

# Hi-TECH 700

Extra-Large Horizontal Turning Center

[HS-T073-R4.20-20150203](#)



# HIGH PERFORMANCE EXTRA-LARGE TURNING CENTER

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## heavy-duty turning

Hi-TECH 700 has a integrated 45-degree slant bed frame to minimize heat distortion, all guide way are designed as solid Box guide ways to maintain rigidity and precision even during prolonged operations. Its automatic transmission system allows low-speed, high-torque turning as well as high-speed machining, Hwacheon's advanced, patented design prevents deterioration of the workpiece from thermal displacement. The jet of lubrication is constantly applied to the spindle bearing for lubrication and cooling, to increase the machine's life and the precision in machining.



## ✂ Main Features

### 1. Best structure for Heavy Duty Cutting

- Spindle Motor
  - Std.: 37/30kW(50/40HP)
  - Opt.: 45/37kW(60/50HP)
- Max. Cutting Diameter: Ø650
- Max. Cutting Length: 2,000mm

### 2. Reducing lead time

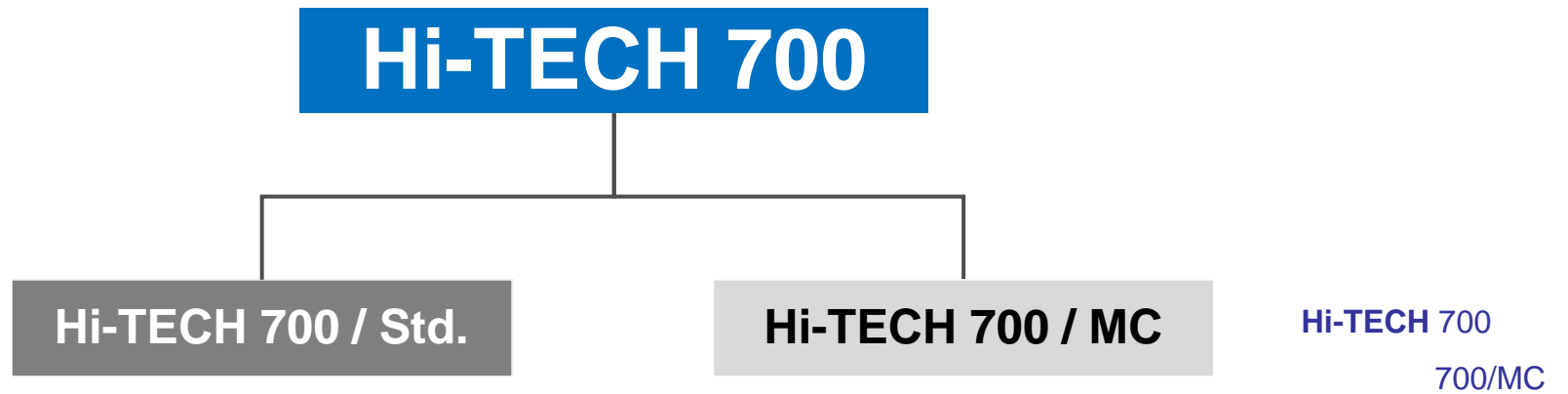
- Rapid Speed (X/Z): 18m/miin

### 3. Tailstock (MT #5)

- Quill Dia.: 150mm
- Powerful Built-in Quill structure

### 4. Multi Function

- Tailstock Body Program (Std.)
- Automatic Tool Presetter (Opt.)



Ref. 1) Std.: Standard 2) MC: Turnmill with C-Axis(0.001°)

# Machine Specification 【Hi-TECH 700】

Item		Hi-TECH 700	Hi-TECH 700/MC
<b>● Capacity</b>			
Swing over bed	mm(inch)		<b>Ø900 (35.43")</b>
Max. Cutting diameter	mm(inch)		<b>Ø650 (Ø25.59")</b>
Standard Cutting diameter	mm(inch)		<b>Ø381 (15")</b>
Max. Cutting length	mm(inch)		<b>2,000 (78.74")</b>
Chuck Size	inch		<b>15"</b>
<b>● Spindle</b>			
Type of spindle nose	ASA		<b>A2-11</b>
Max. spindle speed	rpm		<b>1,800</b>
Through spindle hole diameter	mm(inch)		<b>Ø132 (5.2")</b>
Max. Bar Size	mm(inch)		<b>Ø116 (4.56")</b>
Spindle bearing inner diameter	mm(inch)		<b>Ø180 (7.09")</b>
Spindle motor	kW(HP)		<b>37/30 (50/40)</b>
<b>● Turret</b>			
Number of tool station	ea		<b>12</b>
Tool size	mm(inch)		<b>□ 32 × Ø60 (□1.25" × Ø2.5")</b>
Turret indexing time	sec/step		<b>0.4</b>
<b>● Feedrate</b>			
Rapid speed (X/Z)	m/min(ipm)		<b>18/18</b>
Max. Stroke (X/Z)	mm(inch)		<b>360/2,050 (14.17"/80.71")</b>
Feed Motor (X/Z)	kW(HP)		<b>6/6 (8/8)</b>

# Machine Specification 【Hi-TECH 700】

Item		Hi-TECH 700	Hi-TECH 700/MC
<b>● Tailstock</b>			
Quill Dia.	mm(inch)		Ø150 (Ø5.9")
Quill Stroke	mm(inch)		150 (5.9")
Quill Taper	MT		# 5
<b>● Turnmill (Opt.)</b>			
Spindle motor	kW(HP)	—	7.5/5.5 (10/7.5)
Max. spindle speed	rpm	—	2,000
Max. Drill/Tap size	mm/(inch)	—	Ø50 (Ø2") / M24
Min. index angle	°(deg)	—	0.001°
<b>● Tank</b>			
Lubrication	ℓ(gal)		12 (3.2)
Hy'd	ℓ(gal)		50 (13.2)
Coolant	ℓ(gal)		300 (79)
<b>● Power Sources</b>			
Electrical power supply	kVA		75
<b>● Dimension</b>			
Height	mm(inch)		2,535 (99.8")
Floor space (L×W)	mm(inch)		5,065x2,282 (199.41"x89.84")
Weight	kg(lb)	15,000(33,069)	15,100(33,290)
<b>● NC Controller</b>		Fanuc 0i-TD	