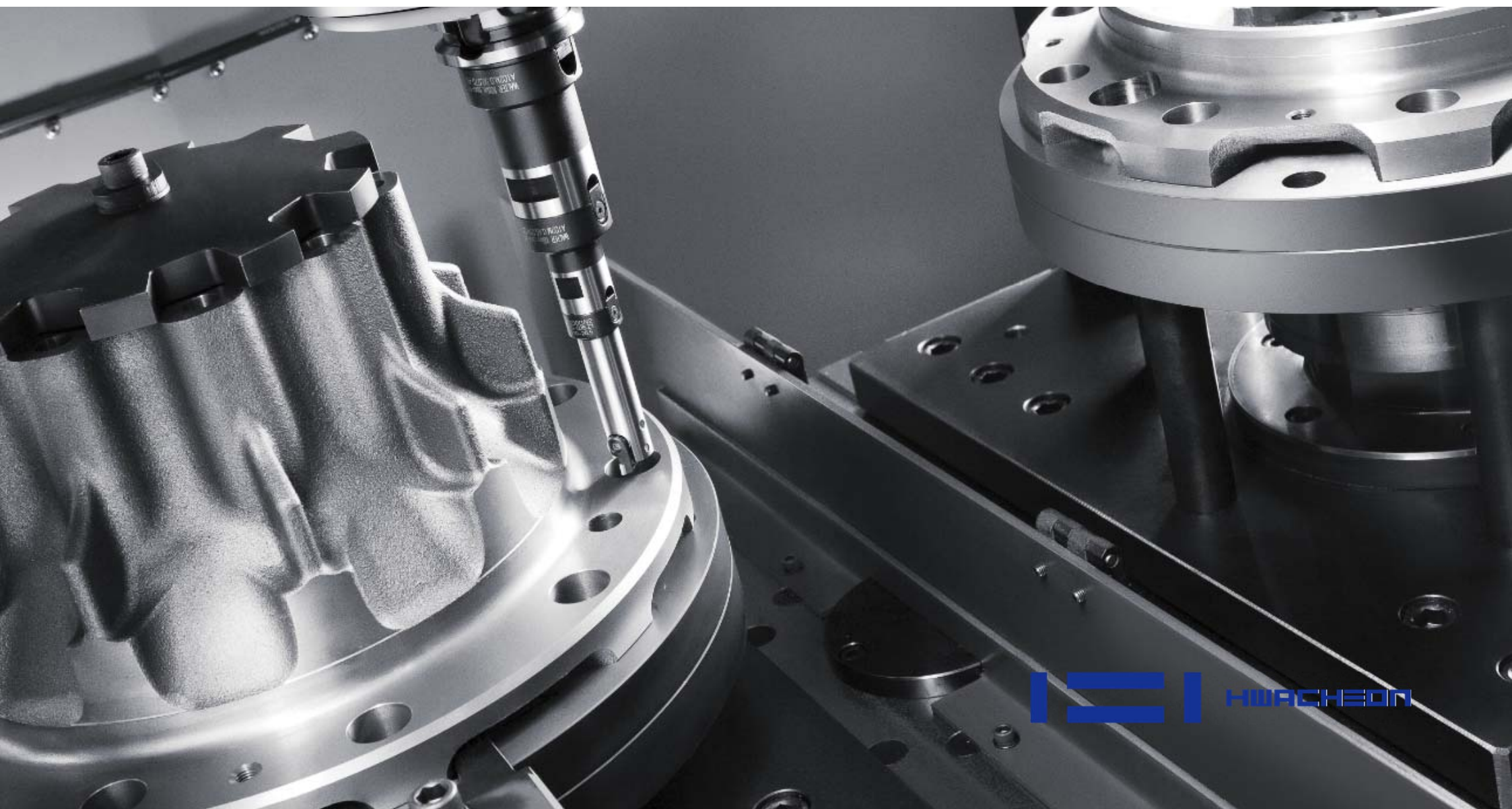


VESTA-610D

Dual Table Vertical Machining Center



OPTIMIZED PERFORMANCE FOR HIGH PRODUCTIVITY

HS-M287-R3.11-20130724

This machining center is the result of Hwacheon's technological innovation.

Everything about VESTA-610D is detail. This machining center doesn't miss even the smallest detail to ensure top performance. Machine equipped with standard Dual Table provide to maximum operating efficiency, the compact size is designed to facilitate automation in support of a variety of automated system.

HTLD increases the life of your tools; HECC provides perfect contour control for better machining efficiency; OPTIMA controls the feedrate and HTL D adjusts the temperature in real time. To minimize thermal displacement and to increase the life of the spindle assembly, the spindle unit is grease-lubricated and jacket cooled.

The advanced feed drive complements the spindle for highly precise machining result every time. The super tough roller guide keeps its precision even at high speeds, and offers a variety of options for your convenience. Last but not least, VESTA's advanced chip removal and lube separation system help to save cost.



※ Main Features

1. High-Productivity

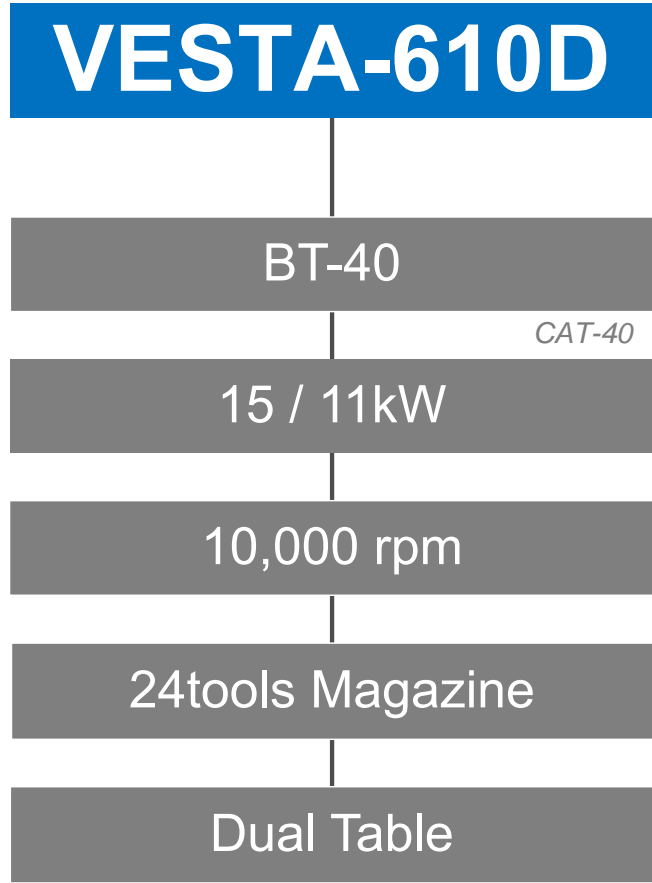
- Dual Table (2APC) Standard → Indexing Time: 6sec
- Rapid speed (X/Y/Z): 40/40/40m/min
- Max. spindle speed: 10,000rpm

2. High-Performance

- Hwacheon's Handmade Spindle
 - Std.(BT-40): 15/11kW (20/15HP)
 - Unique jacket cooling system
- Powerful Roller LM Guide (X/Y/Z)

3. Variety Function

- Hwacheon's Original Technology
 - Std.: HAI(40block)/HECC /HTLD /OPTIMA /HTDC(HSDC+HFDC)
 - Opt.: HAI(200block)
- Spindle through coolant (Opt.): 30bar, 70bar
- Additional Fluid line for Jig & Fixture (Opt.)



VESTA-610D/10,000rpm

CAT-40

ITEM		VESTA-610D/10K
● Travel		
X-axis Stroke (Longitudinal movement of Spindle)	mm(inch)	610 (24.02")
Y-axis Stroke (Cross movement of Table)	mm(inch)	430 (16.93")
Z-axis Stroke (Vertical movement of Spindle)	mm(inch)	570 (22.44")
Distance from Table Surface to Spindle Gauge Plane	mm(inch)	150 (5.91") ~ 720 (28.35")
Distance between Column to Spindle Center	mm(inch)	535 (21.06")
● Table		
Working Surface	mm(inch)	2ea - 650 (25.59") x 450 (17.72")
Table Loading Capacity	kg(lb)	2ea - 300 (661)
Table Surface Configuration(T slots W x P – No. of slots)	mm(inch)	2ea - 18 (0.71") x 150 (5.91") – 3ea
APC Index Time (180°)	sec	6
● Spindle		
Max. Spindle Speed	rpm	10,000
Spindle Motor	kW(HP)	15/11 (20/15)
Type of Spindle Taper Hole	-	ISO#40, 7/24 Taper (BT 40)
Spindle Bearing Inner Diameter	mm(inch)	Ø70 (2.76")
Method of Spindle Lubrication & Cooling	-	Grease Lub. + Jacket Cooling
● Feedrate		
Rapid Speed (X/Y/Z)	m/min(ipm)	40 (1,575) / 40 (1,575) / 40 (1,575)
Feedrate (X/Y/Z)	mm/min(ipm)	1 (0.04) ~ 24,000 (945)
● Motor		
Servo Motor (X/Y/Z)	kW(HP)	7 (9.4) / 7 (9.4) / 7 (9.4)
Coolant Motor (Spindle / Chip Flushing)	kW(HP)	0.4 (0.54) / 0.9 (1.2)
Spindle Cooler / Hydraulic Motor	kW(HP)	0.18 (0.24) / 2.2 (2.95)

ITEM		VESTA-610D/10K
● ATC		
Type of Tool Shank	-	MAS-403 BT-40 (Opt.:CAT-40)
Type of Pull Stud	-	MAS P40T-1 (45°)
Tool Storage Capacity	ea	24
Max. Tool Diameter [without Adjacent Tools]	mm(inch)	Ø90 (3.54") / Ø150 (5.91")
Max. Tool Length	mm(inch)	300 (11.81")
Max. Tool Weight	kg(lb)	8 (17.64)
Method of Tool Selection	-	Memory Random
Method of Operation (Magazine / Swing arm)	-	Geared Motor / Geared Motor
● Power Source		
Electric Power Supply	kVA	50
Compressed Air Supply (Pressure x Consumption)	-	0.5~0.7MPa x 690Nℓ/min
● Tank Capacity		
Spindle Cooling / Lubrication	ℓ(gal)	20 / 6 (5.28 / 1.59)
Coolant / Hydraulic	ℓ(gal)	395 (104.35) / 15 (3.96)
● Machine Size		
Height (Standard / Spindle Through coolant)	mm(inch)	2,670 (105.12") / 2,885 (113.58")
Floor Space (Length x Width)	mm(inch)	3,980 (156.69") x 2,135 (84.06")
Weight	kg(lb)	7,500 (16,535)
● NC Controller		Fanuc 0i-MD