



CENTER HOLE GRINDING MACHINE



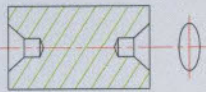
CENTER HOLE GRINDING MACHINE



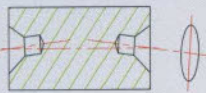
Applicable

- The machine is suitable for cutting tool, spindle, tool holder, gear shafts and tempered transmission shafts and the workpiece requests high accuracy from cylindrical grinding. The quality of cylindrical grinding will depend on the center hole circular geometrical accuracy.

Stability! High Precision and Quality



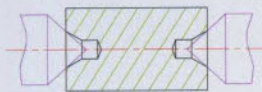
1. out of round



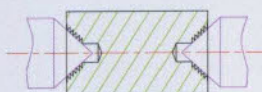
2. poor alignment



3. angle too large



4. angle too small

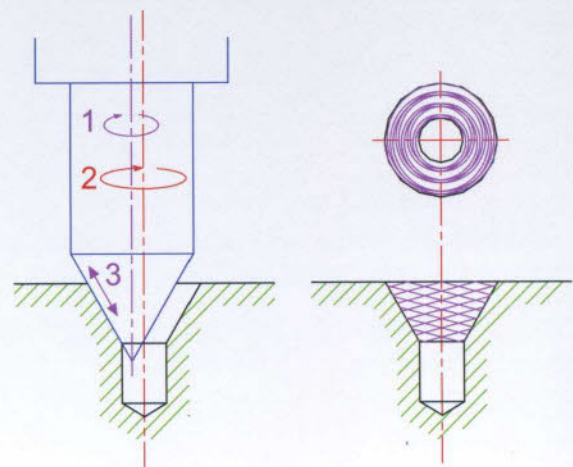


5. poor surface finish

Exclusive Design of Grinding Operation

With exclusive 3D design of synchronized grinding motion, the machine will be very stable and automatically locates center.

- Grinding wheel rotation.
- Planetary motion of grinding wheel spindle
- Grinding wheel reciprocating motion will be along on conical surface.



- Based on three-axis simultaneous grinding action, grinding out heterogeneous pattern, with a small oil groove feature, oil film can be formed in a permanent between workpiece and center of cylindrical grinding machine. This is to prevent non-film stuck with the center and can eliminate unnecessary error, in order to facilitate high quality cylindrical grinding.



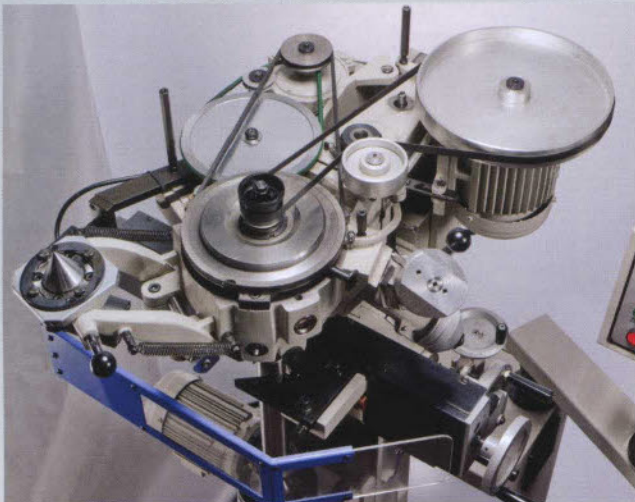
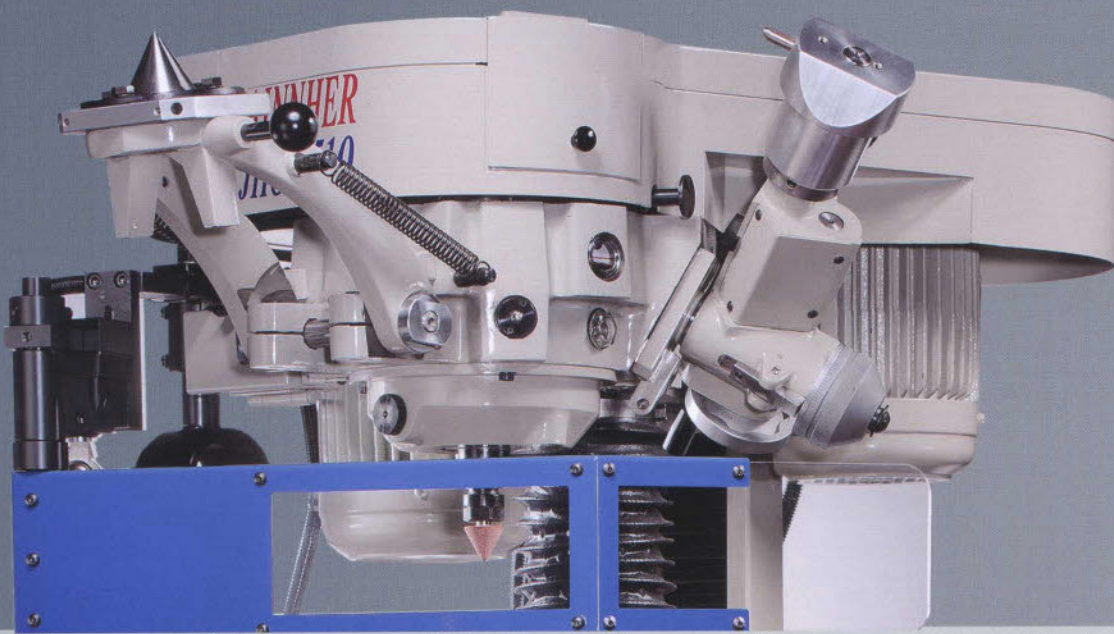
Humanized Operation Interface!
Advanced Design Concepts!

- The atomizer device for grinding wheel spindle connect with $1\sim 8\text{kg}/\text{cm}^2$ compressed air, therefore, the oil mist produced $1.5\sim 2\text{kg}/\text{cm}^2$ pressure for lubrication.



● Conical type Wheel Dressing Device

- This device placed on the side of grinding wheel head, can be manually rotate into dressing position and while dressing only wheel spindle rotating. During operation, the device moved longitudinal and the diamond dresser moved simultaneous back and forth oscillation of lateral motion, along the wheel cone linear movement. This ensures the consistency geometric accuracy of wheel shape, completely non- effect on dresser position and wearing.



● Grinding Wheel Spindle Head

- Grinding wheel spindle head is a combination of the spindle head, planetary motion mechanism, wheel spindle, dressing device and spindle motion mechanism.
- Rotating of grinding wheel spindle driven by 1/2HP x 2P motor, through the appropriate pressure tension of idler, driving wheel spindle in high speed rotating. The speed can be changed by frequency converter.
- Planetary transmission device adopt 1/4HP x 6P motor, which can be simultaneously doing wheel spindle planetary motion and reciprocating motion along on conical surface.
- Grinding wheel spindle use sleeve design, easy assembling, with 4 high-speed precision P4 class Angular ball bearings support in front and back and oil mist lubrication, have high speed and precision characteristics.

Standard Accessories

Supporter



Ø30 Tungsten Long Center



Concentric adjusting rod



Tool box & Tools



Ø30 Tungsten Short Center



Grinding Wheel

Optional Accessories



Dust collector



Ø52 Tungsten Short Center

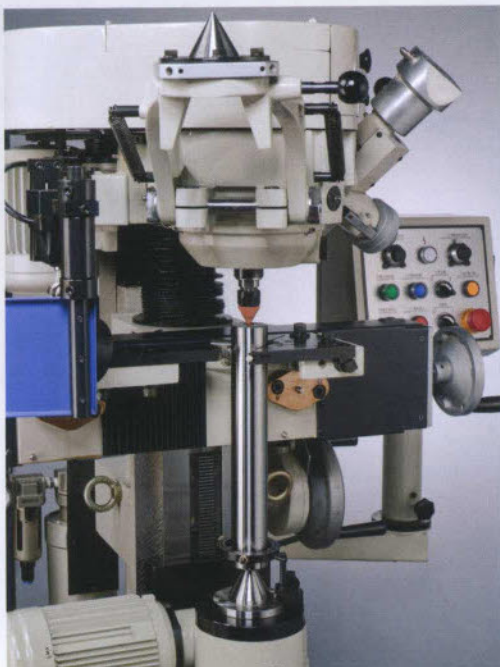


Ø52 Center



CENTER HOLE GRINDING MACHINE

Upper Swing center and Lower Center Device
Keep upper swing center and lower center consistency
benchmark.



Workpiece Holding Device

- Automatic workpiece clamping simplify the setting job.
(can be based on processing needs and provide
different clamping devices)

Workpiece Driving Device

- While grinding, the workpiece driven simultaneously. It
improves the center hole and cylindrical concentric
accuracy, the speed can be changed by frequency
converter.

CARACTERISTICAS

Modelos-Models			JHG-1510	JHG-1020
Componentes-Items				
Medidas de la pieza	Ø Min/Max	Range of dia.	Ø5~Ø125mm	Ø5~Ø90mm
	Long.Min/Max	Range of length	50~1000mm	50~2000mm
Size of workpiece	Peso Max. de la pieza	Max. weight of workpiece	100kg	100kg
Capacidad	Angulo del agujero	Center hole angle	60°	60°
	Ø del agujero	Dia. of center hole	Ø2~Ø60mm	Ø2~Ø60mm
Capacity	Reciprocidad planetario	Planetary reciprocation	1.5mm	1.5mm
Motores	Husillo	For spindle	1/2HP AC	1/2HP AC
	Reciprocidad planetario	Planetary reciprocation	1/4HP AC	1/4HP AC
	Giro pieza	For workpiece Drive	1/2HP AC	1/2HP AC
Husillo de muela	Recorrido	Travel of spindle	150mm	150mm
	Max. despla. por revolución	Max. travel for one revolution of wheel	1mm	1mm
	Graduación por división	Travel for one graduation of wheel	0.01mm	0.01mm
	Velocidad	Speed of spindle	20000rpm	20000rpm
Diamantador	Recorrido	Travel of dressing diamond	40mm	40mm
	Despla. Vert. por revolución	Vertical travel for one revolution of wheel	1.5mm	1.5mm
	Despl. Hori. por revolución	Horizontal travel for one revolution of wheel	1.5mm	1.5mm
Instalación eléctrica	Tensión eje	Voltage & spindle	3PH 220V 60Hz	3PH 220V 60Hz
	Potencia	Capacity	1.9KVA	1.9KVA
Peso Weight	Peso	Net Weight	630kg	930kg



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