

# KDT KN-3409DE-



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## **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: 1500kg. Total weight: 3200kg.

## **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



## Automatic length measurement systems for tool in Z axis

No manual tool measurement required.

The tool will be measured whilst in the machine to provide an exact tool length. The length of the tool will be automatically transferred and saved to the tooling database. The Z axis stroke will compensate for the tool length so that the exact milling depth is achieved.

## Specifications

<b>Main spindle</b>	12kW
<b>Drilling head</b>	10 Spindles
<b>Axis speed (X, Y, Z)</b>	100 x 100 x 30m/min
<b>Vacuum</b>	250m <sup>3</sup> /h
<b>Weight</b>	3500kg
<b>Table size</b>	2860mm x 1260mm
<b>Dust extraction</b>	200mm

Specifications are subject to change without notice.