000max rpm
主軸2轉速 Spindle 2 speed	20000max rpm
佔地面積(面寬×長×高) Space required (WxLxH)	2.6x2.7x2.6 m
伺服軸數 Number of servos	4軸 4 axes
修砂方式 Type of grinding wheel dressing	單點金剛筆修整器 Single-point diamond trimming pen
夾具 Gripper	油壓夾具 Hydraulic gripper

EV-5600M 雙主軸 主爪研磨專用機
Twin spindle main jaw grinder



加工部位
Scope of fabrication



項目ITEM	EV-5600M
卡盤規格 Chuck specification	18max inch
研磨部位 Grinding position	中間溝/兩側/肩部底面 Center slot / both sides / shoulder & bottom surface
工件排放長度 Workpiece placing length	500max mm
機械重量 Machine weight	6000 kg
主軸轉速 Spindle speed	3600 rpm
佔地面積(面寬×長×高) Space required (WxLxH)	2.5x2.8x2.8 m
伺服軸數 Number of servos	4軸 4 axes
修砂方式 Type of grinding wheel dressing	單點金剛筆修整器 Single-point diamond trimming pen 輪修整砂 (選配) Grinding wheel dresser (opt.)
夾具 Gripper	專用治具 Special jig

汽車輪轂軸承加工系列 WHEEL HUB BEARINGS PROCESSING SERIES

EV-5100 汽車輪轂軸承外圈磨床
Grinder for outer ring of car hub bearing

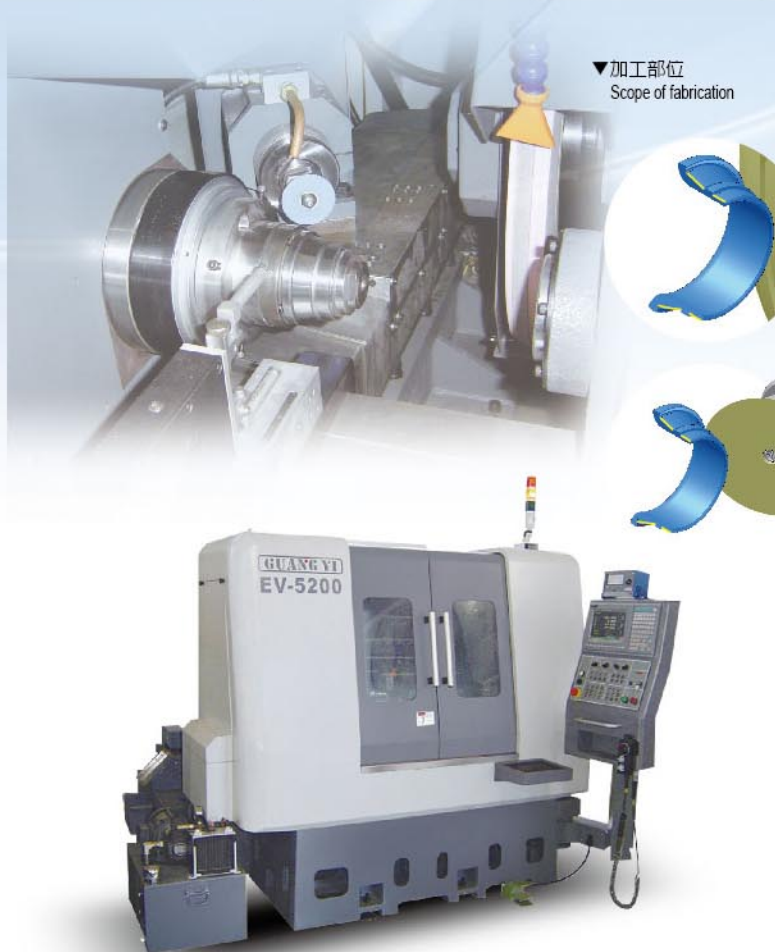


加工部位
Scope of fabrication

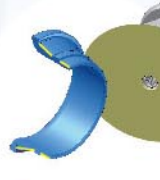


項目ITEM	EV-5100
工件法蘭外徑 O.D.-flange	φ 200max mm
研磨長度 Length of grinding	70max mm
工件長度 Length-workpiece	40~120 mm
機械重量 Machine weight	6500 kg
砂輪主軸轉速 Spindle speed-grinding wheel	10000 rpm
佔地面積(面寬×長×高) Space required (WxLxH)	2.8x2.8x2 m
伺服軸數 Number of servos	2軸 2 axes
修砂方式 Type of grinding wheel dressing	鑽石輪修整器COPY成形 COPY forming by diamond roller
夾具 Gripper	筒夾+油壓端面壓持 Collet+hydraulic end face pressing

EV-5200 汽車輪轂軸承內圈磨床
Grinder for inner ring of car hub bearing



加工部位
Scope of fabrication



項目ITEM	EV-5200
工件外徑 O.D.-flange	φ 30~φ 100 mm
研磨長度 Length of grinding	20~70 mm
工件長度 Length-workpiece	20~70 mm
機械重量 Machine weight	7000 kg
外徑砂輪主軸轉速 Spindle speed-outer grinding wheel	2000 rpm
端面砂輪主軸轉速 Spindle speed-end face grinding wheel	10000 rpm
佔地面積(面寬×長×高) Space required (WxLxH)	2.8x2.8x2 m
伺服軸數 Number of servos	4軸 4 axes
修砂方式(外徑) Type of grinding wheel dressing (O.D.)	鑽石輪修整器COPY成形 COPY forming by diamond roller
修砂方式(端面) Type of grinding wheel dressing (end face)	單點鑽石筆修整器 Single-point diamond trimming pen
夾具 Gripper	油壓筒夾 Hydraulic collet

其他專用機系列 OTHER SERIES OF SPECIAL MACHINES

EV-520

曲軸CNC鑽孔機
CNC drill for crankshaft



項目ITEM	EV-520
加工孔徑 Bore diameter	φ 50max mm
孔上端面平面加工寬度 Width of processing on top surface on the bore	12max (半徑值 radius) mm
工件外徑 O.D.-flange	φ 130 mm
工件長度 Length-workpiece	200max mm
機械重量 Machine weight	3000 kg
主軸轉速 Spindle speed	3000 rpm
佔地面積(面寬×長×高) Space required (WxLxH)	2.5x2.3x2.6 m
伺服軸數 Number of servos	1軸 1 axes
夾具 Gripper	氣壓定位+油壓壓板 Pneumatic positioning+hydraulic presser

EV-250

汽車飛輪自動焊接機
Automatic welder for car flywheel



項目ITEM	EV-250
工件外徑 O.D.-workpiece	φ 200~φ 500 mm
工件厚度 Part thickness-workpiece	50max mm
焊接點數 Number of spots of welding	全週焊~16點等份 Full-circle welding-points at 16 intervals
機械重量 Machine weight	800 kg
佔地面積(面寬×長×高) Space required (WxLxH)	1.6x1.6x2 m
焊槍數 Number of welders	2
伺服軸數 Number of servos	1軸 1 axes
夾具 Gripper	油壓壓板 Hydraulic presser

EV-320

寵物毛梳插針機
Needle inserting machine for pet comb



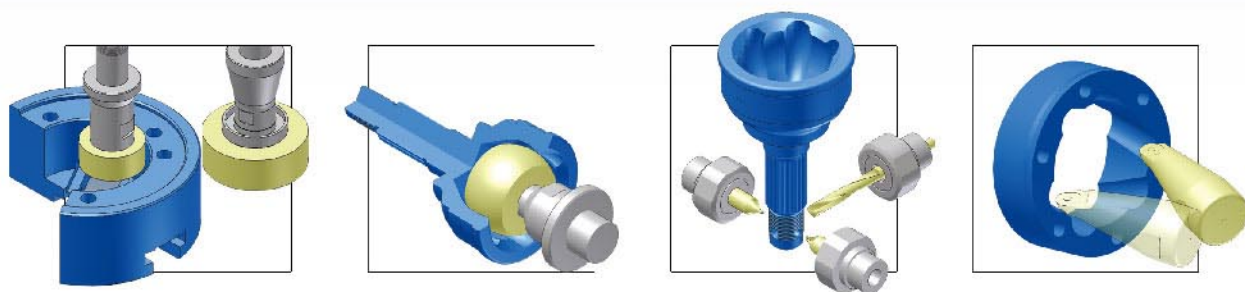
項目ITEM	EV-320
工件尺寸 Workpiece dimensions	130x160max mm
工件厚度 Part thickness-workpiece	3max mm
針數 Number of needles	250max point
機械重量 Machine weight	600 kg
佔地面積(面寬×長×高) Space required (WxLxH)	1.3x1.3x1.8 m
沖針作動方式 Actuation of punching pin	氣壓 Pneumatic
伺服軸數 Number of servos	2軸 2 axes
夾具 Gripper	壓板 Presser

專用治具、量具、刀具

PURPOSE FIXTURE, MEASURING TOOLS AND CUTTING TOOLS



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 - 珠槽PCD量具
 - 各式CVJ製程量具
 - 簡易型中心量具
 - 光學式中心量具
 - 斜溝道PCD量具
 - 各式端銑刀
 - 球道粗/精銑刀片
 - 帶柄砂輪
 - 球道精銑刀
 - 斜溝道銑刀
 - 球道粗銑刀
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