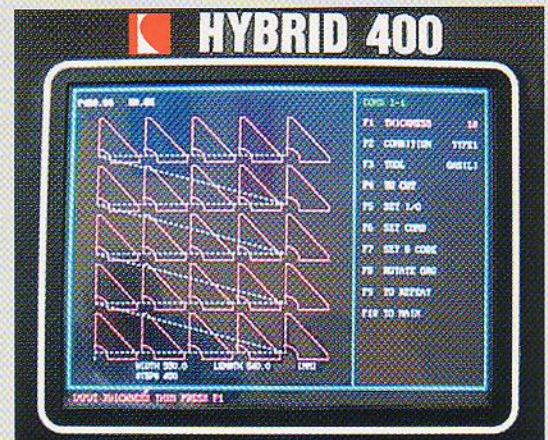
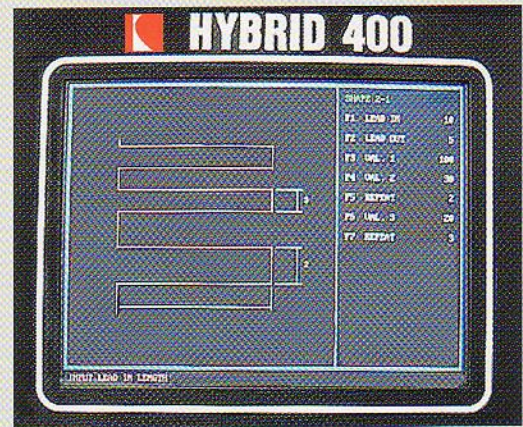
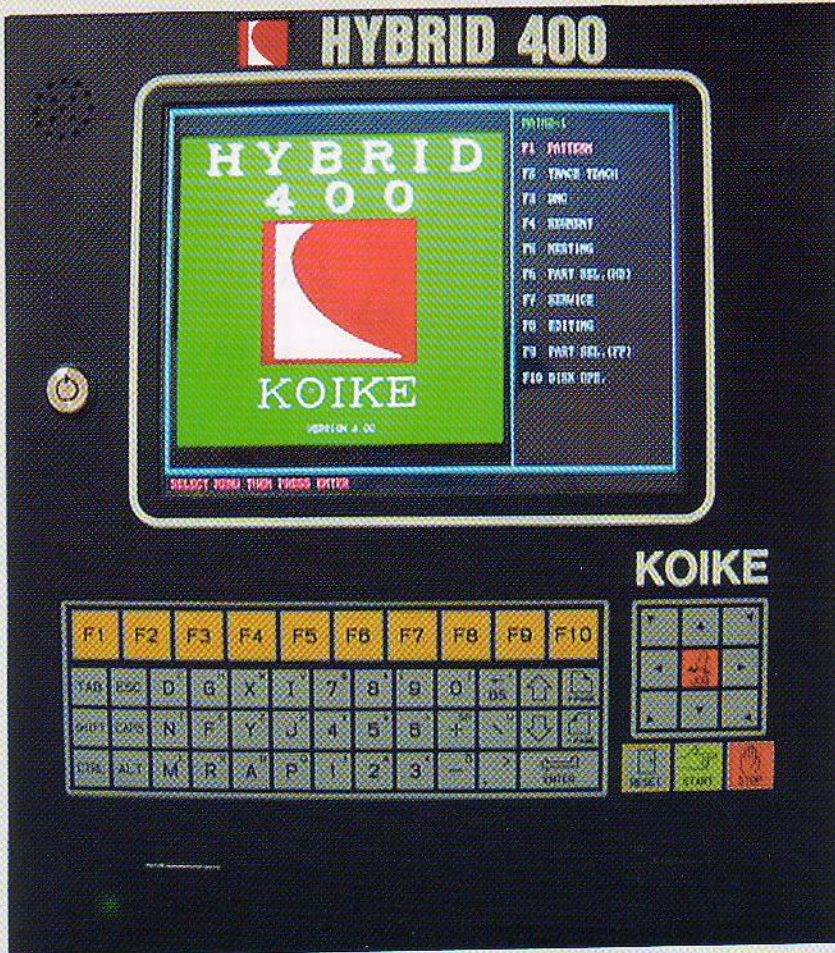


A POWERFUL, HIGH QUALITY, STATE OF THE ART CNC CONTROLLER



# HYBRID 400



CNC controller with 10.4 inches color liquid crystal graphic display. In addition, it became easy to use. The labor saving and the efficiency improvement of cutting can be promoted more than before and greatly.

**HYBRID-400 can be installed in gas/plasma cutting machine of all types. Even the beginner can immediately easily use the operation because of the interactive type.**

■ **Pattern input**

60 kinds of pattern figures are built into. The NC data is generated by inputting the dimensional values of incorporated patterns.

■ **Trace teaching input**

The NC data is generated according to the information about the locus traced by the tracer mounted on the cutting machine.

■ **Segment input**

NC data is generated by the numerical input of travel on a block basis from the screen.

■ **Nesting**

The parts registered in the built-in silicon disk are placed on the screen to generate NC data.

■ **Disk operation**

The incorporated floppy disk is used to copy the parts into the silicon disk and vice versa, or to give initialization.

■ **NC data edition**

NC data can be edited from the operation panel at a language level.

■ **Rotation of co-ordinates**

The inclination is calculated by detecting two points on the tilted steel plate, and the data is rotated so as to match the steel plate.

■ **External input/output (Option)**

The CNC unit is connected by external devices including IC card reader and by RS232C to send and receive NC data.

■ **Network (Option)**

Data can be shared by using the Ethernet to connect to the host computer (KAP9030N).

■ **Option pattern (Option)**

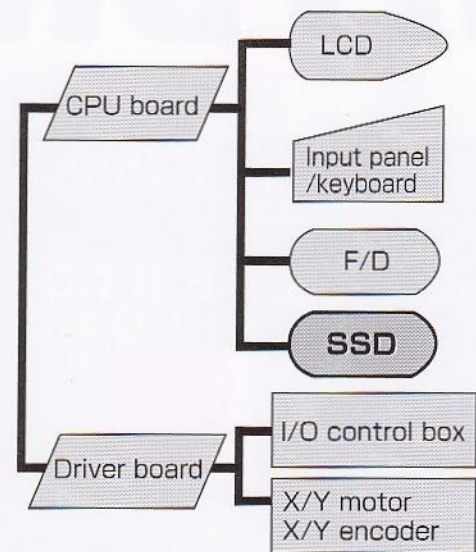
When patterns other than a basic pattern are necessary, you can order.

# HYBRID-400

## Specifications (English version)

Memory	Silicon Disk (32 Mb)
Parts registration	300pcs. (Within silicon disk capacity)
Capacity of NC data	8,000 lines in NC data
Repeating times	99 cycles (Subject to the capacity capable of cutting)
Kerf compensation	0-9.9mm
Speed rate override	0-200%、5% pitch
Min. input increment	0.01mm
Max. programmable dimension	999,999.99mm
Max. travel speed	depends on the cutting machine speed
Preheating time	999seconds
Servo output system	X/Y two-axis control
Positional detection system	X/Y pulse encoder (Line receiver type)
Display panel	10.4 inch color LCD
Key panel	Full rustproof type seat key
Floppy disk	3.5 inches (F/D) 720-kilobyte/1.44 megabytes
Inch/metric conversion	Both systems shall not be mixed
Input functions	Pattern input (60 patterns)
	Trace teaching input (The tracer is necessary.)
	Network input (The optical fiber cable is necessary.)
	Segment input
	NC format (EIA or ESS1)
Working conditions	0°C-45°C, Humidity (Relative humidity) 75% or less
Power supply	AC100/110V±10% 50/60Hz
Outside dimensions	W360mm×D300mm×H420mm, 18kg

## Equipment configuration



HYBRID 400 can be mounted on the following KOIKE cutting machines

- IK Optical Tracing Machines
- MAXIGRAPH
- VERSAGRAPH
- SUPERGRAPH-200
- KADTEX

## Functions

### ■ Operation

- ① Straight cutting function (Eight directions)
- ② Repeat function
- ③ Dry run function
- ④ Coordinate rotation
- ⑤ Speed rate override
- ⑥ Gas control (Depending on the machine specification)
- ⑦ Plasma control (Depending on the machine specification)

### ■ Reverse function

- ① To start position
- ② To piercing point
- ③ Tip change during cutting or reverse of cleaning
- ④ Reverse of locus

### ■ Self-diagnosis function

## Options

- Data conversion function
- Scaling function
- Scheduling operation
- NC data line start function
- Network
- Operation results data display function
- TODAC5 (Automatic torch spacer)
- External input/output
- Option pattern
- Trace teaching input



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