

CAI CNC APPLICATION
INDUSTRIES CO., LTD

Nothing Impossible! Beyond you can see !

CC-60U CNC Universal Lens Centering Machine

ADDRESS 2, Seongsanpaechong-ro 38beon-gil, Seongsan-gu, Changwon-si,
Gyeongsangnam-do, Republic of Korea
TEL +82-55-262-0008 FAX +82-55-585-7716 E-mail : master@caikr.co.kr WEB www.caikr.co.kr



CC-60U

CNC Universal Lens Centering Machine

- High machine rigidity for high speed grinding
- External grinding of various shapes of lens - circle, square, H-type, D-type
- High accuracy - shape tolerance $\pm 2\mu$ for a 20mm x 20mm square
- Adopting identical parts for maintenance (X,Z axis ball screws and X,Z,C axis servo motors)

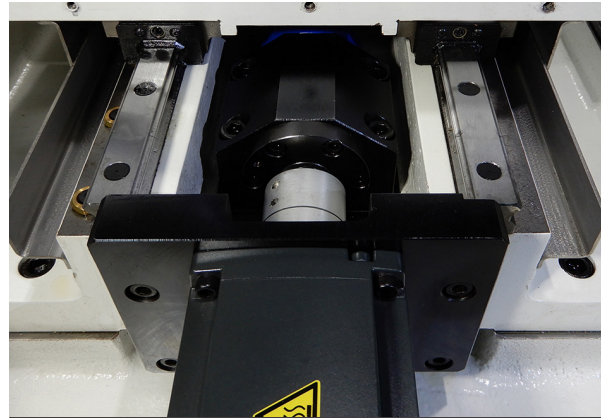


Machine specifications for CC-60U

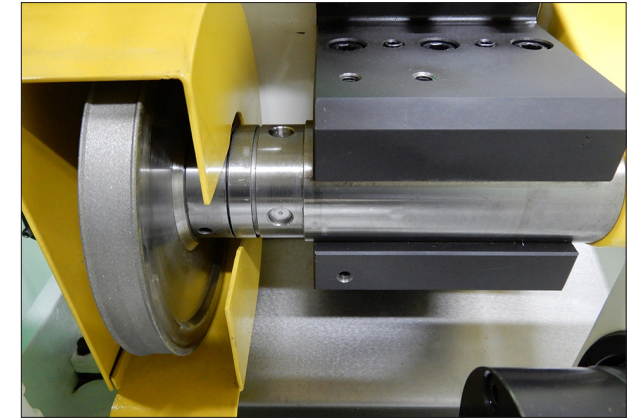
Division	Content	Division	Content
Max Lens diameter	Ø2mm ~ Ø60mm	Workpiece holding	Vacuum suction type
Lens shape	Circle, Square, H-type, D-type	Controller	Siemens Sinumerik 808D CNC controller
Grinding wheel	Wheel: Ø160mm Max. 3600rpm	Control axis	X,Z,C-axis (3axis) Simultaneous 3 axis control
	3Ø Induction motor AC380V 50/60Hz 0.75Kw	Position resolution	0.001mm or 0.001°
Wheel feeding axis(X-axis)	LM guide + Ball screw	Machining program	Centering software installed Touch panel PC
	Stroke : 90mm Min. resolution : 0.001mm	Machine Dimension	1,300(W)mm x 1,170(D)mm x 1,606(H)mm
	Servo motor 0.75Kw, 2.4Nm, 3,000rpm	Machine Weight	1,350Kg
Wheel horizontal moving axis (Z-axis)	LM guide + Ball screw	Electric power	3Ø AC380V 50/60Hz 3KVA
	Stroke : 50mm Min. resolution : 0.001mm	Machine accessory	Jig truing tools and tool holder
	Servo motor 0.75Kw, 2.4Nm, 3,000rpm		MPG (Manual pulse generator)
Workpiece rotating axis(C-axis)	Bearing supporting		Sub op panel (Cycle start, Emergency stop switch)
	Max : 1,000rpm Min. resolution : 0.001°		Foot switch (Spindle head suction)
	Servo motor 0.75Kw, 2.4Nm, 3,000rpm		Machine patrol lamp
Coolant supply	Discharge rate : 32 liter/min		Basic tools for machine
	Pump : 3Ø AC380V 60W 60Hz	Options	Hardware for interface signals for work loader
Air supply	5kgf/cm ²		3Ø AC200V/380V Transformer 3KVA
Tailstock	50 mm stroke		Spare jig truing tool
	Air cylinder with low/high pressure adjustable		Work holding jigs for Spindle head and tailstock
Lubrication	Grease lubrication		



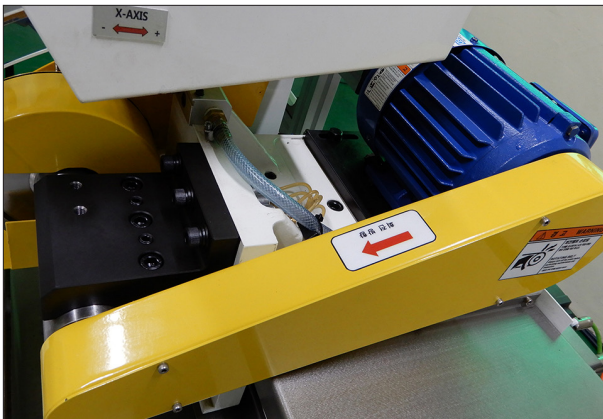
Horizontal grinding machine structure with stable cast iron body with high rigidity and low center of gravity design
Modular structure of the machine body, X,Z slide, and tailstock



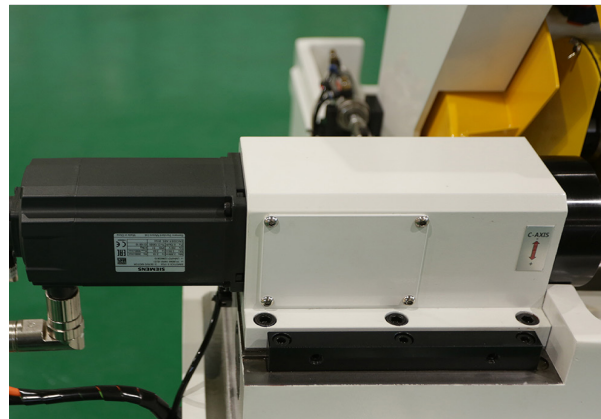
X,Z slides equipped with high-precision LM guide and ball screw



High rigidity, high precision wheel spindle and inverter speed control spindle motor



High rigidity, high precision wheel spindle and inverter speed control spindle motor



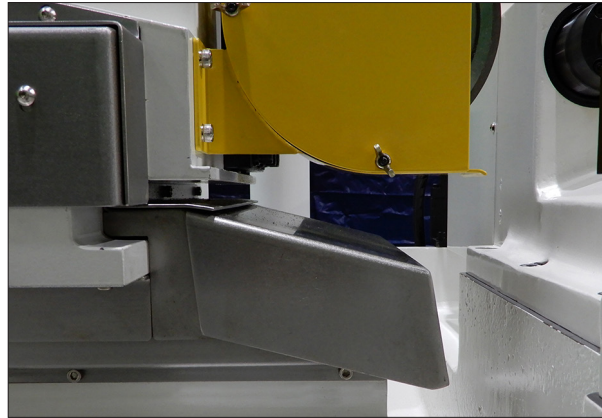
Servo motor direct connected C-axis with high positioning accuracy



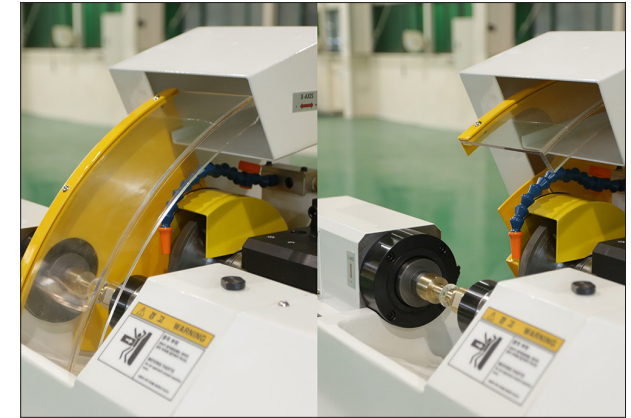
Low and high pressure adjustable tailstock for automatic lens centering



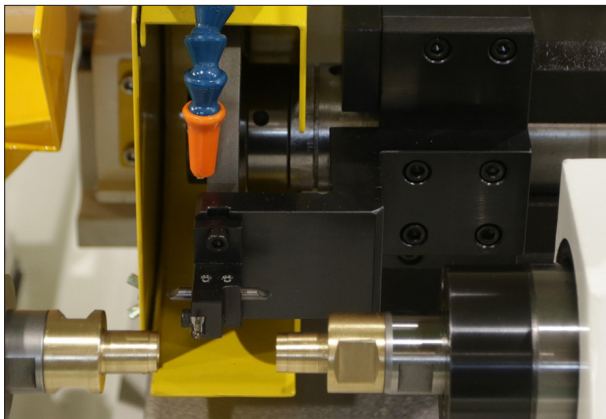
Coolant pump and tank mounted underneath the machine body



Perfect stainless steel sliding covers to protect X,Z axis slide from coolant



Anti-dispersion coolant cover



Detachable jig truing tool

