

# CE 2000



MASCHINEN,- ANLAGEN-  
STEUERUNGSTECHNIK UND  
SYSTEMSOFTWARE GmbH

## MSP • PC based machine control 19" chassis, LCD-terminal & Service pack

RF-resistant rack 19"3U/42HP with ISA/AT96 motherboard, Euroboard-IPC, digital I/O boards according to the clients' requirements, CF drive (option HDD), power supply, O.S. and Soft-PLC. Service add-ons: small and robust LCD unit and industrial keyboard.

### APPLICATION

The **MSP** was designed to control a varnish robotics system with 3 positioning axes and some binary I/Os. This machine is part of a furniture production line. The operational program will first be arranged manual by moving the drives and their sequence and at the same time storing the speed and all stop positions during the term of validity. This program may be used for the following automatic production as well as for the same component to be varnished later again.

The display & operation panel runs a comfortable operator guidance program.



IPC-IMT: machine terminal

IPC-MSP: machine-control + service equipment

### DESCRIPTION

The **KSP** consists of a HF-proof 1/2 19" rack, 3U high and 42HP wide. All interface connectors are placed in the front. The rack will be mounted on the plate of a switching cabinet.

The computer boards are stacked on an ISA96 bus with 7 slots. A wide range of CPUs is available: AMD Geode 266 MHz, VIA Eden 400 MHz and Intel Celeron M 600MHz are fanless; higher performance of CPUs up to Pentium M 1,2GHz are also on-hand. The RAM memory changes between 256 MB and 1GB according to requirements.

Bootable CF disks of 256 MB up to 8GB are disposable. Also a 2,5"/3,5" HDD may be added. All PC interfaces are on board; external CD-ROM- or USB devices may be plugged-in. The graphics adapter provides a TTL or LVDS interface and the power supply is selectable from 24V DC or 85-265V AC.

### OPTIONS

There are several PC components to be integrated: PC card, Modem, WLAN, additional interfaces and digital/analog peripheral boards. MASS also offers various operator panels plus small and low price service equipment for putting the system to operation and for software updates.

The O.S. may be WIN XP, XP embedded, Linux, DOS or a RTOS. Also drivers, a software-PLC or an application program may be installed.

The system will be tailored to clients' demands at pieces of > 25 / year.

### HIGHLIGHTS

- Modular fanless IPC dedicated for industrial control applications with permanent operation.

- 1/2 19" rack of 3U, ISA96 bus board, 3-7 euroboard slots and scalable CPU-power.

- AMD Geode 266MHz- to Intel Pentium M 2GHz, bootable CF Disk, PC-card or HDD for choice.

- Power supply 24VDC / 95-265VAC, front plates, interface connectors and cable sets as necessary

- Peripheral I/O boards or components selectable i.e. additional interfaces, modem, field bus, WLAN.

- Operation system according to requirement, WIN XP embedded, RTOS or Linux.

- Service case: 6,4"LCD in a robust Alum. housing and water proof keyboard packed in foam material.

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