

COMPREHENSIVE

PRODUCT CATALOGUE

HCA



ABOUT US

Welcome to Hardik CNC Automation, where innovation meets precision!

Founded in 2019, we are a leading manufacturer specializing in CNC, VMC, DTC, and Sliding Head Machines. With a passion for precision engineering, we are dedicated to revolutionizing the manufacturing landscape by delivering cutting-edge machinery that combines advanced technology with unmatched accuracy.

Our mission is to empower industries by providing reliable and efficient solutions that optimize cycle times, enhance productivity, and cater to diverse manufacturing needs. Each machine we design and produce reflects our commitment to quality, innovation, and customer satisfaction.

At Hardik CNC Automation, your vision is our blueprint. Together, we craft masterpieces of engineering excellence, paving the way for a smarter, more efficient future in manufacturing.



CNC-135A TURNING CENTER

"Compact Precision, Limitless Possibilities"



CNC-200 TURNING SERIES

"Precision Crafted, Versatility Delivered"



JUPITER-700 DTC

"Efficiency Elevated, Precision Perfected"



VENUS VMC SERIES

"Powerful Cuts, Precise Results"



HX-20 SLIDING HEAD

"Precision Redefined, Performance Delivered"

For detailed insights, visit our website, explore our YouTube channel, and follow us on Instagram.



Scan to visit our website.

CNC-135A

The CNC-135 Series is a compact and precision-engineered CNC machine designed for high-performance machining within a small footprint of 1790mm x 1230mm. It features a robust FG300 structure for enhanced stability, laser-calibrated axes ensuring accuracy under 10 microns, and a versatile turret available in 8 or 12 stations. Equipped with a programmable tailstock, precision-ground ball screws, and linear motion guideways, this machine ensures exceptional accuracy, efficiency, and reliability for diverse machining applications.



TECHNICAL SPECIFICATIONS		
Swing Over Bed	mm	320
Standard Turning Dia.	mm	135
Max. Turning Dia.*	mm	150
Max. Turning Len.* (From Chuck Face)	mm	240
Slides		
X-Axis Travel	mm	100
Z-Axis Travel	mm	260
Rapid Feed (X & Z)	m/min	24
Main Spindle		
Spindle Motor (Fanuc/Mitsubishi)	kw	3.7/5.5
Max. Spindle RPM	rpm	4000
Spindle Nose		A2-4
Spindle Bore	mm	33
Max. Bar Capacity	mm	25
Chuck Size		135
Turret		
No. of Stations		8/12
Max. Boring Bar Dia.	mm	32/25
Tool Size (Cross Sectional)	mm	20 x 20/16 x 16
Tailstock		
Quill Dia.	mm	50
Quill Taper		MT-4
Quill stroke		120
Adjustable Thrust	kgf	300
Accuracy		
Positioning Accuracy	mm	0.007
Positioning Repeatability	mm	0.005
Other Data		
Machine Weight (Approx.)	kg	2100
Machine Dimension (Approx.):		
Width	mm	1790
Length	mm	1230
Height	mm	1630

* Depends upon clamping arrangement, tooling, and job. All specifications are subject to change without prior notice.

STANDARD ACCESSORIES / FEATURES

- Fanuc Oi TF Plus, Mitsubishi M80 or Siemens CNC Controller
- 8 Station Turret
- Tailstock with Hydraulic Quill
- Hydraulic Chuck
- Servo Spindle Motor
- Linear Motion Guideways
- Precision Ground Ballscrew
- Auto & Manual Coolant System
- Centralized Programmable Oil Lubrication
- Electrical Cabinet 220V / 50Hz with Air Conditioning Unit.
- Chip Tray - Rear
- Laser Calibrated Axis for Precision Positioning Accuracy & Repeatability

OPTIONAL FEATURES

- Stabilizer
- Hydraulic Collet Chuck
- Bar Feeder
- Mist Collector
- Coolant Gun

FERONYX SERIES

The CNC-200 Series is a spacious and high-performance CNC machine designed for precision machining tasks. With a robust FG300 structure, it ensures rigidity and stability, minimizing torsional stresses during dynamic operations. The machine is equipped with a versatile turret (available in 8 or 12 stations), precision-ground LM & ball screws, and programmable tailstock, enabling smooth, precise, and automated operations. It handles a wide range of materials and applications, ensuring flexibility, durability, and superior machining accuracy.



TECHNICAL SPECIFICATIONS		CNC20-35 A	CNC20-35 B	CNC20-50 A	CNC20-50 B
Swing Over Bed	mm	450	450	480	480
Standard Turning Dia.	mm	250	250	250	250
Max. Turning Dia.*	mm	365	365	365	365
Max. Turning Len. From Chuck Face*	mm	350	350	500	500
Slides					
X-Axis Travel	mm	200	200	200	200
Z-Axis Travel	mm	410	410	560	560
Rapid Feed (X & Z)	m/min	24	24	24	24
Main Spindle					
Spindle Motor (Fanuc/Mitsubishi)	kw	5.5/7.5	7.5/11	5.5/7.5	7.5/11
Max. Spindle RPM	rpm	50-4000	50-4000	50-4000	50-4000
Spindle Nose		A2-5	A2-6	A2-5	A2-6
Spindle Bore	mm	56	65	56	65
Max. Bar Capacity	mm	44	50	44	50
Chuck Size		165	200	165	200
Turret					
No. of Stations		8/12	8/12	8/12	8/12
Max. Boring Bar Dia.	mm	40	40	40	40
Tool Size (Cross Sectional)	mm	25x25	25x25	25x25	25x25
Tailstock					
Quill Dia.	mm	80	80	80	80
Quill Taper		MT-4	MT-4	MT-4	MT-4
Quill stroke		110	110	110	110
Adjustable Thrust	kgf	300	300	300	300
Accuracy					
Positioning Accuracy	mm	0.007	0.007	0.007	0.007
Repeatability	mm	0.005	0.005	0.005	0.005
Other Data					
Machine Weight (Approx.)	kg	3000	3050	3200	3250
Machine Dimension (Approx.):					
Width	mm	2120	2120	2400	2400
Length	mm	1430	1430	1430	1430
Height	mm	1850	1850	1850	1850

* Depends upon clamping arrangement, tooling, and job. All specifications are subject to change without prior notice.

STANDARD ACCESSORIES / FEATURES

- Fanuc Oi TF Plus, Mitsubishi M80 or Siemens CNC Controller
- 8 Station Turret
- Tailstock with Hydraulic Quill
- Hydraulic Chuck
- Servo Spindle Motor
- Roller Type Guideways
- Precision Ground Ballscrew
- Auto & Manual Coolant System.
- Centralized Programmable Oil Lubrication
- Electrical Cabinet 220V / 50Hz with Air Conditioning Unit.
- Chip Tray - Rear
- Laser Calibrated Axis for Precision Positioning Accuracy & Repeatability

OPTIONAL FEATURES

- Stabilizer
- Chip Conveyor
- Hydraulic Collet Chuck
- Bar Feeder
- Mist Collector
- Coolant Gun

JUPITER-700

The JUPITER-700 is a versatile and high-precision drill-tap center designed for efficiency and adaptability. It features a robust structure with high-precision LM guideways, ball screws, and a direct-drive spindle offering speeds up to 10,000 rpm, ensuring smooth operation and exceptional positional accuracy. Its 21-tool bi-directional automatic tool changer and optional rotary table for synchronized 4th and 5th-axis operations enhance productivity and flexibility. A high-performance coolant system, large-capacity chip tray, and user-friendly Fanuc Oi MF Plus or Mitsubishi M80V controls ensure reliable performance, making the JUPITER-700 ideal for precision-driven applications.



TECHNICAL SPECIFICATIONS		
Table Size	mm	800 x 400
Max. Table Load*	kg	350
Table T-Slot	mm	3 x 14 x 100
X – Axis Travel	mm	700
Y – Axis Travel	mm	400
Z – Axis Travel	mm	300
Spindle Face to Table Top Dist.	mm	180-480
Rapid Traverse (X/Y/Z)	m/min	50/50/56
Speed Range	rpm	10000
Rated Power	kw	3.7/5.5/7.5
Spindle Nose		BT-30
Spindle Type		Direct Drive
No. of Tools		21
ATC Type		Swivel Type
Tool Selection Method		Random Shortcut Method
Max. Tool Dia.	mm	50
Max. Tool Weight	kg	3
Positioning Accuracy	mm	0.008
Positioning Repeatability	mm	0.005
Machine Weight (Approx.)	kg	3500
Machine Dimension (Approx.):		
Width	mm	2550
Length	mm	2060
Height	mm	2220

* Depends upon clamping arrangement, tooling, and job.
Note: All specifications are subject to change without prior notice.

STANDARD ACCESSORIES / FEATURES

- Fanuc Oi MF Plus or Mitsubishi M80 Controller
- 21 Station Bi-Directional ATC
- Servo Spindle Motor
- Linear Motion Guideways
- Precision Ground Ballscrew
- Auto & Manual Coolant System
- Centralized Programmable Oil Lubrication
- Electrical Cabinet 220V / 50Hz with Air Conditioning Unit.
- Chip Tray – Rear

OPTIONAL FEATURES

- Rotary Table
- Increased Daylight Area
- Coolant Gun
- Chip Conveyor
- Tooled-Up Solutions

VENUS SERIES

The Venus-Series (VMC) is a high-performance machine designed for precision, durability, and user-friendly operation. It features a robust structure with roller guideways on all axes, a 20-tool arm-type automatic tool changer, and spindle speeds of up to 8,000 rpm. Equipped with advanced calibration techniques, a sophisticated coolant system, and optional 4th and 5th-axis rotary tables, the Venus-Series delivers superior cutting performance, reliability, and versatility for demanding manufacturing applications.



TECHNICAL SPECIFICATIONS			VENUS-650	VENUS-850	VENUS-1050
Table Size	mm		800 x 450	1000 x 500	1150 x 530
Max. Table Load*	kg		400	600	800
Table T-Slot	mm		18 x 4 x 100	18 x 5 x 100	18 x 5 x 100
X - Axis Travel	mm		650	850	1050
Y - Axis Travel	mm		450	500	550
Z - Axis Travel	mm		500	500	575
Spindle Nose to Table Surface	mm		100 - 600	100 - 600	125 - 700
Spindle Center to Z-Axis Sliding Cover	mm		500	550	550
Spindle Speed	rpm		8000	8000	8000
Spindle Motor Power (Mitsubishi)	kw		5.5/7.5	7.5/11	11/15
Spindle Motor Power (Fanuc)	kw		7.5/11	7.5/11	11/15
Spindle			BT40	BT40	BT40
Guideway Type			Rollar Guideways	Rollar Guideways	Rollar Guideways
Rapid Traverse Rate	m/min		30	30	30
Cutting Feed Rate	m/min		10	10	10
Auto Tool Changer Type			Arm Type	Arm Type	Arm Type
Toot Capacity			20	20	20
Max. Tool Length	mm		250	250	250
Max. Tool Weight	kg		8	8	8
Tool Diameter (with Adjacent Tool)	mm		80	80	80
Tool Diameter (without Adjacent Tool)	mm		125	125	125
Positioning Accuracy	mm		0.008	0.008	0.008
Positioning Repeatability	mm		0.005	0.005	0.005
Machine Weight (with ATC) (Approx.)	kg		4500	4800	5200
Power Requirement	kva		15	20	25
Machine Dimensions (Approx.)					
	Width	mm	2150	2450	2800
	Length	mm	2700	2710	2750
	Height	mm	2660	2660	2700

* Depends upon clamping arrangement, tooling, and job.

Note: All specifications are subject to change without prior notice.

STANDARD ACCESSORIES / FEATURES

- 10.4" Display
- Mitsubishi M80V, Fanuc 0iMF Plus, Siemens 828D Controller (Any One)
- 20 Tool Arm Type Tool Changer
- Belt Driven Spindle
- Roller Guideways on all Axes
- Air Conditioning for Electric Panel.
- Coolant System
- Oil Coolant Separator
- Chip Tray - Rear
- Automatic Lubrication System
- Leveling Pad

OPTIONAL FEATURES

- Rotary Table
- Increased Daylight Area
- Coolant Gun
- Chip Conveyor
- Tooled-Up Solutions
- Spindle Speed 10000/12000 RPM

HELIX-20

The HX-20 is a compact, high-performance machine designed for exceptional precision and stability in machining applications. Its sliding headstock enhances adaptability for complex geometries, supported by a robust tooling system with 21 tools, including gang and rotary tool posts. It features a maximum machining diameter of $\varnothing 20$ mm ($\varnothing 25$ mm optional), spindle speeds up to 8,000 rpm, and a rapid feed rate of 30 m/min. Capable of machining diverse materials like stainless steel, brass, and titanium, the HX-20 provides flexibility, efficiency, and superior results across industries.



TECHNICAL SPECIFICATION		
Max. machining diameter (D)	$\varnothing 20$ mm ($\varnothing 25$ option)	
Max. machining length (L)	GB: 200 mm/chucking (170 mm: $\varnothing 25$ spec.) NGB: 2.5D	
Spindle through-hole diameter	$\varnothing 25$ mm	
Main spindle speed	Max. 8,000 rpm	
Spindle speed of the gang rotary tool	Max. 5,000 rpm (Rating 4,000 rpm)	
Max. chuck diameter of back spindle	$\varnothing 20$ mm ($\varnothing 25$ option)	
Back spindle speed	Max. 8,000 rpm	
Number of tools to be mounted	21	
Tool size		
Tool (gang tool post)	12mm	
Sleeve	25mm	
Chuck and bushing		
Main spindle collet chuck	TF25 (TF30: $\varnothing 25$ mm)	
Back spindle collet chuck	TF25 (TF30: $\varnothing 25$ mm)	
Rotary tool collet chuck	ER16	
Chuck for drill sleeves	ER16	
Guide bushing	TD25NS (CD25: $\varnothing 25$ mm)	
Rapid feed rate		
All axes (except X1)	32 m/min	
X1 axis	30 m/min	
Motors		
Spindle drive	2.2 / 3.7 kW	
Tool spindle drive	0.75 kW	
Back spindle drive	2.2 / 3.7 kW	
Air pressure & air flow rate for pneumatic devices	6 Bar	
Weight (Approx.)	2250 Kg	
Machine Dimension (Approx.):		
	Width	2220mm
	Length	1250mm
	Height	1840mm

* Depends upon clamping arrangement, tooling, and job.
Note: All specifications are subject to change without prior notice.

Standard accessories:

- Main spindle chucking device
- Back spindle chucking device
- Rotary guide bushing device
- Cut-off tool breakage detection
- Workpiece Collector
- Coolant unit with level indicator
- Lubricating oil supply unit
- 3-color signal tower light

Optional accessories:

- Fixed guide bushing device
- Long workpiece unit
- Workpiece conveyor
- Chip conveyor
- Coolant flow rate detector



HARDIK CNC AUTOMATION

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All specifications are subject to change without prior notice. Our machines precisely adhere to specified parameters; however, their actual appearance may vary from catalog images due to optional features. For further information, kindly refer to the accompanying documentation or reach out to our assistance team.