

CNC DRILLING MACHINE



Model: ZK4120

Hardware features:

8.4 inch true color LCD monitor,
Bus connection interface, Both horizontal and vertical profiles. The front end reserves the U disk interface, and the back end reserves the RS232 serial communication interface. 16 operation panels IO are reserved on the back side of the system. Provide differential type external handwheel interface.

Technical Specifications:

Z-axis travel(mm)	125
Distance between spindle end to table(mm)	630
Distance between spindle center to column surface (mm)	240
Table size mm	280 x 300
T-slot (wide x number x space)	14x2x200mm
Allowable load kg	50
Motor of spindle kw	1.1
Speed of spindle	365-3150 r/min
Spindle taper(mm)	MT2
Motor of Z axis	5 Nm
Rapid feed rate mm/min	4
Cutting feed rate mm/min	0.5
Positioning feed rate mm	0.06
Repeat ability	0.04
Power requirement KW	1.3

G.W/N.W(kg)	170
Packing size (mm)	82×52×113

CNC Controller / Software-Including

Technical Specification:

Number of control axes: Axis 3~6

Number of linkage axes: Full linkage

Tool magazine: Code library, need to edit

Principal axis: There are 2 spindles, of which spindle 1 can use digital spindle (occupying one digital axis)

Spindle monitoring: Yes

instruction unit: 0.001 mm

instruction value: $\pm 99999999 \times$ Minimum instruction unit

Rapid feed rate: 30000 mm/min

Rapid feed rate: F0, 25%, 50%, 75%, 100%

Pulse mode: 1: Direction + pulse 2: quadrature pulse (recommended if driver supports, stronger anti-interference)

frequency: 100KHz, 200KHz, 500KHz can be set. (500KHz can only be realized in all axes orthogonal output mode)

Rate feed rate: 0~150%

Electronic gear ratio: 1~65535: 1~65535

Automatic acceleration and deceleration: Yes

Forward looking algorithm for high speed small line segments: Yes

Location:: G00 (linear interpolation positioning)

Interpolation: Linear (G01), arc (G02/ G03/ G12), spiral interpolation

Return to reference point: Automatic return to reference point (G28)

LCD: 7-inch TFT LCD with resolution of 800×four hundred and eighty

MDI software key: 8

Communication interface: U disk interface

I/O interface: 24 / 24 (expandable to 96 / 96)

MDI operation : Yes, it supports multi segment operation

Power Supply: Single phase AC220 V + 10% -15%, 50 Hz $\pm$ 1 Hz

Coordinate system: Machine coordinate system (G53), workpiece coordinate system (G92, G54~ G59), local coordinate system (G52), coordinate system plane designation

Auxiliary function: M2 digit, M code user-defined, manual / MDI/ automatic control spindle forward, reverse, stop; control the start and stop of coolant; control the start and stop of lubrication

Spindle function: Double spindle

Digital spindle: Spindle 1 supports, occupies a digital axis (Z axis does not support), and the speed is more stable

Tapping: Support

Spindle analog output: Yes, double spindle

Tool function: It supports automatic tool change, tool setting in center and three-point centering

Tool compensation memory : -9999.999 ~ 9999.999, 99

Editing function: Parameters, diagnosis bit input, program editing, MDI multi program segment execution

Storage capacity: 512M

Number of stored programs: 500

Display of program name: Chinese, English, number, combinations

Overall dimensions (mm): Approx. 328×236×80(Approx)