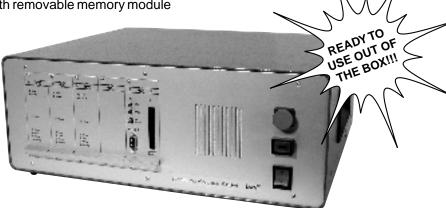# Techno Inc.          *C-Series C116 Machine Controller*

## FEATURES

♦ Available as 2-or 3-axis machine controller

♦ Remote START / STOP / RESET

♦ Bidirectional serial communication at up to 19200 baud

♦ 32K of on-board memory, capable of holding over 1200 3-axis motions

♦ Built-in forced-air ventilation for continuous duty

♦ Screw terminal connectors on rear panel for easy I / O hook-up

♦ Can be programmed with removable memory module

♦ LED status display on front panel

♦ Commands can be executed as a "batch program" or each command can be executed in a command-by-command basis

♦ All power supplies are built-in & wired up
    – Motor - 44V / 4.3A for each axis
    – Logic - 5V / 1.5A

♦ Comes fully assembled & **READY TO USE**



*READY TO USE OUT OF THE BOX!!!*

3 ELECTRONICS

## MOTION CAPABILITIES

• Linear interpolation on any 2 axes (XY, XZ or YZ) at rates up to 10K steps / sec.
• Motions up to $\pm$ 8,000,000 steps
• Switch-settable acceleration
• Can be programmed in both incremental & absolute coordinates

## INPUTS / OUTPUTS

• 8 optically isolated inputs up to 24V
• 8 optically isolated outputs up to 50V / 500 mA
• 8 open collector outputs up to 50V / 500 mA

## STEPPER AMPLIFIERS

• Each Stepper Motor Amplifier (model HL1100M313202) can produce up to 3.6A at 44V
• Total fault protection against:
    – Short circuit across phases
    – Short circuit to ground
    – Over / under voltage
    – Overtemperature

**NOTE:** This controller is **CE** compliant.

# *Techno Inc.*    *C-Series C116 Machine Controller*

## APPLICATIONS

This controller is suitable for normal-duty applications. It is suitable for driving slides and gantries up to 500 mm in travel length with Z-axis loads of 25 lb. maximum. Note that since the motors will be powered with 3.3 A/phase, they will produce only 80% of their rated torque.

**The C116 Machine Controller consists of:**
1 C116 enclosure
2 or 3 stepper drivers, HL1100M313202
1 Interface card 4.0 I/O, HL1200M325500
1 serial computer cable, HL1700M2784
2 or 3 motor cables, HX1700M6143

| Catalog Number | Part Description | Dimensions | Weight lbs |
|---|---|---|---|
| HL1300MC116 | C116 3-Axis Controller | 20.3" x 11" x 6.7" | 26.4 |
| HL1300MC116-2 | C116 2-Axis Controller | | 24 |

**NOTE:** The C116 3- and 2-axis controllers come complete with all power supplies, amplifiers, motor cables and serial cable to computer.

## ACCESSORIES
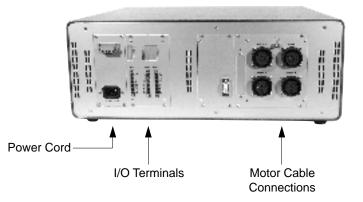
| Catalog Number | Part Description |
|---|---|
| HL1100M313202 | Stepper Motor Amplifier Card |
| HX1700M6143 | 10 ft. Motor Cable |
| H25Z61-DS1235AB | Battery-backed Memory |

For memory card and additional accessories, see page 166.

## SOFTWARE OPTIONS

• PAL - English like language programming system (included).
• ASCII - Can be directly programmed through any communication program.
• Can be programmed via many third-party software packages.

ELECTRONICS

**(Back Panel of C116)**



Power Cord

I/O Terminals     Motor Cable Connections