

# CNCmakers Limited

Address: No.168, Xiadu Road, Haizhu District, Guangzhou, China 510300

Email: [info@CNCmakers.com](mailto:info@CNCmakers.com) Website: [www.CNCmakers.com](http://www.CNCmakers.com) Tel: +86-138-24444158 Fax: +86-20-84185336

## 1000MII & 1000M4II MILLING CNC CONTROLLER

1000MII & 1000M4II from CNCmakers Limited, are superior CNC systems for milling machine and machine center, which adopt with high performance 32-bit microprocessor, new structure design and open PLC process. They are employed with 8.4 inch color LCD display. They can control 3/4 feeding axes, 3/4 simultaneously controlled axes. They can be matched with SD or YASKAWA Digital AC servo driver. 1000MII & 1000M4II are suitable for CNC Milling Machine and Machine Center.



- Adopt 32-bits powerful CPU to achieve high-speed, high-precision control. The maximum speed reaches up to 30 m/min
- 7.5/8.4 inch TFT LCD with the resolution of 640x480.
- Six layer main board applying custom-build FPGA, high integration technology, perfect structure design ensures that the system has high reliability and high anti-interference capability.
- Support the open-style PLC function to meet the secondary development of the machine tool builder.
- Two types of machine control panels including the standard panel with film-buttons and one with pushed buttons are available. On the later one the functions of the 50 pushed buttons and 50 lamps are able to defined by customs.
- Remote I/O modules based on CAN bus can be use to extend the number of I/O points up to 512/512.
- English operation interface and full help information make the operation more conveniently.
- Perfect self-diagnosis function. Display the internal and external states in real time and alarms will be issued timely when some abnormality happen.
- Powerful instruction execution ability to achieve the high-speed, small-line-section machining
- High-speed DNC machining are available based on the transmit rate reaches up to 115200 bps and large program buffer space.
- 640 kB internal program memory space. U-disk port can be use to extend the space of program and to perform DNC machining.
- Rich NC functions: macro program B, rigid tapping, local coordinate system, coordinate system rotation, coordinate scaling, polar coordinate system, etc.

# CNCmakers Limited

Address: No.168, Xiadu Road, Haizhu District, Guangzhou, China 510300

Email: [info@CNCmakers.com](mailto:info@CNCmakers.com) Website: [www.CNCmakers.com](http://www.CNCmakers.com) Tel: +86-138-24444158 Fax: +86-20-84185336

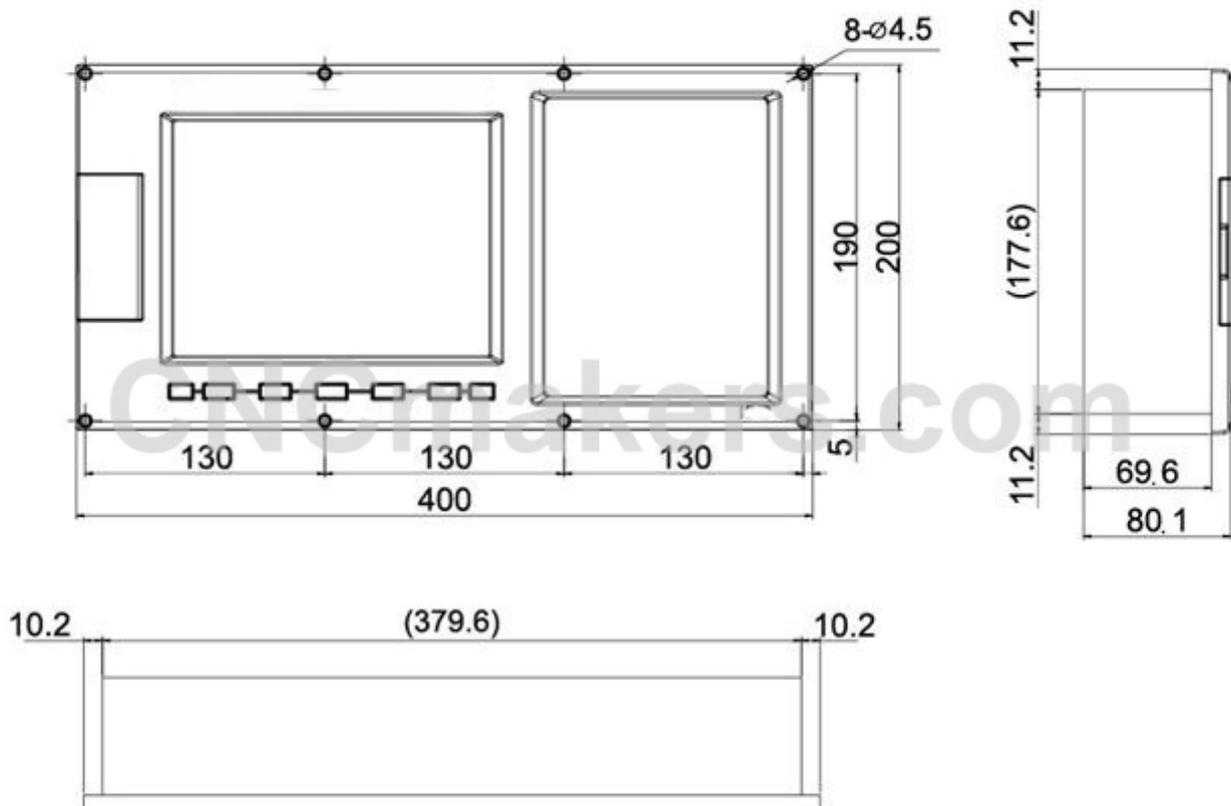
Function	Specification		Function	Specification
Model	1000MII	1000M4II	Program	Absolute / incremental mixture programming. Decimal point function in programming
Axis	X、Y、Z	X、Y、Z、4	Workpiece coordinates	G54~G59
Interpolation axis number	3	4	Subprogram calling function	Provided
Interpolation	Linear interpolation, arc interpolation, helical line interpolation, polar coordinate interpolation(optional)		English and metric unit exchanging	Provided
Least setting unit	0.001 mm or 0.0001 mm		Communication	RS232
Largest command dimension	±99999.999 mm			
Maximum rapid traverse rate	30000 mm/min		Remote control	Transmitting PLC program, machining program, parameters, etc.
Maximum feed rate	15000.000 mm/min 30000 mm/min (optional)		U-disk interface	Provided
Feed rate override	JOG/AUTO: 0~150%		Macro program	Macro A or Macro B
			Emergency stop and stroke limit	Standard PLC program supports three emergency stop signals. Both stored stroke limit and hardware stroke limit are available.
Program memory space and electric disk	640 kB, 128, 3 640 kB, 512, 3 (optional)		Alarm	PS alarm, Servo driver alarm, Exceed stroke limitation alarm, System error alarm, External alarm
Interface	7.5/8.4 inch TFT LCD			
	Revolution: 640x480		Acceleration/deceleration control	Linear and exponential type control
Additional interface	Additional panel, Independent operation box		Reference position return	Provided
Display	Coordinate value, machining time, workpiece count, date, feed rate, etc.		Electrical gear ratio	1~127, 1~127
Graph function	Tool path displaying		Machine control	Machine lock Feed hold Block skip
PLC	Open-style PLC		Feed control	AUTO, JOG, STEP, HANDLE
Tool compensation	Tool length compensation Tool tip radius compensation		DI/DO	DI: 40 DO: 24 DI/DO points can be extended by CAN bus
			Driver	Digit AC servo driver
Backlash compensation Pitch-error compensation	Provided		Tool length offset value	32
Spindle function	Gear shifting control Analog spindle control Rigid tapping control		Tool control	Controlled by PLC program
Miscellaneous functions	Control the spindle rotation, coolant, lubrication, in JOG /MDI /AUTO mode		Cycle for drilling, tapping and boring	Provided
			Plane selection	G17/G18/G19
			DNC machining	With RS232 or U-disk

# CNCmakers Limited

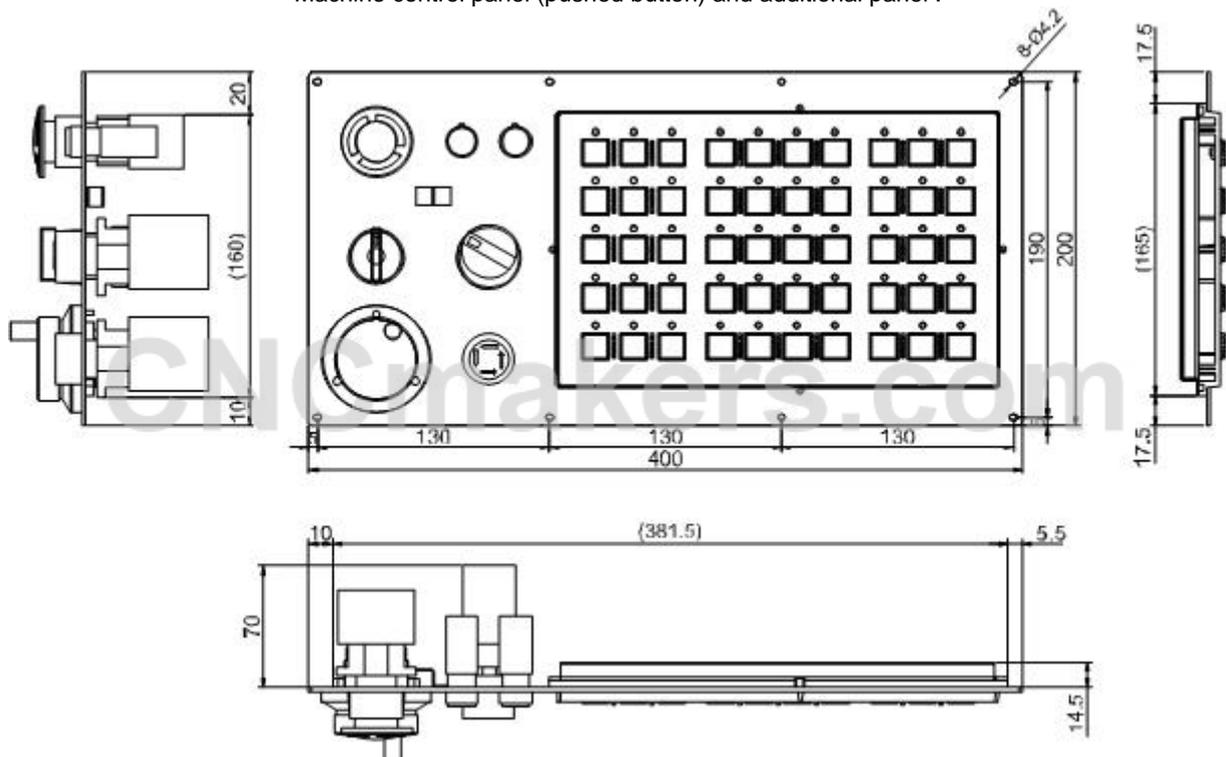
Address: No.168, Xiadu Road, Haizhu District, Guangzhou, China 510300

Email: [info@CNCmakers.com](mailto:info@CNCmakers.com) Website: [www.CNCmakers.com](http://www.CNCmakers.com) Tel: +86-138-24444158 Fax: +86-20-84185336

## Dimension



Machine control panel (pushed button) and additional panel :

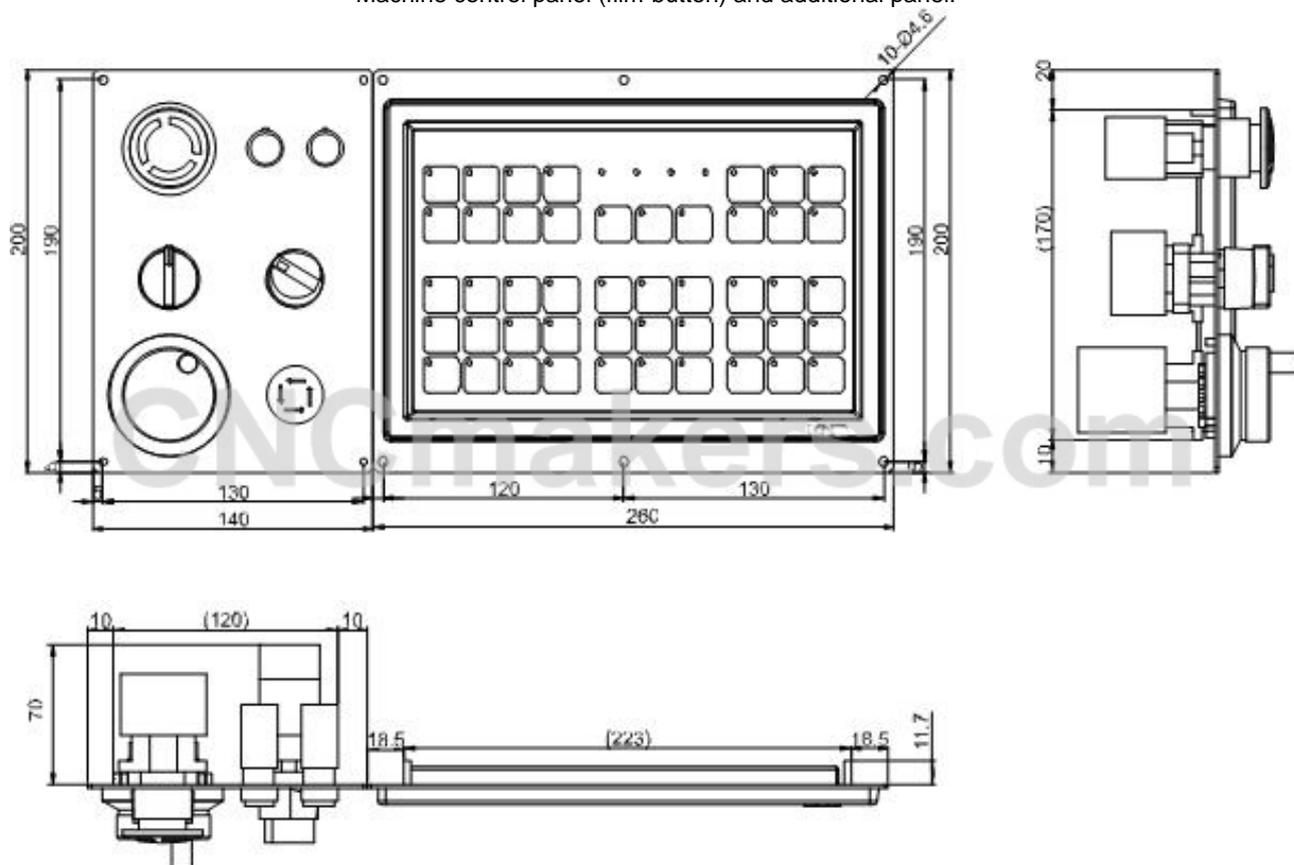


# CNCmakers Limited

Address: No.168, Xiadu Road, Haizhu District, Guangzhou, China 510300

Email: [info@CNCmakers.com](mailto:info@CNCmakers.com) Website: [www.CNCmakers.com](http://www.CNCmakers.com) Tel: +86-138-24444158 Fax: +86-20-84185336

Machine control panel (film-button) and additional panel:



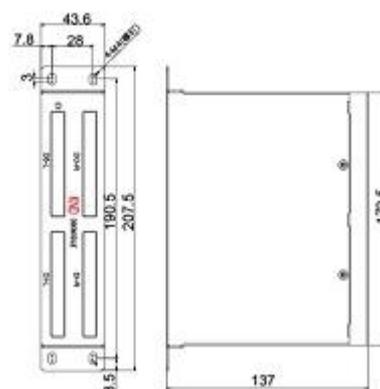
# CNCmakers Limited

Address: No.168, Xiadu Road, Haizhu District, Guangzhou, China 510300

Email: [info@CNCmakers.com](mailto:info@CNCmakers.com) Website: [www.CNCmakers.com](http://www.CNCmakers.com) Tel: +86-138-24444158 Fax: +86-20-84185336

Remote IO module:

Remote IO module D1/D2



Remote IO module A1/A2

