

X-3400-HD-U

Unwind Tension Controller




Montalvo X-3400-HD-U Unwind Tension Controller

The X-3400-HD-U uses a combination of analog and digital features for accurate, repeatable tension control on all unwind web processing machinery. Combine with Montalvo's P-3000-HD-RE Automatic Range Expander for a wider torque range to go from full roll to core. The Montalvo X-3400-HD-U controller is available mounted in an enclosure or as a circuit board.


Features & Benefits

► **Unwind Zone Functionality**

- Soft Start: eliminates shocks to the web on startup
- Anti-coast: prevents web tension from dropping on stop
- Web Break Detection: stops machine should a break occur
- Splice: maintains tension for more successful splices

► **Variable Wrap Angle Technology™**  - eliminates need to isolate tension sensing roll

► **Set It & Forget It Technology** - set-up parameters eliminate constant monitoring

► **Range Expansion**  - requires P-3000-HD Automatic Range Expander

► **Progressive PID Circuitry** - responsive, stable control at full roll to core

► **Tension Indication** - a visible, quick reference of tension

► **Multiple Mounting Options** - a dust proof, water resistant heavy duty enclosure or standalone circuit board

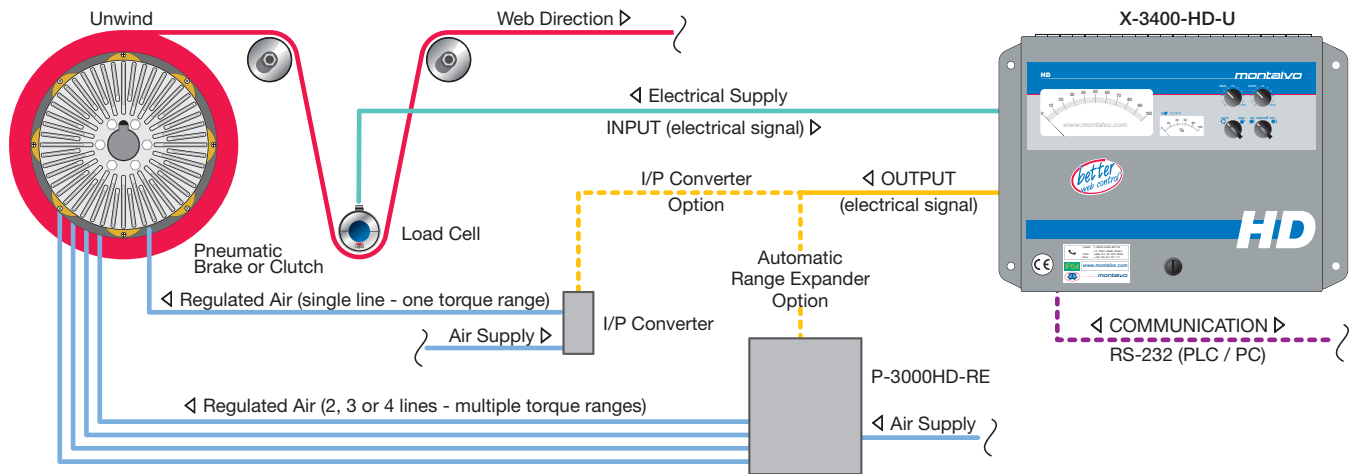
CB64 - circuit board version of Montalvo's X-3400-HD-U



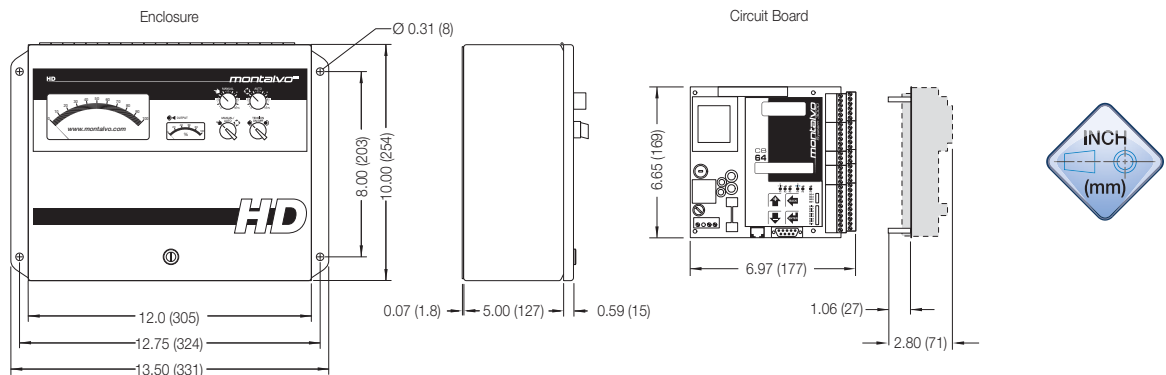
X-3400-HD-U

Unwind Tension Controller

How it works



Dimensions



Specifications

Electrical

AC Input 115 or 230 VAC $\pm 10\%$ (IEC-60204-1) 48 to 62 Hz
 Fuse Size (115 V) 160 mA T (slow-blowing type)
 Fuse Size (230 V) 80 mA T (slow-blowing type)
 Overvoltage Category II (IEC 664)
 Test Voltage 3.75 kV in 1 min. primary to secondary
 Max Power Consumption 12 VA
 Max External Input Fuse 10 A
 Noise Immunity EN 50082-2 industrial
 Noise Emission EN 50081-1
 Load Cell Supply ± 2.5 VDC $\pm 5\%$
 Load Cell Input 0 to ± 250 mVDC
 Load Cell Input (optional) 0 to 10 VDC
 Zero Range (tare) 50% of load cell rating
 Calibration Range 11 to 480
 Regulator Outputs 0 to 10 VDC, Maximum load 5 mA
 4 to 20 mA / 0 to 20 mA, RL = 0 to 1000 Ω
 Meter Outputs 0 to 100 μ A
 0 to 10 VDC, Maximum load 5 mA
 Analog Input Voltage 0 to 10 VDC, RI = 1000 k
 Digital Input Voltage 15 to 30 VDC, RI = 10 k

Digital Output Voltage 24 VDC $\pm 15\%$, Maximum load 100 mA
 Total load 4 outputs 350 mA
 Standards Designed to meet UL 508 and EN 60204

Environmental

Temperature Range Operating 32 to 122°F (0 to 50°C)
 Storage 14 to 176°F (-10 to 80°C)
 Degree of Protection Enclosure IP54
 Circuit Board P10

Functions

Auto Setpoint Standard
 Manual / Auto Standard
 Manual Setpoint Standard
 Tension On / Off Standard
 Low / High Scale Optional
 Splice Optional
 Taper Optional
 Range Expansion (requires P-3000-HD-RE) Optional
 Variable Wrap Angle Optional

Communications  Standard

The Montalvo Corporation

50 Hutcherson Drive, Gorham, Maine 04038 USA
 Fax: 1-800-644-5097 / 207-856-2509

1-800-226-8710 / info@montalvo.com / www.montalvo.com
 Technical details subject to change without notice. X-3400-HD-U-US-01 © Montalvo

montalvo
 Better Web Control®