



金格科技股份有限公司
TOPKING TECHNOLOGY CO., LTD.

CNC CYLINDRICAL GRINDER

Non- circular grinding machine

X-3550CAM
X-35100CAM



TOPKING's X-CAM series is the specialized design for eccentric and not circular components grinding. It's applied to eccentric, cam shaft, crank shaft, polygon punch grinding. It's especially suitable for use in the automotive, automation equipment, mold industries. Control system equips with advanced SIEMENS controller and cooperates with TOPKING latest GUI work interface, increase parameter setting efficiency. Providing the best accuracy performance and operating environment.

FEATURES



CROSS-SLIDER DESIGN

The X and Z axes feature a compact cross-slide design, minimizing the footprint while enhancing stability and precision. Fully enclosed telescopic covers protect the transmission system from grinding debris and coolant contamination, extending equipment lifespan.



C AXIS PRECISION ANGLE CONTROL

Working spindle equipped with a Direct Drive motor and precision angle encoder. High resolution of angle tolerance control $\pm 0.2''$. Accurate angle control applies for various eccentric, camshaft, crankshaft, and polygon punch grinding.

X-AXIS DRIVE BY LINEAR MOTOR

The X-axis features a high-speed, high-precision linear motor with a fully closed-loop optical scale, enabling fast and accurate feeding. Its direct-drive design, combined with high-efficiency hard rails, ensures precise control, rapid response, and energy savings, enhancing machining efficiency.

G.W. DRESSING

Different kinds of dressing devices could be chosen following request. Graph conversation dress setting interface. It's easy to edit dressing parameters.

SPECIFICATION

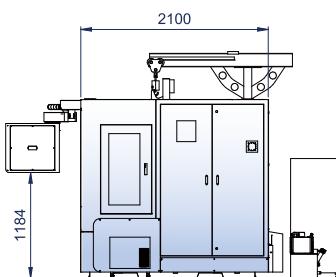
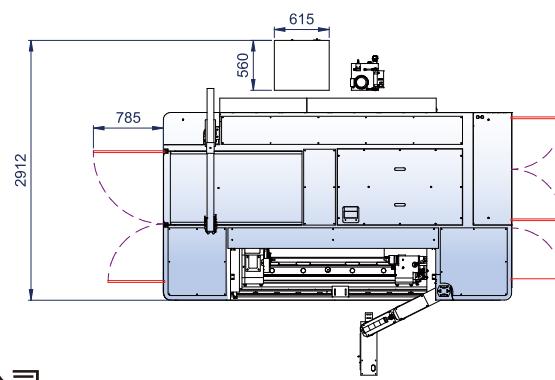
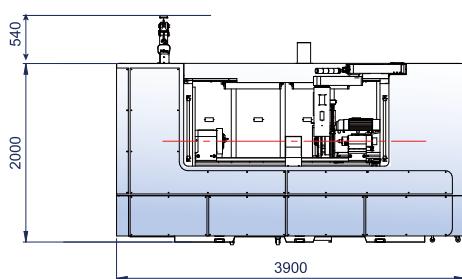
X-CAM

TOPKING

MODEL		X-3550CAM	X-35100CAM
CAPACITY	Swing Over Table	Ø370 mm	
	Distance Between Centers	500 mm	1000 mm
	Max. Grinding Diameter	Ø350 mm	
	Max. Grinding Length	500 mm	1000 mm
Max. Load Held Between Centers		150 kgs	
GRINDING WHEEL	Size (O.D. x Width x I.D.)	Ø610 x 50 x Ø304.8 mm	
	Linear Velocity	45 m/sec	
WORKTABLE	Swiveling Angle	+2°	
WORKHEAD	Swiveling Angle	Fixed Type	
	Center Tapper	MT. No. 4	
	Spindle Speed	10 ~ 300 rpm	
	Max. Load of Spindle (tool holder included)	35 kgs (max. length: 150 mm)	
TAILSTOCK	Center Tapper	MT. No. 4	
	Center Moving	Manual	
	Tailstock Stroke	25 mm	
	Barrel Stroke	±30 µm	
Cylindricity with Micro Adjustment		±0.03 mm	
X-AXIS TRAVEL	Max. Travel	300 mm	
	Rapid Feedrate Speed	20000 mm/min	
	Auto. Feeding Speed	6000 mm/min	
Min. Feeding Setting		0.0001 mm	
Z-AXIS TRAVEL	Max. Travel	500 mm	1350 mm
	Rapid Feedrate Speed	10000 mm/min	
	Auto. Feeding Speed	6000 mm/min	
	Min. Feeding Setting	0.0001 mm	
Grinding Wheel Spindle		11 kW (induction motor)	
MOTORS	Workhead Spindle Motor	60.7 Nm (servo motor)	
	Wheelhead Feed X-axis	3890 N (servo motor)	
	Table Feed X-axis	4 kW (servo motor)	
	Lubrication Hydraulic Motor	0.37 kW	
TANK CAPACITIES	Hydraulic Pump	0.37 kW	
	Coolant Pump	0.75 kW	
	Hydraulic Tank	18L	
	Lubrication Tank (guideway)	P-107	
Coolant Tank		120L	
Dimension (LxWxH)		3000 x 3180 x 2540 mm	3900 x 3200 x 2540 mm
MACHINE	Weight	9000 kg	
	Center Height (from floor to center tip)	1130 mm	

*The mentioned specifications & dimensions are subject to change without notice.

FLOOR SPACE : (unit:mm)



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STANDARD ACCESSORIES

- CNC Controller (Brand: SEIMENS) x 1set
- Grinding Wheel and Flange x 1 set
- Grinding Wheel Inverter x 1 set
- Diamond Tool Holder (tailstock mounted type) x 1 set
- Cooler system for work-spindle servo x 1 set
- Jib Crane for Loading / Unloading G.W. x 1 set
- Carbide Tipped Work Ce
- Micro Adjustment Tailstock x 1 set
- Linear Motor for X-axis x 1 set
- Linear Scale for X-axis x 1 set
- Rotary Scale for C-axis x 1 set
- Electric System x 1 set
- Fully Enclosed Splash Guard x 1 set
- Hydraulic System x 1 set
- Coolant System x 1 set
- Oil Mist Collector x 1 set
- Work Lamp x 1 set
- Tools (Leveling pad) and Tool Box x 1 set

OPTIONAL ACCESSORIES

- Cam-locked Driving Dogs
- Work Holder (2pcs/set)
- 2-point Steady Rest
- Adjustable 3-jaw Scroll Chuck
- Adjustable 4-jaw Scroll Chuck
- Diamond roller dressing device (connecting with workhead by flange)
- Diamond roller dressing device (tailstock mounted type)
- Hydraulic Tailstock
- Wheel Balancing Stand and Arbor
- Auto. Grinding Wheel Balancer
- Spare Grinding and Wheel Flange
- Touch Probe Gauge
- Gap Control
- Customized Workpiece Drive Fixture
- Magnetic Coolant Separator
- Paper Filter

