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MANFORD

POWER & DETERMINATION

HORIZONTAL MACHINING CENTER
HL-630/800/1000 Series

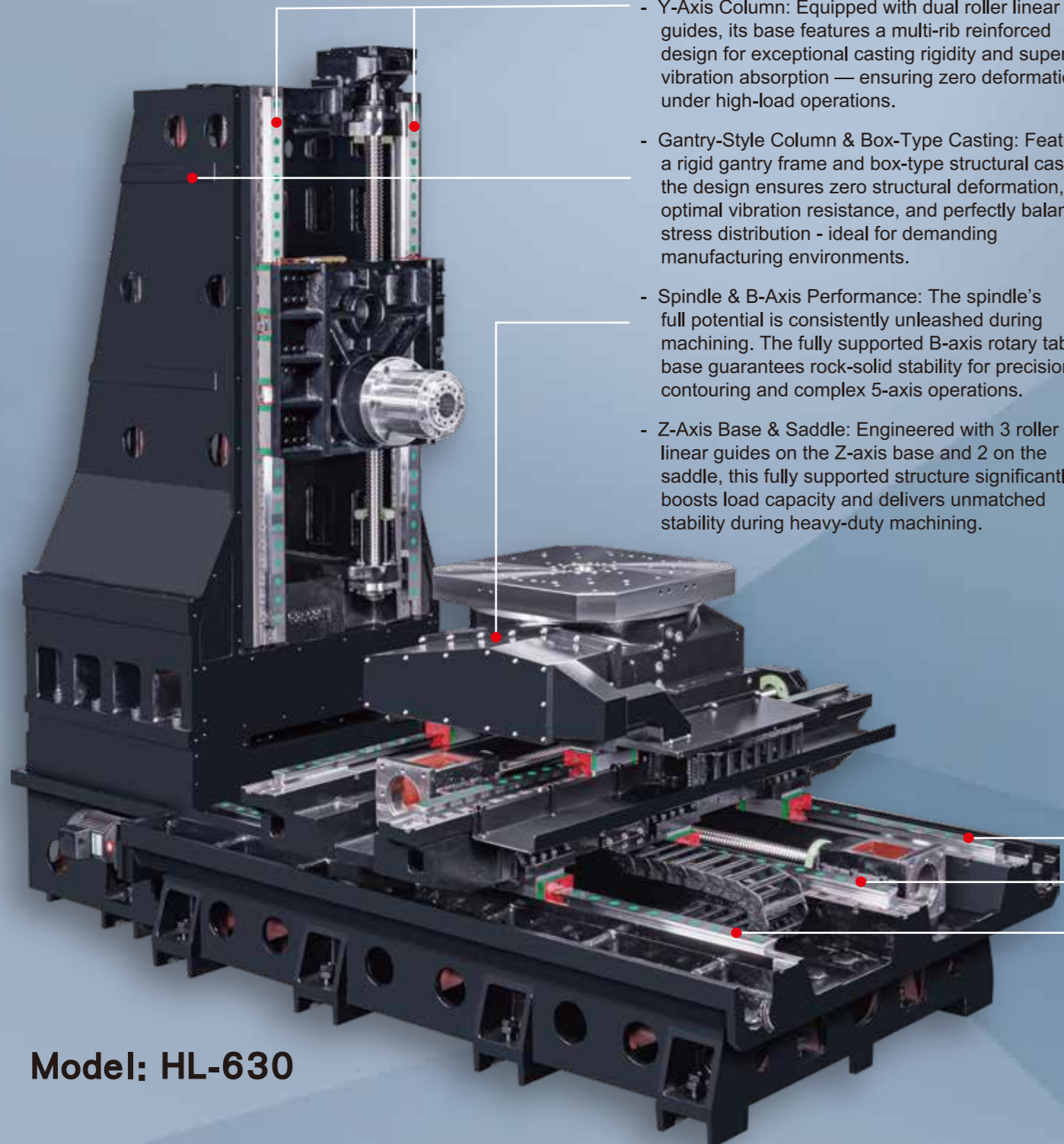
HL-630 / HL-800 HL-1000

HORIZONTAL MACHINING CENTER

Full-Support Structural Design
for Maximum Rigidity

Machine Features

- Y-Axis Column: Equipped with dual roller linear guides, its base features a multi-rib reinforced design for exceptional casting rigidity and superior vibration absorption — ensuring zero deformation under high-load operations.
- Gantry-Style Column & Box-Type Casting: Featuring a rigid gantry frame and box-type structural casting, the design ensures zero structural deformation, optimal vibration resistance, and perfectly balanced stress distribution - ideal for demanding manufacturing environments.
- Spindle & B-Axis Performance: The spindle's full potential is consistently unleashed during machining. The fully supported B-axis rotary table base guarantees rock-solid stability for precision contouring and complex 5-axis operations.
- Z-Axis Base & Saddle: Engineered with 3 roller linear guides on the Z-axis base and 2 on the saddle, this fully supported structure significantly boosts load capacity and delivers unmatched stability during heavy-duty machining.



Model: HL-630

SPECIFICATIONS

	MODEL	Unit	HL-630	HL-800	HL-1000
Travel	X axis travel	mm	1000	1270	1530
	Y axis travel	mm	800	1250	1250
	Z axis travel	mm	900	1050	1250
	Spindle center to work table surface	mm	25 ~ 825	50 ~ 1300	50 ~ 1300
	Spindle nose to work table center	mm	150 ~ 1050	230 ~ 1280	230 ~ 1480
Table	Table size	mm	630 x 630	800 x 800	1000 x 1250
	Maximum workpiece size	mm	Ø1000 x 825	Ø1270 x 1300	Ø1530 x 1300
	Bolt/T -slots (Quantity x Size x Distance)	mm	M16 x P2.0 x 24 Hole	7 x 22 x 100	9 x 22 x 100
	Table surface to floor	mm	1160	1260	1305
	Max. loading	kg	1200	2000	
	Index precision	deg	1		
Spindle	Spindle taper	-	#50		
	Spindle speed	rpm	6000		
	Transmission	mm	Belt	Gear head	
	Spindle motor	kW	11/15	15/18.5	
Feedrate	3 axes rapid feedrate	m/min	36	15/15/12	
	3 axes cutting feedrate	m/min	10	1~6	
	3 axes positioning accuracy	mm	0.01		
	3 axes repeatability	mm	0.006		
ATC	Tool capacity	-	24	40	
	Max. tool diameter × length	mm	Ø105 x 350 (Ø210 x 350 next empty)	Ø126 x 400 (Ø250 x 400 (Ø210 x 350 next empty))	
	Max. tool weight	kg	15		
	Tool change time (tool-tool)	sec	3.55		
Others	Lubrication tank capacity	Liter	2	0.7	
	Air pressure requirements	kg/cm ²	6		
	Power capacity require	KVA	50		
Dimension	Floor space	mm	4820 x 3841 x 2912	5600 x 4000 x 4000	6000 x 4500 x 4050
	Machine weight	kg	10500	17000	19000

*The above machine specification is subject to change without previous notice due to the continuous improvement of R&D.

Standard Accessories

- Full guarding
- Steel belt type chip conveyor
- Spindle curtain coolant
- Auto lubrication system
- Coolant system
- Spindle oil cooler
- Hydraulic system
- Work light
- Program light
- Heat exchanger for electrical cabinet
- Remote handwheel
- Tool box
- Leveling bolts & pads

Optional Accessories

- Gear box (HL-630)
- LHL central lubrication system
- Air conditioner for electrical cabinet
- Coolant through spindle
- 0.001° indexing rotary table
- Linear scale (3 axes)
- Tool length measurement
- Work piece measurements
- Auto door
- Oil mist collector
- Oil skimmer
- Transformer