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專機與泛用機：
CNC 多軸轉盤加工中心機、轉盤 / 水車多軸加工機
CNC Multi-spindles Rotary Transfer Machine
Horizontal / Trunnion Rotary Transfer Machine
凱弘機械成立於1991年，從事CNC多軸轉盤/水車多軸加工機、自動組立配裝流水線、五金機電氣配備/機具加工製造設備、FMS機器人自動化生產線等。隨著大陸市場發展，2007年成立分公司。2017年遷至浙江省樂清市。

研發PC Based多軸控制器，性能超國際大廠，並導入CCD視覺辨識、傾斜主軸等技術，依顧客需求，設計獨一無二之模台，達到最大的效益。

凱弘機械秉持“創造價值、共創雙贏”，三大核心價值：時時以顧客角度思考，做好每項服務以維繫長久品質，主動提升新式技術，達到企業長期發展策略。

二十年來，在同仁齊心努力下，共同奮鬥取得各項榮譽資質並研開發展，在自動化機械工業界業界打下一片天下，目前銷售市場遍及世界各國。

2001年 無刷馬達整廠自動化生產線（第一條）。
2003年 發表液壓/立式/臥式轉盤加工機。
2010年 發表NC（立式/臥式）轉盤加工機。
2012年 發表全伺服NC轉盤加工機。
2014年 遷至台中永科園區，開闢精密工業加工機製造。
2015年 導入CCD視覺辨識及線上自動量測系統。
2016年 銷售無刷馬達整廠生產線達到20條。
2017年 發表多軸型NC多軸加工機。

KaiHung
http://www1.kaihung.com.tw/

CNC多軸轉盤加工機
CNC Multi-Spindles Horizontal Rotary Transfer Machine

CNC水車多軸加工機
CNC Multi-spindles Trunnion Rotary Transfer Machine

彈性製造系統
Flexible Manufacturing System

自動組立配裝流水線
Automatic Assembly Stream Line

客製化服務
Customized Services

公司簡介
Company Introduction

Kai Hung was founded in 1991, and specializes in the design and manufacturing of CNC multi-spindles trunnion/horizontal rotary transfer machine, automatic assembly stream line, customized equipment of valve/sanitary/gas parts processing, automation production line for automobile parts. With the China's market development, China Branch was established in 2007 and moved to Tongxiang City in 2017.

Developing the PC Based Multi-spindles controller. Kai Hung's performance is comparable to other international brands which technology with CCD vision recognize automatic system, spindle tilt and so on. According to customer demand, Kai Hung designs unique machinery and achieves maximum performance.

Kai Hung insists on "To create a performance and create a win-win situation". The core values is efforts to develop the ability to self-developed, doing every service to maintain good quality, taking the initiative to enhance the new technology, achieving the business long-term development strategy.

Over the 2 decades, we have gradually established our reputation in the automatic machinery industry thanks to diligent work from our colleagues, who have absorbed comprehensive information to facilitate product R&D. Our markets are spread across different countries around the globe.
CNC Multi-spindles Rotary Horizontal Machining Center

1. 可快速變換夾具。
   Quickly replace the fixture.
2. 每一軸有伺服滑動。
   Each spindle has servo slide.
3. 依加工尺寸，自行編輯程式。
   According to the processing size, self-editor program.
4. 各軸可做攻牙、銑牙、鑽孔、擴孔、異形孔、曲線、數控槽。
   Each spindle can do tapping, threading milling, drilling, boring, special shape hole, curve, arc groove.
5. 適合少量多樣產品。
   Suitable for small-volume production of a wide range of different items.

<table>
<thead>
<tr>
<th>工位 (Station)</th>
<th>最大主軸數</th>
<th>每一個主軸可配合 X-Y-Z 軸的數量</th>
<th>上 (Up)</th>
<th>右 (Side)</th>
<th>下 (Down)</th>
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<tbody>
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<td>4</td>
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</tbody>
</table>

The machine is equipped with tool-breaking detection system to monitor the tool wearing status and reduce the loss of tools while improving the defect-free rate. For equipment, grasping the status of the machine at any time and pre-planning maintenance schedule to avoid the unexpected crash and affect production. With customer requirement, the integration of Industry 4.0 to promote the competitiveness of enterprises and increase production value.
8 Stations CNC Horizontal Rotary Transfer Machine

This 3D multi-spindle complex machining center is "Horizontal Rotary." It allows 0°, 90° and 180° tri-directional machining. Each spindle allows program editing whenever required. Each piece of equipment congregates the capacity of several units of machining centers into one unit in which the numerically controlled lathe can yield 8 to 20 times the productivity. Improve production efficiency, saving the machine processing costs.

Synchronous clamp moving, higher strength and higher precision, all contributing to accurate symmetry of the workpiece after being processed.

LVDT detecting the depth of workpiece hole.

Special shape workpieces process at the same time.

[Links to KaiHung's website]
The multi-spindles rotary transfer is "Trunnion Rotary" which is specially designed for the machining of tri-direction center holes. Each spindle is provided with dialogue-type program editing function to carry out boring, tapping and groove cutting functions.

**8 Stations 8 Spindles Trunnion Rotary Transfer Machine**

**Feature:**
- Fitted with cross-type slide table for the spindle to perform tri-directional displacement
- Varied size of spindles can be selected according to the dimensions of the workpiece
- Automatic loading and unloading

**Process Example**
- Workpiece: Check Valve
- Material: Brass

**Process Example**
- Workpiece: Brake System
- Material: Carbon Steel, Copper

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**6 Stations 6 Spindles Trunnion Rotary Transfer Machine**

**Feature:**
- Fitted with cross-type slide table for the spindle to perform tri-directional displacement
- Varied size of spindles can be selected according to the dimensions of the workpiece
- Automatic loading and unloading

**Process Example**
- Workpiece: Cut-out Valve
- Material: Brass

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**8 Stations 9 Spindles Trunnion Rotary Transfer Machine**

**Feature:**
- Based on workpiece to project the quantity of stations and spindles
- The direction of displacement can be servo controlling
- Improve entire production efficiency

**Process Example**
- Workpiece: Engine Parts
- Material: Carbon Steel

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**Detecting for the oil hole's size and position**

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**Fix position cylinder for jig**
Precision Assembly Workshop
The shop equips with air conditioner to keep precision of spindles assembling

Precision Measuring Machine
Precision measuring equipment ensures 3D mechanical quality

Research & Development Department
We use SolidWorks 3D CAD software to raise the accuracy of machine

Work Area Appropriately Arrange Production Project

Balance Test Machine
Stress Analysis of Machine

电子接頭
Electronic Connectors
熱水氣管接頭
Water Pipe Joints
水錶
Water Meter

水龍頭
Faucet
各銅類零件
All Parts of Brass
不銹鋼接頭
Stainless Steel Fitting

鋁壓鑄件
Aluminum Die Casting
鎖
Lock
鋁輪件、鋁擠型、腳踏車
Aluminum Forgings, Aluminum Extrusion, Bicycle

鋁壓鋁、馬達殼、汽配零件
Aluminum and Zinc Castings, Motor Housings, Auto Parts
氣機車零件
Automobile Parts

空壓、疊磁閥零件
Pneumatic Solenoid Valve Parts

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