**Modeling with your computer
and Modeling software/CAD software/
CNC commands**

Mimaki

NC-5
Modeling Machine

Main Features

- Maximum modeling area: 483×305mm (19×12")
- Support of HP-GL*1 and G code enables the NC-5 to work with various modeling software/CAD software and CNC commands.
- Mechanical Resolution: 0.5μm
- High Horse Power: 1HP(750w)
- Simultaneous 3-axis linear interpolation command for smooth and speedy 3D modeling.
- Models on metals as well as plastics.
- Rigid construction and precisely controlled servo motors for all X, Y and Z axes provide very accurate modeling.
- Coolant can be applied while modeling.
- Collet spindle can use modeling tools (up to 10mm (0.4") shank diameter)
- T-slot table and Vacuum table options are available.
- Z stroke is 110mm (4.3")
- Handy operation panel for ease of use.

Modeling Machine NC-5

Mimaki

Maximum modeling area: 483×305mm (19×12")

The NC-5 modeling machine can accept materials up to 520mm (20.5'') in width by unlimited length.

Open architecture

NC-5 supports HP-GL[1] and G code[2] as standard. Using current modeling software, CAD software, as well as CNC commands, the creatively of your work is limited only by your imagination.

Collet spindle

Modeling tools (up to 10mm (0.4'')shank diameter) can be used with simple process.

3D Modeling

Simultaneous 3-axis linear interpolation command enables smooth and speedy 3D modeling.

Accurate modeling

Mechanical resolution $0.5\mu m$ for X, Y and Z axes along with the precise collet spindle action provides maximum accuracy in modeling.

Various materials' modeling

NC-5 can model on metals and plastics.

T-slot table and vacuum table

T-slot table and vacuum table are convenient to hold various items, thin items etc.

Use of coolant oil

Coolant oil can be used while modeling metals as well as plastics. Using coolants extends cutter life and produces smoother cuts.

110mm Z stroke

Z stroke is 110mm (4.3'') which allows the machine to set materials up to 130mm (5.1'')

Plate jig (Item code: SPA-0051 for general usage, SPA-0033 for fixing nameplate.)

Plate jig attached on center vise allows you to measure and position materials table.

Copy function

This function will allow the machine to copy stored data in the memory buffer repeatedly.

ZS sensor (Optional: Item code OPT-C0101)

By using ZS sensor, you can easily and precisely detect the Z origin point wihtout damaging materials.

Optional items

Besides standard cener vise, T-slot table (OPT-C0103) and vacuum table (OPT-C0096) are available as optional items.

SPECIFICATIONS

Model			NC-5
X-Y Axes	Working surface		483mm×305mm (19''×12'')[3]
	Maximum Material Size		520mm×Unlimited (20.5''×Unlimited)
	Speed	Modeling	0.5-80mm／sec (0.02''～3.1''／sec)
		Moving	0.5-80mm／sec (0.02''～3.1''／sec)
	Acceleration		0.3G
	Mechanical resolution		$0.5\mu m$
Z Axis	Z stroke		110mm (4.3'')
	Maximum Material Height		130mm (5.1'')
	Speed	Modeling	0.5-80mm／sec (0.02''～3.1''／sec)
		Moving	0.5-80mm／sec (0.02''～3.1''／sec)
	Mechanical resolution		$0.5\mu m$
Command			MGL-ⅡC3, G[4]
Spindle	Maximum Rotation		15000rpm
	Adjustable step		Stepless adjustment 2,000-15,000 rpm
Positioning			JOG Key or JOG Dial
Maximum material weight			10kg
Method of setting Endmill			Collet Chuck
Programmable Steps			$25\mu m$ or $10\mu m$ (MGL-ⅡC3), $1\mu m$ (G)
Maximum Shank Diameter of Endmill			10mm (0.4'')
Receiver buffer size			1MB
Interface			RS-232C

Model	NC-5
Table flatness accuracy	0.2mm
Distance accuracy	±0.15mm or ±0.05% of moving distance
Perpendicularity	±0.3mm／300mm
Repeatability	0.05mm
Origin repetition accuracy	±0.1mm
Power consumption	1,400VA or less
Power requirement	AC 100-120／220-240V 50／60Hz (Changed by Tap)
Operation enviorment	5-40℃ 30-75% (Rh) No Condensation
Dimensions (W×D×H)	725mm×755mm×660mm (Body)
	285mm×505mm×162mm (Controller)
Weight	70kg (Body)
	25kg (Controller)

*1 HP-GL is trademark of Hewlett-Packard Co.
*2 G code for CNC commands.
*3 On the base table without setting any vise and table.
*4 (a) MGL-ⅡC3 is compatible with HP-GL command.
(h) G for CNC commands.

The specifications are subject to change without prior notice.

All trade marks or registered trade marks are the property of respective owners.