

KDT KN-3612DE-



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KDT KN-3612DE-



Perfect for industries requiring high-performance CNC solutions the KDT KN-3612DE is designed to handle large-scale projects with ease, resulting in ultimate production efficiency.

Elevate your production with a spacious work area, the bed size of 3700mm x 1830mm, ideal for large materials and with dual vacuum pumps for superior material hold-down, this machine is engineered for maximum efficiency and precision.

Build Quality

Heavy duty frame construction. Twin 260 x 160 x 8mm thick steel beams form the foundation of the machine frame. Precision welded; heat treated then machined on a 5 axis CNC to guarantee maximum accuracy for positioning components. Weight of frame alone: 3000kg. Total weight: 5000kg.

Performance

Superior 8mm thick steel gantry design dampens vibration. Driven on both sides by independent servo motors with absolute encoders. Eliminates gantry flex while maintaining repeatable accuracy. Positioning speed in X & Y axis of 100m/min.

100% Quality

Only the highest quality components go into every KDT CNC. Taiwanese PMI helical rack & pinion with German robotic flexible cables ensure performance you can rely on.

Ease of Use

Use of the latest software and operating systems provide a modern, user-friendly interface for the CNC operator. Automatic central lubrication, automatic gated extraction and monitored pop-up rails and stops ensure a safe and comfortable working environment.

Heavy Duty Gantry (HDG)

8mm thick steel gantry with 1.5KW servo motors on both sides providing positioning accuracy and fast acceleration and deceleration.

Powerful 12KW Main spindle

Plenty of power for almost any job.

Twin X Axis Servo Motors

Prevents "racking" of gantry and increases processing accuracy.

Delta Controller & Windows 10 OS

Proven industrial CNC controller with Microsoft 10 operating system.

Modular System

Add auto labelling, loading and unloading units to increase productivity and efficiency

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DH10 Drilling head

Vertical drilling unit with 10 vertical drilling spindles. 6 spindles in the X direction and 4 in the Y direction.

- All drilling spindles can be used individually or in combination
- All drill spindles can access the full width and length of the working table
- Rotation speed 6000rpm



Main spindle 12kW (15HP)

The main spindle is connected to the Z-axis plates and guided with 2 lineal guides. Z-axis movement with large diameter ball screw.

The tool is clamped with ISO-30 connection. The tool holder connection is monitored to maximise safety.

- Connected load: 12KW (15HP)
- Spindle rotation speed: 1000 - 21000 rpm
- Blower to improve dust extraction during operation
- Bearing: ceramic bearings
- Spindle cooling: air-cooled
- Supplied with 12 tool holders



Vacuum system

2 x Becker dry vane vacuum pumps with a total vacuum performance of 500 m³/h at 50 Hz are supplied as standard with the KDT KN-3612DE CNC. The vacuum pumps combined with the multi grooved phenolic matrix table and efficient under table vacuum plumbing system ensure workpieces are held firmly in position.

A control sensor for the vacuum suction level avoids the risk of components moving during processing and potentially being projected into the workshop.

Specifications

Main spindle	12kW
Drilling head	10 Spindles
Axis speed (X, Y, Z)	100 x 100 x 30m/min
Vacuum	250m ³ /h
Weight	5000kg
Table size	2860 x 1260 & 3700 x 1830
Dust extraction	200mm

Specifications are subject to change without notice.