

HC6500 cutting cnc motion control system controller

ADT-HC6500 is 10.4 inch display screen CNC Flame/Plasma controller, strongly anti-interference, which can control 2 sets or more of Hypertherm plasma sources without any interference. This Plasma CNC controller passed CE and IS9001 certificates. It can be applied in high precision bench/gantry type plasma / flame cutting machine.

Feature

- ARM9 industrial Processor, embedded system of highly cost performance;
- 10.4 Inch industrial Colorful LCD display;
- 2(support 3 pulse port output--dualdrive) Axis step/servo motor control;
- Multi-language compile;
- Support Wireless MPG;
- Support capacitive/lilasma torch height controller;
- Support Multi-gun running simultaneously, and Axis dual drive;
- Single program can store 50000 lines of instructions and processing code;
- Software & hardware Alarm function, user friendly & safety operation;
- Customized software by user's request;
- One-key storage & restore function.

Components:

Controller + Data line +Connectors

Optional parts:

Nesting Software + Wireless MPG ADT-HC4A

Function:

Software Function:

- - Perfect flame / plasma cutting processes;
 - Support numerous functions, including time delay, preheating, perforating, changing nozzle, moving parts, lift adjustment, displacement perforating, partial image zoom-in, and view;
 - Perforation point selection is supported;
 - With suspended function; it can go back to the suspended position and continue carrying out the program if there is movement after the pause;
 - Track continuous backing function is provided;
 - With plasma arcing detection, initial positioning, and turning signal control functions;
 - Break point recovery function, featuring power-off protection during the processing;
 - Graphic library contains a great number of part figures, which can be edited to generate programs automatically. Rectangle edge-sharing function is supported;
 - Figure processing functions enable it to carry out such functions on figure being processed as rolling, X and Y mirror, line selection, point selection, steel plate calibration, size, array, derangement, and zoom in/out;
 - Figure display function, capable of displaying real-time track;
 - Capable of programming; nest processing files and writing G code are adopted;
 - Perfect and stable file system; the USB disk can read file or folder directly, featuring convenient on-scene operation;
 - With diagnosis function, helping customers settle the machine problems quickly;
 - Capable of controlling 4 stepping/servo motors at the same time, double axes can be synchronous, or the 3rd and 4th axis functions can be developed once again according to the actual demand;
 - System default setup and restore functions can better protect the system parameters;
 - Enable to custom the input and output terminals to improve the system performance, benefiting the future maintenance;
 - User-defined M compound instruction code is supported to expand the processing technologies of the system;

- Support input methods in many languages, which would be better to identify the file name;
- User-friendly operating interface with wizard or menu function is adopted;
- Perfect gap compensation function;
- Flexible switching of locking and inching is supported;
- 10.4 inch color LCD display, with user-friendly and easy-to-use operating interface.

Application environment:

- Power supply: 88~264VAC, 125~373VDC;
- frequency: 47~63Hz;
- Typical value: AC220V 50HZ;
- Power consumption: No-load power consumption <15W;
- Operating temperature: 0°C~-60°C;
- Storage temperature: -20°C~80°C;
- Operating humidity: 20%~95%;
- Storage humidity: 0%~95% .

Hardware Function:

- SANSUNG series S3C2410A processor (ARM9), primary frequency: 200MHz;
- Adopt the super large programmable FPGA, real time multitask control technology and hardware interpolation technology, ensuring a high stability during the operation;
- With reasonable process structure, cooperating with all photovoltaic isolation control, and featuring powerful anti-interference performance;
- With 64M SDRAM;
- With 64M Nand FLASH ROM (data storage, 50M can be simulated as USB disk);
- Support USB1.1 equipment interface;
- Support USB host-port interface (capable of reading USB disk);
- Support TCP/IP network interface;
- Four-channel stepper/servo motor pulse photovoltaic isolation output, maximum frequency 2MHz;
- Frequency error of pulse output is less than 0.1%;
- Pulse output can be single-pulse (pulse + direction) or double-pulse (pulse+ pulse) mode;
- Any 2-4 axes linear interpolation;
- Linear acceleration/deceleration;
- Stepper motor or servo motor is provided. High micro-stepping driver is used, with high precision and stable operation, capable of reading real-time logic position, actual position, and driving speed during the operation;
- RS232 (± 15 KV electrostatic protection);
- Capable of programming on-line with only a serial port cable and a USB cable; no coder is needed;
- Capable of connecting external keyboard;
- With buzzer alarm;
- 10.4 inch color LCD display, with user-friendly and easy-to-use operating interface.



