

JG3

01

數控複合式
內外徑磨床
CNC Universal -
Circular Grinder

JG3是針對工件之需求,利用多種砂輪配置改善製程,提高精度之研磨機,能進行內徑、外徑、端面及锥度之同時研磨,簡易的三軸伺服構造及雙研磨主軸提供多樣的系統配置,使加工能力無限寬廣。

JG3 makes customers to find the optimal process for the workpieces, owing to supplying high accuracy. This Machine performs automatically grinding inner and outer diameters, faces and tapers. Simple 3 axes servo structure and twin wheel spindles provide various constitution to raise the broad working range of workpieces.

01

數控複合式
內外徑磨床
CNC Universal -
Circular Grinder

02

機械型式
Machine Program

1. 內徑磨床
 2. 雙主軸內徑磨床
 3. 複合式內外徑磨床
1. JG3-S for Internal Grinder
 2. JG3-T for Twins Internal Grinder
 3. JG3 for Universal Grinder

03

多元化配置系統
Optimal Solution

雙主軸設計,可分派多樣式機械結構,使每一個工作程序可得到最佳的解決方案。

1. 內徑 + 斜進式外徑
2. 內徑 + 直進式外徑
3. 內徑 + 內徑
4. 斜進式內徑 / 內徑

Twins spindle provides wide variations, then optimal grinding solution.

1. Internal + Angular External
2. Internal + Straight External
3. Internal + Internal
4. Angular Internal / Internal

04

寬廣的工作能力
Wide Capacity

工作能力:

研磨內徑: Ø6~200mm
研磨長度: 200 / 250mm
可夾持工件長度: 450mm
中心架: Ø150mm

1. 精密修整器:

有多種修整器可選擇,也可安裝兩種以上修整器。

a. 固定式修整器:

可安裝2只鑽石筆,用於內徑研磨。

b. 單元懸臂式修整器:

安裝六只鑽石筆可同時修整內圓砂輪及外徑砂輪,可確保修整之穩定與良好之研磨特性。

2. 工件中心架:

有兩種尺寸可選擇Ø150 / Ø200 OPT; 偏擺角度可達20°,可滿足高精度主軸鏤孔(7: 24)磨削,適合大角度研磨。

3. 強大的外徑研磨能力:

搭配Ø305之砂輪進行外徑研磨,切削效率快、精度高。

可選擇

a. 內藏式主軸 (M3-LSMØ120*350L)

b. 皮帶式外徑主軸(塔林式)

Work Capacity:

Grind Dia: Ø6~200mm
Grind Length: 200 / 250mm
Length of Workpiece: 450mm
Reset Max Dia: Ø150mm

1. Dressing:

There are lots of dressers for the operator to choose.

a. Fixed Dresser

Used to set up two diamond pens for internal grinding.

b. Unit-Rotary Dresser Arm Dresser

Used to set up six diamond pens to adjust inner and outer wheel spindles at one time. This assures the steady of dressing and good character of grinding.

02.1 內徑磨床

JG3-S for Internal Grinder

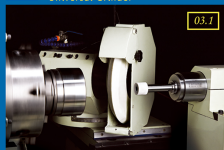


02.2 雙主軸內徑磨床

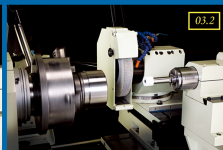
JG3-T for Twins Internal Grinder



02

機械型式
Machine Program02.3 複合式內外徑磨床
Universal Grinder

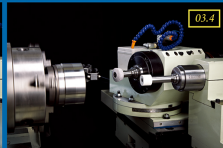
03.1



03.2



03.3



03.4

0.3 多元化配置系統
Optimal Solution

03.1

03.2

03.3

03.4

可為四種模式

2. Reset:

There are two types of reset—Ø150 and Ø200 OPT.

The degree of taper angle can be grounded up to 20°, which is suitable for high-accuracy tapers (724) and wide-angle grinding.

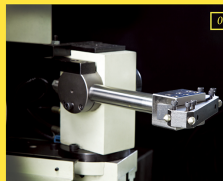
3. Strong External Grinding Capacity

With Ø305 external wheel spindle creates high efficiency and high accuracy

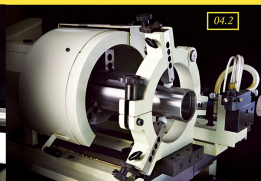
a. Build-in Spindle (M3-LSMØ120*350L)

b. Belt-External Spindle (bearing)

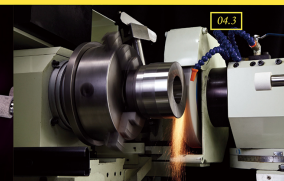
04.1



04.2



04.3



06

經濟效益型 (JG3S)
Cost Effective Type (JG3S)✓EASY
✓ECONOMIC
✓ENSURE**控制系統**

為了使客戶能安全、容易、多功能的操作 JG3，本公司使用 FANUC 之控制器，並搭配本公司自行開發之研磨軟體。

研磨軟件(選配):JIMATIC F-9000

完整提供20個工程程序之連續加工（包括內孔、端面、外徑等程序），工作能力強大研磨排程變得更容易，校機正確又快。

Control System:

FANUC controller and self-developed grinding software.

Grinding Software (option): JIMATIC F-9000

Perfect twenty procedures of grinding workpieces at one time, including inner faces, inner and end face, etc., which creates strong capacity, simple grinding, high efficiency and high accuracy.

05

JIMATIC F-9000

工藝與科技的結合體

向應機械工業股份有限公司，以製造磨床三十餘年的工作經驗，培養研磨工藝的技術，並投入最新科技的開發；不斷自我提昇研究團隊競爭力，提供客戶更多選擇與服務。從早期油壓內徑研磨機，發展到今天的 CNC 系列，自動化、高精度等多樣產品，更能符合客戶的需求。對客戶的銷售服務(前期規劃,中期保證,後期保固),我們均要求完美的客戶感受,對品質的要求態度,我們從不放鬆,我們也確信客戶滿意使用,保證最高品質及先進研發能力,才是在競爭市場中常勝唯一目標。"JIM" 這個標誌是磨床品質的代表,我們將持續保有這份榮耀並發揚全世界。

TECHNOLOGY/TECHNIQUE

Hsiang Ying Machinery Co., Ltd. (hereinafter called "Hsiang Ying"), with more than thirty-year experience of producing grinders, cultivates craft technology of grinding and involves in developing the latest technology. In order to provide customers with more choices and services, Hsiang Ying constantly enhances the competitiveness of the research team. From the early hydraulic internal grinders to nowadays CNC series, the variety products with automation and high-precision models meet customers' needs. Hsiang Ying believes that the only way to win in the competitive market is to concern customers' satisfaction, guarantee of the highest quality and advanced R & D capabilities. Perfect satisfaction is guaranteed to Hsiang Ying's customers. "JIM" represents high quality grinders. Hsiang Ying will maintain this honor and carry it forward to the whole world.

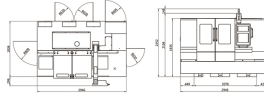
CNC Universal Circular Grinder

JG3

CNC Universal Circular Grinder JG3 技術資料

Technical Data

項目 Item	單位 Unit	JG3	JG3-T	JG3-S	JG3S
工作台面徑 Swing Over Table	mm	300	300	300	300
可研磨內徑長度 Length of Grinding (inner)	mm	250	250	250	200
可研磨內徑 Range of Grinding ID	mm	φ6~φ200	φ6~φ200	φ6~φ200	φ6~φ200
可研磨外徑長度 Length of Grinding (outer)	mm	100	150	150	150
可研磨外徑 Range of Grinding OD	mm	φ250	φ200	φ250	φ150
最大工件重量 Load on Spindle Head	kg	150	150	150	90
最大工件外徑 Range of Workpiece OD	mm	φ250	φ250	φ250	φ250
最大工件長度 Max. Workpiece Length	mm	450	450	450	250
全移動量 Max. Carriage Feed Drive	mm(Z1-axes)	390	390	390	390
最小設定單位 Min. Setting Unit	mm	0.001	0.001	0.001	0.001
自動進給速度 Auto Infeed Speed	mm/min	5000	5000	5000	5000
精速 Work Spindle Speed	R.P.M.	1~900	1~900	1~900	1~900
主軸內孔直徑 Inner Hole Taper	MT.	MT.5	MT.5	MT.5	MT.5
主軸孔徑 Dia. of Through Hole	mm	φ32	φ32	φ32	φ32
主軸調整角度 Headstock Swing angle	°	-5°~+20°	-5°~+20°	-5°~+20°	-5°~+20°
機械尺寸(長x寬x高) Machine Dimension	mm (L x W x H)	2946x2135x2252	2946x2135x2252	2946x2135x2252	2500x2930x2203
機械重量 Net Weight (approx.)	kg	3800	3800	3700	3500

機械基礎圖
Machine Layout
JG3

JG3S



JIM

HSIANG YING

向應機械工業股份有限公司
HSIANG YING MACHINERY CO., LTD.
408 台中市南屯區精科中二路11號
No.11, Jingke Central 2nd Rd., Nantun Dist.,
Taichung City 408, Taiwan
Tel: 886-4-2359-3159, 2359-3607
Fax: 886-4-2355-3366
E-mail: jim_lumax@msa.hinet.net
Http://www.lumaxjim.com.tw

代理商 / AGENT

19.02

HSIANG YING

向應機械工業股份有限公司
HSIANG YING MACHINERY CO., LTD.

CNC Universal Circular Grinder

JG3

數控複合式內外徑磨床
CNC Universal Circular Grinder解決研磨最佳方案
Optimal Solution for Grinding