



## 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.

| 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                      |                       |
|                             | Hydraulic Pump                              | 0.37 kW                      |                       |
|                             | Coolant Pump                                | 0.75 kW                      |                       |
|                             | TANK CAPACITIES                             | 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                      |                       |

## STANDARD ACCESSORIES

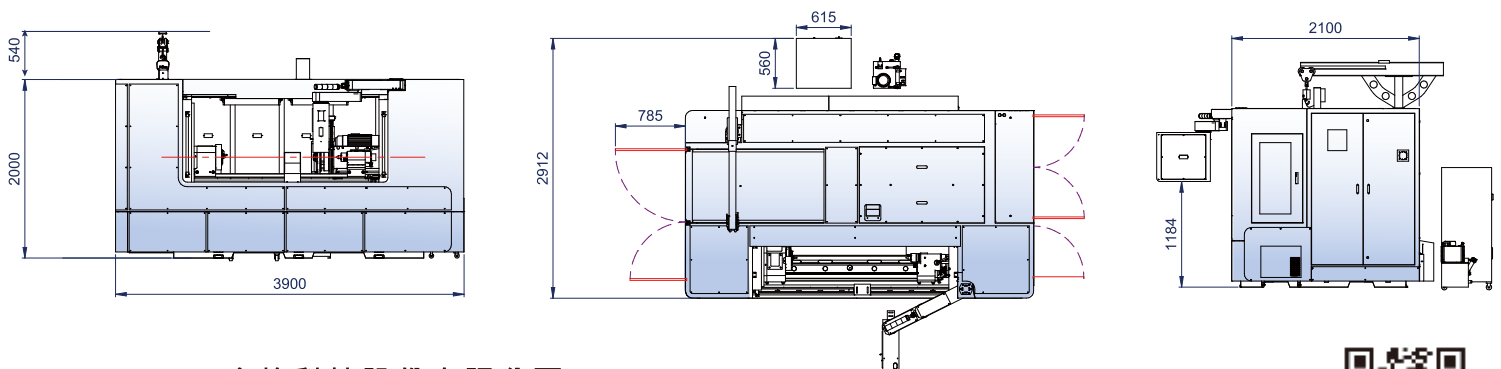
- CNC Controller (Brand: SEIMENS) x 1set
- Grinding Wheel and Flange x 1 set
- Grinding Wheel Inverter x 1 set
- Diamond Tool Holder (tailstock mounted type) x 1 set
- Cooler system for work-spindle servo x 1 set
- Jib Crane for Loading / Unloading G.W. x 1 set
- Carbide Tipped Work Ce
- Micro Adjustment 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

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

## FLOOR SPACE : (unit:mm)



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