

esa



CNC 5505

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Combines powerful graphics with the solid structure of embedded products, making Plasma and Oxyacetylene cutting machines both tough and versatile. It speeds up the programming and operating times of the cutting process. The Retrace and Repos functions have been specially researched to suit the requirements of these machines. They allow particularly complex nesting layouts to be carried out, dealing with all the exceptions and optimizing the production times to the utmost.

Machine configurations available

- Bridge with gantry axis
- 2 autonomous Plasma Torch (second is optional)
- Up to 8 oxycut torches with both automatic or manual handling
- Automatic oxycut torch packing cycle (optional)
- Gas proportional valves handling for Oxy-cut.
- Up to 16 exhaust fan
- Mobile exhaust fan, in electrical gearing with the gantry
- Pneumatic drilling head
- Pneumatic marker

Main functions

- Windows® like user interface
- Integrated dynamic control of the torch height, able to react to surface unevenness (THC).
- Metal plate anti-collision system.
- In-process adjustment of cutting height controlled by the operator.
- Rectangular nesting on machine with parametric library.
- Retrace and Repos functions and cutting restart with off-workpiece, tangential or linear lead-in insertion
- Auto-learning of plate origin and rotation, and up to 20 machine origins.
- Work starting line search (Block Search) with graphic collimation of the restarting point.
- Restart of the cutting line after a blackout interruption.
- Recover of an arc loss.
- Manual cut (even in bevel).
- High speed dryrun function for cutting area verification
- Technological parameters Database classified for material and thickness.
- Automatic gas console with digital bus connection to the generator
- Cutting layout displayed with dynamic graphic of torch path.
- Full screen Dynamic piece graphic display,
- Probing method for acquiring the metal plate thickness: via electric signal (ohmic contact) or digital input.
- Laser pointer for origin acquisition.
- Direct access to the main machine state.
- ISO program executor generated by main CAD/CAM functions.
- Programs executed by means of network, Hard Disk, USB and Drip

- Monitoring of torch tip and consumables materials with customized alarm signals.
- Log file with automatic service monitoring.
- PLC customizable by manufacturer, with IEC61131-3 language with functional block in IL or C
- Off-line programming on a standard PC, using a special simulation add-on
- Customizable Alarms Messages

General specifications

- 24Vdc 150W max power supply
- 7" Color LCD TFT colour display with antiglare screen
- Dedicated scratchproof, oil-proof IP65 keyboard with 85 keys, 18 softkey, 5 status keys and 4 command keys
- Override regulation by electronic wheel mounted on the panel
- Silicon hard disk (flash disk), USB port

Technology

- AMD Geode ETX-LX8 500 MHz, 128Mb of RAM.
- FPGA integrated logics, surface mounting, fiber optic

Options

- Modem for teleservice
- Autogas Console communication

Axes

- Standard 4, on request up to 8
- 5V incremental encoder inputs line-driver or single ended
- Maximum encoder input frequency 500KHz

Inputs/Outputs

- Standard 32 inputs and 32 outputs
- The I/O number could be expanded up to 2048
- 24Vdc PNP opto-insulated inputs, 24Vdc 1A opto-insulated static outputs protected against short circuit
- 4 Analogical inputs (0-10 V 12 bits resolution)
- 2 Analogical outputs (0-10V 12 bits resolution)



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