

Hi-TECH 350

Box Way, Y-Axis, 8"-10" Chucker Horizontal Turning Center



MULTI AXIS HEAVY DUTY CUTTING WITH BOX WAY

HS-T127-R1.0-20150323

Box Way, Y-Axis, 8"-10" Chucker Horizontal Turning Center

Hi-TECH 350 is the pinnacle of Hwacheon technology. Its box way structure will enable to maintain high-rigidity and high-precision machining, while offering the largest turning diameter as well as turning length among today's mid-size lathes. A variety of options, such as Y-axis, provide higher flexibility. Hi-TECH 350 can be configured to ensure the perfect setup for your production needs and requirements - whether you have to manufacture is a hydraulic valve, connectors, flanges or long shafts.



※Main Features

1. High-Performance Large T/C

- Max. Cutting Dia. Ø 420mm (Best in its class)
- Max. Cutting Length 673mm ~ 1,273mm
- Chuck Size: 8"/10

2. Best Structure for Heavy Duty Cutting

- High-Spindle Torque
 - A-Type : 18.5/15kW (Opt. 22/18.5kW)
 - B-Type : 22/18.5kW
 - Max. Torque: A-Type : 164.9Nm / B-Type : 245Nm
 - Max. Spindle Speed 5,000/4,000rpm
- High-Speed, High-Performance Servo Turret
 - Turret Indexing Time: 0.25sec/1step
 - BMT65 or VDI 40 holder
- The rigid bed frame with 30° slant angle

3. Realization of Multi Machining

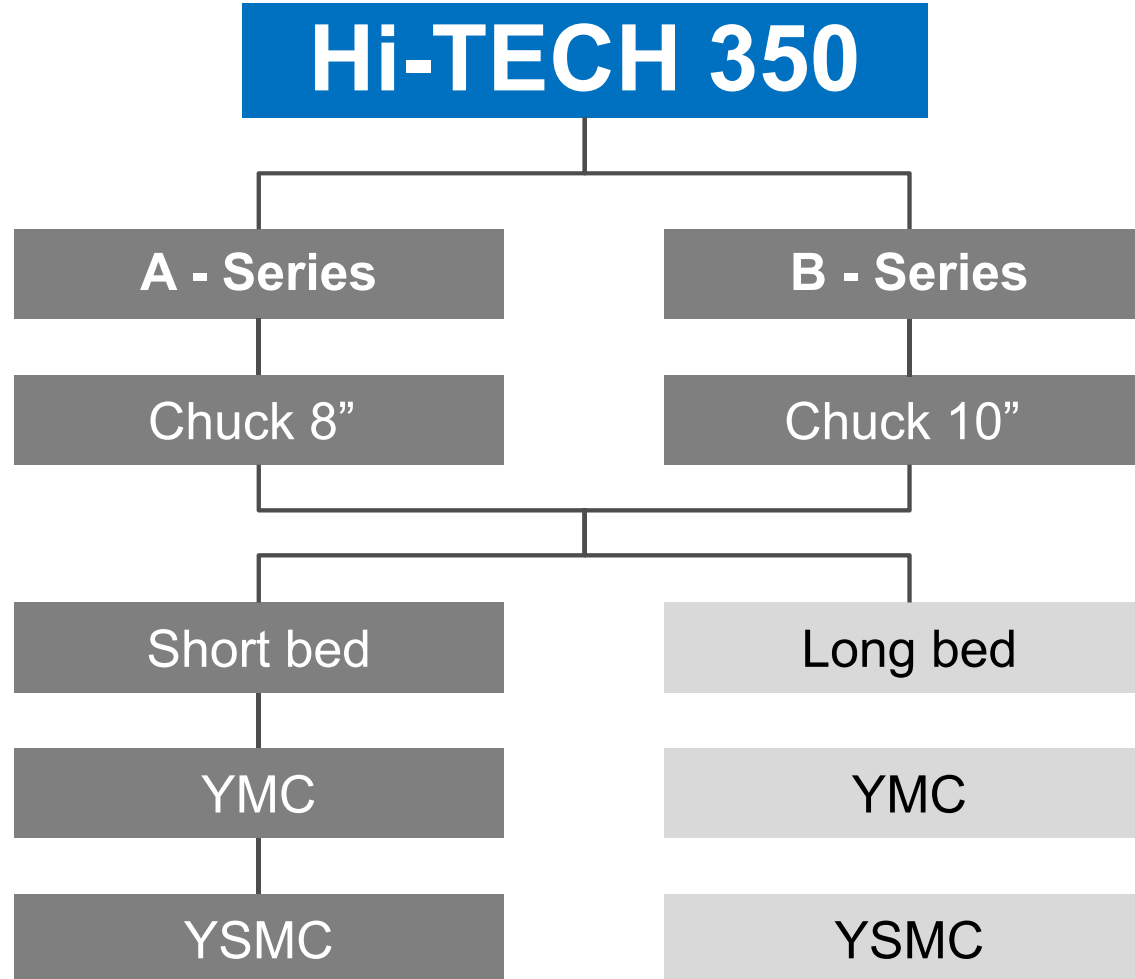
- Y-Axis(Standard)
 - Stroke of Y-Axis: 120mm (±60mm)
 - Rapid speed of Y-Axis: 10m/min
- Sub Spindle
 - 8" Hy'd Chuck & Cylinder
 - Spindle Motor 7.5/5.5kW(10/7.5HP), 4,000rpm

4. Multi Functions

- Various Steady Rest (Max. Ø200mm)
 - Programmable Steady Rest-Body Program(Opt.)
- Tailstock Body & Quill Program (Std.)
- Automatic Tool Presetter (Opt.)

Hi-TECH 350

Hi-TECH
 350AYMC
 350AYS MC
 350ALYMC
 350ALYS MC



Hi-TECH
 350BYMC
 350BYS MC
 350BLYMC
 350BLYS MC

Ref. L : Long Type **YMC** : Y-axis + Turnmill [C-Axis(0.001°)] **YSMC** : Y-axis + Turnmill [C-Axis(0.001°)] + Sub Spindle

Item		Hi-TECH350A YMC(YSMC)	Hi-TECH350AL YMC(YSMC)	Hi-TECH350B YMC(YSMC)	Hi-TECH350BL YMC(YSMC)
● Capacity					
Swing over Bed	mm(inch)	Ø700 (27.56")			
Swing over Saddle	mm(inch)	Ø550 (21.65")			
Max. Cutting Dia.	mm(inch)	Ø420 (16.54")			
Standard Cutting Dia.	mm(inch)	Ø254 (10")			
Max. Cutting Length	mm(inch)	673(26.49")	1,273(50.11")	661(26.02")	1,261(49.64")
Chuck Size (Main & Sub)	inch	8" [Sub: 8"]		10" [Sub: 8"]	
● Spindle (Main & Sub)					
Type of Spindle Nose	ASA	A2-6 [Sub: A2-6]		A2-8 [Sub: A2-6]	
Max. Spindle Speed	rpm	5,000 [Sub: 4,000]		4,000 [Sub: 4,000]	
Through Spindle Hole Dia.	mm(inch)	Ø75 (2.95") [Sub: Ø62(2.44")]		Ø90 (3.54") [Sub: Ø62(2.44")]	
Max. Bar Size	mm(inch)	Ø65 (2.56") [Sub: Ø51(2.01")]		Ø76 (2.99") [Sub: Ø51(2.01")]	
Spindle Bearing Inner Dia.	mm(inch)	Ø100 (3.94") [Sub: Ø100 (3.94")]		Ø130 (5.11") [Sub: Ø100 (3.94")]	
Spindle Motor	kW(HP)	18.5/15 (25/20) [Sub: 7.5/5.5 (10/7.5)] [Opt.: 22/18.5 (30/25) [Sub: 7.5/5.5 (10/7.5)]]		22/18.5 (30/25) [Sub: 7.5/5.5 (10/7.5)]	
● Turret					
Number of Tool Station	ea	12			
Tool Size (OD x ID)	mm(inch)	□ 25 x Ø 50 (□ 1" x Ø 2")			
Turret Indexing Time	Sec/1step	0.25			
● Axis					
Rapid Speed (X/Z/Y/B)	m/min(ipm)	20/ 24/ 10/ 16 (787/ 945/ 394/ 630)			
Max. Stroke (X/Z/Y/B)	mm(inch)	YMC: 280/ 790/ 120/ - (11"/ 31.1"/ 4.7"/ -) YSMC: 260/ 790/ 120/ 726 (10.2"/ 31.1"/ 4.7"/ 28.58")	YMC: 280/ 1,390/ 120/ - (11"/ 54.7"/ 4.7"/ -) YSMC: 260/ 1,390/ 120/ 1,326 (10.2"/ 54.7"/ 4.7"/ 52.2")	YMC: 280/ 790/ 120/ - (11"/ 31.1"/ 4.7"/ -) YSMC: 260/ 790/ 120/ 714 (10.2"/ 31.1"/ 4.7"/ 28.11")	YMC: 280/ 1,390/ 120/ - (11"/ 54.7"/ 4.7"/ 51.73") YSMC: 260/ 1,390/ 120/ 1,314 (10.2"/ 54.7"/ 4.7"/ 51.73")
Feed Motor (X/Z/Y/B)	kW(HP)	4.0/ 4.0/ 4.0/ 1.6 (5.5/ 5.5/ 5.5/ 2.2)			

Machine Specification [Hi-TECH 350]

Item		Hi-TECH350A YMC(YSMC)	Hi-TECH350AL YMC(YSMC)	Hi-TECH350B YMC(YSMC)	Hi-TECH350BL YMC(YSMC)
● Tailstock					
Tailstock Stroke	mm(inch)	750 (29.53")	1,350 (53.15")	750 (29.53")	1,350 (53.15")
Quill Dia.	mm(inch)	Ø100 (3.94")			
Quill Stroke	mm(inch)	120 (4.72")			
Quill Taper	MT	# 5			
● Turnmill (Opt.)					
Spindle Motor	kW	3.7/2.2			
Max. Spindle Speed	rpm	5,000			
Max. Drill / Collet Size	mm/inch	Ø20 (Ø0.79") / M16			
Min. Index Angle	°(deg)	0.001°[Sub: 0.001°]			
● Tank					
Lubrication	ℓ(gal)	12 (3.17)			
Hydraulic	ℓ(gal)	50 (13.21)			
Coolant	ℓ(gal)	190 (50.19)		240 (63.4)	
● Power Sources					
Electrical Power Supply	kVA	YMC: 50, YSMC: 55			
● Dimension					
Height	mm(inch)	2,205(86.81")			
Floor Space (LxW)	mm(inch)	3,500 x 2,045 [137.8" x 80.51"]	4,100 x 2,045 [161.42"x80.51"]	3,500 x 2,045 [137.8" x 80.51"]	4,100 x 2,045 [161.42"x80.51"]
Weight	kgf(lbf)	YMC: 6,400(14,110) / YSMC: 7,400(16,315)	YMC: 7,700(16,976) / YSMC: 8,700(19,181)	YMC: 6,400(14,110) / YSMC: 7,400(16,315)	YMC: 7,700(16,976) / YSMC: 8,700(19,181)
● NC Controller					
Fanuc 0i-TD					