

# TW-10

雙主軸雙刀塔高性能車床  
Dual Spindle & Turret Turning Center

LEADWELL®



## 機器特性

雙主軸雙刀塔的產品設計，除了每個主軸可以個別加工外，也可兩邊同時加工，透過與門型機械手的整合，達到多OP全時加工的自動化目標。考量加工效率，透過自動化、快速上下料配置縮短加工時間，並且以高剛性結構設計，提高加工穩定性，另外以最適化空間，有效節省佔地面積，滿足客戶量產、高效率的生產需求。

### 熱源排出

●主軸馬達、油壓箱、油冷機、電氣箱，散熱風扇排放方向皆向後，快速排出熱源，減少鑄件熱變形。

### 自動刀具偵測臂

●以往所使用的手動刀具偵測臂，在自動化生產並不適用，部分客戶也無法使用刀具壽命管理系統，所以我們提供了一個新的選擇-自動刀具偵測臂，此偵測臂利用一旋轉軸，驅動兩個偵測頭，減少所占空間。並可達到量測左右邊刀具功能，讓機台在執行大量工件加工時，能保持良好的尺寸精度。

### 提高維護性

●主軸正下方配置排屑機，因此不會造成鐵屑堆積現象。機器後方可以拉出冷卻液水箱，便於清掃。且為了確保機器後方維護空間的構造，採取開放式後蓋，以及機器側面的集中配管。

## FEATURES

Twin spindle & twin-turret design, it can turn the different part on the spindle and identical parts on both spindles at the same time. Integrated with 3 axis robot arms, to reach different OP and automation requested. Considering the turning efficiency, with automation high-speed robot to reduce the loading/unloading time, with high rigidity structure design to increase the stability. On the other hand, the multiple types of the robot arms will be able to satisfy the different demands of the client.

### Heat Discharge

●The spindle motor, hydraulic box, oil chiller, electrical cabinet, and fans discharge backward, and the heat is quickly discharged to reduce thermal deformation of the casting.

### Tool Setter

●Previous manual tool detection arm systems are not practical for automated production. Therefore, we have designed an automatic tool detection arm. Utilizing a rotating shaft, two detection heads reduce excess space while maintaining dimensional accuracy while performing multi-process workpiece machining.

### Improved Sustainability

●The chip conveyor is located directly below the spindles to improve chip disposal. The coolant tank is located at the rear of the machine to facilitate cleaning and all wiring and hoses have been installed at the side for an overall more simple cleaning procedure.

## 型 號 MODEL TW-10

### 工作範圍 CAPACITY

最大旋徑 Max. swing	290mm
最大加工直徑 Max. turning diameter	290mm
最大加工長度 Max. turning length	220mm

### 行 程 TRAVEL

X軸行程 X axis travel	195+5mm
Z軸行程 Z axis travel	300mm

### 主軸 SPINDLE

主軸轉速 Spindle speeds	3500rpm
主軸鼻端 Spindle nose	A2-6
夾頭尺寸 Chuck size	10"

### 進 級 率 FEED RATE

X/Z 軸快速位移 X/Z rapid traverse	30 m/min
------------------------------	----------

### 刀 塔 TURRET

刀座數量 Tool storage capacity	12T
----------------------------	-----