

KETUO HIGH-RIGIDITY 4-AXIS
LIFTING GRINDING MACHINE



Designed specifically for complex curved grinding applications such as pocket knives, sports knives, hunting knives, and outdoor knives.

This enhanced version model is suitable for processing higher-performance steel materials.



Single unit dimensions and weight specifications:
Length: 2250mm Width: 1830mm Height: 1700mm Weight: 3500KG

Technical Specifications

- Maximum grinding length of the standard version: 400mm (customizable up to a maximum length of 1000mm)
- Spindle drive power: Star-delta asynchronous motor 7.5-18.5kw (optional YE4 level energy-saving motor or permanent magnet synchronous motor)
- Grinding wheel diameter: 260mm-450mm
- Mechanical transmission methods:
 - X-axis: P3 heavy-duty roller linear guide (optional cylindrical linear guide) / C3 or P4 ground ball screw
 - Y-axis: P3 heavy-duty roller linear guide (optional cylindrical linear guide) / C3 or P4 ground ball screw
 - Z-axis: P3 heavy-duty roller linear guide (optional cylindrical linear guide) / C3 or P4 ground ball screw
 - A-axis: RV reducer
- Power system: Bus absolute value motor
- Lubrication system: Centralized central lubrication pump
- Spindle: A2-6 high-strength precision spindle
The spindle features backlash-free precision bearings, designed for a peripheral line speed of up to 30m/s, with a horizontal spindle paired with a cup-shaped grinding wheel
- CNC system: WEIHONG NK280B system

Four-Axis Grinding Worktable

- X-axis: Transverse entry and exit axis of the worktable (stroke of 400mm)
- Y-axis: Lifting axis of the worktable (stroke of 200mm)
- A-axis: Inclined rotating axis of the worktable (±25 degrees)
- Z-axis: Grinding wheel feed axis (stroke of 160mm)

