



**MANFORD MACHINERY CO., LTD.**

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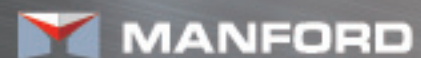
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**POWER & DETERMINATION**

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# Power & Determination

After more than three decades in the machining industry, people have got used to us. Through periods of high growth and development, we were right there at the front. And through times of uncertainty and doubt, we stared adversity in the face, unshakable. We have developed a thick skin. An amazing ability to move forward with determination.

Every step in our journey has left a mark. On us and in the market. Over many years, we have developed great partnerships. Invested in Development. Reinvented ourselves a few times.

All in the interest of being here for the next generation of machine users. All in the interest of being here for you. Nowhere in the world will you find a team more determined to be around for another 100 years. And we know we will. Through the quality of our products. Through the strength of our partners. Through the unbeatable value that we offer.

## Back in 1987,

President James Hsieh founded "Manford Machinery Co., LTD.", and focused on the development, manufacturing and sales of various precision machines while providing high quality and high performance products. Manford offers a wide variety of products to satisfy the needs of all of its customers. Today, Manford products are sold in five continents and customers are from fields of aeronautics, transportation, automobile, shoe mold, high-tech electronics.

The Manford group owns four companies in Taiwan, including Manford, Avemax, Automac Smartauto and Manford Guarding Co. Ltd. The headquarters in Taiwan focuses on the front-end development of new models. All of Manford R&D engineers participate in on-job training while constantly improving professional skills with one mission in mind; to innovate. In the R&D department, product development is based on high precision, high speed, larger machines, and simplified operation (i-console human machine interface.)

A multi-talented R&D team is able to integrate advanced design into products, as well as supplying machines on an OEM/ODM basis and providing special solutions to meet user requirement variables.

1987 1988 1994 1996 2002

- Main factory moved to Taiping, Taichung (8,363 sqm). Awarded the ISO-9001 certificate.
- Developed CNC Vertical Machining Centers.
- Started to produce conventional milling machines.
- The MANFORD brand is launched.
- Manford Machinery Co., Ltd. is founded by Mr. James Hsieh. Specialized in machining of lathe accessories.

2006 2008 2009

- Started ODM cooperation with worldwide major machine tool companies.
- Started using Mafix PDM system for technical data archive, and for the preparation of CRM system implementation.
- Completed development of VM760 CNC Tool Room Milling Center with CTD plan subsidy.

2011 2012 2013 2015 2016 2020 2021 2023

- Today, Manford leads the way through Power & Determination.
- Moved our headquarters to Taichung Software Park.
- Won an award for Taiwan Excellence. Manford is recognized (launched during TMTOS, Taipei, 2019).
- Completed development of high performance VLS20 & VLS300 5-Axis Machining Centers. Completed development of VLS1000 High Speed Machining Center.
- Began implementing ERP system for the plants of Industry 4.0, IFRS and IOP.
- Awarded the Cooperation Bronze Medal Award by TTOS. (Taiwan Trade Deal System, Ministry of Labor).
- Invested in the Taichung Precision Machinery Park (2,750 sqm) for company headquarters.
- When manufacturing factory moved to Kierlou (24,793 sqm) for expanding mass production capacity.

PRESIDENT

James Hsieh





### Manford Machinery

- 5-Axes Machining Center
- Double Column Machining Center
- Vertical Machining Center
- Horizontal Machining Center
- Drill / Tap Center
- Tool Room Mill

### Avemax Industrial Co., Ltd

- Knee mill
- CNC Milling Machine
- IPRO Mill
- Grinding Machine
- Vertical turning
- Horizontal turning
- Wheel turning



### Automac Smartauto

- Zero point clamping system manufacture with turnkey solution providing
- Robot with high speed automatic door solution providing and manufacture
- Special purpose machine customized design and manufacture

### Manford Guarding Co., Ltd.

- Provides professional machine guarding design, customized service is available
- Provides one-stop service includes layout design and manufacture
- Capable to customize design a small amount of variety and mass production

## CORE TECHNOLOGY

Highly professional and experienced hand scrapping team.

Outstanding electrical development ability with fast and effective technical support.

Strong and professional R&D team.

Superior quality of products with professional manufacturing and engineering analysis from technical department.

Greater flexibility for processing and optimizing parts with company owned processing department. Manford is able to offer high quality customized parts with short lead-time and fast delivery.

Outstanding customization capabilities.

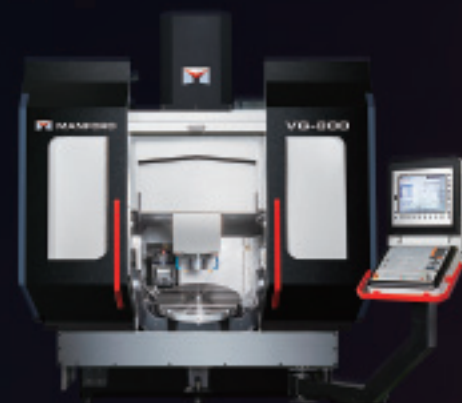
Efficient turnkey solutions.



## 5 AXES MACHINING CENTER

### About VU-620

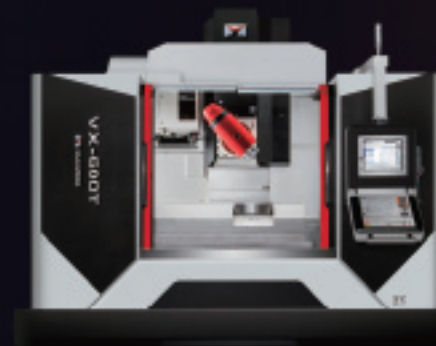
VU-620 offers high speed, high accuracy and more reliable quality. Twin door design with wide open space is easy for loading workpiece. Movable column C-shape provides superior rigidity. Rotary table with one-piece iron casting provides excellent ductility and greater anti-vibration. Rotary table selection: standard worm gear, or double DD motor.



## 5 AXES-GANTRY TYPE

### About VG-800

The advanced gantry type structure design provides greater stability, optimal high precision and superior working flexibility when applied to complex workpieces. Powerful 5-axis simultaneous machining is generated by the high dynamics of the tool motion (3-axes) and workpiece motion (2-axes). The two rotary axes in the table are driven by a built-in motor with high torque.



## 5 AXES-TILTING HEAD

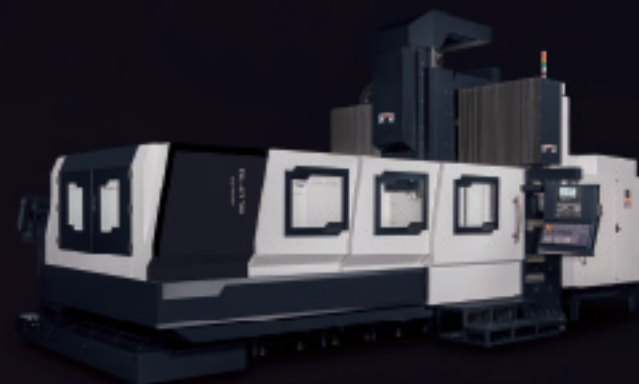
### About VX-600T

VX-600T 5-Axes Machining Center has been highly recognized by customers. VX-600T was designed with a swiveling spindle head and equipped with a 15,000rpm built-in spindle. Furthermore, this machine uses an embedded rotary table. Any complex workpiece can be accomplished with a single setup.

## DOUBLE COLUMN MACHINING CENTER

### About DL-3116

Due to the design of steeped cross beam, DL-3116 is equipped with outstanding torsion-resistance capability, which should be superior than other competitors. Furthermore, the "X" shape ribbing in the Y-axis cross beam helps to increase torsional rigidity during machining, while reducing vibration and deformation to a minimum. The box type column with "X" shape internal ribbing allows for reducing the column weight without affection on its rigidity.



## MANFORD

CNC lathe

### Feature

- ◆ The headstock is ruggedly constructed with outstanding rib reinforcement, capable of resisting heavy cutting while exhibiting maximum stability.
- ◆ The 30° slant saddle design supports the power turret firmly. Linear guideways on X, Z axes enable rapid traverse rates to reach 24m/min.

### Application

- ◆ Shaft component machining
- ◆ Wheel machining
- ◆ Valve machining



## AVEMAX

Milling machine

### Feature

- ◆ Spindle material is SCM415 full hardened through carbonizing heat treatment.
- ◆ Spindle quill drive box is transmitted by ballscrew for better precision.
- ◆ X and Y slideways and gibs are coated with Turcite-B to provide smooth and wear resistant surface.

### Application

- ◆ Component processing
- ◆ Mold processing
- ◆ Automobile components



## AUTOMAC

Process automation on single machine

### Feature

- ◆ Rapid trolley-trays move in/move out, resulting in reducing work space.
- ◆ Easy tray changes allows for extra flexibility for machining on different production lines.
- ◆ Fast and easy full machine installation.

### Application

- ◆ Milling process of CNC lathe.
- ◆ Specified material machining for Milling machine.



## PROCESSING DEPARTMENT

Greater flexibility for processing and optimizing parts with company-owned processing department. Manford is able to offer high quality customized parts with short lead-time and fast delivery.

