

XM Controls

The neXt Generation of Automated Welding Systems and Standalone Components

XVC Controller

The XVC Controller provides a packaged stand alone Automatic Voltage Controller. It includes a fully assembled precision DC Servomotor, Encoder, and Linear Ball Screw slide. the XVC Module is equipped with a 200 Mhz Digital Signal Processor for Embedded digital controls. AMET's leading edge DSP technology provides precision AVC control with standard Pulsation capability and with factory equipped Variable Polarity and AC options.



FEATURES

- XM** Precision Servo travel package..
- XM** Simple yet powerful programming interface - just select and dial a value.
- XM** Simple plug and play connection of any X module (wire feed, oscillation, etc.)
- XM** Dedicated buttons for most commonly used welding functions.
- XM** Powerful DSP for precision control and accurate feedback.
- XM** Closed Loop Digital Signal Processor Controls.



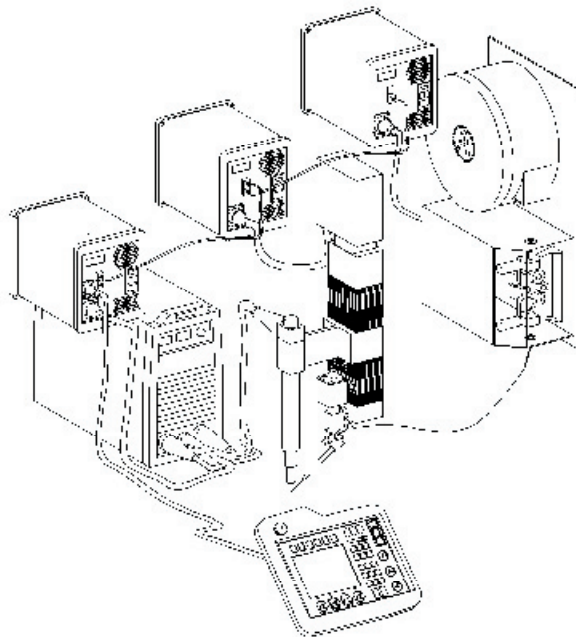
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XM Modules

A Modular and Networked approach to welding system design. The X-Modules work with the XM controller like USB peripherals work with a personal computer.

“PLUG & WELD” CONNECTIVITY



Build, or expand, your own system with the first “Plug and Weld” modules. XM modules are designed to be automatically recognized by the XM controller. Plug in any module and instantly add weld process capability.

XM “Plug and Weld” Modules

XM Controller

XPS - Power Supply Control

X-Feeder - Wire Feed Control (2 and 4 roll versions)

X-200 HW - Hot Wire Feed Control

X-Slide - Travel and Mechanical Oscillation Control

X-Rotary - Rotation Control

X-Plasma - Plasma Gas Control

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XVC Description

The XVC provides a packaged stand alone Automatic Voltage Controller. As well as integrates to the XM Modular series of plug and weld products. A manual pendant provides jog controls, start and stop delays, programmed voltage, deadband and sensitivity controls when installed as a stand alone controller. Or utilize the XM Graphical Welding Software when integrated to the XM Weld Controller.

The XVC package includes assembled precision DC Servo Motor, Encoder, and Linear Ball Screw Slide. The XVC module is equipped with an embedded 200 Mhz Motorola Digital Signal Processor, and Drive Amplifier for closed loop motor controls. AMET's leading edge DSP technology provide standard pulsation capability, with factory equipped Variable Polarity and AC options.

DSP TECHNOLOGY

The world is fast becoming digital, and Digital Signal Processors (DSPs) are at the heart of this digital revolution. It's a simple fact that accurate welding process control and monitoring requires fast and accurate signal processing. It's also a fact that DSPs do sophisticated signal processing better and faster than anything else. Need proof? DSPs are the fastest growing segment of the semi-conductor industry, and are used in cell phones, digital cameras, cable modems, and many other information processing devices.

AMET has brought this technology to the welding industry via a series of DSP boards specifically designed for welding control and monitoring applications. AMET DSP powered systems run their control and monitoring cycles at up to 10,000 times per second for every welding parameter. It is this powerful processing capability along with AMET's famous graphics software that makes AMET systems more accurate, flexible, and much, much easier to use.



LINUX

Linux has evolved as a preferred Operating System for the future. It is widely respected for it's stability and open source software architecture. AMET has developed the XM Series running on an Embedded Linux Real Time Operating System for enhanced performance and long term support.

Linux allows the Xm to support the Hardware advances of the future, with stability and transparency to the end user.



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