

## Showcase



### ...exploring creativity

N-Gravetek manufactures 3-axis, 4-axis & 5-axis CNC Engraving & Micro-Milling Machines. Founded in 2008 in a small rented apartment of 700 sq. ft. in heart of Nashik city; we have now grown to a 10000 sq. ft. premises located in Satpur MIDC.

With over 180+ installations all over India, we have wide range of products and services with unmatched industry expertise to enable our customers meet their challenges in 3-axis, 4-axis and 5-axis applications. Our Micro-Milling & Engraving Machines are most suitable for molds which require work with high precision.

We have a dedicated demonstration centre at which our engineers not only demonstrate the various possibilities of our Engraving & Micro Milling solutions but also emphasize on demonstrating as per customer need.

A talented and dedicated team is what helps N-Gravetek remain committed to providing the best pre and post sales service support for our customers.

D-44, Street No.: 10, M.I.D.C. Satpur  
Nasik-422007 Maharashtra, INDIA

+91-8446122914 / +91 7888191643  
+91 9881122914 / +91 9881469232

support@ngravetek.com  
sales@ngravetek.com

**N-GRAVETEK™**

[www.ngravetek.com](http://www.ngravetek.com)



MANUFACTURER OF  
3 AXIS / 4 AXIS / 5 AXIS  
DESKTOP ENGRAVING &  
MICRO-MILLING MACHINES

DESKTOP SERIES

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# CNC Micro-Milling & Engraving Machine - NGK-DE / DE(S)-1515 / 2020 / 6020

## Models Comparison Table



### Quality, Durability, Consistency

#### Standard Accessories

Clamp Set	2 Nos
Spanner (Required Sizes Only)	2 Nos
N-Gravetek Signature 4GB Pen Drive	1 Nos
Collets 4mm	1 Nos

#### Upgraded Accessories

Spindle Power 2.2KW @ 24000 RPM
PC Based Controller
Suitable PC Required for PC Based Controller
Integrated Embedded System

#### Optional Accessories

Coolant System
Industrial Spindle Chiller
Z - Presetter - Calibrator
2" (Width) 3" (Opening) Precision Vice
Stabilizer / 10 min. Power Back UPS
Rotary Axis / 4th Axis / 5th Axis
V-Bit - Engraving Tools
Tool Grinding Machine (Training @ Nashik Works)

Description	NGK-DE / DE(S)-1515	NGK-DE / DE(S)-2020	NGK-DE / DE(S)-6020
Working Area-(X) x (Y) x (Z)	150 X 150 X 150	200 X 200 X 150	600 X 200 X 150
Table Size- Clamping Area	260 (X) X 260 (Y)	310 (X) X 310 (Y)	710 (X) X 310 (Y)
T-Slot Size	M10		
T-Slot Center Distance	54 mm	71 mm	122.6 mm
Engraving Speed	2000 mm/min		
Rapid Speed	3000 mm/min		
Spindle Speed	40000 RPM		
Spindle Power	1.2 KW		
Maximum Tool Diameter	6mm (Soft Material) & 4mm (Hard Material)		
Guide System	Linear Motion Guide		
Drive System	Ball-Screw		
Motor / Drive	Stepper Motor / Servo Motor		
Standalone Controller	(DSP) Digital Signal Processor		
Internal Memory	128 MB		
Expandable Memory	8 GB		
USB Connectivity	YES		
Machine Self Zero	YES		
User Work Zero	6		
Auto Spindle On/Off	YES		
Tool Break Point Resume	YES		
Power Resume Function	YES		
NC File Format	ISO G-Code (Standard)		
Accuracy	0.020mm		
Repeatability	0.020mm		
Resolution	0.015 mm (Stepper Motor) / 0.010 mm (Servo Motor)		
Feeding Height	150 mm (Customisable)		
Safe Weight on Table	60 Kg	80 Kg	120 Kg
Weight of Machine	300 Kg	425 Kg	600 Kg
Floor Space - L x D x H	1070 x 730 x 1000	1200 x 730 x 1000	1200 x 1200 x 1000

# Unit not specified are in millimeters

#### Can Micro-Mill & Engrave on:

Steel up-to 58 HRC (D2, WPS, OHNS, EN Series). Graphite, Aluminum, Brass  
Copper, Silver, Bronze, Gold, Wood, Acrylic, Corian, Resin, Plastic etc.



Ball-Screw



LM Guides



Proximity Sensors



#### Machine Highlights:

- Compact Mini Desktop Micro-Milling Engraving Machine with very less floor space required.
- Most economical & powerful CNC engraving machine in our product line.
- Complete cast iron foundry body with virtually no vibrations which gives better surface finish & better tool life.
- Time Proven, Sturdy and Versatile Full Digital CNC Precision Micro-Milling / Engraving Machine.
- Machine future ready for 4th axis for doing Micro-Milling & Engraving operations on cylindrical work piece.
- Closed loop control system with possibility to save 6 work origins.
- Standalone machine with USB compatibility. No need to connect to PC.
- DSP based programmable multi-axis simultaneous 3-axis CNC controller.
- Ball Screw with LM guide-ways enables higher rapids and better productivity.
- Easy to operate using simple & user-friendly handheld keypad
- Compatible with broad range of CAM software's
- Very low machine running cost due to less power consumption & low maintenance.

