

Features

OSAI 10/510 Light CNC is an open-architecture CNC with integrated PLC, based on a real-time operating system, fully customizable at machine code level.

The 10/510 Light Can manage Multi-channel and Multi-control architectures, controlling up to 30 axes and 20 processes, with advanced CNC features. Its network-based Operator Interface, executed in MS-Windows? environment is fully customisable by the Machine Tool Builder.

OSAI WinMedia range of intelligent Operator Panels, is the most appropriate user interface, an high specification Panel PC which marks a great visual, tactile and ergonomic innovation of the machine-operator interface concept.



* OSAI is a Brand of PRIMA ELECTRONICS

Specifications

10/510 Light

- 510s: 600 MHz CPU
- 510i: 1 GHz CPU
- Black box configuration or interfaced with Panel PC
- Hard Disk unit or Silicon Disk Mass Memory, granting unlimited Part-Program size
- Axes Options: MECHATROLINK-1 (2 channels, 30 axes max), Analogue or OS-Wire Digital interface
- Fieldbus Options: CANOpen, Interbus or OS-Wire Digital Interface
- ISO Standard Programming Language, Special Instruction super-set (Asset Language)
- Up to 20 individual processes, Axes can be transferred between Processes
- Advanced control of dynamics: high speed algorithms, non linear acceleration ramps
- Configurable Look-ahead (up to 124 blocks)
- Sophisticated Tool Center Point for 5 axes machines
- Cartesian, Cylindrical, Polynomial Interpolation, 3D plan rotation and translation
- Multi-block retrace, Return on the Profile, Master Slave and Gantry Axes, Multi-axes Electronic Camming

MECHATROLINK specifications

| | | M- I | M- II | |
|--------------------|------------------------|----------|---------|---------|
| | | 17-byte | 17-byte | 32-byte |
| Command | Servo | × | - | — |
| | Stepping Motor Drivers | - | - | - |
| | Intelligent I/O | - | - | - |
| | Simple I/O | - | - | - |
| | Inverter | - | - | - |
| Transmission cycle | | 2ms, 4ms | | |

Contact Information

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