



UNIVERSAL CYLINDRICAL GRINDER 萬能圓筒磨床

Model : UA, UH-300, 350/650, 800

Features:

- * Heavy bed provides a rigid base to carry all units and possesses great stiffness, sufficient slideway length to support the table in all position.
- * Eight-speed type workhead with all belt drive provides full power at all speeds.
- * Wheel spindle is induction hardened and precision ground.
- * Wheel spindle lubricates automatically and is electrically interlocked with motor. These ensure the durability of the grinding wheel spindle and bearings, and also the roundness, superior finishing of the workpiece.
- * Hydraulic table traverse has end dwell at both ends of the stroke, and is equipped with independent, stepless speed controls, for both directions.

機器特性：

- * 床台基座穩固，剛性特佳。
- * 主軸芯無段變速適合各類工作轉速選擇。
- * 砂輪主軸採用特殊合金鋼，經硬化處理後精磨研磨而成，經久耐用。
- * 採用強制式循環潤滑系統及安全連鎖設計，當油壓不足時，磨軸主軸無法啓動，以確保磨輪主軸壽命以及工件之精度與表面光度。
- * 砂輪座如附油壓快速進退刀裝置，可提高工作效率。
- * 床台左右油壓控制，附左右暫停。

Standard Attachments:

- * Swivel base motor-driven workhead
- * Lever-operated tailstock
- * Workhead & tailstock centers
- * Standard grinding wheel
- * Wheel flange and extractor
- * Wheel dresser holder
- * Coolant supply unit
- * Lubricant supply unit
- * Table swivel indicator
- * Splash guard
- * Diamond dressing tool
- * Tools and tool box

標準附件：

- * 旋轉式主軸台
- * 尾座
- * 主軸台及尾座頂針
- * 標準砂輪
- * 砂輪法蘭及拆卸器
- * 砂輪修整儀
- * 冷卻水裝置
- * 潤滑油裝置
- * 床台旋轉校錶裝置
- * 防水板
- * 鑽石刀
- * 手工具

Extra Attachments:

- * Internal grinding attachment
- * 3-point steady rest
- * 2-point steady rest
- * 3-Jaw self-centering chuck and plate
- * 4-Jaw independent chuck and plate
- * Magnet coolant filter
- * Radius wheel dresser
- * Angular wheel dresser
- * Wheel balancing unit
- * Extra grinding wheel
- * Extra wheel flange
- * Extra diamond dressing tool

特殊附件：

- * 內孔研磨裝置
- * 三點式穩定扶架
- * 兩點式穩定扶架
- * 三爪夾頭及面盤
- * 四爪夾頭及面盤
- * 磁性冷卻除屑裝置
- * 圓弧砂輪修整儀
- * 角度砂輪修整儀
- * 砂輪平衡儀
- * 備用砂輪
- * 備用砂輪法蘭
- * 備用鑽石刀

Models available:

機型選擇：

UA — Hydraulic table traverse, wheelhead approach by manual
床台油壓橫行，砂輪頭手動縱行

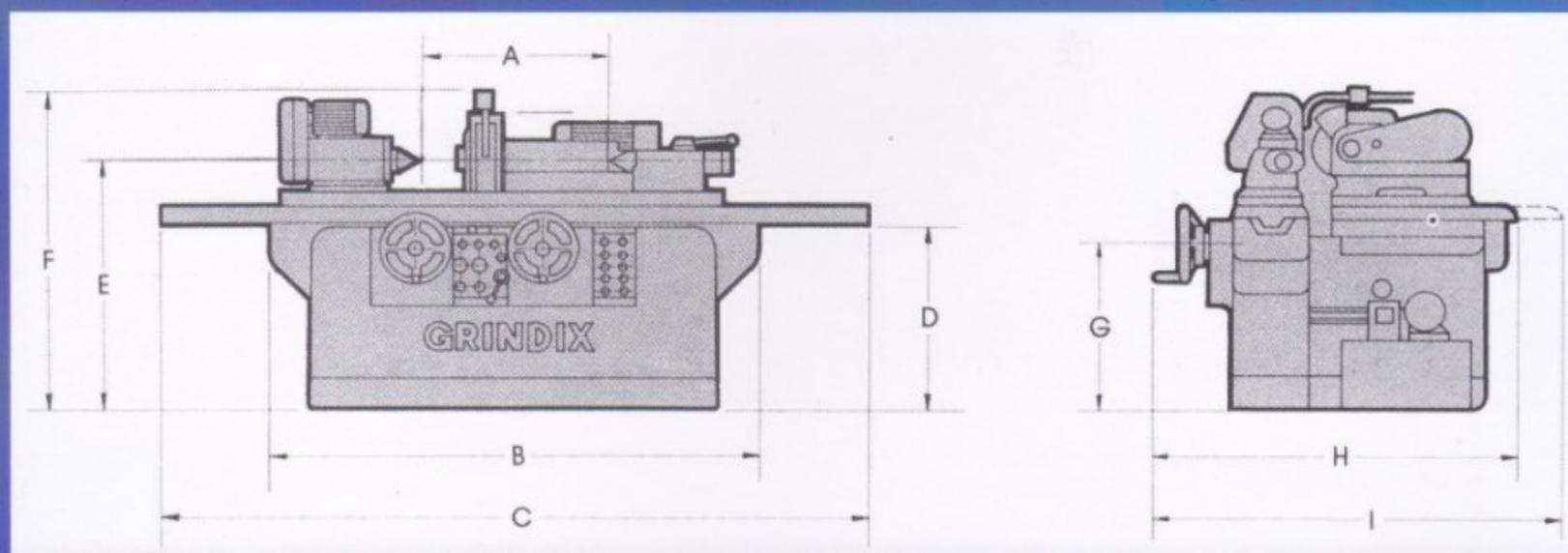
UH — Hydraulic table traverse, wheelhead rapid approach and retraction
床台油壓橫行，砂輪頭油壓縱行快送及快回



■ SPECIFICATION 規格

ITEMS			650UH	800UH
Capacity 能量	Max. swing diam 最大工作旋徑	mm (in.)	300 (11 13/16); 350 (13 15/32)	
	Distance between centers 頂心間距離	mm (in.)	650 (25 1/2)	800 (31 1/2)
	Weight on center 頂心荷重	kg	120	
Wheelhead 砂輪台	Standard wheel size 砂輪尺寸	mm (in.)	406 ϕ x38x127 ϕ	
	Wheel spindle speed 砂輪轉速	rpm	1450	
	Total swivelling angle 旋角總度數	°	0°-30°	
	Hydraulic rapid feed stroke 油壓快送距離	mm (in.)	40 (1 9/16)	
	Total amount of handfeed 手動進刀總量	mm (in.)	160(6 1/4)	
	One revolution of handwheel 手輪一轉	mm (in.)	1 (0.04)	
	Feed per graduation 手輪每格進刀量	mm (in.)	0.0025 (0.0001)	
Workhead 主軸台	Total swivelling angle 旋角總度數	°	0°-90°	
	Work spindle speeds 芯軸轉速	rpm	15-100; 30-200 無段變速	
	Work center taper 頂針斜孔	MT	#4	
Tailstock 尾座	Work center taper 頂針斜孔	MT	#4	
	Spindle stroke 芯軸行程	mm (in.)	40 (1 9/16)	
Table 床台	Traverse speed 左右速度	mm/min.	40-4000	
	Total swivelling angle 旋角總度數	°	0°-10°	0°-9°
	Traverse per turn of handwheel 手輪一轉	mm (in.)	14 (9/16)	
Motors 馬達	Grinding wheel 砂輪芯軸	HP	7 1/2	
	Workhead spindle 主軸芯軸	HP	1/2	
	Hydraulic pump 油壓泵	HP	2	
	Coolant pump 冷卻水泵	HP	1/8	
Shipping Dimension 裝箱尺寸	Machine weight (net) 機器淨重	kg	2100	2300
	Machine weight (gross) 機器總重	kg	2500	2700
	Box size (export) 外箱尺寸	mm	2300x1650x1820	

■ MACHINE DIMENSION 機器外型尺寸圖



UNIT: MM(IN.)

MODEL	A	B	C	D	E	F	G	H	I
650	650 (25 1/2)	2000 (78 3/4)	3490 (137 1/2)	760 (30)	1070 (42 1/8)	1520 (52 6/7)	650 (25 1/2)	1270 (50)	1390 (54 3/4)
800	800 (31 1/2)	2000 (78 3/4)	3890 (153 1/2)	760 (30)	1070 (42 1/8)	1520 (59 6/7)	650 (25 1/2)	1270 (50)	1390 (54 3/4)



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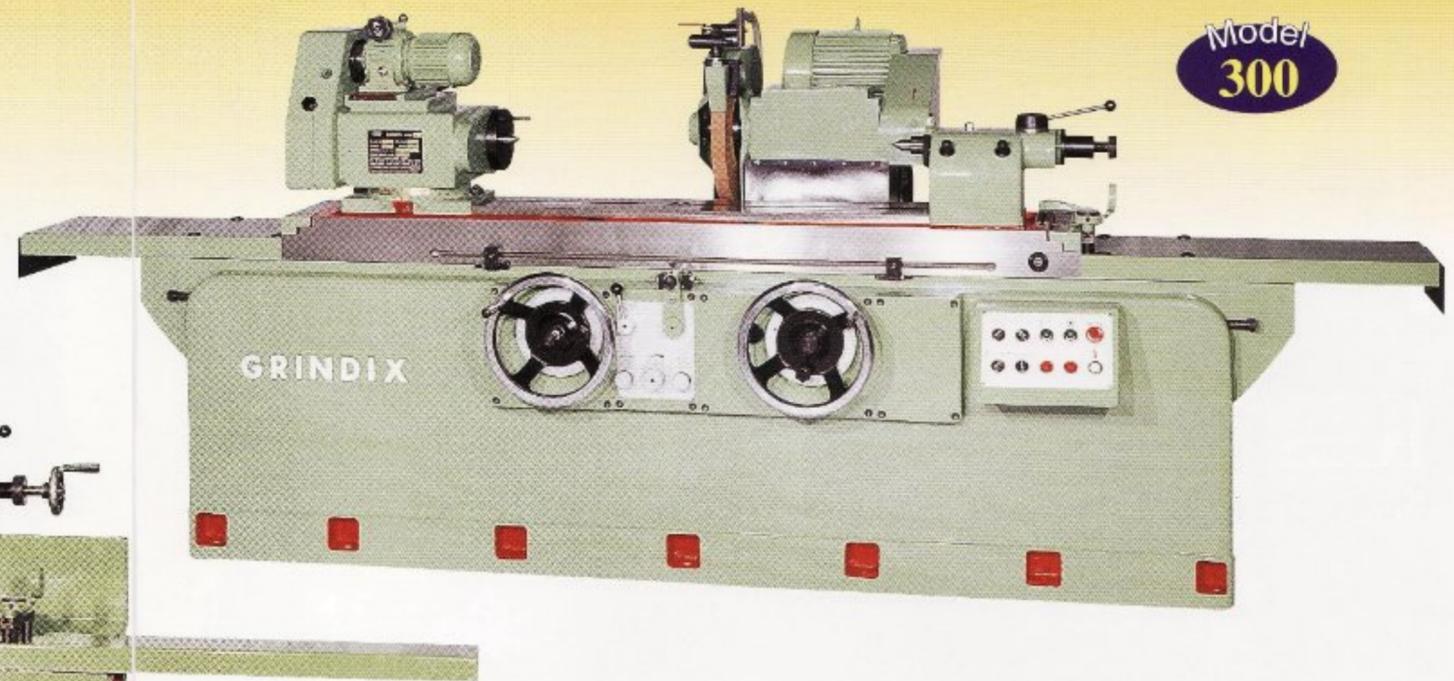
UNIVERSAL CYLINDRICAL GRINDER 萬能圓筒磨床

Model : UM, UA, UH-300, 400/1000, 1200, 1500

Models available:

機型選擇：

- UM — Hand traverse and hand wheel feed
全手動
- UA — Hydraulic table traverse, wheelhead approach by manual
床台油壓橫行，砂輪頭手動縱行
- UH — Hydraulic table traverse, wheelhead rapid approach and retraction
床台油壓橫行，砂輪頭油壓縱行快送及快回
- AGC — Table left-right movement, hydraulic driven wheelhead, rapid approach and retraction, automatic feed
床台左右移位，油壓驅動，砂輪頭縱行快送及快回，進給自動



Model 300



Model 400

Features:

- * Heavy bed provides a rigid base to carry all units and possesses great stiffness, sufficient slideway length to support the table in all position.
- * Eight-speed type workhead with all belt drive provides full power at all speeds.
- * Wheel spindle is induction hardened and precision ground.
- * Wheel spindle lubricates automatically and is electrically interlocked with motor. These ensure the durability of the grinding wheel spindle and bearings, and also the roundness, superior finishing of the workpiece.
- * Hydraulic table traverse has end dwell at both ends of the stroke, and is equipped with independent, stepless speed controls, for both directions.

機器特性：

- * 床台基座穩固，剛性特佳。
- * 主軸芯無段變速適合各類工作轉速選擇。
- * 砂輪主軸採用特殊合金鋼，經硬化處理後精磨研磨而成，經久耐用。
- * 採用強制式循環潤滑系統及安全連鎖設計，當油壓不足時，磨軸主軸無法啟動，以確保磨輪主軸壽命以及工件之精度與表面光度。
- * 砂輪座如附油壓快速進退刀裝置，可提高工作效率。
- * 床台左右油壓控制，附左右暫停。

Standard Attachments:

- * Swivel base motor-driven workhead
- * Lever-operated tailstock
- * Workhead & tailstock centers
- * Standard grinding wheel
- * Wheel flange and extractor
- * Wheel dresser holder
- * Coolant supply unit
- * Lubricant supply unit
- * Table swivel indicator
- * Splash guard
- * Diamond dressing tool
- * Tools and tool box

標準附件：

- * 旋轉式主軸台
- * 尾座
- * 主軸台及尾座頂針
- * 標準砂輪
- * 砂輪法蘭及拆卸器
- * 砂輪修整儀
- * 冷卻水裝置
- * 潤滑油裝置
- * 床台旋轉校錶裝置
- * 防水板
- * 鑽石刀
- * 手工具

Extra Attachments:

- * Internal grinding attachment
- * 3-point steady rest
- * 2-point steady rest
- * 3-Jaw self-centering chuck and plate
- * 4-Jaw independent chuck and plate
- * Permanent magnetic chuck and plate
- * Magnet coolant filter
- * Radius wheel dresser
- * Angular wheel dresser
- * Wheel balancing unit
- * Extra grinding wheel
- * Extra wheel flange
- * Extra diamond dressing tool

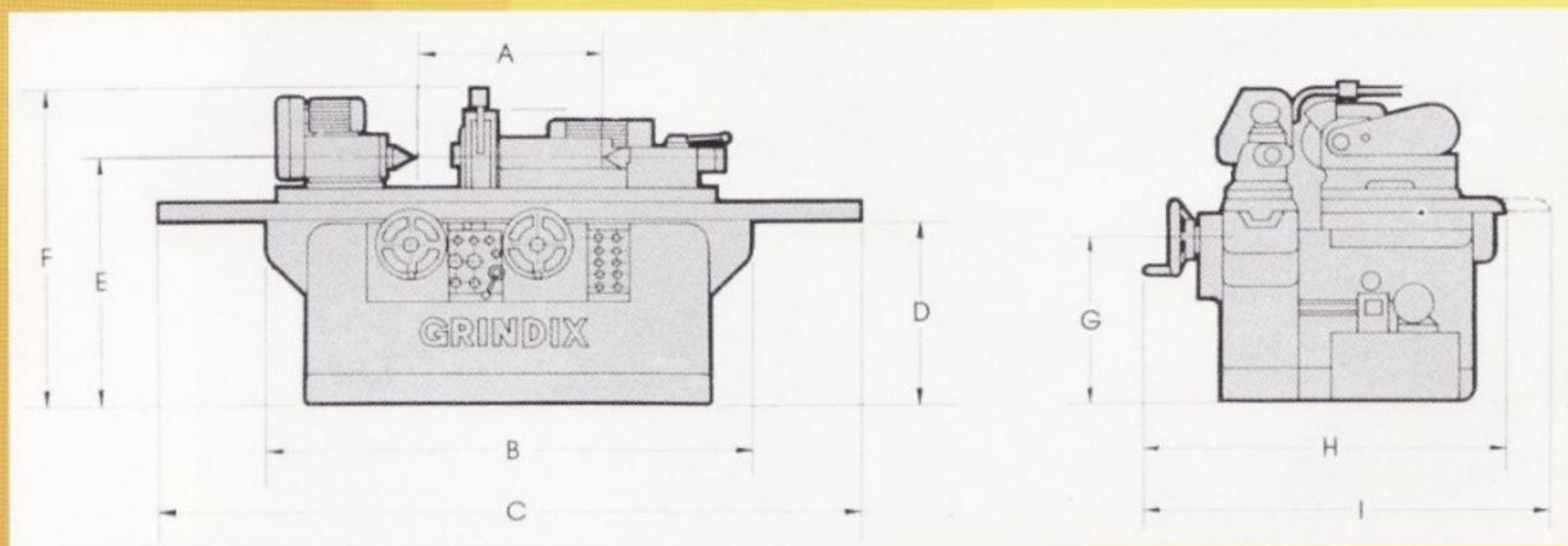
特殊附件：

- * 內孔研磨裝置
- * 三點式穩定扶架
- * 兩點式穩定扶架
- * 三爪夾頭及面盤
- * 四爪夾頭及面盤
- * 永久磁鐵及面盤
- * 磁性冷卻除屑裝置
- * 圓弧砂輪修整儀
- * 角度砂輪修整儀
- * 砂輪平衡儀
- * 備用砂輪
- * 備用砂輪法蘭
- * 備用鑽石刀

■ SPECIFICATION 規格

ITEMS			1000UH	1200UH	1500UH
Capacity 能量	Max. swing diam 最大工作旋徑	mm (in.)	300 (11 13/16)		400 (15 3/4)
	Distance between centers 頂心間距離	mm (in.)	1000 (39 1/4)	1200 (47 1/4)	1500 (59 1/8)
	Weight on center 頂心荷重	kg	250		
Wheelhead 砂輪台	Standard wheel size 砂輪尺寸	mm (in.)	406 φ x38x127 φ (16x1 1/2x5)		
	Wheel spindle speed 砂輪轉速	rpm	1375		
	Total swivelling angle 旋角總度數	°	0°-30°		
	Hydraulic rapid feed stroke 油壓快送距離	mm (in.)	40 (1 9/16)		
	Total amount of handfeed 手動進刀總量	mm (in.)	295 (11 5/8)		
	One revolution of handwheel 手輪一轉	mm (in.)	1 (0.04)		
	Feed per graduation 手輪每格進刀量	mm (in.)	0.0025 (0.0001)		
	Workhead 主軸台	Total swivelling angle 旋角總度數	°	0°-90°	
Work spindle speeds 芯軸轉速		rpm	15-100; 30-200 無段變速		
Work center taper 頂針斜孔		MT	#4		
Tailstock 尾座	Work center taper 頂針斜孔	MT	#4		
	Spindle stroke 芯軸行程	mm (in.)	40 (1 9/16)		
Table 床台	Traverse speed 左右速度	mm/min.	40-4000		
	Total swivelling angle 旋角總度數	°	0°-7 1/2°	0°-6°	
	Traverse per turn of handwheel 手輪一轉	mm (in.)	14 (9/16)		
Motors 馬達	Grinding wheel 砂輪芯軸	HP	7 1/2		
	Workhead spindle 主軸芯軸	HP	300 / 1/2HP	400 / 1HP	
	Hydraulic pump 油壓泵	HP	2		
	Coolant pump 冷卻水泵	HP	1/8		
Shipping Dimension 裝箱尺寸	Machine weight (net) 機器淨重	kg	2800	3100	3400
	Machine weight (gross) 機器總重	kg	3200	3500	3850
	Box size (export) 外箱尺寸	mm	3300x1850x1920	3500x1850x1920	4300x1850x1920

■ MACHINE DIMENSION 機器外型尺寸圖



UNIT: MM(IN.)

MODEL	A	B	C	D	E	F	G	H	I
1000	1000 (39 1/3)	2920 (115)	4090 (161)	760 (30)	1070 (42 1/8)	1545 (61)	650 (25 1/2)	1400 (55)	1525 (60)
1200	1200 (47 1/4)	2900 (115)	4290 (168)	760 (30)	1070 (42 1/8)	1545 (61)	650 (25 1/2)	1400 (55)	1525 (60)
1500	1500 (59 1/8)	3920 (154 5/16)	5990 (184 3/5)	760 (30)	1070 (42 1/8)	1545 (61)	650 (25 1/2)	1400 (55)	1525 (60)

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HYDRAULIC UNIVERSAL CYLINDRICAL GRINDER 油壓萬能圓筒磨床

MODELS: UH-500/2000,2500,3000,4000
機型

MEDIUM DUTY
中力型



▲ TYPE SELECTION: 機型選擇

UH....Hydraulic table traverse, wheelhead rapid approach and retraction.
床台油壓橫行，砂輪頭油壓縱行快送及快回

▲ FEATURES:

1. Apply for grinding of the straight faced rolls, large machinery columns, car axles, printing cylinders, large motor armatures and other work of same nature.
2. Heavy bed are substantially ribbed provides a rigid base to carry all units and possesses great stiffness. Sufficient slideway length to support the table in all position.
3. Sloping table top allows the workhead and tailstock to be moved laterally without losing alignment.
4. Hydraulic wheel head control with quick approach and return.
5. Wheel head spindle are pressure lubricated and a pressure switch is electrically inter locked with wheel motor.
6. Hydraulic table traverse has end dwelling at both end of stroke and equipped with independent stepless speed control for both directions.
7. Workhead spindle drive from D.C. adjustable speed motor.
8. Swivel table equipped with a dial indicator function with adjusting device and aids in making exact setting.
9. Air bearing provides convient means of moving the workhead and tailstocks.
10. Work carriage has telescoping guard to protecting sliding way from dirt.

▲ 機器特性：

1. 強力型機種適合研磨滾輪，機器大柱，車輛車軸，大馬達芯軸。
2. 床台基座，穩固性好，剛性特佳。
3. 斜面工作床台，使主軸台及尾座自然牢貼基準側面，長保機器準心精度。
4. 砂輪座油壓控制快進退刀。
5. 砂輪軸芯，強迫式潤滑泵附電氣連鎖安全裝置。
6. 床台左右油壓控制，附左右暫停及左右獨立式速度調整。
7. 主軸馬達無段傳動。
8. 床台旋角裝置附百分錶指示，轉角精確方便。
9. 主軸台及尾座特殊空氣軸承座面設計，移位輕便省力。
10. 床台兩端伸縮式護蓋防塵防水。

▲ STANDARD EQUIPMENT:

1. Face and side wheel dressing attachment
2. Grinding wheel flange
3. Wheel balancing arbor
4. Wheel flange removal
5. Cemented carbide center
6. Levelling screws and plates
7. Splash guard
8. Wheel dressing tool
9. Standard grinding wheel
10. Touch-up paint
11. Table swivel indicating dial gauge
12. Standard tools and tool box

▲ 標準附件：

1. 砂輪修整儀
2. 砂輪法蘭
3. 砂輪平衡用芯軸
4. 砂輪拆卸器
5. 鑄鋼頂針
6. 水平調整螺絲及墊塊
7. 防水護板
8. 鑽石刀
9. 標準砂輪
10. 補備油漆
11. 床台旋角百分錶
12. 標準工具及工具箱

▲ EXTEA EQUIPMENT:

1. Work rest (2-point steady rest)
2. Grinding wheel balancing unit
3. Magnetic coolant filter
4. Radius wheel dressing attachment
5. Extra grinding wheel
6. Extra wheel flange
7. 3-Jaw self-centering chuck with back plate
8. Four-jaw chuck with back plate
9. Frequency converters for grinding wheels
10. Light-emitting diodes

▲ 特殊附件：

1. 兩點式中心架
2. 砂輪平衡儀
3. 磁性除屑機
4. 圓弧砂輪修整儀
5. 額外砂輪
6. 額外砂輪法蘭
7. 三爪夾頭及面盤
8. 四爪夾頭及面盤
9. 變頻器 (砂輪用)
10. 光學尺