



GE FONG G-42HA-DET
FIXED HEAD CNC LATHE
走刀式CNC電腦自動車床

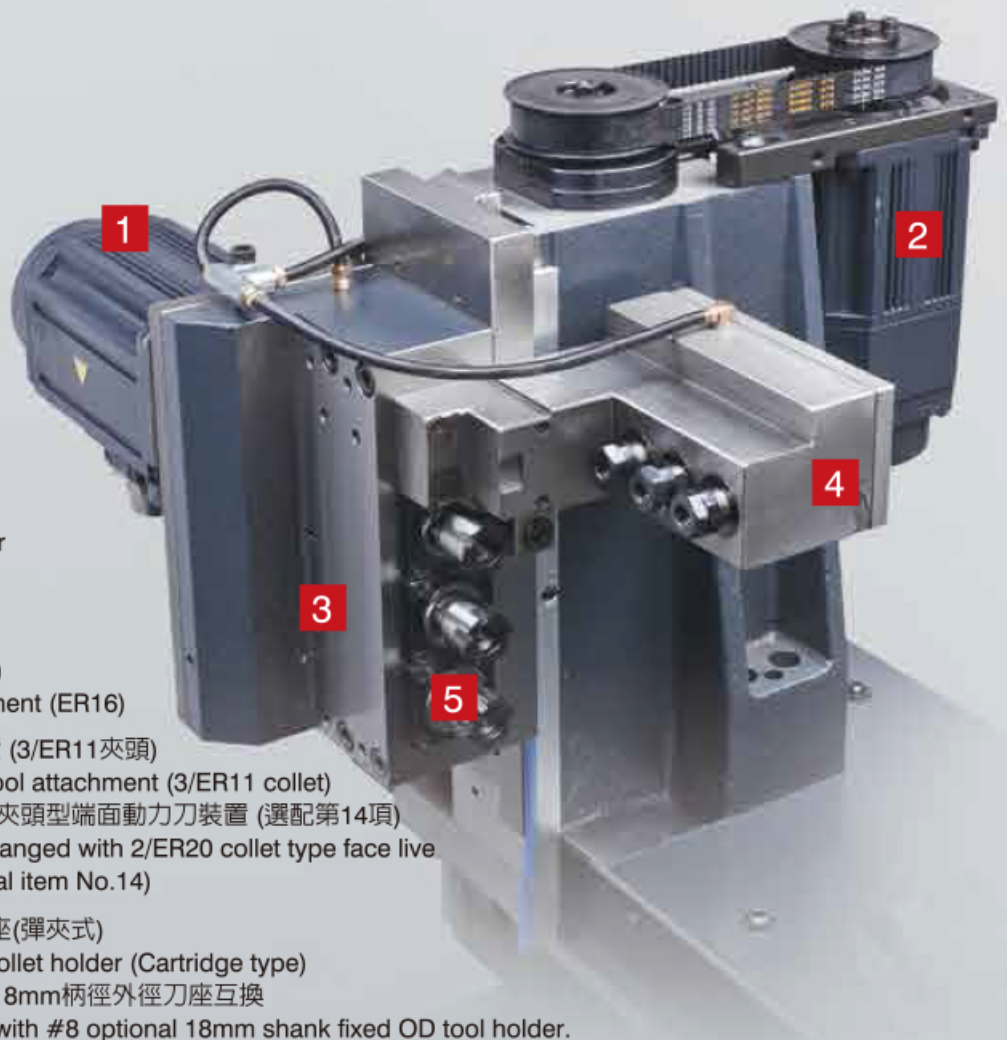


錡峯機械股份有限公司
GE FONG MACHINERY CO., LTD.

GE FONG G-42HA-DET FIXED HEAD CNC

走刀式CNC電腦自動車床

刀塔與Y軸之側/端面動力刀座組合，兼具車銑功能，高效率！
A combination of turret and cross / face live tool attachment (with Y axis) designed for turning and milling with extra high efficiency.



- 1** 動力刀主軸馬達
Live tool spindle motor
- 2** Y軸馬達
Y-axis motor
- 3** 側面動力刀裝置(ER16)
Cross live tool attachment (ER16)
- 4** 可拆式端面動力刀裝置 (3/ER11夾頭)
Detachable face live tool attachment (3/ER11 collet)
註：可拆下改裝2/ER20夾頭型端面動力刀裝置 (選配第14項)
Note: It can be interchanged with 2/ER20 collet type face live tool attachment (Optional item No.14)
- 5** 側面動力刀ER16筒夾座(彈夾式)
Cross live tool ER16 collet holder (Cartridge type)
可拆下與第8項選配之18mm柄徑外徑刀座互換
Can be interchanged with #8 optional 18mm shank fixed OD tool holder.

LATHE

- 6** 固定式內徑刀ER16筒夾座
Fixed ID tool ER16 collet holder
- 7** 固定式內徑刀ER20筒夾座
Fixed ID tool ER20 collet holder
- 8** 接料器
Parts catcher
- 9** 工件盒 Parts collection box
接料時盒蓋自動打開，可把工件導入工件盒
Box door opens automatically when parts catcher moves to receive the completed parts.



機器規格 Machine specifications

機型	MODEL	G-42HA-DET
控制軸	Controlled axes	X, Y, Z, C
可加工最大棒材	Bar capacity	42 mm
最大車削長度	Max. turning length	棒材外徑 Bar dia. x 2.5 ~ 3
端面最大鑽孔直徑	Max. face drilling dia.	鑽頭固定 Fixed drill: Ø10 mm 動力鑽頭 Live drill: Ø6 mm
端面最大攻牙尺寸	Max. face tapping size	牙攻固定 Fixed tap: M10 動力牙攻 Live tap: M5
側面最大鑽孔直徑	Max. cross drilling dia.	動力鑽頭 Live drill: Ø6 mm
側面最大攻牙尺寸	Max. cross tapping size	動力牙攻 Live tap: M5
主軸筒夾型式	Spindle collet type	173E
3-爪夾頭	3-jaw chuck	6°
刀塔	Tool turret	8刀位 / 伺服控制 8 positions / servo controlled
X軸行程	X-axis travel	140 mm
Z軸行程	Z-axis travel	160 mm (尾座 With tail stock) 230 mm (無尾座 Without tail stock)
Y軸行程	Y-axis travel	120 mm
快速位移	Rapid traverse	24 m/min (最高 Max.)
主軸定位分度	Spindle indexing	0.001° (C軸 C axis)
主軸馬達 (連續 / 15分鐘)	Spindle motor (Cont / 15 min)	3.7 / 5.5 KW
主軸最高轉速	Max. spindle speed	4,500 RPM
控制軸馬達	Controlled axis motor	0.75 KW (發那科控制 With Fanuc control) 1 KW (X, Z), 0.75 KW (Y) (三菱控制 With Mitsubishi control)
動力刀主軸馬達	Tool spindle motor	0.75 KW (發那科控制 With Fanuc control) 1 KW (三菱控制 With Mitsubishi control)
油壓泵浦馬達	Hydraulic motor	0.75 KW
冷卻液泵浦馬達	Coolant motor	0.75 KW
潤滑油泵浦馬達	Lubricant motor	0.0035 KW
動力刀數/筒夾	Live tool / collet	側面 cross: 3 / ER16 (Ø10 mm) 端面 face: 3 / ER11 (Ø7 mm), 選配 option: 2 / ER20 (Ø13mm)
外徑刀柄	OD tool shank	16 x 16 mm
最大鑽孔刀柄	Max. boring bar size	Ø20 mm
固定式內徑刀筒夾	Fixed ID tool collet	ER16 (Ø10 mm), 選配 option: ER20 (Ø13mm)
主軸孔	Spindle bore	Ø46 mm
主軸中心高度	Spindle center height	1,120 mm
需求電源	Required power source	3Ø220V x 10 KVA
需求壓縮空氣	Required compressed air	6 Kg / cm ² x 50 NI / min
機器尺寸	Machine size (W x D x H) mm	2,060x1,660x1,700 (附尾座 With tail stock: 2,460x1,660x1,700)
機器重量	Machine weight	2,200 Kgs

- * 本公司享有規格變更之權利，恕不另行通知。
- * 依客戶要求，可選用發那科或三菱控制器。
- * All specifications are subject to change without prior notice.
- * The machine can be equipped with either a Fanuc or Mitsubishi controller upon request.

標準配件 Standard Accessories

1. 工具箱，內含維修、調整工具及基礎調整螺絲、墊片等
 2. 自動潤滑系統
 3. 工作燈
 4. 三層警示燈
 5. 冷卻液泵浦，壓力檢知器
 6. 油壓筒夾
 7. 接料器
 8. 工件盒
 9. 送料機介面
 10. 單孔Ø20 mm內徑刀座(刀塔用) 4 pcs
 11. 固定式內徑刀ER16筒夾座(刀塔用) 4 pcs
 12. ER16筒夾螺帽(側面動力刀及固定式內徑刀用) 7 pcs
 13. ER11筒夾螺帽(端面動力刀用) 3 pcs
 14. 指定單一工件車用刀具、主軸筒夾及各式鑽夾等，不包括特殊刀具
1. Tool kit (containing tools for set-up, adjustment, and leveling bolts, blocks, etc)
 2. Automatic lubrication system
 3. Work lamp
 4. 3-tiered pilot lamp
 5. Coolant pump, pressure sensor
 6. Hydraulic collet chuck
 7. Parts catcher
 8. Parts collection box
 9. Bar feeder interface
 10. 1-position Ø20 mm ID tool holder(for turret) 4pcs
 11. Fixed ID tool ER16 collet holder (for turret) 4 pcs
 12. ER16 collet nut (for cross live tools and fixed ID tools) 7 pcs
 13. ER11 collet nut (for face live tools) 3 pcs
 14. Cutting tools, spindle collet and drill chucks for parts to be set up, but special tools not included

選擇配件 Optional Accessories

1. 自動送料機
 2. 3-爪夾頭(6°)
 3. 排屑機
 4. 夾頭開閉用腳踏開關
 5. 雙孔Ø20 mm內徑刀座(刀塔用)
 6. 固定式內徑刀ER20筒夾座(刀塔用)
 7. ER20筒夾螺帽(選配固定式內徑刀ER20筒夾座或2 / ER20端面動力刀座用)
 8. 側面固定式Ø18 mm柄徑外徑刀座(與側面動力刀ER16筒夾座替換用)
 9. 側面動力刀ER16筒夾座(供側面動力刀座拆除後替換時備用)
 10. 切削室安全門開關
 11. 尾座
 12. 尾座頂針
 13. 變壓器(3 Ø380~415 / 220V x 10KVA)
 14. 2/ER20夾頭型端面動力刀座
1. Magazine type auto bar feeder
 2. 3-jaw chuck (6°)
 3. Chip conveyor
 4. Foot switch for chuck control
 5. 2-position Ø20 mm boring bar holder (for turret)
 6. Fixed ID tool ER20 collet holder (for turret)
 7. ER20 collet nut (for optional fixed ID tool ER20 collet holder or 2/ER20 face live tool attachment)
 8. Ø18 mm shank fixed OD tool holder (for interchange with cross live tool ER16 collet holder)
 9. Cross live tool ER16 collet holder (spare for use when face live tool attachment is to be removed and interchanged)
 10. Safety door switch for cutting tool room
 11. Tail stock
 12. Live center for the tail stock
 13. Transformer(3 Ø380~415 / 220V x 10KVA)
 14. 2/ER20 type face live tool attachment



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專精於自動車床的錡峯公司，再度成功推出G-42HA-DET CNC自動車床，將伺服刀塔與Y軸側/端面動力刀座結合在一機，可加裝氣壓式尾座，無論是長、短工件加工，都表現高效能、精準的性能。

Ge Fong Machinery, a specialized automatic lathe manufacturer, presents the new G-42HA-DET CNC lathe. It combines a servo turret and two cross / face live tool attachments with Y axis in one machine, and is equipped with a pneumatically operated tailstock. This makes the machine ideal for cutting long and short workpieces and exhibits high efficiency and high accuracy features.

Servo turret + Side tool attachment
A Boost in Efficiency



nd tool attachment nd Accuracy

伺服刀塔+側面刀座+端面刀座 效率、精度輕鬆提升

- 內徑、外徑、側面加工及端面偏心孔、攻牙一次完成。
- Cs軸提供輪廓車削功能(刻字、輪廓雕刻)。任意角度定精準。
- 8刀位伺服刀塔
- 氣壓式尾座可支撐長工件。
- 若需要用4支側面動力刀時，可拆下端面動力刀裝置，再裝上備用之側面動力刀ER16筒夾座(選配第9項)。
- 側面動力刀ER16筒夾座使用彈夾式設計，可拆下與固定式 $\varnothing 18$ mm柄徑外徑刀座互換。
- C軸配合油壓碟式煞車，加工穩定性提升。
- 工件加工完成，接料器將工件送到工件盒，工件可在外部從工件盒內取出。
- 旋轉式操作箱，試機更方便。
- ID, OD, cross machining, off-center drilling and tapping can be efficiently accomplished in one setup.
- The Cs-axis provides contouring functions (words and pattern engraving). The spindle accurately orientates at any angle.
- 8-position servo turret.
- Pneumatically operated tailstock helps hold long workpiece firmly.
- If 4 cross live tools are required, the face live tool attachment can be removed and interchanged with a spare cross live tool ER16 collet holder (optional item No. 9).
- The cross live tool ER16 collet holder is cartridge type, and can be interchanged with $\varnothing 18$ mm shank fixed type OD tool holder.
- The C-axis is equipped with a disc brake, ensuring improved stability of machining.
- Once parts machining is finished, the parts catcher will deliver the parts to the parts collection box, and then can be taken out outside the machine.
- Swing control box facilitates running test.



8刀位伺服刀塔

- 伺服刀塔可安裝內徑刀及外徑刀。
- 可安裝雙孔內徑刀座 (選配)。

8-position Servo Turret

- The servo turret can be fitted with ID and OD tools.
- Also available to fit with a 2-position ID tool holder (optional).



氣壓式尾座

- 尾軸管之致動氣缸行程採用近接開關控制。依工件長度作適當伸出。
- 氣缸具緩衝特性，有效避免加工時尾座振動問題。

Pneumatically Operated Tailstock

- The stroke of the air cylinder that actuates the tailstock quill is controlled by a proximity switch to suit workpiece length.
- The air cylinder features buffering function to eliminate vibration of the tailstock while machining.



C軸煞車

- C軸採用油壓碟式煞車，除了確保主軸定位精度可達 0.001° ，並且可鎖固主軸，提升側面及端面重切削時之穩定性 (如側面鑽孔、攻牙、銑削及端面偏心加工等)。

C-axis Brake

- The C-axis employs a hydraulic disc brake, enabling spindle orientating accuracy to reach 0.001° . Another benefit is to lock the spindle securely for increasing stability when performing heavy cutting on end and side faces. (Such as cross drilling, tapping, milling and end-face off-center machining).



- ▲ 固定式內徑刀ER16筒夾座 (標配4個)
- Fixed ID tool ER16 collet holder (standard, 4 pcs)



- ▲ ER16 筒夾螺母 (標配7個)
- ER16 collet nut (standard, 7 pcs)



- ▲ 側面固定式18mm柄徑外徑刀座 (選配)
- $\varnothing 18\text{mm}$ shank fixed OD tool holder (optional)



- ▲ 固定式內徑刀ER20筒夾座含螺母 (選配)
- Fixed ID tool ER20 collet holder with nut (optional)