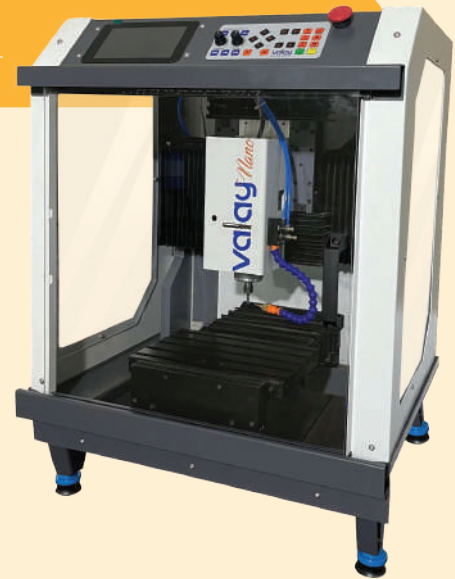


Manufacturing Engraving and Mini VMC

# India's first Mini VMC Manufacturer with in-house developed CNC controller



**valay** Nano



**valay** Mini

## Key Features

- In-house developed CNC control system
- User friendly interface
- Cost effective with high ROI
- ATC available
- Up to 5 axis configuration available
- Program transfer by WiFi/Ethernet
- Industry 4.0 ready
- Low maintenance
- Prompt service support
- Robust double column structure
- Suitable for Engineering/teaching institutes

## Applications

- Toys die
- Keyway machining
- Vacuum forming dies
- Precision electrodes
- Machining of all kind of engineering plastics
- Engraving(Jewellery, Letter work etc.)
- Brass parts machining
- All type of dies
- Rubber moulds
- Watch cases
- Aluminum handles
- Small metal parts machining
- S.S. handle groove cutting
- Aluminum patterns Dies/Moulds Automobile parts
- Wooden patterns
- Acetate Frame
- Ceramic tiles die
- Mobile cover dies
- Decorative hardware items
- Chocolate and biscuit moulds



Small components



Religious Die



Engraving Die



Plastic Mould Die



Mobile Cover Die



Micro Drilling



Acetate frames



Jewellery Die



Textile Cutting Die

## Technical Specifications

	UNIT	Valay Nano		Valay Micro		Valay Mini	
Table							
Work Table	mm	300x200		500x350		650x490	
Machine travel	mm	300x200x150		450x300x250		600x450x300	
T slot Dimension	mm	20x13x9		25x13x9		25x13x9	
Axis							
Axis Types	-	Ac servo		Ac servo		Ac servo	
Rapid Velocity	mm/min	10000		10000		10000	
Spindle							
Spindle RPM	rpm	24000	6000	8000	24000	8000	24000
Spindle power	KW	0.8	1.8	2	2.2	2.2	2.2
Spindle type	-	Manual (Air Cooled)	ISO 20 (Water Cooled)	BT30	ISO 20 (Water Cooled)	BT30	ISO 20 (Water Cooled)
Motor Type	-	Electro Spindle		Servo	Electro Spindle	Servo	Electro Spindle
Tool							
Max tool dia	mm	6(ER 11)		20 (ER 32)	13 (ER 32)	20 (ER 32)	13 (ER 32)
Accuracy							
Positioning	mm	0.010		0.010		0.010	
Repetability	mm	0.010		0.010		0.010	
Other Specifications							
Machine weight	kg	150		800		1400	
Electrical rating	kVa / Phase	2/Single	3/Single	5/options	5/options	5/Three Phase	5/Three Phase
Coolant System	-	Mist		Mist/Flood	Mist	Mist/Flood	Mist
Lubrication System	-	Manual		Automatic		Automatic	

### Standard Features

- Valay make 5 axis controller
- LM guide ways (roller type)
- Hiwin/THK/PMI make axis components
- Graded aluminium / mild steel / CI
- 7" touch screen
- Machine operating panel
- Wireless pendant

### Optional Features

- Z probe
- 3D probe
- Automatic tool change
- 4/5th axis rotary table
- Spindle chiller

## Company Profile

Engilabs Laser Technology is a leading manufacturer of mini VMC and CNC Engraving machines in India since 2013. Due to the market need of low-priced industrial quality CNC machines, company ventured into first of its kind mini VMC machines range in India to cater to the highly competitive and uncertain market of engineering industries.

We selected “valay” as our brand name which is a Sanskrit word describing round geometry or curvature. As the name denotes, our machines are expert in machining precision curvature geometries. This makes these machines most suitable for manufacturing dies, patterns, machined components, brass parts, engraving jobs and many more applications.

### **Vision:**

To be India’s most trusted brand of mini VMC and CNC engraving machines by 2028.

### **Mission:**

To make our customers rich by offering best quality products with ultimate service experience at an affordable price.

### **About the founder:**

Team “valay” is led by Ravi Karoria who possess vast experience of more than 21 years including 6 years in ISRO project, 4 years as Plant Head at Electrotherm, Ahmedabad and 6 years as R & D Head at SLTL Limited, Gandhinagar.

He is M.S. (Manufacturing Management) from BITS-Pilani backed by B.E. (Production) from LEC-Morbi. His achievements also include a patent as a chief inventor of “inclined solar parabolic trough” collector system.

## Contact Us

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