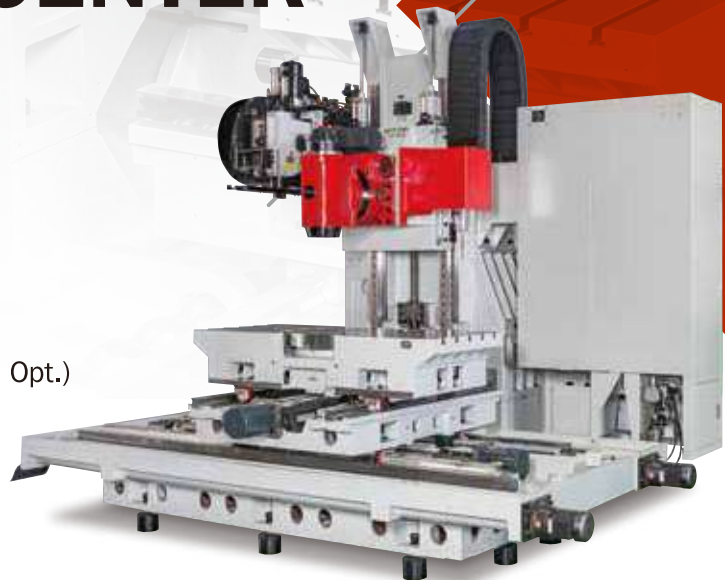




# 5 AXIS VERTICAL MACHINING CENTER

## LV-BC series

- Roller cam drive on B-axis
- Built-in spindle, 12,000 rpm (15,000 rpm Opt.)
- Direct-drive rotary table on C-axis
- One-piece inverted T-base structure
- Cooling system for ball screws
- Ultra-rigid base with arch-shaped ribs
- Precision hand-scraped contact surfaces
- Dual chip augers for chip disposal
- Z-axis double air-cylinder counterbalance (standard)
- Heavy-duty roller linear guideways on all axes



MODEL		UNIT	1377BC	1577BC	1688BC	1888BC	2010BC
B / C AXES	C-axis table diameter	mm	Ø630		Ø800	Ø800	Ø800
	C-axis swing diameter	mm	Ø850		Ø900		
	T-slot size	mm	18				
	C-axis rotation range	deg.	±360				
	Max. C-axis speed	min <sup>-1</sup>	Std.: 50, Opt.: 200 / 600 / 1000				
	Max. table load	kg	500		1200		
	C-axis clamp / pressure	Mpa	Hydraulic / 3~3.5				
	C-axis accuracy / repeatability	arcsec.	8" / 3"				
	B-axis rotation range	deg.	±120				
	Max. B-axis speed	rpm / MAXSP	31 / 3000				
	B-axis clamp / pressure	Mpa	Hydraulic / 2~2.5				
B-axis accuracy / repeatability	arcsec.	12" / 4"					
TABLE	Table size	mm	1400 x 700	1600 x 700	1700 x 900	1900 x 950	2000 x 1000
	T-slot (No. x W x P)	mm	5 x 18 x 125		5 x 18 x 150		
AXES TRAVELS	X-axis travel	mm	1350	1600	1650	1800	2000
	Y-axis travel	mm	Std.: 710 / Opt.: 750		850		1000
	Z-axis travel	mm	700		830		
SPINDLE	Spindle nose to table (horizontal position)	mm	100~800		100~900		100~930
	Spindle taper		Std.: BBT40, Opt.: HSK-A63				
	Pull stud		Std.: BT, Opt.: DIN / HSK / MAS BT				
	Max. spindle speed	rpm	Std.: 12000, Opt.: 15000 / 20000				
	Spindle type		Bulit-in				
FEEDRATE	X / Y / Z rapid traverse	M/min	24 / 30 / 30		18 / 24 / 24		16 / 20 / 20
	Max. cutting feedrate	mm/min	15000				
X / Y / Z AXES	X / Y / Z linear guideways	mm	55 x 3 / 55 x 2 / 55 x 3 (size x No.)				
	Linear ways type		Precision roller linear guideways (P grade)				
	3-axis transmission		Ball screw drive, accuracy grade C3+				
	Ball screw cooling		Oil Cooling through ball screw				
	Ball screw cooling oil		Std.: G68 / 8L, Opt.: Grease / 1L				
ATC	Tool capacity		Std.: 40T, Opt.: 60T				
	Max. tool diameter	mm	#40 - Ø75				
	Max. tool dia. (without adjacent tools)	mm	#40 - Ø127				
	Max. tool weight	kg	#40 - 7				
	Max. tool length	mm	#40 - 300				
GENERAL	Positioning accuracy / Repeatability *	mm	0.008 / 0.006		0.01 / 0.006		
	Power	KVA	50		55		60
	Air pressure	Mpa	0.65 ±10%				
	Machine weight	kg	14000	15600	16400	17500	18600

\* HEAKE reserves the right to modify the design and specifications without prior notice.

\* Note: Measured under indoor temperature-controlled conditions.

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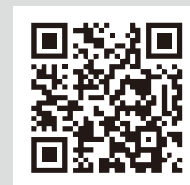
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