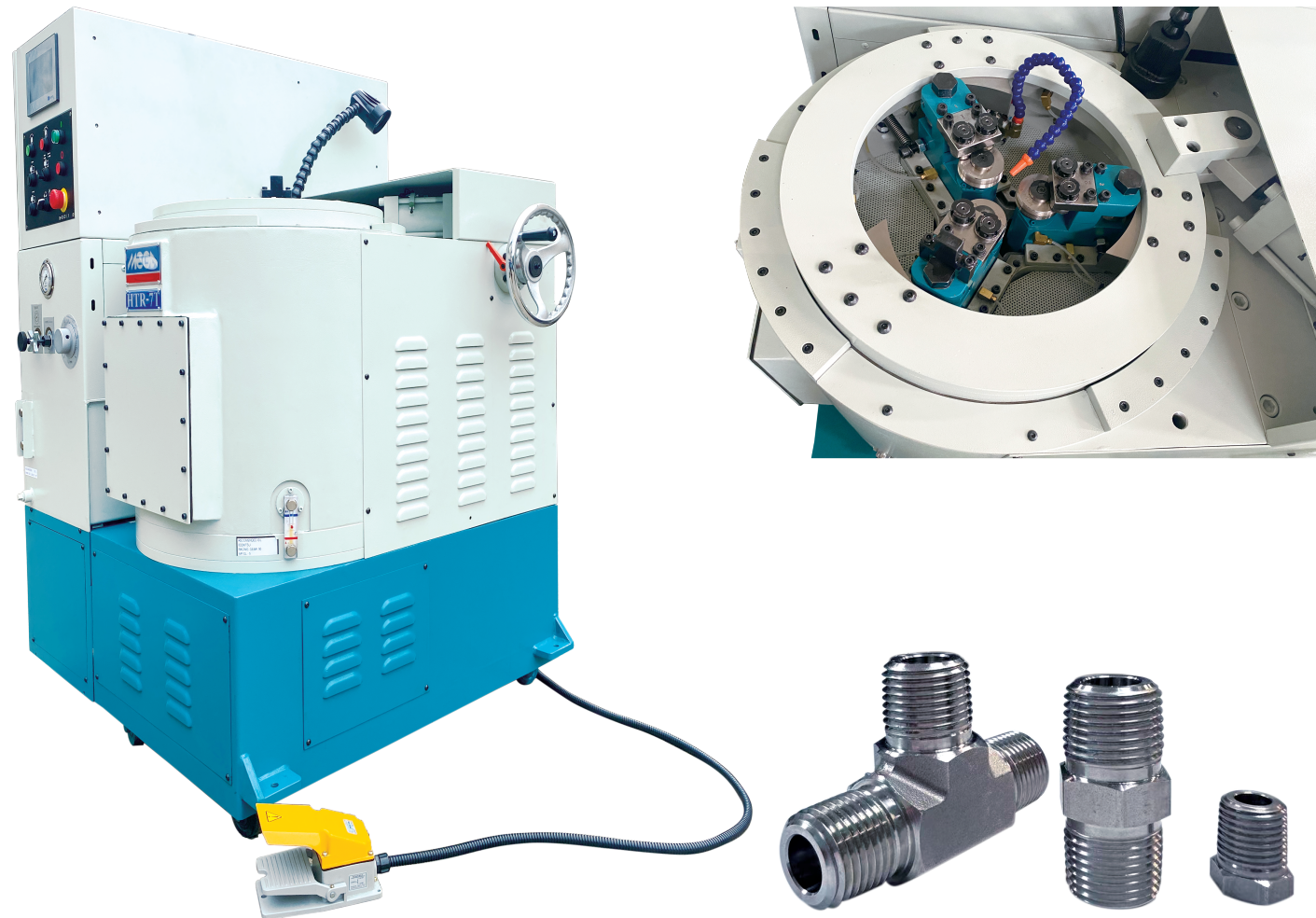




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# HTR系列 (HTR SERIES)



## 鎂佳機械工業股份有限公司 MEGA MACHINE CO., LTD.

台灣 . 411014 台中市太平區工業路180號  
No.180, Industrial Road, Tai-ping District,  
Taichung City , 411014,  
Taiwan R.O.C.  
www.bandsaw.com.tw  
Tel:+886-4-22712877(Rep.)  
Fax:+886-4-22715016



Official Website

## 三軸同步滾製滾牙機 THREAD ROLLING MACHINE (Triaxial Synchronous)

Keep Improving & Quality Oriented & Skillful Engineering and Imaginative Design  
give every MEGA Thread Rolling Machine exceptional Rolling capacity.  
不斷創新與精進&嚴格執行品質要求-以操作者為出發點的設計，並追求完美的品質

由於不斷地研究改進，本公司保有變更設計之權利。  
Specification subject to change without notice for improvement and modification.

# 機械特性

## Machine Features



本機的設計是讓三個滾輪同步運轉並且同步往工件滾壓的三輪式滾牙機，可確保滾製完成的螺紋軸直角。

This machine is equipped with synchronized three rolling spindles that roll the workpiece with three rolling dies at the same time which balance feeding force for better helical thread form.

本機因為操作空間較小，對操作者校滾輪而言是礙手礙腳的；所以本公司針對此一情況將此一滾牙機設計為不需校滾輪的機型。

Unique design offers easy operation that doesn't requires operator to match the thread before rolling. This not only saves the training time, but also improves the efficiency.

本機採立式機構設計，讓操作者易於操作同時也便利未來的自動化規劃。

Vertical rolling design enables operator to load and unload the workpiece more conveniently, and creates better work flow for automation solutions.

本機主結構採用鑄鐵製造，結構剛強，可使加工工件品質穩定。

The main structure of the machine is cast iron which is strong and rigid with stable rolling performance.

本機使用伺服馬達作為滾輪的滾製動力，變速比達到7倍。不論選用任何的轉速馬達都能發揮百分之百的扭力矩。

Servo controlled variable speed offers speed range up to 7 times and enables stable torque in low and high speed.

本機型適合滾製有頭螺絲及各類定長滾製之工件。

This machine model is suitable for rolling cap screws and all kind of workpieces that require in-feed rolling.

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# 機械規範

## Mechanical Specification



| 機型 Model                                   | 項目 Item     | HTR-7T 機型                                  | HTR-15T 機型                  |
|--|-------------|--|-----------------------------|
| 定長滾製加工範圍 Range of Thread(in-feed)          | 外徑 Diameter | φ 9.4→20 mm<br>(NPT1/8~NPT1/2)             | φ 18→60 mm<br>(NPT3/4~NPT2) |
| 定長滾製節距範圍 Range of Pitch(in-feed)           |             | 0.5→2 mm                                   | 0.5→3.5 mm                  |
| 定長滾製長度範圍 Range of Length(in-feed)          |             | 10~30 mm                                   | 10~55 mm                    |
| 滾輪外徑使用範圍<br>Range of rolling dies diameter |             | φ 47→φ 80 mm                               | φ 75→φ 120 mm               |
| 滾輪使用內徑 Bore Diameter                       |             | φ 25 mm                                    | φ 50.5 mm                   |
| 滾輪鍵槽規格 Keyway                              |             | 8x7 mm                                     | 10x8 mm                     |
| 滾製轉速範圍 Speed Range                         |             | 20→300 RPM                                 | 15→250 RPM                  |
|  |             | 伺服電機馬達無段變速/Servo controlled variable speed |                             |
| 滾輪馬達動力 Main Power                          |             | 10HP (7.5KW)                               | 15HP (11.25KW)              |
|  |             | 伺服電機馬達/Servo motor                         |                             |
| 油壓馬達動力 Hydraulic Power                     |             | 2HP (1.5KW)                                | 5HP (3.75KW)                |
| 冷卻油馬達動力 Coolant Power                      |             | 1/8HP (0.1KW)                              | 1/4HP (0.2KW)               |
| 機械最大出力 Max. Rolling Pressure               |             | 7 Tons                                     | 15 Tons                     |

| 標準配備(Standard Equipment)   | 特殊選擇配件(Optional Equipment)  |
|--|---|
| 1.調整工具箱— 1組<br><b>Tools with tool box – 1set</b><br>2.操作說明書— 1本<br><b>Instruction manual – 1copy</b> | 1.滾牙輪<br><b>Rolling dies</b><br>(本機因滾牙輪異動性大，所以滾牙輪必須額外採購)<br>Because of special design, rolling dies are made when order according to rolling requirement.<br>2.自動化的規劃與設計<br><b>Automation design is available according to demand of work flow.</b> |

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